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UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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ADOBE SYSTEMS INCORPORATED,  
Petitioner,

v.

WILLIAM GRECIA,  
Patent Owner.

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Case IPR2018-00418  
Patent 8,402,555 B2

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Before JAMESON LEE, MICHAEL W. KIM, and  
MICHELLE N. WORMMEESTER, *Administrative Patent Judges*.

WORMMEESTER, *Administrative Patent Judge*.

DECISION  
Denying Institution of *Inter Partes* Review  
35 U.S.C. § 314(a)

## I. INTRODUCTION

Adobe Systems Incorporated (“Petitioner”) filed a Petition (Paper 2, “Pet.”) requesting *inter partes* review of claims 1–26 of U.S. Patent No. 8,402,555 B2 (Ex. 1001, “the ’555 patent”). William Grecia (“Patent Owner”) filed a Preliminary Response (Paper 6, “Prelim. Resp.”). We have jurisdiction under 35 U.S.C. § 314 and 37 C.F.R. § 42.4(a). Under 35 U.S.C. § 314(a), an *inter partes* review may not be instituted “unless . . . there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition.” For the reasons that follow, we decline to institute an *inter partes* review of the challenged claims.

## II. BACKGROUND

### A. Related Proceedings

The parties identify several federal district court cases relating to the ’555 patent. Pet. 2; Ex. 1012; Paper 4. The parties also identify several other petitions for *inter partes* review relating to the ’555 patent. Pet. 2–3; Paper 4.

### B. The ’555 Patent

The ’555 patent describes a digital rights management system, that manages access rights across a plurality of devices via digital media personalization, to protect digital media subject to illegal copying. Ex. 1001, 1:19–26; 4:47–48. Figure 3 of the ’555 patent, which illustrates how an example of such a system works, is reproduced below.

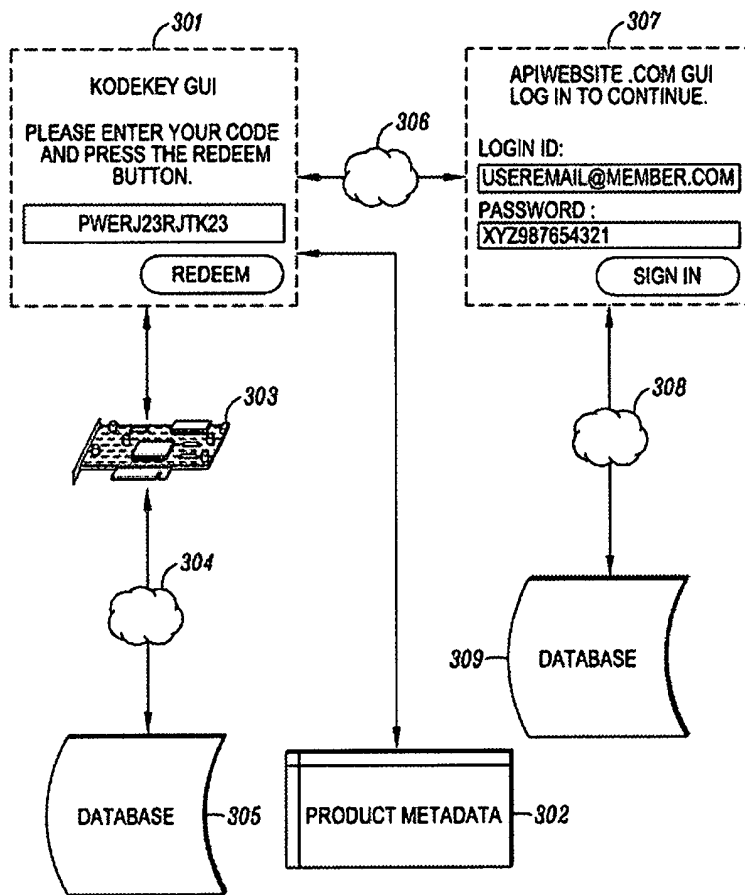


FIG. 3

In particular, Figure 3 provides a flow chart of a digital media personalization process. *Id.* at 4:23–25. A user who wishes to access certain digital media posts a branding request via Kodekey GUI 301, which prompts the user to enter a token and press the redeem button. *Id.* at 6:65–7:3. The branding request is a request to read or write metadata of the digital media, and includes a membership verification token corresponding to the digital media. *Id.* at 5:47–50. The token represents the digital media provider’s permission to grant access rights. *Id.* at 9:20–21. Kodekey GUI 301 is connected to token database 305, which is used to authenticate the token. *Id.* at 7:6–7, 8:19–21. After authentication, the user is redirected to

APIwebsite.com GUI 307, which prompts the user to enter a login ID and password to access the digital media from database 309. *Id.* at 7:10–11, 14–17. The APIwebsite.com GUI interfaces to a web service membership (e.g., Facebook), where an electronic identification for the user is collected and sent to Kodekey GUI 301. *Id.* at 7:10–14, 10:40–43. Kodekey GUI 301 also is connected to product metadata 302, which is readable/writable metadata associated with the digital media to be acquired. *Id.* at 7:3–4. Product metadata 302 is branded by writing the token and the user’s electronic identification reference into the metadata. *Id.* at 8:27–30. For a subsequent access request, the user’s electronic identification reference is compared against the electronic identification reference in metadata 302. *Id.* at 13:57–61. If there is a match, access rights are granted to the user. *Id.* at 13:61–62.

### *C. Challenged Claims*

Petitioner challenges claims 1–26 of the ’555 patent. Claims 1, 12, and 15 are independent. Claim 1 is illustrative of the claims under challenge:

1. A method for monitoring access to an encrypted digital media, the method facilitating interoperability between a plurality of data processing devices, the method comprising:

receiving an encrypted digital media access branding request from at least one communications console of the plurality of data processing devices, the branding request being a read or write request of metadata of the encrypted digital media, the request comprising a membership verification token provided by a first user, corresponding to the encrypted digital media;

- authenticating the membership verification token, the authentication being performed in connection with a token database;
- establishing connection with the at least one communications console wherein the communications console is a combination of a graphic user interface (GUI) and an Applications Programmable Interface (API) protocol, wherein the API is obtained from a verified web service, the verified web service capable of facilitating a two way data exchange to complete a verification process;
- requesting at least one electronic identification reference from the at least one communications console wherein the electronic identification reference comprises a verified web service account identifier of the first user;
- receiving the at least one electronic identification reference from the at least one communications console; and
- branding metadata of the encrypted digital media by writing the membership verification token and the electronic identification reference into the metadata.

*D. Asserted Grounds of Unpatentability*

Petitioner challenges claims 1–26 of the '555 patent on the following grounds. Pet. 1, 38–73.

References	Basis	Claims Challenged
Ameerally, <sup>1</sup> Gautier, <sup>2</sup> Frakes, <sup>3</sup> Zweig, <sup>4</sup> and Venkataramu <sup>5</sup>	§ 103	1–6, 8–22, 24 and 25
Ameerally, Gautier, Frakes, Zweig, Venkataramu, and Linking to iTunes <sup>6</sup>	§ 103	7 and 23
Ameerally, Gautier, Frakes, Zweig, Venkataramu, Kondrk, <sup>7</sup> and Modifying Content in iTunes <sup>8</sup>	§ 103	26

In support of its arguments, Petitioner relies on a Declaration of Dr. Aviel Rubin (Ex. 1002), a Declaration of Amisha Manek (Ex. 1026), and an Affidavit of Christopher Butler (Ex. 1027).

#### *E. Claim Construction*

We construe claims in an unexpired patent by applying the broadest reasonable interpretation in light of the specification of the patent in which they appear. *See* 37 C.F.R. § 42.100(b); *Cuozzo Speed Techs., LLC v. Lee*,

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<sup>1</sup> Ameerally, U.S. Publ'n No. 2006/0212401 A1, published Sept. 21, 2006 (Ex. 1004).

<sup>2</sup> Gautier, U.S. Publ'n No. 2005/0021478 A1, published Jan. 27, 2005 (Ex. 1005).

<sup>3</sup> Dan Frakes, *First Look: iTunes Digital Copy*, Macworld, <http://www.macworld.com/article/131751/2008/01/digitalcopy.html>, last visited Jan. 10, 2017 (Ex. 1006).

<sup>4</sup> Zweig, U.S. Publ'n No. 2007/0233606 A1, published Oct. 4, 2007 (Ex. 1008).

<sup>5</sup> Ramya Venkataramu, *Analysis and Enhancement of Apple's Fairplay Digital Rights Management* (May 2007) (Project Report, San Jose State University) (Ex. 1007).

<sup>6</sup> *Linking to the iTunes Music Store*, iTunes Store External Documentation (v. 1.2) (Dec. 7, 2009) (Ex. 1010, "Linking to iTunes").

<sup>7</sup> Kondrk, U.S. Publ'n No. 2004/0254883 A1, published Dec. 16, 2004 (Ex. 1009).

<sup>8</sup> Tony Bove & Cheryl Rhodes, *iPod & iTunes for DUMMIES* 310–312 (4th ed. 2006) (Ex. 1011, "Modifying Content in iTunes").



136 S. Ct. 2131, 2144–46 (2016) (upholding the use of the broadest reasonable interpretation standard). Under this standard, claim terms generally are given their ordinary and customary meaning, as would be understood by one of ordinary skill in the art in the context of the entire disclosure. *See In re Translogic Tech., Inc.*, 504 F.3d 1249, 1257 (Fed. Cir. 2007). A “claim term will not receive its ordinary meaning if the patentee acted as his own lexicographer,” however, and clearly set forth a definition of the claim term in the specification. *CCS Fitness, Inc. v. Brunswick Corp.*, 288 F.3d 1359, 1366 (Fed. Cir. 2002).

Petitioner argues proposed constructions for various limitations of the claims. Pet. 13–24. Patent Owner does not respond. *See generally* Prelim. Resp. For purposes of this Decision, we conclude that no claim term requires express interpretation at this time to resolve any controversy in this proceeding. *See Vivid Techs., Inc. v. Am. Sci. & Eng’g, Inc.*, 200 F.3d 795, 803 (Fed. Cir. 1999) (“[O]nly those terms need be construed that are in controversy, and only to the extent necessary to resolve the controversy.”).

### III. ANALYSIS

Petitioner relies on Venkataramu as a printed publication for each of its asserted grounds. Pet. 1; *see also id.* at 24 (referring to Venkataramu as a “prior art publication[.]”); 37 C.F.R. §42.104(b)(2) (the petition “must identify . . . the patents or printed publications relied upon for each ground”). Patent Owner contends that Petitioner has failed to establish that

Venkataramu was publicly accessible before the “critical date”<sup>9</sup> for the ’555 patent, and that Petitioner has thus failed to establish that Venkataramu qualifies as a printed publication. Prelim. Resp. 2, 4–8.<sup>10</sup> For the reasons explained below, we agree with Patent Owner.

According to the Federal Circuit, “[b]ecause there are many ways in which a reference may be disseminated to the interested public, ‘public accessibility’ has been called the touchstone in determining whether a reference constitutes a ‘printed publication’” under Section 102. *Kyocera Wireless Corp. v. Int’l Trade Comm’n*, 545 F.3d 1340, 1350 (Fed. Cir. 2008) (quoting *In re Hall*, 781 F.2d 897, 898–99 (Fed. Cir. 1986)). A reference is publicly accessible “upon a satisfactory showing that such document has been disseminated or otherwise made available to the extent that persons interested and ordinarily skilled in the subject matter or art exercising

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<sup>9</sup> The parties disagree as to the invention date to which Patent Owner is entitled for the challenged claims. The earliest possible effective filing date for the ’555 patent is March 21, 2010. Ex. 1001, at [63]. Petitioner notes that Patent Owner swore behind this date during prosecution for the ’555 patent, alleging a conception date of February 10, 2010, and “daily diligence” until March 21, 2010. Pet. 9; Ex. 1028, 1. Petitioner further asserts that it will assume for purposes of its Petition that the ’555 patent is entitled to an invention date of February 10, 2010. Pet. 9. Patent Owner, however, asserts an invention date of March 21, 2009. Prelim. Resp. 4, 6. Because we find that Petitioner does not show sufficiently that Venkataramu was publicly accessible prior to the earliest possible effective filing date for the ’555 patent, as explained in this section, we need not evaluate further for purposes of this Decision the possibility of an earlier date of invention for the ’555 patent.

<sup>10</sup> Patent Owner did not number the pages in its Preliminary Response. For purposes of this Decision, we have assigned a page number, starting with 1, to each of the pages in the Preliminary Response, starting with the caption page. Thus, the caption page is considered to be at page 1.

reasonable diligence, can locate it.” *SRI Int’l, Inc. v. Internet Sec. Sys., Inc.*, 511 F.3d 1186, 1194 (Fed. Cir. 2008). We assess public accessibility on a case-by-case basis. *See Kyocera*, 545 F.3d at 1350.

In instances of references stored in libraries, for example, “competent evidence of the general library practice may be relied upon to establish an approximate time when a thesis became accessible.” *In re Hall*, 781 F.2d at 899. “In these cases, we generally inquire whether the reference was sufficiently indexed or cataloged.” *Blue Calypso, LLC v. Groupon, Inc.*, 815 F.3d 1331, 1348 (Fed. Cir. 2016); *see also Medtronic, Inc. v. Barry*, --F.3d--, 2018 WL 2769092, at \*8 (Fed. Cir. Jun. 11, 2018) (“The issue of a reference’s public accessibility often arises in the context of references stored in libraries. In such cases, we generally inquire whether the reference was sufficiently indexed or cataloged.”); *accord Voter Verified, Inc. v. Premier Election Solutions, Inc.*, 698 F.3d 1374, 1380 (Fed. Cir. 2012) (“indexing is a relevant factor in determining accessibility of potential prior art, particularly library-based references”). In *Hall*, the Federal Circuit found sufficient “a declaration from the university librarian which detailed the library’s procedures for receiving, cataloging, and shelving of theses and attested to the relevant dates that [a certain] thesis was processed.” 781 F.2d at 899. By contrast, in *SRI International*, a document on an FTP server was not shown to have been sufficiently publicly available, in part, because “the FTP server did not contain an index or catalogue or other tools for customary and meaningful research.” 511 F.3d at 1196. In another example, theses deposited at a library “were not accessible to the public because they had not been either cataloged or indexed in a meaningful way.” *In re Cronyn*, 890 F.2d 1158, 1161 (Fed. Cir. 1989). In *Cronyn*, the theses

were cataloged in alphabetical order, by title, and “the student’s name, which, of course, bears no relationship to the subject of the student’s thesis.”  
*Id.*

Here, Venkataramu states on its face that it is a “Project Report” presented to the faculty of the computer science department at San Jose State University (SJSU). Ex. 1007 (cover page). Petitioner alleges that Venkataramu “was available and indexed as a Masters’ Thesis by San Jose State University and made available on the University’s website at least as of October 2, 2008, as evidenced by its record in the Internet Archive.” Pet. 30. As support, Petitioner relies on the Affidavit of Christopher Butler. *Id.* (citing Ex. 1027 ¶¶ 1, 4–5). According to his Affidavit, Mr. Butler is an office manager at the Internet Archive, which is located in San Francisco, California, rather than a staff member of the SJSU library where Petitioner alleges Venkataramu is located. Ex. 1027 ¶ 1. Mr. Butler testifies that the Internet Archive provides a service called the Wayback Machine, which allows users to access web pages stored in the Internet Archive’s web archive. *Id.* ¶ 3. The archived data is compiled using software programs that surf the web and automatically store copies of web files, preserving the files as they exist at the time of capture. *Id.* ¶ 4. The Internet Archive assigns a URL on its site to each archived file in the following format: [http://web.archive.org/web/\[yyyy\]\[mm\]\[dd\]\[hh:mm:ss\]/\[Archived URL\]](http://web.archive.org/web/[yyyy][mm][dd][hh:mm:ss]/[Archived URL]). *Id.* ¶ 5.

Attached to Mr. Butler’s Affidavit is an Exhibit A, which Mr. Butler testifies comprises “true and accurate copies of printouts of the Internet Archive’s records of the HTML files or PDF files for the URLs and the dates specified in the footer of the printout (HTML) or attached coversheet

(PDF).” *Id.* ¶ 6, Ex. A. We note that Exhibit A includes a cover sheet, as well as what appears to be a copy of Venkataramu. *Id.*, Ex. A. The cover sheet displays the following URL:

[https://web.archive.org/web/20081002140457/http://www.cs.sjsu.edu/faculty/stamp/students/RamyaVenkataramu\\_CS298Report.pdf](https://web.archive.org/web/20081002140457/http://www.cs.sjsu.edu/faculty/stamp/students/RamyaVenkataramu_CS298Report.pdf). *Id.* Thus, according to Mr. Butler, the Internet Archive captured and archived a copy of Venkataramu on October 2, 2008, at 2:04 pm.

Patent Owner responds that Petitioner provides “no evidence in the record regarding the San Jose State University website.” Prelim. Resp. 6. As such, Patent Owner argues that Petitioner “failed to produce evidence sufficient to show that the *Venkataramu* Report was publicly accessible before the critical date” for the ’555 patent, and that Venkataramu therefore “does not qualify as prior art.” *Id.*

We agree with Patent Owner. To determine a date on which Venkataramu was publicly accessible, we look to evidence of the SJSU library’s cataloging and indexing practices, as well as any search capability of the library’s website. *See Blue Calypso*, 815 F.3d at 1348; *Voter Verified*, 698 F.3d at 1380; *SRI*, 511 F.3d at 1196. Neither Petitioner nor Mr. Butler offers sufficient evidence that Venkataramu was sufficiently indexed or catalogued at SJSU for access. That the Internet Archive *captured* and *archived* a copy of Venkataramu does not mean, by itself, that Venkataramu was sufficiently indexed or catalogued at SJSU. Nor does it reveal anything about the search capabilities of the SJSU library website. Mr. Butler does not claim to have personal knowledge of the general library practices of the SJSU library, or the search capabilities of the SJSU library website. For example, he does not testify as to the procedures, if any, the university uses

to index or catalog project reports, or the manner, if at all, in which project reports are indexed or cataloged (e.g., by author, title, subject). He also does not testify as to the search capabilities of the SJSU library website. Further, neither Petitioner nor Mr. Butler introduces any evidence that Venkataramu was actually disseminated to any interested skilled artisans prior to the earliest possible effective filing date for the '555 patent. Additionally, Petitioner has not explained why making a copy of Venkataramu accessible on the Internet Archive constitutes publication of Venkataramu on the Internet Archive as of October 2, 2008. In that regard, we note that Mr. Butler's Affidavit does not indicate that the archived files are searchable through a subject matter index or catalog.

We note Petitioner's additional assertion in a footnote that "[f]urther evidence of public availability of *Venkataramu* before the '555 Patent priority is the book chapter authored by Ramya Venkataramu for 'Handbook of Research on Secure Multimedia Distribution,' published on February 26, 2009, which cites the same archived internet address." Pet. 30 n.3. To support that assertion, Petitioner directs us to where the book cites the internet address for Venkataramu. *Id.* (citing Ex. 1016, 155). Petitioner also directs us to a Library of Congress record that provides some information about the book. *Id.* (citing Ex. 1025). Petitioner relies on the Declaration of Amisha Manek, an attorney at Perkins Coie, LLP. Pet. 30 n.3 (citing Ex. 1026 ¶¶ 4–5); Ex. 1026 ¶ 1. In her Declaration, Ms. Manek observes that both the title page of the book and the first page of the book chapter (which cites the internet address for Venkataramu) have a 2009 copyright date, and that the Library of Congress record shows that the book was "published or

created” in 2009. Ex. 1026 ¶ 4 (citing Ex. 1016 (title page)); *id.* ¶ 5 (citing Ex. 1025).

In response, Patent Owner counters that Petitioner “fail[s] to produce evidence sufficient to show that the *Venkataramu* Report, as cited in the [book], was publicly accessible before the critical date.” Prelim. Resp. 8. We agree. Neither Petitioner nor Ms. Manek explains the relationship, if any, between the book and Venkataramu. For example, Petitioner does not explain, and Ms. Manek does not testify, as to how a member of the public interested in the subject matter of Venkataramu would have located it by first obtaining access to the book.

In view of the foregoing, we determine that Petitioner has not shown sufficiently that Venkataramu was publicly accessible prior to the earliest possible effective filing date for the ’555 patent. Therefore, Petitioner has not shown that Venkataramu qualifies as a printed publication. Because each of Petitioner’s asserted grounds relies on Venkataramu, Petitioner has not demonstrated a reasonable likelihood of showing that any of claims 1–26 would have been obvious over any of the asserted grounds.

#### IV. CONCLUSION

For the foregoing reasons, Petitioner has not demonstrated on the record before us a reasonable likelihood that it would prevail in showing the unpatentability of any challenged claim of the ’555 patent.

#### V. ORDER

For the reasons given, it is

ORDERED that the Petition is *denied* and no trial is instituted.

IPR2018-00418  
Patent 8,402,555 B2

PETITIONER:

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AO 120 (Rev. 08/10)

<b>TO:</b> <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court \_\_\_\_\_ for the Southern District of New York \_\_\_\_\_ on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 1:15-cv-9210	DATE FILED 11/23/2015	U.S. DISTRICT COURT for the Southern District of New York
PLAINTIFF William Grecia		DEFENDANT Visa Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,887,308	11/11/2014	William Grecia
2 8,533,860	9/10/2013	William Grecia
3 8,402,555	3/19/2013	William Grecia
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
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CLERK Ruby J. Krajick	(BY) DEPUTY CLERK /s/ P. Canales	DATE 11/24/2015
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 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

EWS-002142

AO 120 (REV. 08/10)

<b>TO: Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court \_\_\_\_\_ on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 1:16-cv-7111	DATE FILED 9/8/2016	U.S. DISTRICT COURT
PLAINTIFF WILLIAM GRECIA		DEFENDANT ADORAMA CAMERA, INC.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,402,555	3/19/2013	WILLIAM GRECIA
2		
3		
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY	<input checked="" type="radio"/> Amendment <input checked="" type="radio"/> Answer <input checked="" type="radio"/> Cross Bill <input checked="" type="radio"/> Other Pleading
TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
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CLERK Ruby J. Krajick	(BY) DEPUTY CLERK R. Chambers	DATE 9/13/2016
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 Conv 2—Upon filing document adding patent(s), mail this conv to Director    Conv 4—Case file conv

EWS-002143

AO 120 (Rev. 08/10)

<b>TO: Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Northern District of Illinois on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 17cv7300	DATE FILED 10/10/2017	U.S. DISTRICT COURT Northern District of Illinois
PLAINTIFF William Grecia		DEFENDANT Discover Financial Services, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,887,308 B2	11/11/2014	William Grecia
2 8,533,860 B1	9/10/2013	William Grecia
3 8,402,555 B2	3/19/2013	William Grecia
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
--------------------

CLERK Thomas G. Bruton	(BY) DEPUTY CLERK Anya Ellis	DATE 10/11/2017
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Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

EWS-002144

AO 120 (Rev. 08/10)

<b>TO: Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Northern District of Georgia on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 1:16-cv-1324-WSD	DATE FILED 4/22/2016	U.S. DISTRICT COURT Northern District of Georgia
PLAINTIFF William Grecia		DEFENDANT Cox Communications, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 US 8,533,860 B1	9/10/2013	William Grecia
2 US 8,402,555 B2	3/19/2013	
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
--------------------

CLERK JAMES N. HATTEN	(BY) DEPUTY CLERK s/Rebecca Spratt	DATE 4/25/2016
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 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

EWS-002145



UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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MASTERCARD INTERNATIONAL INCORPORATED,  
Petitioner,

v.

WILLIAM GRECIA,  
Patent Owner.

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Case IPR2017-00788  
Patent 8,402,555 B2

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Before JAMESON LEE, MICHAEL W. KIM, and  
MICHELLE N. WORMMEESTER, *Administrative Patent Judges*.

LEE, *Administrative Patent Judge*.

DECISION

Denying Institution of *Inter Partes* Review  
35 U.S.C. § 314(a) and 37 C.F.R. § 42.108(b)

I. INTRODUCTION

A. Background and Summary

On January 27, 2017, Petitioner<sup>1</sup> filed a Petition (Paper 1, "Pet.") to institute *inter partes* review of claims 1–26 of U.S. Patent No. 8,402,555 B2

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<sup>1</sup> MasterCard International Incorporated.

(Ex. 1001, “the ’555 patent”). On May 4, 2017, Patent Owner<sup>2</sup> filed a Preliminary Response (Paper 6, “Prelim. Resp.”). To institute an *inter partes* review, we must determine that the information presented in the Petition shows “that there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition.” 35 U.S.C. § 314(a). Having considered the arguments and evidence presented by Petitioner and Patent Owner’s Preliminary Response, we determine that Petitioner has *not* demonstrated a reasonable likelihood that it would prevail in establishing the unpatentability of any one of claims 1–26 of the ’555 patent.

B. Related Matters

Patent Owner has identified the following actions as related to the ’555 patent: (1) *Grecia v. DISH Network L.L.C.*, Case No. 4:16-cv-588 (N.D. Cal.) (February 3, 2016); (2) *Grecia v. MasterCard Incorporated*, Case No. 1:15-cv-9059 (S.D.N.Y.) (November 18, 2015); (3) *Grecia v. American Express Company*, Case No. 1:15-cv-9217 (S.D.N.Y.) (November 23, 2015); (4) *Grecia v. Visa Inc.*, Case No. 1:15-cv-9210 (S.D.N.Y.) (February 23, 2015); (5) *Grecia v. McDonald’s Corporation*, Case No. 1:16-cv-2560 (N.D. Ill.) (February 24, 2016). Paper 5. The ’555 patent also is the subject of IPR2016-00789 and IPR2017-00799.<sup>3</sup> Related Patent No. 8,887,308 B2 is the subject of IPR2016-00602, IPR2016-01519,

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<sup>2</sup> William Grecia.

<sup>3</sup> The Board declined to institute review in IPR2016-00789. IPR2017-00799 terminated by settlement.

IPR2017-00788  
Patent 8,402,555 B2

IPR2017-00793, and IPR2017-00797.<sup>4</sup> *Id.* Related Patent 8,533,860 B1 is the subject of IPR2016-00422, IPR2016-00600, and IPR2017-00791.<sup>5</sup> *Id.*

C. The '555 Patent

The '555 patent relates to a “more personal” system of digital rights management which employs electronic ID, as part of a web service membership, to manage access rights across a plurality of devices. Ex. 1001, 1:21–25. The disclosure is directed to “an apparatus that facilitates access to encrypted digital media to accept verification and authentication from an excelsior enabler using at least one token and at least one electronic identification.” Ex. 1001, Abstr. According to the '555 patent, an “excelsior enabler” is a content acquirer, and “secondary enablers” are recognized friends and family of the excelsior enabler. *Id.* at 5:7–12. The excelsior enabler and secondary enablers are “human beings or computerized mechanisms programmed to process the steps of the invention as would normally be done manually by a human being.” *Id.* at 5:12–16.

The specification states:

[T]he current states of DRM measures are not satisfactory because unavoidable issues can arise such as hardware failure or property theft that could lead to a paying customer [losing] the right to recover purchased products. The current metadata writable DRM measures do not offer a way to provide unlimited interoperability between different machines. Therefore, a solution is needed to give consumers the unlimited interoperability between devices and “fair use” sharing partners for an infinite time frame while protecting commercial digital

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<sup>4</sup> The Board declined to institute review in IPR2016-00602 and in IPR2016-01519. IPR2017-00797 terminated by settlement.

<sup>5</sup> IPR2015-00422 terminated by settlement. The Board declined to institute review in IPR2016-00600.

media from unlicensed distribution to sustain long-term return of investments.

*Id.* at 2:63–3:7.

Claims 1, 12, and 15 are independent. Claim 1 is drawn to a method; claim 12 is drawn to a system; and claim 15 is drawn to a computer program product. For system claim 12, the actions performed by the various structural parts correspond to the respective steps recited in method claim 1. Claim 15 recites a computer program product comprising non-transitory computer usable medium having computer readable program code, wherein the computer program product performs various steps that correspond to the respective steps recited in method claim 1. We focus on claim 1, which is representative and reproduced below:

1. A method for monitoring access to an encrypted digital media, the method facilitating interoperability between a plurality of data processing devices, the method comprising:  
receiving an encrypted digital media access branding request from at least one communication console of the plurality of data processing devices, the branding request being a read or write request of metadata of the encrypted digital media, the request comprising a membership verification token provided by a first user, corresponding to the encrypted digital media;  
authenticating the membership verification token, the authentication being performed in connection with a token database;  
establishing connection with the at least one communication console wherein the communication console is a combination of a graphical user interface (GUI) and an Application Programmable Interface (API) protocol, wherein the API is obtained from a verified web service, the verified web service capable of facilitating a two way data exchange to complete a verification process;



requesting at least one electronic identification reference from the at least one communications console wherein the electronic identification reference comprises a verified web service account identifier of the first user;

receiving the at least one electronic identification reference from the at least one communications console; and

branding metadata of the encrypted digital media by writing the membership verification token and the electronic identification reference into the metadata.

Ex. 1001, 14:36–64. The six steps of claim 1 are broadly illustrated in a flowchart shown in Figure 6 of the '555 patent, reproduced below:

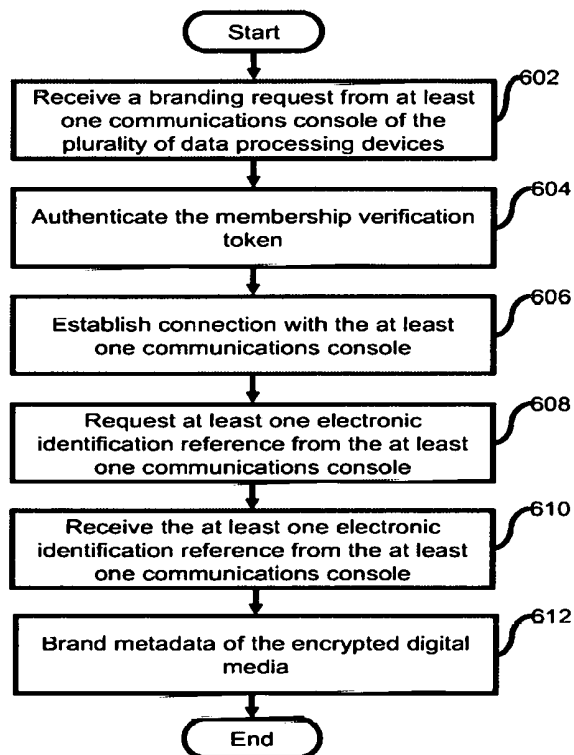


FIG.6

Figure 6 shows a flowchart of the process for monitoring access to an encrypted digital media, according to an embodiment of the '555 patent. *Id.* at 4:32–35.

D. Evidence Relied Upon by Petitioner

Petitioner relies on the following references:<sup>6</sup>

	<b>Reference</b>	<b>Date</b>	<b>Exhibit</b>
Ameerally	U.S. Pub. App. 2006/0212401 A1	Published Sept. 21, 2006	Ex. 1003
Zweig	U.S. Pub. App. 2007/0233606 A1	Published Oct. 4, 2007	Ex. 1004
Gautier	U.S. Pub. App. 2005/0021478 A1	Published Jan. 27, 2005	Ex. 1005
Frakes	Dan Frakes, <i>First Look: iTunes Digital Copy</i> , MacWorld, <a href="http://www.macworld.com/article/1131751/2008/01/digital-copy.html">http://www.macworld.com/article/1131751/2008/01/digital-copy.html</a> , last visited Jan. 10, 2017	January 22, 2008	Ex. 1006
Anderson	Ross Anderson, <i>Security Engineering: A Guide to Building Dependable Distributed Systems</i> , 2 <sup>nd</sup> Ed., Wiley Publishing, Inc., Chapters 6 and 22.	2008	Ex. 1007
Taylor	David Taylor, <i>How Do I Use a Starbucks iTunes Free Pick of the Week Song Card</i> , <a href="http://web.archive.org/web/20080916071909/http://www.askdavetaylor.com/how_to_use_redeem_starbucks_itunes_free_pick_week_song_card.html">http://web.archive.org/web/20080916071909/http://www.askdavetaylor.com/how_to_use_redeem_starbucks_itunes_free_pick_week_song_card.html</a> (last visited Jan. 10, 2017)	August 8, 2008	Ex. 1008

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<sup>6</sup> The earliest possible effective filing date of the '555 patent that potentially may be established by Patent Owner is March 21, 2010. Ex. 1001, (63).

Reference	Date	Exhibit
Christman Ed Christman, <i>Brick-and-Mortar Stores Eye New Music Formats</i> , Reuters Internet News, <a href="http://www.reuters.com/article/us-formats-idUSN2838542620071028?pageNumber=1">http://www.reuters.com/article/us-formats-idUSN2838542620071028?pageNumber=1</a> (last visited: Jan. 13, 2017)	Oct. 28, 2007	Ex. 1009
Kondrk U.S. Pub. App. 2004/0254883 A1	Dec. 16, 2004	Ex. 1010
Suits U.S. Pub. App. 2008/0040379 A1	Feb. 14, 2008	Ex. 1011
iTunes® Terms iTunes Store Terms of Service, Apple Inc.	Sept. 10, 2007	Ex. 1012

Petitioner also relies on the Declaration of Ravi S. Cherukuri (Ex. 1013).

E. The Asserted Grounds

Petitioner asserts the following grounds of unpatentability (Pet. 31):

Claim(s) Challenged	Basis	References
1-25	§ 103(a)	Ameerally and Zweig, with further support by Frakes, Gautier, Anderson, Taylor, Christman, and iTunes® Terms
26	§ 103(a)	Ameerally, Zweig, Kondrk, and Suits, with further support by Frakes, Gautier, Anderson, Taylor, Christman, and iTunes® Terms

II. ANALYSIS

The question of obviousness is resolved on the basis of underlying factual determinations including: (1) the scope and content of the prior art; (2) any differences between the claimed subject matter and the prior art;

(3) the level of ordinary skill in the art; and (4) objective evidence of nonobviousness. *Graham v. John Deere Co.*, 383 U.S. 1, 17–18 (1966). One seeking to establish obviousness based on more than one reference also must articulate sufficient reasoning with rational underpinning to combine teachings. *See KSR Int’l Co. v. Teleflex, Inc.*, 550 U.S. 398, 418 (2007).

With regard to the level of ordinary skill in the art, we determine that no express finding is necessary, on this record, and that the level of ordinary skill in the art is reflected by the prior art of record. *See Okajima v. Bourdeau*, 261 F.3d 1350, 1355 (Fed. Cir. 2001); *In re GPAC Inc.*, 57 F.3d 1573, 1579 (Fed. Cir. 1995); *In re Oelrich*, 579 F.2d 86, 91 (CCPA 1978).

#### A. Claim Construction

In an *inter partes* review, claim terms in an unexpired patent are interpreted according to their broadest reasonable construction in light of the specification of the patent in which they appear. 37 C.F.R. § 42.100(b); *Cuozzo Speed Techs., LLC v. Lee*, 136 S. Ct. 2131, 2142–46 (2016). Consistent with that standard, claim terms also are generally given their ordinary and customary meaning, as would be understood by one of ordinary skill in the art in the context of the entire disclosure. *See In re Translogic Tech., Inc.*, 504 F.3d 1249, 1257 (Fed. Cir. 2007). There are, however, two exceptions to that rule: “1) when a patentee sets out a definition and acts as his own lexicographer,” and “2) when the patentee disavows the full scope of a claim term either in the specification or during prosecution.” *Thorner v. Sony Comp. Entm’t Am. LLC*, 669 F.3d 1362, 1365 (Fed. Cir. 2012).

If an inventor acts as his or her own lexicographer, the definition must be set forth in the specification with reasonable clarity, deliberateness, and precision. *Renishaw PLC v. Marposs Societa’ per Azioni*, 158 F.3d 1243,

1249 (Fed. Cir. 1998). It is improper to add into a claim an extraneous limitation, i.e., one that is added wholly apart from any need for the addition. *See, e.g., Hoganas AB v. Dresser Indus., Inc.*, 9 F.3d 948, 950 (Fed. Cir. 1993); *E.I. du Pont de Nemours & Co. v. Phillips Petroleum Co.*, 849 F.2d 1430, 1433 (Fed. Cir. 1988).

Only terms which are in controversy need to be construed, and only to the extent necessary to resolve the controversy. *See Wellman, Inc. v. Eastman Chem. Co.*, 642 F.3d 1355, 1361 (Fed. Cir. 2011); *Vivid Techs., Inc. v. Am. Sci. & Eng'g, Inc.*, 200 F.3d 795, 803 (Fed. Cir. 1999).

“or”

Petitioner urges that we should construe “or” as “a choice between either one of two alternatives, but not both.” Pet. 14. What Petitioner desires is that the word “or” requires the satisfaction of one, and only one, listed choice to the exclusion of all others. We do not read the term this narrowly, under the rule of broadest reasonable interpretation. Petitioner cites to *Kustom Signals, Inc. v. Applied Concepts, Inc.*, 264 F.3d 1326, 1331–1332 (Fed. Cir. 2001) as supporting its position. *Id.* But the rule of broadest reasonable interpretation was inapplicable in *Kustom Signals*, and the words of a claim are not construed in light of the specification of an unrelated patent. We see no reason to construe narrowly the word “or” to require the satisfaction of only one choice to the exclusion of the satisfaction of all other choices. The word itself conveys no such restrictive meaning. If it is the case that the alternatives are such that only one choice possibly can be met, then the exclusion stems from the nature of the alternatives themselves, and not from the word “or.”

*“two way data exchange”*

Petitioner urges that we construe “two way data exchange” as “the ability to receive and send data.” Pet. 16. Petitioner does not explain how its proposed construction is any different from the plain and ordinary meaning of the phrase in the English language. We agree with Patent Owner that no express construction is necessary for this phrase. Prelim. Resp. 22.

*“metadata of the encrypted digital media”*

Petitioner urges that we construe “metadata of the encrypted digital media” to be “data about the encrypted digital media.” Pet. 16. Patent Owner expresses no specific opposition in its Preliminary Response, other than to say that no construction is necessary. Prelim. Resp. 22. We have reviewed the portion of the specification as cited by Petitioner, as well as Paragraph 59 of the Declaration of Mr. Cherukuri (Ex. 1013) which is also cited by Petitioner. Mr. Cherukuri testifies:

59. The term “metadata” is well-known in the art, and includes data describing the encrypted digital media. Metadata is not necessarily connected to or physically in the content file, but can be. Rather, the metadata can be separate file that includes information or data about the digital media.

Ex. 1013 ¶ 59. We agree with Petitioner, and, on this record, determine that the broadest reasonable interpretation of “metadata of the encrypted digital media” is “data about the encrypted digital media.”

*“key file”*

Petitioner urges that “key file,” appearing in claim 9, should be construed to mean “a file that includes an account identifier of a user.” Pet. 17. Claim 9 depends from claim 1. Because issues stemming from claim 1 are dispositive of our decision, it is not necessary for us to consider an appropriate construction for the term “key file” in claim 9.

*“the request comprising a membership verification token provided by a first user, corresponding to the encrypted digital media”*

Petitioner states that during the IPR2016-00789 proceeding, which also involved the '555 patent, the Board construed the phrase “the request comprising a membership verification token provided by a first user, corresponding to the encrypted digital media,” recited in each of independent claims 1, 12, and 15, such that the phrase “corresponding to the encrypted digital media” modifies the claim term “membership verification token.” Pet. 14. Petitioner also states that it agrees with that construction. *Id.* Patent Owner does not express a view beyond saying that no construction is necessary. Prelim. Resp. 22. We determine, on this record, that according to the plain and ordinary reading of the phrase at issue under the broadest reasonable interpretation, it is true that the phrase “corresponding to the encrypted digital media” modifies the claim term “membership verification token.”

*“the electronic identification reference comprises a verified web service account identifier”*

Petitioner urges that the phrase “the electronic identification reference comprises a verified web service account identifier,” recited in claims 1, 12, and 15, should be construed to mean “an identifier of a web service that can be used to identify a user or device.” Pet. 15. Petitioner asserts that the '555 patent describes that the “electronic identification reference” is obtained from any web service capable of identifying a user or device, and identifies numerous corresponding disclosure in the specification. *Id.* at 15–16. Patent Owner does not express a view beyond saying that no construction is necessary. Prelim. Resp. 22. We have reviewed the specification, including

the portions identified by Petitioner. We construe the phrase “the electronic identification reference comprises a verified web service account identifier” to mean that the “electronic identification reference” is “an identifier of a web service, that can be used to identify a user of the web service or a device that accesses the web service.” Our construction differs from that proposed by Petitioner, because a plain reading of the phrase at issue indicates that both the user and the device must be tied to the web service.

*“the branding request is a request  
from one or more secondary users”*

The phrase “the branding request is a request from one or more secondary users” appears in claim 19, which depends indirectly from claim 15. Ex. 1001, 17:35–49. Petitioner urges that we should construe the phrase as meaning “a second branding request from one or more secondary users.” Pet. 18. Because issues stemming from claim 1 are dispositive of our decision, it is not necessary for us to consider an appropriate construction for this phrase in claim 19.

B. Alleged Unpatentability of Claims 1–25 as Obvious  
over Ameerally and Zweig, with further support by Frakes,  
Gautier, Anderson, Taylor, and iTunes® Terms

We understand Petitioner’s phrasing of the alleged ground of unpatentability as that independent claims 1, 12, and 15 would have been obvious over Ameerally and Zweig alone, without need to rely on any other prior art reference (Pet. 32, 56, 64–65), that some dependent claims would have been obvious over the same, and that some other dependent claims would have been obvious over Ameerally, Zweig, and one or more of the



other prior art references (e.g., claims 9, 10, 11, 14, 17, 19, 26).<sup>7</sup> Each of the prior art references applied by Petitioner is said to be directed to Apple's iTunes® digital media system. Specifically, the Petition states:

As is often the case, with a system as diverse and complex as Apple's iTunes® system, there is not a single publication that describes the system in its entirety, but rather multiple publications that disclose various components or elements of the system. As such, each of the prior art references discussed herein describe[s] a specific feature or component of the overall iTunes® system.

Pet. 19 n.5. For reasons discussed below, however, Petitioner has not shown a reasonable likelihood that it would prevail in establishing unpatentability of any one of claims 1–25 as obvious over Amecrally and Zweig, with further support by Frakes, Gautier, Anderson, Taylor, and iTunes® Terms.

1. Ameerally

Ameerally is directed to a method of operating a digital media purchase system, including receiving a unique promotional code from one of a plurality of consumers via a data network. Ex. 1003, Abstr. “The receipt is in association with a user account of the one consumer with the digital media purchase system.” *Id.* A database associated with the media purchase system is used to determine particular digital media items associated with the received promotional code. *Id.* “A user account of the one consumer with the digital media purchase system is configured to enable access to the determined particular digital media from the media purchase system.” *Id.*

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<sup>7</sup> When discussing independent claims 1, 12, and 15, Petitioner still includes statements about the disclosure of Frakes, Taylor, Gautier, Anderson, and iTunes® Terms for additional support. Pet. 32–44. Where necessary, we will address those disclosures as well.

At one step within Ameerally's method, after determining the particular digital media content associated with the received promotional code (step 316), but prior to making that determined digital media content accessible to the consumer (step 318), there is step 317 that performs account handling. *Id.* at Fig. 3. In that regard, Ameerally describes:

Step 317 includes processing associated with user accounts with the digital media purchase system 100. If the user is already logged in to an account with digital media purchase system 100, then processing continues at step 318. Otherwise, the user is prompted to log into an account (if the user has previously created an account) or to create an account. Most of the step 317 processing, for account handling, is part of a conventional digital media purchase system. In some examples, a user account may [comprise] merely the particular session in which the user is interacting with the digital media purchase system via a client, and no pre-existing and/or after-existing relationship is implied.

*Id.* ¶ 41.

## 2. Zweig

Zweig is directed to a system and method for granting users a right in a copy of a digital content unit, without having to download another copy of the same digital content. Ex. 1004 ¶ 19. It also is directed to a system and method for transcribing and converting a digital content unit encrypted, with a given key, into a decryptable copy of the digital content unit for a user having a legal right to obtain a copy of the digital content unit. *Id.* ¶ 20.

According to one embodiment of Zweig, each digital content unit in the digital content store is encrypted with a unique key based on the header of the content unit, and a secret key associated with a user. *Id.* ¶ 20. Zweig states that “[b]ecause the header is unique to each digital content unit, each digital content unit is encrypted with a unique key, even for the same user.”

*Id.* ¶ 29. Each time a user purchases or downloads an encrypted digital content unit, a different decrypt key is generated. *Id.* ¶ 31.

Zweig discloses an embodiment in which user A provides user B a copy of the encrypted digital content, purchased or downloaded by user A, and user B is provided authorization to access that copy, perhaps for a fee, as part of a subscription, in exchange for other consideration, or even for free for a finite period of time. *Id.* ¶¶ 68–69. The digital content user system in user B’s device would communicate, with a digital content distribution system in the digital content store, so as to obtain an appropriate key to decrypt the copy. *Id.* ¶¶ 70, 71. Zweig describes:

After obtaining the appropriate decrypt key to decrypt the copy, the digital content user system in user B’s device may decrypt the copy unit, and at operation 525, re-encrypt it with an encrypt key associated with user B to generate a legitimate copy of the digital content unit for user B to enjoy. Alternatively, operation 525 may be performed by the digital content store 115 or digital content distribution system 200. In such embodiments, the entire copy unit may be transmitted to the store or system, or simply the header of the copy unit may be so transmitted.

*Id.* ¶ 75. Zweig explains: “As described hereinabove, one of ordinary skill in the art should understand that the legitimate copy may be generated without user B having to download the digital content unit from digital content store 115.” *Id.* ¶ 76.

### 3. Discussion

#### a. Claims 1, 12, and 15

The preamble of claim 1 recites: “A method for monitoring access to an encrypted digital media, the method facilitating interoperability between a plurality of data processing devices.” Claim 12 has a similar preamble but in apparatus form. Claim 15 has a similar preamble but in the form of a

computer program product with computer readable code. We determine that the phrase “facilitating interoperability between a plurality of data processing devices” constitutes a limiting recitation because it gives life and meaning to the requirement in the body of each of claims 1, 12, and 15 of “receiving an encrypted digital media access branding request from at least one communications console of the plurality of data processing devices.”

Ameerally does disclose a method for monitoring access to an encrypted digital media. Mr. Cherukuri testifies that authentication in Ameerally’s disclosure “includes determining whether a submitted unique code has been used before for accessing the encrypted digital media.” Ex. 1013 ¶ 114. The testimony is supported by Ameerally. Ex. 1003 ¶ 27. Ameerally also describes allowing a user the choice of the particular content for access, if a promotion is not tied to a particular digital content, or simply allowing access to a particular digital content that is the subject of a promotion. *Id.* ¶ 45. That also constitutes monitoring access to an encrypted digital media.

With regard to “facilitating interoperability between a plurality of data processing devices,” Petitioner refers to Ameerally’s step of receiving a unique promotional code from one of a plurality of consumers via a data network. Pet. 32 (citing Ex. 1003 ¶ 9). But we do not see receiving a promotional code, from one of a plurality of consumers, as constituting facilitating interoperability between a plurality of data processing devices. Even if each consumer has its own data processing device with which to send a promotional code, Petitioner has not sufficiently explained the “interoperability” between such data processing devices and how that “interoperability” is facilitated. The fact that each consumer’s device can

send a separate promotional code for accessing digital content, that is the subject of the corresponding promotion, does not have much to do with “interoperability” between such devices.

We have reviewed Petitioner’s citations to Zweig (Pet. 32–33) and do not discern disclosure of any facilitation of interoperability between a plurality of data processing devices. For instance, Zweig describes: “Content protection technologies are those technologies used to monitor and control access to digital content. For example, a digital content store such as iTunes Music Store may deploy these technologies to ensure that digital content units obtained from its store will not be improperly resold, redistributed or copied by unauthorized users.” Ex. 1004 ¶ 6. That disclosure is too generic to meet the limitation of facilitating interoperability between a plurality of data processing devices. There is no specific disclosure of accessing purchased digital content by more than one device.

Frakes, on the other hand, in portions identified in the Petition (Pet. 33–34), discloses, as a feature in iTunes®, facilitating interoperability between a plurality of data processing devices. Specifically, Frakes states:

Once the “download is complete, the movie appears under the Movics section of your iTunes Library, just like any movie you may have bought from iTunes. You can play it in iTunes or Front Row, and you can transfer it to an iPod, iPhone, Apple TV, or another Mac.

Unlocking the movie associates your iTunes store account with the file using Apple’s FairPlay digital rights management (DRM) technology. (In fact, if you visit your account in the iTunes Store and click on Purchase History, the Digital Copy will appear in your list of purchases.) Thus, the same five-computer limit applied to iTunes Store purchases applies to Digital Copy movies.

Ex. 1006, 3. The above-quoted disclosure indicates that the system permits five different data processing devices to access the same digital copy, including an iPod, iPhone, Apple TV, and a Mac computer. Because Frakes specifically refers to purchases from an iTunes® Store and an iTunes® account (Ex. 1006, 3), and because Ameerally discloses redeeming music from the iTunes Music Store® (Ex. 1003 ¶ 7), we are satisfied that Frakes' feature as relied on by Petitioner may be implemented in the method and system of Ameerally.

For the foregoing reasons, we are sufficiently persuaded that the preamble of claims 1, 12, and 15 is met by the combined teachings of Ameerally and Frakes.

Claim 1 recites: "receiving an encrypted digital media access branding request from at least one communications console of the plurality of data processing devices, the branding request being a read or write request of meta data of the encrypted digital media, the request comprising a membership verification token provided by a first user, corresponding to the encrypted digital media." Ex. 1001, 14:39–45. Claim 12 recites the same operation, but performed by a first receipt module. *Id.* at 16:3–10. Claim 15 recites a computer program product performing the same operation. *Id.* at 16:53–69.

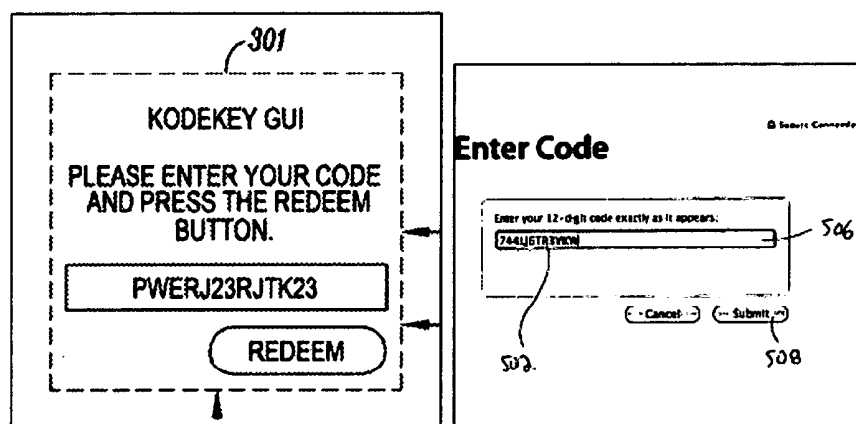
Pertinent testimony of Mr. Cherukuri is reproduced below:

116. Also, Ameerally discloses that the unique promotional codes can be received by the iTunes servers (specifically digital media purchasing system) from a plurality of consumers using their client devices via a data network. [See, *e.g.*, Ameerally at 0004 and 0009.] Referring to the "receiving an encrypted digital media access branding request" clause in claim 1 of the '555 Patent, the claimed communications console

corresponds to Ameerally's media player 108 on the client device 104.

117. The claimed "encrypted digital media access branding request" is nothing but a request to read metadata of the encrypted digital media – that is, "the branding request being a read or write request of meta data."

118. This receiving of an access request is disclosed in each of Ameerally, Taylor, and Frakes, when a user enters and submits a request that includes a unique code to the iTunes® media server. For example, consider the illustration of code entry in the '555 Patent's FIG. 3 (on left) and Ameerally's FIG. 5 (on right):



119. Submission of the request including the code in Ameerally, Taylor, and Frakes causes the iTunes® media server to read metadata of encrypted digital media, e.g. titles or other identification of songs or movies.

120. The "promotional codes" described in Ameerally and Taylor and the "serial number" described in Frakes identical to the claimed "membership verification token." In each, these codes are described as unique and "corresponding to the encrypted digital media."

Ex. 1013 ¶¶ 116–120.

Based on the above-noted testimony of Mr. Cherukuri, we are sufficiently persuaded that Ameerally's disclosed system and method performs the step or operation of "receiving an encrypted digital media access branding request from at least one communications console of the plurality of data processing devices, the branding request being a read or write request of meta data of the encrypted digital media, the request comprising a membership token provided by a first user, corresponding to the encrypted digital media." Specifically, Ameerally's promotional code serves as a branding request to media commerce server 102 (Ex. 1003, Fig. 1) that triggers a reading of the meta data stored in promotional database 116, and corresponding to the encrypted digital media being promoted. *Id.* ¶ 29. The promotional code constitutes the claimed "membership verification token" provided by a first user.

Frakes also discloses the entry of such a branding request from at least one communications console of the plurality of data processing devices. In that regard, Frakes describes: "The DVD package comes with an insert listing a unique serial number to unlock the Digital copy. Type the number into the Enter Code field in iTunes and click on Redeem." Ex. 1006, 3. The serial number of Frakes constitutes the branding request and is the membership verification token corresponding to the encrypted digital media being redeemed. Accordingly, we are also sufficiently persuaded that Frakes discloses performing the step or operation of "receiving an encrypted digital media access branding request from at least one communications console of the plurality of data processing devices, the branding request being a read or write request of meta data of the encrypted digital media, the request comprising a membership token provided by a first user,



corresponding to the encrypted digital media.” A combination of Ameerrally and Frakes also accounts for this limitation. The teachings of Ameerrally and Frakes are combinable because the teachings of both are described as being for iTunes®.

Similarly, the corresponding limitation from claim 15 is sufficiently met by each of Ameerrally and Frakes, and by the combined teachings of Ameerrally and Frakes, because it is evident that in both Ameerrally and Frakes the operation at issue is performed by a computer. Claim 12, on the other hand, requires the operation to be performed by a “first receipt module.” Petitioner has not sufficiently accounted for this “first receipt module,” as will be explained below in a separate discussion of claim 12.

Claim 1 recites: “authenticating the membership verification token, the authentication being performed in connection with a token database.” Ex. 1001, 14:46–48. Claim 12 recites the same operation, but performed by an authentication module. *Id.* at 16:12–15. Claim 15 recites a computer program product performing the same operation. *Id.* at 16:60–62.

Pertinent testimony of Mr. Cherukuri is reproduced below:

Referring to the “authenticating the membership verification token” clause in claim 1 of the ’555 Patent, Ameerrally discloses using “a token database” to authenticate and confirm the promotional code submitted by a user. This is the authentication disclosed in the ’555 Patent. The ’555 Patent discloses that the Kodekey is authenticated using a token database. [See, *e.g.*, ’555 Patent at 5:57–58, 6:37–39, 8:19–21 and 9:20–21.] Ameerrally further describes that the database confirms that the submitted code has not been used previously, and that there may be other “eligibility characteristics associated with the unique promotional codes. For example, some promotional codes may be eligible for use only by residents of a particular country or of particular countries. Other eligibility

characteristics may include, for example, dates of validity.” (Ameerally [0040]).

Ex. 1013 ¶ 124. Ameerally further describes: “In addition, once a unique promotional code is ‘used,’ the eligibility characteristics for the used unique promotional code are modified such that the used unique promotional code cannot be used again.” Ex. 1003 ¶ 40.

Petitioner further argues that Frakes “implicitly discloses authenticating the submitted serial number with some type of database,” because after the serial number is submitted to the iTunes® system, a confirmation screen would appear to let the user know if the attempt to unlock the digital copy was successful. Pet. 37. The argument is supported by the testimony of Mr. Cherukuri. Ex. 1013 ¶ 125. We understand “implicitly discloses” to mean that that is what one with ordinary skill in the art would have understood as being disclosed, even though there is no express disclosure of the same. Petitioner further notes that Frakes also illustrates code rejection, by a message that indicates: “[t]his code has already been used. Each code may only be used once.” Pet. 37 (citing Ex. 1006, 4). The assertion is supported by the testimony of Mr. Cherukuri. Ex. 1013 ¶ 125.

For the foregoing reasons, we are sufficiently persuaded that each of Ameerally and Frakes, and also the combined teachings of Ameerally and Frakes, discloses “authenticating the membership verification token, the authentication being performed in connection with a token database.” The teachings of Ameerally and Frakes are combinable because the teachings of both are described as being for iTunes®.

Similarly, the corresponding limitation from claim 15 is sufficiently met by each of Ameerally and Frakes, and the combined teachings of

Ameerally and Frakes, because it is evident that in both Ameerally and Frakes the operation at issue is performed by a computer. Claim 12, on the other hand, requires the operation to be performed by an “authentication module.” Petitioner has not sufficiently accounted for this “authentication module” recitation, as will be explained below in a separate discussion of claim 12.

Claim 1 recites: “establishing a connection with the at least one communications console wherein the communications console is a combination of a graphic user interface (GUI) and an Application Programmable Interface (API) protocol, wherein the API is related to a verified web service, the verified web service capable of facilitating a two way data exchange to complete a verification process.” Ex. 1001, 14:49–55. Claim 12 recites the same operation but performed by a connection module. *Id.* at 16:16–23. Claim 15 recites a computer program product performing the same operation. *Id.* at 16:63–17:2.

Ameerally’s digital media player 108 is an application program, e.g., specific software application or web browser program, that resides on client 104 which is a computing device. Ex. 1003 ¶ 19. Petitioner asserts that iTunes® media player interface is a communications console that is a combination of a graphic user interface (GUI) and an Application Programmable Interface (API). Pet. 39. The assertion is supported by the testimony of Mr. Cherukuri. Ex. 1013 ¶¶ 126–128. Mr. Cherukuri testifies:

The GUI is illustrated, among other places, in Ameerally’s FIGS. 5–7, and the API is the API used by the iTunes media player to communicate with the iTunes system. Use of an API such as the iTunes store search API to communicate with the iTunes store (i.e., the server) is well known to one with ordinary skill in the art at the time of the invention. [See, e.g., Linking to the iTunes

Music Store, version 1.2 dated December 07, 2009 available at <http://images.apple.com/itunesaffiliates/US/2009/Document/LinktoiTune.pdf>.]

*Id.* ¶ 126. Mr. Cherukuri further testifies:

The iTunes® media player interface is connected to and communicates with “two[way] data exchange” with the iTunes® media store. This is evident from the fact that all processing and communications is conducted through the iTunes® media player interface, which provide requests to and receive content from the iTunes® system.

*Id.* ¶ 127.

The two-way data exchange to complete the verification process includes prompting the user to log into their account, and receiving their log in credentials (Ameerally [0041]).

*Id.* ¶ 128.

The iTunes® system is “a verified web service,” as users must be registered and authenticated to log into respective accounts. The user’s login includes (in part) their e-mail address, which is the claimed “electronic identification reference,” since the user’s e-mail address identifies their account.

*Id.* ¶ 129. As noted above in our discussion of Ameerally, after a particular digital content is identified, but prior to providing access to the digital content, Ameerally’s digital media purchasing system, which in one embodiment is iTunes®, checks to see if the user is logged in, and prompts the user to log into the user’s account or to create an account if one does not already exist. Ex. 1003 ¶ 41.

For the foregoing reasons, we are sufficiently persuaded that Ameerally discloses “establishing a connection with the at least one communications console wherein the communications console is a combination of a graphic user interface (GUI) and an Application Programmable Interface (API) protocol, wherein the API is related to a

verified web service, the verified web service capable of facilitating a two way data exchange to complete a verification process.”<sup>8</sup>

Similarly, the corresponding limitation from claim 15 is sufficiently met by Ameerally, because it is evident that, in Ameerally, the operation at issue is performed by a computer. Claim 12, on the other hand, requires the operation to be performed by a “connection module.” Petitioner has not sufficiently accounted for this “connection module” recitation, as will be explained below in a separate discussion of claim 12.

Claim 1 recites: “requesting at least one electronic identification reference from the at least one communications console wherein the electronic identification reference comprises a verified web service account identifier of the first user,” and “receiving the at least one electronic identification reference from the at least one communications console.” Ex. 1001, 14:56–61. Claim 12 recites the same two operations, but performed by a request module and a second receipt module, respectively. *Id.* at 16:24–31. Claim 15 recites a computer program product performing the same two operations. *Id.* at 17:3–8.

To meet these two limitations, Petitioner relies on essentially the same evidence it relied on in connection with its attempt, already discussed above, to meet claim 1’s recitation of “establishing a connection with the at least one communications console wherein the communications console is a

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<sup>8</sup> Although Ameerally alone teaches the limitation at issue, Zweig adds to Ameerally’s disclosure by stating: “[U]sers accessing the iTunes Music Store may do so with the use of iTunes client software residing in their user devices.” Ex. 1004 ¶ 51. Similarly, Frakes adds to Ameerally’s disclosure by stating: “if you aren’t currently logged in to your iTunes Store account, you’ll be prompted to do so.” Ex. 1006, 3.

combination of a graphic user interface (GUI) and an Application Programmable Interface (API) protocol, wherein the API is related to a verified web service, the verified web service capable of facilitating a two way data exchange to complete a verification process.” Pet, 37–40.

Petitioner explains, specifically:

In particular, each of *Ameerally*, and *Frakes* describes that the user must be logged into and authenticated with the iTunes® system through the iTunes® media player interface on the user’s computer device. (Cherukuri Decl. ¶¶ 131–138). Gautier (incorporated in *Ameerally*) adds that even if the media player indicates that a user is already logged in, the media server may still request credentials from the user for identification verification. (Id.). Lastly, the user’s login information (i.e., “electronic identification reference”) is received by the iTunes® system through the iTunes media player interface (i.e., “communications consoled”). (Id.).

Pet. 40. Petitioner relies on the login procedure in each of *Ameerally* and *Frakes*, as noted above, to meet the two limitations of “requesting at least one electronic identification reference from the at least one communications console wherein the electronic identification reference comprises a verified web service account identifier of the first user,” and “receiving the at least one electronic identification reference from the at least one communications console.” The iTunes Music Store® is the verified web service and the user’s email address used to log into the iTunes® system to access content is regarded as the electronic identification reference. First, the user is prompted to log into the iTunes® system, and then the user enters its email address and password.

Pertinent testimony of Mr. Cherukuri is reproduced below:

Referring to the “requesting at least one electronic identification reference” clause of claim 1 of the ’555 Patent, iTunes Music Store determines if user logged in through iTunes application; if not, prompting user to log into account or create an account. (Ameerally [0041]).

Ex. 1013 ¶ 134.

Gautier (incorporated in Ameerally) adds that even if the media player indicates that a user is already logged in, the media server may still request credentials from the user for identification verification. (Gautier [0065]).

*Id.* ¶ 136.

The log in information included a user’s e-mail address, which identifies their iTunes account. And as noted above, iTunes is a verified web service.

*Id.* ¶ 137.

Referring to the “receiving the at least one electronic identification reference” clause in claim 1 of the ’555 Patent, in each of Ameerally, Taylor, and Frakes, the user’s e-mail address (i.e., “electronic identification reference”) which identifies their account is received by the iTunes® system through the iTunes® media player interface (i.e., “communications console”).

*Id.* ¶ 138.

Notwithstanding the arguments of Patent Owner, which we discuss below, we find Petitioner’s arguments sufficiently persuasive, that each of Ameerally and Frakes discloses the two limitations of “requesting at least one electronic identification reference from the at least one communications console wherein the electronic identification reference comprises a verified web service account identifier of the first user,” and “retrieving the at least one electronic identification reference from the at least one communications console.”

Patent Owner argues that each independent claim requires six separate steps or operations and, thus, Petitioner may not use the same operation in the prior art to meet a plurality of the required steps or operations. Prelim. Resp. 23–24. For instance, Patent Owner argues that Petitioner has used the operation of establishing a connection to also be the operations of requesting an identification reference and receiving an identification reference. *Id.* at 24. Patent Owner states: “In other words, assuming Ameerally establishes the connection with the verified web service when iTunes prompts the user to input her Apple ID, Ameerally does not use that connection to request and receive the identification reference, as disclosed in the ’555 patent.” *Id.* at 25. Patent Owner further argues:

[Petitioner] admits this by lumping together the steps of “establishing a connection,” “requesting the identification reference,” and “receiving the identification reference” and pointing to the same prior art teachings to meet these different elements. (Petition at 37–40.) Simply put, if the user’s Apple ID is used in Ameerally to establish the connection, that Apple ID cannot then also be the identification reference, as [Petitioner] would have it.

*Id.* For reasons discussed below, Patent Owner’s arguments are misplaced and unpersuasive.

Claims 1, 12, and 15 do not require a certain sequence between the step or operation of “establishing a connection,” as referred to by Patent Owner above, and the steps or operations of “requesting the identification reference” and “receiving the identification reference,” also referred to by Patent Owner above. Additionally, under the rule of broadest reasonable interpretation, nothing precludes the step or operation of “establishing a connection” from also constituting the steps or operations of “requesting the identification reference” and “receiving the identification reference.”



Although the '555 patent discloses an embodiment, in which the connection with a verified web service is first established, and then that connection, with the verified web service, is used to request and receive an electronic identification reference, the claims simply are not so narrow. *See SuperGuide Corp. v. DirecTV Enterprises, Inc.*, 358 F.3d 870, 875 (Fed. Cir. 2004) (“Though understanding the claim language may be aided by the explanations contained in the written description, it is important not to import into a claim limitations that are not a part of the claim. For example, a particular embodiment appearing in the written description may not be read into a claim when the claim language is broader than the embodiment.”).

Patent Owner further notes that the applied prior art references do not mention “API.” Prelim. Resp. 25. Patent Owner argues that to the extent Mr. Cherukuri’s testimony (Ex. 1013 ¶ 126) accounts for the requirement of an API, there is improper incorporation by reference of the argument from Mr. Cherukuri’s Declaration into the Petition. Prelim. Resp. 26. We are unpersuaded that there is improper incorporation by reference, in light of Petitioner’s expressly stated argument that: “The iTunes® media player interface on a user’s computer is a ‘communications console’ that ‘is a combination of a graphic user interface (GUI) and an Application Programmable Interface (API).’ (Cherukuri Decl. ¶¶ 126–128).” Pet. 39. There is sufficiently specific introduction on page 39 of the Petition that leads to the pertinent testimony of Mr. Cherukuri. Note also that Ameerally describes its digital media player 108 as “an application program, e.g., specific software application, or web browser program.” Ex. 1003 ¶ 19.

For the foregoing reasons, we are sufficiently persuaded that each of Ameerally and Frakes discloses “requesting at least one electronic identification reference from the at least one communications console wherein the electronic identification reference comprises a verified web service account identifier of the first user,” and “receiving the at least one electronic identification reference from the at least one communications console.”

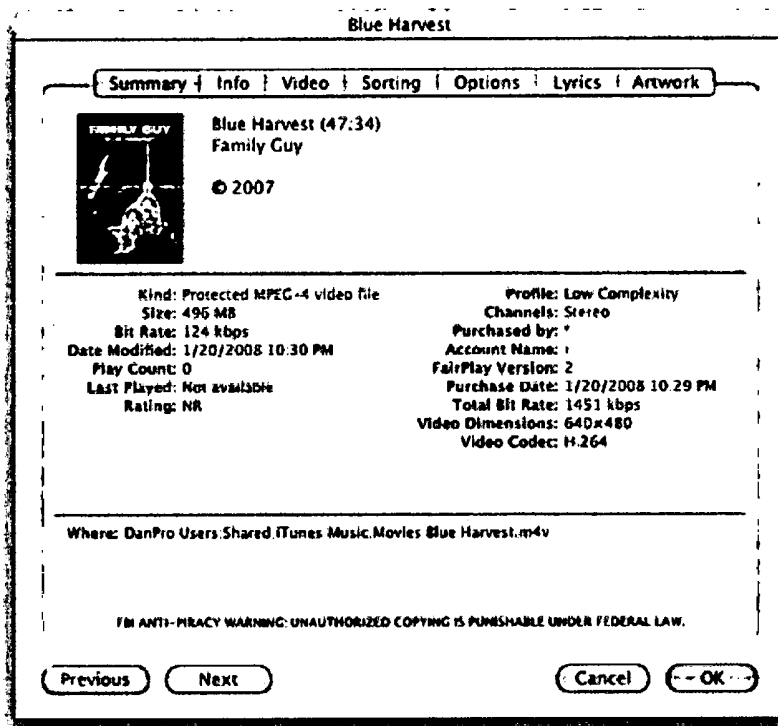
Similarly, the corresponding limitations from claim 15 are sufficiently met by both Ameerally and Frakes, because it is evident that in both Ameerally and Frakes the operations at issue are performed by a computer. Claim 12, on the other hand, requires the two operations to be performed by a “request module” and a “second receipt module,” respectively. Petitioner has not sufficiently accounted for the “request module” and the “second receipt module,” as will be explained below in a separate discussion of claim 12.

Claim 1 recites: “branding metadata of the encrypted digital media by writing the membership verification token and the electronic identification reference into the metadata.” Ex. 1001, 14:62–64. Claim 12 recites the same operation, but performed by a first receipt module. *Id.* at 16:32–35. Claim 15 recites a computer program product performing the same operation. *Id.* at 17:9–11. For this limitation, the antecedent basis for “the electronic identification reference,” that is required to be written into the metadata of the encrypted digital media, is that “electronic identification reference” that was requested and received according to the two other limitations of the corresponding claim, and not just an electronic identification reference. Petitioner, however, makes no connection

whatsoever between this “electronic identification reference” of the branding operation, and the “electronic identification reference” of the already recited requesting and receiving operations.

Petitioner regards the user’s login information, as received by the iTunes® system through the iTunes® media player interface, as the “electronic identification reference.” Pet. 40. Mr. Cherukuri testifies that that login information in the iTunes® system is the user’s e-mail address, and that the user’s e-mail address constitutes the “electronic identification reference.” Ex. 1013 ¶¶ 137, 138. Rather than tracing what happens to this login information, i.e., e-mail address, after it is received, to see if it is then written into the metadata of the encrypted digital content, Petitioner starts anew with other information that it believes is an “electronic identification reference” that is written into the metadata of the encrypted digital content.

Petitioner identifies (Pet. 41) a Figure from Frakes, reproduced below:



Ex. 1006, 5.

The Figure illustrates detailed information kept by Frakes' iTunes® system for a digital movie file. *Id.* at 4. Petitioner asserts: “*Frakes* illustrates ‘Purchased By’ and ‘Account Name’ in the metadata of the iTunes® media file (grayed out in image for privacy, but field illustrated), such that the claimed ‘electronic identification reference’ was necessarily written into the metadata as saved by iTunes®. (Cherukuri Decl. ¶ 139).” Pet. 41–42. However, neither Petitioner nor Mr. Cherukuri explains why the “Purchased By” or “Account Name” field is necessarily the login information, e.g., the user’s e-mail address, that the iTunes® system had requested and received, as had been explained by Petitioner and Mr. Cherukuri above when accounting for requesting an electronic identification reference and receiving the electronic identification reference. It is not explained why the fields cannot be another identification reference. On this record, the Purchased By and Account Name fields may well be an identification reference that is other than the user’s email address.

Petitioner, referring to Zweig, further argues:

In Zweig, when Alice shares media with Bob, in order for the iTunes® store to identify Alice’s decrypt key to provide access to Bob, the content store must identify that the shared media file had been encrypted for Alice. (Cherukuri Decl. ¶¶ 140–145) (EX1004 [0074]) Having identified Alice from the metadata, the iTunes® system regenerates the decrypt key for that particular file based on Alice’s decrypt key and the unique header. (*Id.*).

Pet. 42. The argument establishes that, in the metadata for the digital content purchased or downloaded by a user, there is an identifier, an electronic identification reference, that identifies that user. However, neither Petitioner nor Mr. Cherukuri explains why that identifier in the metadata is

necessarily the login information, i.e., the user's e-mail address, that the iTunes® system had requested and received, as had been explained by Petitioner and Mr. Cherukuri above when accounting for requesting an electronic identification reference and receiving the electronic identification reference. It is not explained why the fields cannot be another identification reference other than the user's e-mail address.

As applied by Petitioner, none of the other prior art references, on this record, makes up for this deficiency with regard to the step or operation of “branding metadata of the encrypted digital media by writing the membership verification token and the electronic identification reference into the metadata” recited in claims 1, 12, and 15.

Claim 12 has its own separate issues relating to its recitation of various “modules” that perform the operations discussed above. Claim 12 is an apparatus claim, and each recited “module” represents a required structural element that performs the operation expressly recited for that “module.” It is not enough for the prior art to meet the recited operation. The structural requirements of each module have to be satisfied as well.

On this record, a module does not identify any specific structure. Petitioner's expert, Mr. Cherukuri, has not testified that, to one with ordinary skill in the art, “module” denotes a specific known structure or class of structures. Moreover, our reviewing court, the Court of Appeals for the Federal Circuit, has expressly noted that “[m]odule’ is a well-known nonce word that can operate as a substitute for ‘means’ in the context of § 112, para 6.” *Williamson v. Citrix Online, LLC*, 792 F.3d 1339, 1350 (Fed. Cir. 2015) (en banc). The Court stated:

Generic terms such as “mechanism,” “element,” “device,” and other nonce words that reflect nothing more than verbal constructs may be used in a claim in a manner that is tantamount to using the word “means” because they “typically do not connote sufficiently definite structure” and therefore may invoke § 112, para. 6.

*Id.* Paragraph 6, 35 U.S.C. § 112, provides: “An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.”<sup>9</sup>

Petitioner’s argument on page 60 of the Petition, that “[t]he recitation of modules is not limiting, being used solely to distinguish an entity or an action from others,” further indicates that “module” is used merely as a place holder or black box that does not itself set forth any structure. Per 37 C.F.R. § 42.104(b)(3), a petition must identify the specific portions of the specification that describe the structure, material, or acts corresponding to each function of a means-plus-function claim limitation. That identification is not present in the Petition. Thus, even under Petitioner’s assertion, it follows that Petitioner has not explained how any prior art teaching accounts for the structure of each of the “module” recitations in the claim.

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<sup>9</sup> Paragraphs 1 through 6 of 35 U.S.C. § 112 were renamed as paragraphs (a) through (f) when § 4(c) of the Leahy-Smith America Invents Act, Pub. L. No. 112–29, 125 Stat. 284, 329 (2011) (“AIA”) took effect on September 16, 2012. Because the patent application resulting in the ’555 patent was filed before the effective date of the AIA, we refer to the pre-AIA version of § 112.

Petitioner also argues:

While the iTunes® references do not explicitly describe “modules,” referring [to] FIG. 1 of Ameerally, the overall functionality provided by the iTunes® system is distributed across multiple devices, with a media commerce server 102 working with a promotional database 116, a media store 110 and/or a separate digital media storage server (EX1003 [0023]), and users’ client devices 104, to provide access rights authorization to the media players 108 on the client devices 104. (Cherukuri Decl. ¶¶ 185–186). Configuring the different operations as software and/or hardware “modules” implies nothing more than a conventional and well-known networking architecture. (Id.).

Pet. 57. As quoted above, Petitioner identifies a multitude of structural elements in Ameerally as collectively performing the overall functionalities provided by the iTunes® system. That is inadequate to explain what specific structure is relied on to perform the specific operation at issue for each recited module, and why that specific structure is found in the prior art to perform the same corresponding function.

It is also not understood what Petitioner means in referring to configuring the operations as software and/or hardware modules. An operation is an activity or step that is performed, and a module, supposedly, is structure that performs the operation. The two are different in kind and one cannot be configured as the other. Even assuming what Petitioner intended to assert is just that a “module” is a conventional and well-known structure, the assertion is insufficient to establish what that structure is, that it was conventional for it to perform the particular operation at issue, or how it is met by the applied prior art.

For the foregoing reasons, Petitioner has not shown a reasonable likelihood that it would prevail in establishing unpatentability of claims 1,

12, and 15 as unpatentable over Ameerally and Zweig, with further support by Frakes, Gautier, Anderson, Taylor, Christman, and iTunes® Terms.

b. Claims 2–11, 13, 14, and 16–25

Claims 2–11 each depend, directly or indirectly, from claim 1. Each of claims 13, 14, 24, and 25 depends from claim 12. Claims 16–23 each depend, directly or indirectly, from claim 15. The same deficiencies of independent claims 1, 12, and 15 carry through to the corresponding claims that depend from them, respectively. Accordingly, Petitioner has not shown a reasonable likelihood that it would prevail in establishing unpatentability of claims 2–11, 13, 14, and 16–25 as unpatentable over Ameerally and Zweig, with further support by Frakes, Gautier, Anderson, Taylor, Christman, and iTunes® Terms.

C. Alleged Unpatentability of Claim 26 as Obvious over Ameerally, Zweig, Kondrk, and Suitts, with further support by Frakes, Gautier, Anderson, Taylor, Christman, and iTunes® Terms

Claim 26 depends from claim 12. Claim 26 adds, to independent claim 12, an authoring system that comprises a plurality of modules, i.e., a selection module, a password module, a customization module, a database module, and an encryption module. Ex. 1001, 18:38–52. The explanations and discussions of Petitioner, submitted to account for the further limitations of claim 26 relative to base claim 12 and including reliance on the teachings of Kondrk, Suitts, and Christman (Pet. 60–64), do not cure the deficiencies discussed above with regard to base claim 12. Also, the deficiencies of base claim 12 relating to the meaning and identification of various “modules” are further applicable to the additional modules further recited in claim 26.



Petitioner has not shown a reasonable likelihood that it would prevail in establishing unpatentability of claim 26 as unpatentable over Ameerally, Zweig, Kondrk, and Suitts, with further support by Frakes, Gautier, Anderson, Taylor, Christman, and iTunes® Terms.

### III. CONCLUSION

Petitioner has not shown a reasonable likelihood that it would prevail in establishing unpatentability of any of claims 1–25 of the '555 patent as unpatentable over Ameerally and Zweig, with further support by Frakes, Gautier, Anderson, Taylor, Christman, and iTunes® Terms.

Petitioner has not shown a reasonable likelihood that it would prevail in establishing unpatentability of claim 26 of the '555 patent as unpatentable over Ameerally, Zweig, Kondrk, and Suitts, with further support by Frakes, Gautier, Anderson, Taylor, Christman, and iTunes® Terms.

### IV. ORDER

It is

ORDERED that the Petition is *denied*, and no trial is instituted with respect to any claim of U.S. Patent No. 8,402,555 B2.

IPR2017-00788  
Patent 8,402,555 B2

**COUNSEL FOR PETITIONER:**

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<b>TO:</b> <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Northern District of Illinois on the following  Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 16-cv-10213	DATE FILED 10/31/2016	U.S. DISTRICT COURT Northern District of Illinois
PLAINTIFF William Grecia		DEFENDANT Cablevision Systems Corporation
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 US 8,533,860 B1	9/10/2013	William Grecia
2 US 8,402,555 B2	3/19/2013	William Grecia
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4		
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
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CLERK Thomas G. Bruton	(BY) DEPUTY CLERK Michelle Copeland	DATE 11/1/2016
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Copy 1—Upon initiation of action, mail this copy to Director    Copy 3—Upon termination of action, mail this copy to Director  
 Copy 2—Upon filing document adding patent(s), mail this copy to Director    Copy 4—Case file copy

**UNITED STATES DISTRICT COURT  
FOR THE Northern District of Illinois – CM/ECF LIVE, Ver 6.1.1  
Eastern Division**

William Grecia

Plaintiff,

v.

Case No.: 1:16-cv-10213  
Honorable Harry D. Leinenweber

Cablevision Systems Corporation

Defendant.

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**NOTIFICATION OF DOCKET ENTRY**

This docket entry was made by the Clerk on Thursday, January 26, 2017:

MINUTE entry before the Honorable Harry D. Leinenweber: The Joint Motion to transfer case to the Southern District of New York and vacating all pending deadlines and hearing dates in this case [18] is granted. Civil case terminated. Mailed notice(wp, )

**ATTENTION:** This notice is being sent pursuant to Rule 77(d) of the Federal Rules of Civil Procedure or Rule 49(c) of the Federal Rules of Criminal Procedure. It was generated by CM/ECF, the automated docketing system used to maintain the civil and criminal dockets of this District. If a minute order or other document is enclosed, please refer to it for additional information.

For scheduled events, motion practices, recent opinions and other information, visit our web site at [www.ilnd.uscourts.gov](http://www.ilnd.uscourts.gov).

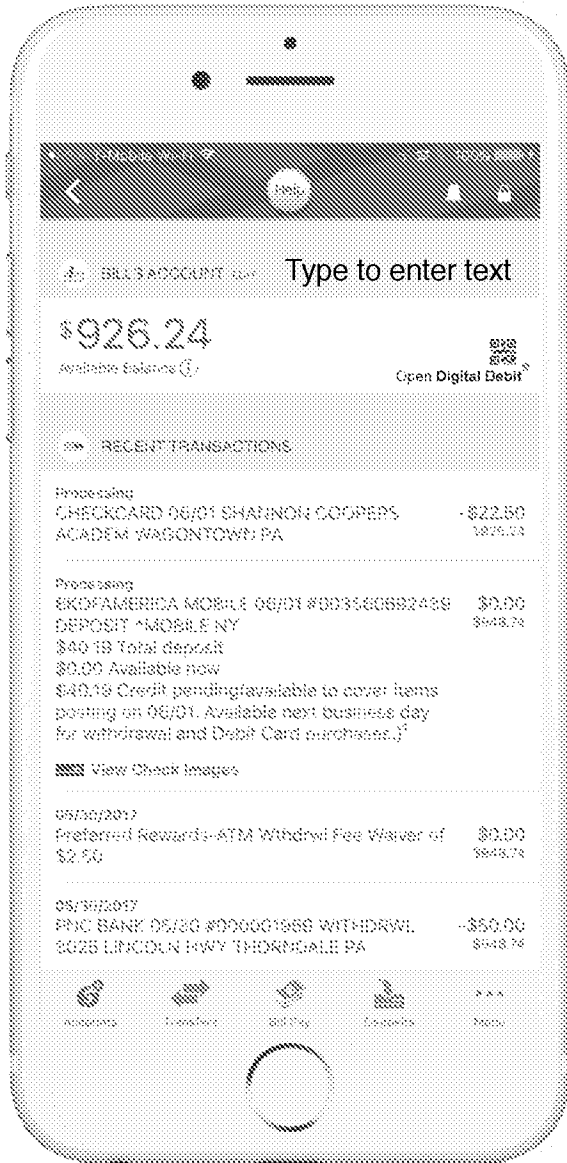
A TRUE COPY-ATTEST  
THOMAS G. BRUTON, CLERK

By: s/ MICHELLE COPELAND  
DEPUTY CLERK  
U.S. DISTRICT COURT, NORTHERN  
DISTRICT OF ILLINOIS

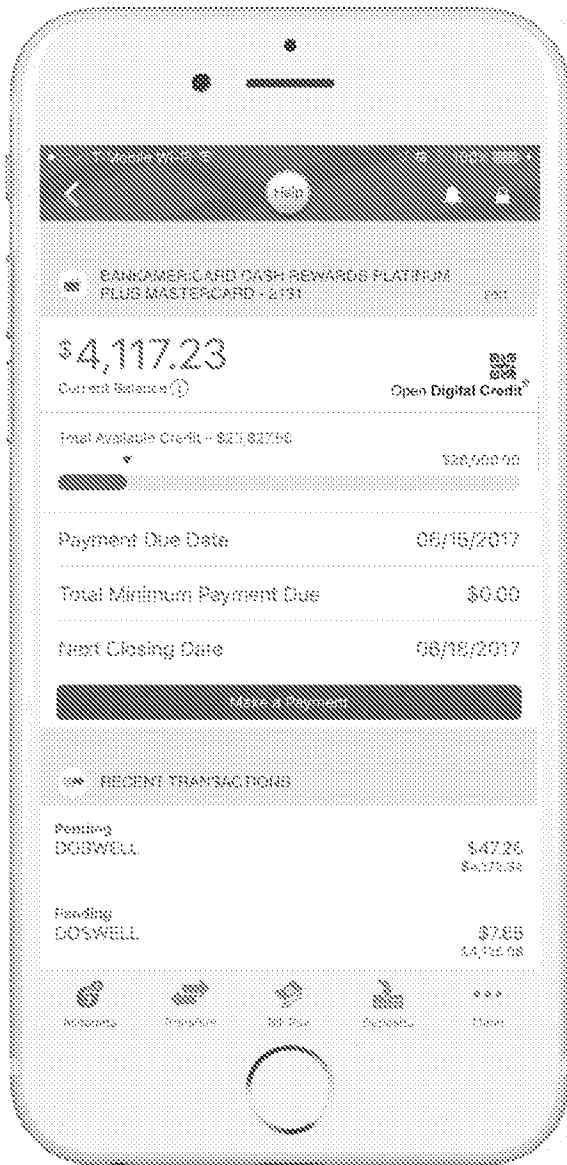
March 7, 2017

EWS-002185

(Page 1 of 2) Inventor and current owner of this letters patent hereby deposit for historical record —one use case— out of many possible use cases by which the Inventor and current patent owner is making, using, and selling the invention with concurrent venture ownership interests in the product, patent, and trademarks comprising all or a portion of the illustrations hereto. Signed this day June 2, 2017 /william grecia/



(Page 2 of 2) Inventor and current owner of this letters patent hereby deposit for historical record —one use case— out of many possible use cases by which the Inventor and current patent owner is making, using, and selling the invention with concurrent venture ownership interests in the product, patent, and trademarks comprising all or a portion of the illustrations hereto. Signed this day June 2, 2017 /william grecia/



## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	29376075
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	02-JUN-2017
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	08:25:27
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	DDG_WG_IP_notice.pdf	4978386  <small>029545a6c559d14f1df57c620bae1e2a060b5699</small>	no	2

### Warnings:

EWS-002188

<b>Information:</b>	
<b>Total Files Size (in bytes):</b>	4978386
<p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	



AO 120 (Rev. 08/10)

<b>TO: Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Southern District of New York on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 17cv1784	DATE FILED 10/31/2016	U.S. DISTRICT COURT Southern District of New York
PLAINTIFF William Grecia		DEFENDANT Cablevision Systems Corporation
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 US 8,533,860 B1	9/10/2013	William Grecia
2 US 8,402,555 B2	3/19/2013	William Grecia
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
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CLERK Ruby J. Krajick	(BY) DEPUTY CLERK s/ C. Attanasio	DATE 4/6/2017
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director  
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

EWS-002190

USDC SDNY  
DOCUMENT  
ELECTRONICALLY FILED  
DOC #:  
DATE FILED: April 6, 2017

UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF NEW YORK

-----X  
:  
WILLIAM GRECIA, :  
:  
:  
Plaintiff, :  
:  
:  
v. :  
:  
CABLEVISION SYSTEMS :  
CORPORATION, :  
:  
Defendant. :  
-----X

17 Civ. 1784 (KPF)

ORDER  
OF DISCONTINUANCE

KATHERINE POLK FAILLA, District Judge:

By letter dated April 5, 2017, the parties reported to the Court that they have reached a settlement in this case. Accordingly, it is hereby:

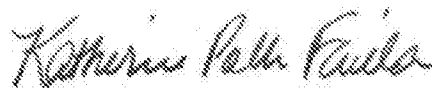
ORDERED that this action be conditionally discontinued without prejudice and without costs; provided, however, that within thirty (30) days of the date of this Order, the parties may submit to the Court their own Stipulation of Settlement and Dismissal for the Court to So Order. Otherwise, within such time Plaintiff may apply by letter for restoration of the action to the active calendar of this Court in the event that the settlement is not consummated. Upon such application for reinstatement, the parties shall continue to be subject to the Court’s jurisdiction, the Court shall promptly reinstate the action to its active docket, and the parties shall be directed to appear before the Court, without the necessity of additional process, on a date within ten (10) days of the application, to schedule remaining pretrial

proceedings and/or dispositive motions, as appropriate. This Order shall be deemed a final discontinuance of the action with prejudice in the event that Plaintiff has not requested restoration of the case to the active calendar within such 30-day period.

The Clerk of Court is directed to terminate all pending motions, adjourn all remaining dates, and close this case.

SO ORDERED.

Dated: April 6, 2017  
New York, New York



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KATHERINE POLK FAILLA  
United States District Judge

AO 120 (Rev. 08/10)

<b>TO: Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court U.S. District Courts/Northern District on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 1:16-cv-10222	DATE FILED 10/31/2016	U.S. DISTRICT COURT U.S. District Courts/Northern District
PLAINTIFF William Grecia		DEFENDANT STARZ Entertainment, LLC
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 US 8,533,860 B1	9/10/2013	William Grecia
2 US 8,402,555 B2	3/19/2013	William Grecia
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
--------------------

CLERK Thomas G. Bruton	(BY) DEPUTY CLERK T. Torres	DATE 11/1/2016
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director  
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

EWS-002193

AO 120 (Rev. 08/10)

<b>TO: Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Northern District of Illinois on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 16-cv-10213	DATE FILED 10/31/2016	U.S. DISTRICT COURT Northern District of Illinois
PLAINTIFF William Grecia		DEFENDANT Cablevision Systems Corporation
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 US 8,533,860 B1	9/10/2013	William Grecia
2 US 8,402,555 B2	3/19/2013	William Grecia
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
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CLERK Thomas G. Bruton	(BY) DEPUTY CLERK Michelle Copeland	DATE 11/1/2016
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director  
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

EWS-002194

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY,  
INC.,  
Petitioner,

v.

WILLIAM GRECIA,  
Patent Owner.

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Case: IPR2017-00799  
Patent 8,402,555 B2

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Before JAMESON LEE, MICHAEL W. KIM, and  
MICHELLE N. WORMMEESTER, *Administrative Patent Judges*.

LEE, *Administrative Patent Judge*.

JUDGEMENT  
Joint Motion to Terminate  
*37 C.F.R. §§ 42.72, 42.74*

On April 4, 2017, we authorized American Express Travel Related Services Company, Inc. (“Petitioner”) and William Grecia (“Patent Owner”) to file a joint motion to terminate the above-identified proceeding. On April 10, 2017, Petitioner and Patent Owner filed a Joint Motion to terminate this *inter partes* review proceeding. Paper 6 (“Joint Motion” or “Joint Mot.”). Petitioner and Patent Owner also filed a copy of their settlement and license agreement covering, *inter alia*, Patent No. 8,402,555 B2, at issue in this *inter partes* review. Ex. 1017 (“Settlement Agreement”). The parties represent that the filed copy of the Settlement Agreement is a true copy. Joint Mot. 3.

Other than the Petition, no substantive papers have been filed. The Board has not yet decided the merits of any issue in this proceeding, and a decision on whether to institute review has not yet issued. Petitioner and Patent Owner represent that the related District Court litigation in the Southern District of New York has been dismissed with prejudice. Joint Mot. 3.<sup>1</sup> Petitioner and Patent Owner filed a copy of the District Court’s Order dismissing the action. Ex. 1016. Petitioner and Patent Owner further represent that they have settled their dispute with respect to the patent at

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<sup>1</sup> The Joint Motion cites “[t]he related District Court litigation between the Parties, No. 1:15-cv-09059-RJS (S.D.N.Y.)” Joint Mot. 3. The Order referenced in the Joint Motion, and submitted as Exhibit 1016, however, refers to *William Grecia v. American Express Co.*, No. 1:15-cv-9217 (RJS) (S.D.N.Y.). Ex 1016; *see also* Paper 5, 2 (citing “*Grecia v. MasterCard Incorporated*, Case No. 1:15-cv-9059 (S.D.N.Y.)” and “*Grecia v. American Express Company*, Case No. 1:15-cv-9217 (S.D.N.Y.)”). We regard the reference to “[t]he related District Court litigation between the Parties, No. 1:15-cv-09059-RJS (S.D.N.Y.)” in the Joint Motion as a reference to *William Grecia v. American Express Co.*, No. 1:15-cv-9217 (RJS) (S.D.N.Y.).

issue. Joint Mot. 2. Accordingly, we determine that it is appropriate to terminate this proceeding.

Petitioner and Patent Owner also filed a Joint Request to File Settlement Agreement as Business Confidential Information. Paper 7 (“Joint Request”). The parties requested that the Settlement Agreement be filed as business confidential information, and that the Settlement Agreement be kept separate from the file of the patent involved in the *inter partes* review and be made available only on a showing of good cause or to Federal Government agencies on a written request. *Id.*

“A party to a settlement may request that the settlement be treated as business confidential information and be kept separate from the files of an involved patent or application. The request must be filed with the settlement. If a timely request is filed, the settlement shall only be available: (1) To a Government agency on written request to the Board; or (2) To any other person upon written request to the Board to make the settlement agreement available, along with the fee specified in § 42.15(d) and on a showing of good cause.” 37 C.F.R. § 42.74(c). After reviewing the Settlement Agreement between Petitioner and Patent Owner, we find that the Settlement Agreement contains confidential business information regarding the terms of settlement. We determine that it is appropriate to treat the Settlement Agreement between Petitioner and Patent Owner as business confidential information pursuant to 37 C.F.R. § 42.74(c).

ORDER

It is

ORDERED that the Joint Motion to Terminate (Paper 6), as to both Petitioner and Patent Owner, is *granted*;



IPR2017-00799  
Patent 8,402,555 B2

FURTHER ORDERED that the Joint Request (Paper 7) to treat the settlement agreement (Exhibit 1017) as business confidential information under 37 C.F.R. § 42.74(c) is *granted*; and

FURTHER ORDERED that this proceeding is terminated with respect to both Petitioner and Patent Owner.

IPR2017-00799  
Patent 8,402,555 B2

PETITIONER:

David Tennant  
[dtennant@whitecase.com](mailto:dtennant@whitecase.com)

Shamita Etienne-Cummings  
[setienne@whitecase.com](mailto:setienne@whitecase.com)

PATENT OWNER:

Isaac Rabicoff  
[isaac@rabilaw.com](mailto:isaac@rabilaw.com)

AO 120 (Rev. 08/10)

<b>TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450</b>	<b>REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Northern District of Illinois on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 1:16-cv-10216	DATE FILED 11/1/2016	U.S. DISTRICT COURT Northern District of Illinois
PLAINTIFF William Grecia		DEFENDANT Fox Entertainment Group, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,533,860 B1	9/10/2013	William Grecia
2 8,402,555 B2	3/19/2013	William Grecia
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
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CLERK Thomas G. Bruton	(BY) DEPUTY CLERK Kerwin Posley	DATE 11/1/2016
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director  
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

EWS-002200

TO: **Mail Stop 8**  
**Director of the U.S. Patent & Trademark Office**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

**REPORT ON THE  
FILING OR DETERMINATION OF AN  
ACTION REGARDING A PATENT OR  
TRADEMARK**

In Compliance with 35 § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Northern District of California on the following:

Patents or  Trademarks

DOCKET NO:  
16-cv-06283-SK

DATE FILED:  
October 31, 2016

UNITED STATES DISTRICT COURT  
Phillip Burton Federal Building  
450 Golden Gate Avenue  
San Francisco, CA 94102

PLAINTIFF:  
Grecia

DEFENDANT:  
Adobe Systems Incorporated

PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1.US8,533,860 B1	Sept. 10, 2013	William Grecia
2.US8,402,555 B2	Mar. 19, 2013	William Grecia
3.		
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In the above-entitled case, the following patent(s) have been included.

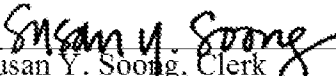
DATE INCLUDED INCLUDED BY:  
 Amendment  Answer  Cross Bill  Other Pleading

PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above-entitled case, the following decision has been rendered or judgment issued:

DECISION/JUDGEMENT:

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Susan Y. Soong, Clerk

  
(by) Deputy Clerk, Yumiko Saito

- Copy 1 – Upon initiation of action, mail this copy to Commissioner
- Copy 2 – Upon filing document adding patent(s) mail this copy to Commissioner
- Copy 3 – Upon termination of action, mail this copy to the Commissioner
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AO 120 (Rev. 08/10)

<b>TO: Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Northern District of Illinois on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 16cv10211	DATE FILED 10/31/2016	U.S. DISTRICT COURT Northern District of Illinois
PLAINTIFF William Grecia		DEFENDANT Big Ten Network Services, LLC
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8533860		
2 8402555		
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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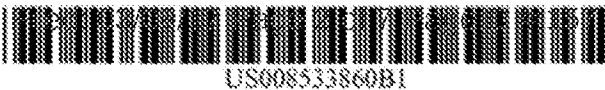
In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
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CLERK Thomas G. Bruton	(BY) DEPUTY CLERK Brook Gudausky	DATE 3/9/2017
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 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

EWS-002202



US008533860B1

(12) **United States Patent**  
Grecia

(10) **Patent No.:** US 8,533,860 B1  
(45) **Date of Patent:** \*Sep. 10, 2013

(54) **PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM—PDMAS PART II**

(71) Applicant: William Grecia, Brooklyn, NY (US)

(72) Inventor: William Grecia, Brooklyn, NY (US)

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: 13/740,086

(22) Filed: Jan. 11, 2013

(51) Int. Cl. H04L 29/06 (2006.01)

(52) U.S. Cl. USPC 726/29, 725/28, 713/185, 705/51

(58) Field of Classification Search None See application file for complete search history.

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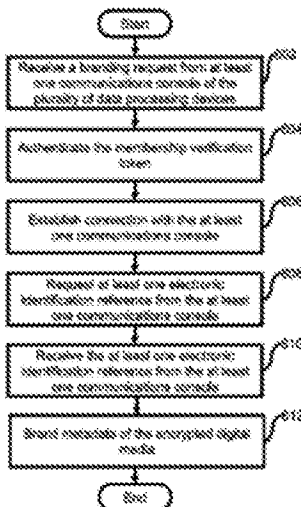
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Primary Examiner — Jung Kim  
Assistant Examiner — Tri Tran

(57) ABSTRACT

The invention is an apparatus that facilitates access to a data source to accept verification and authentication from an enabler using at least one token and at least one reference. The at least one reference could be a device serial number, a networking MAC address, or a membership ID reference from a web service. Access to the data source is also managed with a plurality of secondary enablers.

30 Claims, 7 Drawing Sheets



**US 8,533,860 B1**

Page 2

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Liu et al. 2004 NPL.—A License-sharing scheme in Digital Rights Management.

Co-pending U.S. Appl. No. 13/397,517 document reference: Nov. 26, 2012 Index of Claims.

Co-pending U.S. Appl. No. 13/397,517 document reference: Nov. 26, 2012 Examiner's search strategy and results.

Co-pending U.S. Appl. No. 13/397,517 document reference: Nov. 26, 2012 Non Patent Literature—Baiya et al. U.S. Appl. No. 61/307,196.

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Co-pending U.S. Appl. No. 13/397,517 document reference May 31, 2012 Search information including classification, databases and other search related notes.

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Co-pending U.S. Appl. No. 13/397,517 document reference: Feb. 4, 2013 Issue Information including classification, examiner, name, claim, renumbering, etc.

Co-pending U.S. Appl. No. 13/397,517 document reference: Feb. 4, 2013.

Co-pending U.S. Appl. No. 13/397,517 document reference: Feb. 4, 2013 Index of Claims.

Co-pending U.S. Appl. No. 13/397,517 document reference: Feb. 4, 2013 Search information including classification, databases and other search related notes.

Co-pending U.S. Appl. No. 13/397,517 document reference: Feb. 4, 2013 Examiner's search strategy and results.

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US008402555B2

(12) **United States Patent**  
**Grecia**

(10) **Patent No.:** **US 8,402,555 B2**  
(45) **Date of Patent:** **Mar. 19, 2013**

(54) **PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)**

(76) **Inventor:** William Grecia, Grandville, MI (US)

(\* ) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** 13/397,517

(22) **Filed:** Feb. 15, 2012

(65) **Prior Publication Data**

US 2012/0151220 A1 Jun. 14, 2012

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**Related U.S. Application Data**

(63) Continuation of application No. 12/985,351, filed on Jan. 6, 2011, which is a continuation of application No. 12/728,218, filed on Mar. 21, 2010, now abandoned.

(51) **Int. Cl.**  
*H04L 29/06* (2006.01)

(52) **U.S. Cl.** ..... 726/29; 726/28; 713/185

(58) **Field of Classification Search** ..... 726/1-21, 726/26-33; 713/155-159, 168, 172-176, 713/185, 182

See application file for complete search history.

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Liu et al. 2004 NPL—A license-sharing scheme in Digital Rights Management.\*

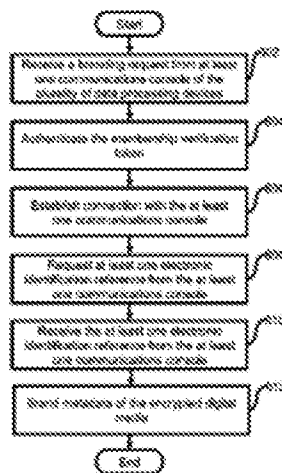
(Continued)

*Primary Examiner* — Jung Kim  
*Assistant Examiner* — Tri Tran

(57) **ABSTRACT**

The invention is an apparatus that facilitates access to encrypted digital media to accept verification and authentication from an excelsior enabler using at least one token and at least one electronic identification. The at least one electronic identification could be a device serial number, a networking MAC address, or a membership ID reference from a web service. Access to the product is also managed with a plurality of secondary enablers using the at least one electronic identification reference.

**26 Claims, 7 Drawing Sheets**





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Page 2

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Author—Michael Arrington—Movie Labels to Launch New "Open Market" Play Anywhere Scheme As Last Ditch Effort to Save DRM—Publication Source: TechCrunch.com [URL: <http://techcrunch.com/2008/08/26/movie-labels-to-launch-new-open-market-play-anywhere-scheme-as-last-ditch-effort-to-save-drm/>]—(Internet Publication Aug. 26, 2008).

Author—Mitch Singer—Developing the Digital Market—Publication Source: TechCrunch.com [URL: <http://techcrunch.files.wordpress.com/2008/08/singer.pdf>]—(Internet Publication Aug. 26, 2008).



**UNITED STATES DISTRICT COURT  
FOR THE Northern District of Illinois – CM/ECF LIVE, Ver 6.1.1  
Eastern Division**

William Grecia

Plaintiff,

v.

Case No.: 1:16-cv-10211  
Honorable Joan H. Lefkow

Big Ten Network Services, LLC

Defendant.

---

**NOTIFICATION OF DOCKET ENTRY**

This docket entry was made by the Clerk on Wednesday, March 8, 2017:

MINUTE entry before the Honorable Joan H. Lefkow: Status hearing of 3/14/2017 stricken. Pursuant to Stipulation of Dismissal With Prejudice [27], case dismissed with prejudice, with each party to bear its own costs, expenses, and attorneys' fees. Civil case terminated. Mailed notice(mad, )

**ATTENTION:** This notice is being sent pursuant to Rule 77(d) of the Federal Rules of Civil Procedure or Rule 49(c) of the Federal Rules of Criminal Procedure. It was generated by CM/ECF, the automated docketing system used to maintain the civil and criminal dockets of this District. If a minute order or other document is enclosed, please refer to it for additional information.

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THOMAS G. BRUTON, CLERK  
By: BROOK GUDAUSKY  
DEPUTY CLERK  
U.S. DISTRICT COURT, NORTHERN  
DISTRICT OF ILLINOIS  
March 9, 2017

EWS-002208

AO 120 (Rev. 08/10)

TO: <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Northern District of Illinois on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 16cv10221	DATE FILED 10/31/2016	U.S. DISTRICT COURT Northern District of Illinois
PLAINTIFF William Grecia		DEFENDANT NFL Network Services, LLC
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 SEE ATTACHMENT		
2 8533860		
3 8402555		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
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CLERK Thomas G. Bruton	(BY) DEPUTY CLERK Chez Chambers	DATE 3/8/2017
---------------------------	------------------------------------	------------------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director  
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

<b>TO:</b> <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Northern District of Illinois on the following

Trademarks or  Patents. (  the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 16-cv-10213	DATE FILED 10/31/2016	U.S. DISTRICT COURT Northern District of Illinois	
PLAINTIFF William Grecia		DEFENDANT Cablevision Systems Corporation	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1 US 8,533,860 B1	9/10/2013	William Grecia	
2 US 8,402,555 B2	3/19/2013	William Grecia	
3			
4			
5			

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK Thomas G. Bruton	(BY) DEPUTY CLERK Michelle Copeland	DATE 11/1/2016
---------------------------	--	-------------------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director  
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

EWS-002210

Inventor submits a record of current day practicing products in presentation to entities after December 2016. Claim steps of this patent for which products must perform to operate are:

*Independent Claim Steps:*

- 1) Receive a verification token from a user
- 2) Authenticate the verification token
- 3) Establish a connection with the API web service of Apple or Google
- 4) Request an identification reference (Device Token for push notifications)
- 5) Receive the identification reference (Device Token for push notifications)
- 6) Write at least one of the verification token or the identification reference into a data store (e.g., metadata) associated with the computer based apparatus.

T-Mobile Wi-Fi 6:15 PM 41%

# RICOH

**Device Number:**

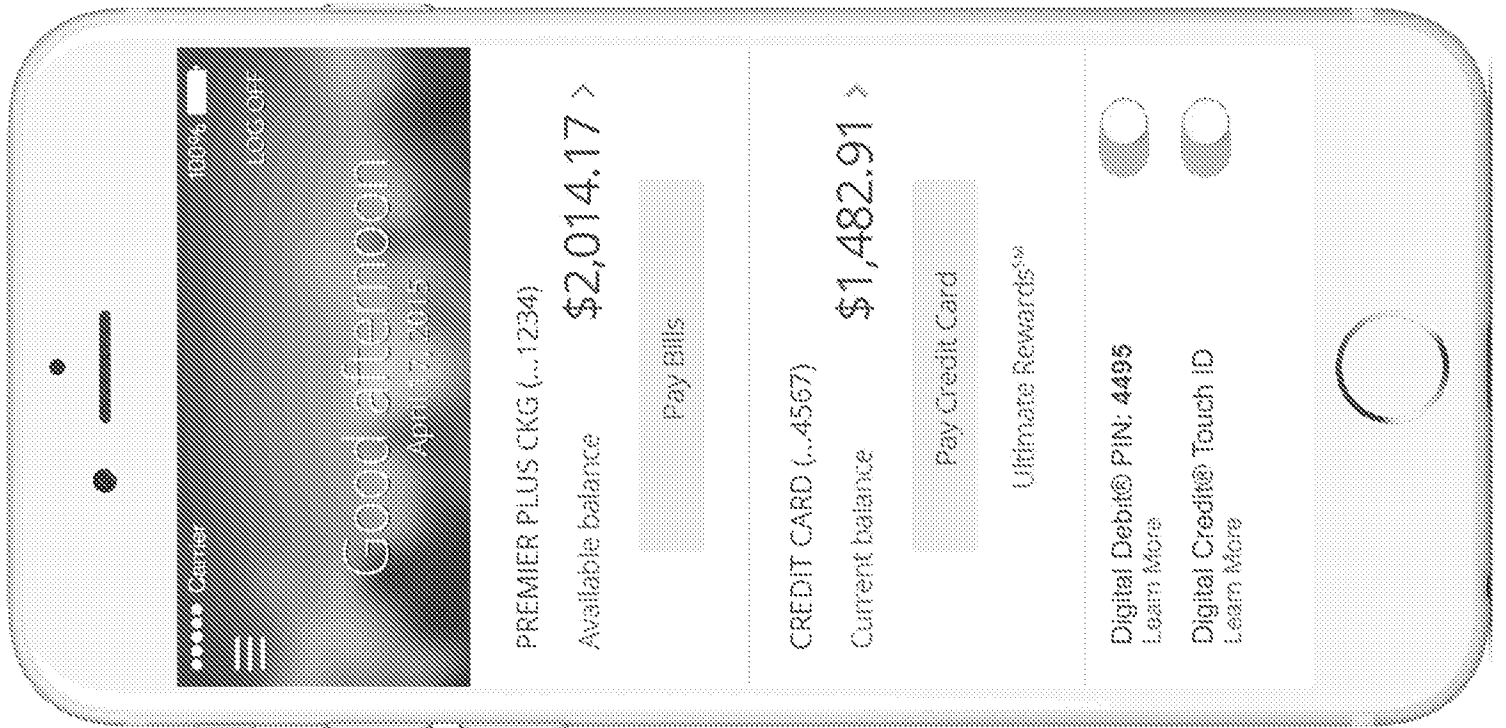
**3025553000**

**Device Pin:**

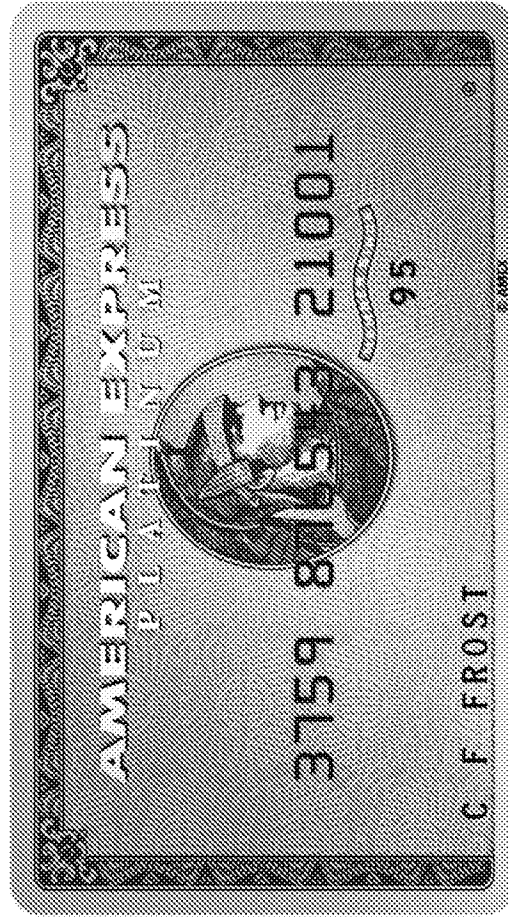
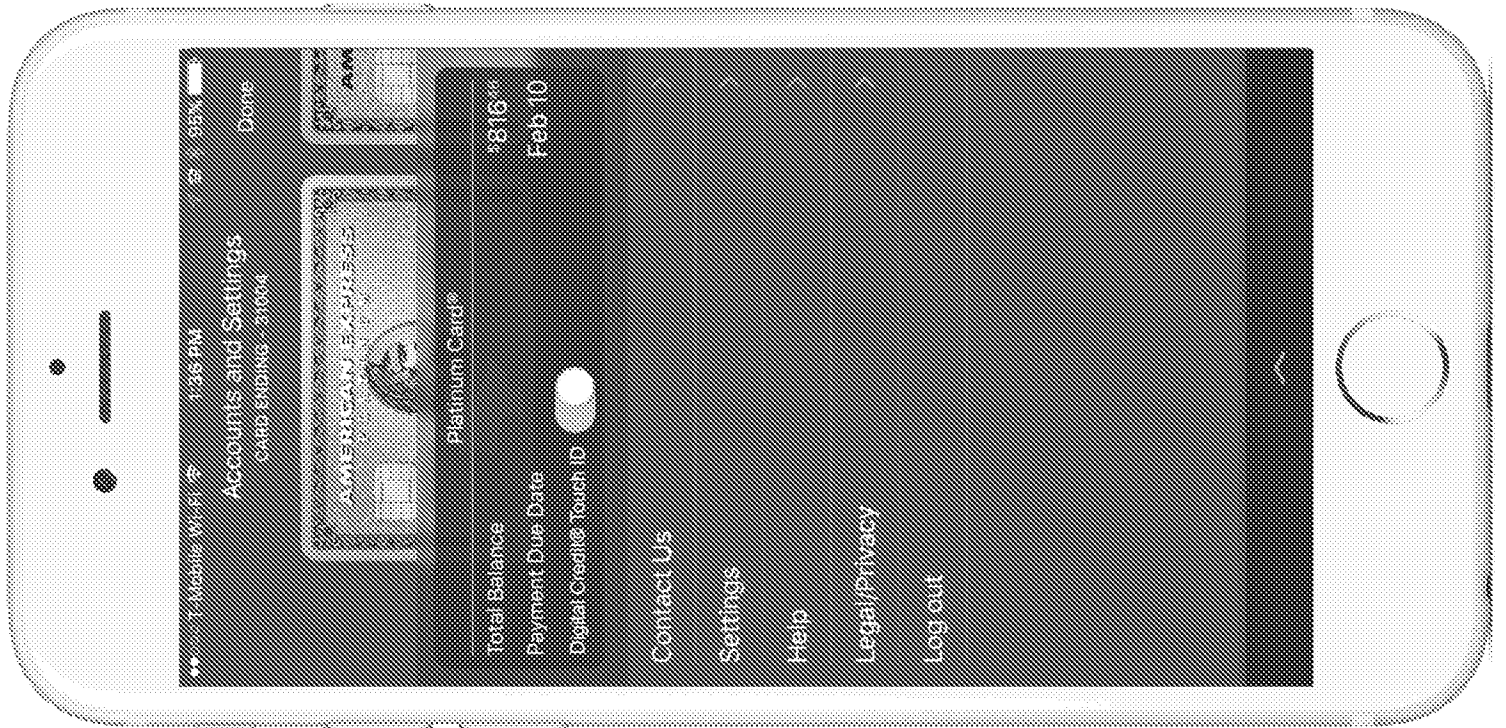
**3309**



RESET DEVICE PIN







## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	28318868
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	10-FEB-2017
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	06:55:53
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	Inventor_practice_disclosure. pdf	5549329 <small>7abc70245aac0658c9d0cb935211685525f 44c26</small>	no	4

### Warnings:

EWS-002215

<b>Information:</b>	
<b>Total Files Size (in bytes):</b>	5549329
<p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	

Submission of Inventor and current Patent Owner as of 1/18/17 practice of this patent and a file wrapper record of a duly marked product in accordance with 35 U.S.C. § 287(a).

Respectfully submitted

/william grecia/

William Grecia

Inventor and Patent Owner

# KodeKey™

[KodeKey IAM Service Device Registration](#)[TOS](#)

## About Us

For business inquiries and customer service:

Phone: 844-KodeKey (844-563-3539)

e-mail: [business@kodekey.com](mailto:business@kodekey.com)

KodeKey is owned and operated by [Qordado LLC](#).

[What is KodeKey?](#)[Key People](#)

## When you need to **prove that you're you™**, use KodeKey!

KodeKey is an authorization system for websites (and other services) to use the fingerprint reader on Samsung Galaxy and Apple devices as a login credential.

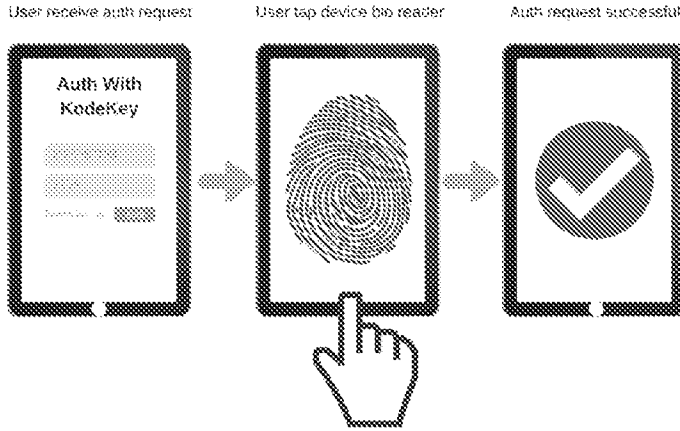
Offering fingerprint authentication as a service, we work with business and enterprise clients to build-in our patented authorization technology with existing and new platforms.

KodeKey is the world's first public user verification system with a focus on better operations security by introducing a mechanism that combine user authentication with mobile numbers. KodeKey can be implemented in existing systems using our easy API for a passwordless experience or as a second factor experience.

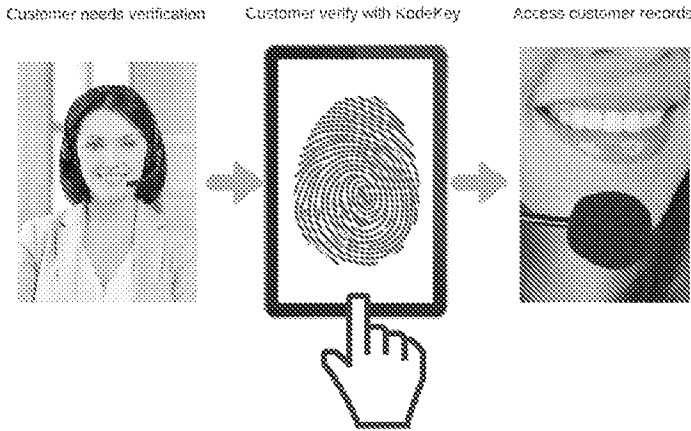
With a diverse range of possibilities, examples of KodeKey utilization includes:

# As a username & password replacement

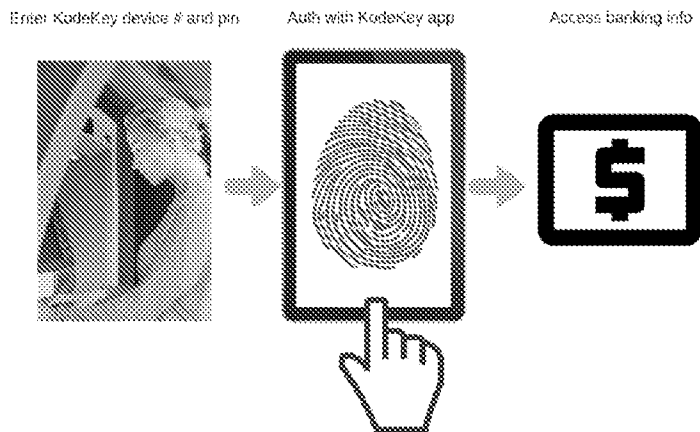
(Using the mobile number users know and an easy-to-remember 4 digit pin)



# Or a customer service verification



# And unlimited possibilites...



The following products are protected by patents licensed in the U.S.

This section is provided to satisfy the virtual patent marking provisions of the America Invents Act.

KodeKey: Protected by U.S. Patents 8,402,555, 8,533,860, and 8,887,308



KodeKey IAM Service Device Registration      TOS

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Phone: 844-KodeKey (844-563-3539)


e-mail: [business@kodekey.com](mailto:business@kodekey.com)

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[Key People](#)


William Grecia | Co-Founder, Executive Chairman

 [View William Grecia's profile](#)

*Mr. Grecia is the inventor of the KodeKey and TypeLocker systems.*

*in 2010, Mr. Grecia authored and won 3 issued patents related to Cloud Authorization and Network Tokenization.*

Edward Robles | Co-Founder, Chief Executive Officer

 [View Edward Robles profile](#)

*Mr. Robles is a founding Partner of Smart Data Technology Consultants, a company acquired by Xerox Corp in 2014.*

*Mr. Robles is a recognized expert in electronic discovery and discovery management issues. He has advised on implementation and planning issues associated with all phases of electronic discovery in litigations and investigations as well as electronically stored information (ESI) management policies and practices.*

Search for:



## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	28101216
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	18-JAN-2017
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	20:17:43
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	Practicing_Status_pto.pdf	1247103  31f2cb00d9d1c55b9ad5bb0bba19ebe447c33c5	no	4

### Warnings:

EWS-002221



<b>Information:</b>	
<b>Total Files Size (in bytes):</b>	1247103
<p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	

Junior patents citing this patent as prior art for inclusion within this file wrapper for educational reference:

U.S. Patents 9,342,832 and 9,519,802



US009519802B2

(12) **United States Patent**  
**Dutta**

(10) **Patent No.:** **US 9,519,802 B2**  
(45) **Date of Patent:** **Dec. 13, 2016**

(54) **SYSTEMS AND METHODS FOR DOCUMENT AND DATA PROTECTION**

(71) Applicant: **AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY, INC.**, New York, NY (US)

(72) Inventor: **Siddhartha Dutta**, Peoria, AZ (US)

(73) Assignee: **AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY, INC.**, New York, NY (US)

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 13 days.

(21) Appl. No.: **14/272,262**

(22) Filed: **May 7, 2014**

(65) **Prior Publication Data**

US 2015/0324592 A1 Nov. 12, 2015

(51) **Int. Cl.**

**G06F 21/00** (2013.01)  
**G06F 21/62** (2013.01)  
**G06F 21/60** (2013.01)

(52) **U.S. Cl.**

CPC ..... **G06F 21/6245** (2013.01); **G06F 21/602** (2013.01); **G06F 2221/2107** (2013.01)

(58) **Field of Classification Search**

CPC .... **G06F 21/60**; **G06F 21/602**; **G06F 21/6245**; **G06F 221/2107**

See application file for complete search history.

(56) **References Cited**

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Sommers, "Tokenization in Depth—A Detailed Look at Tokenization and its Advantages over Encryption," Shift4 Secure Payment Processing, 2010, Shift4 Corporation, 1-12.  
International Search Report and Written Opinion dated Jul. 20, 2015 in Application No. PCT/US2015/024877.

\* cited by examiner

*Primary Examiner* — Kendall Dolly

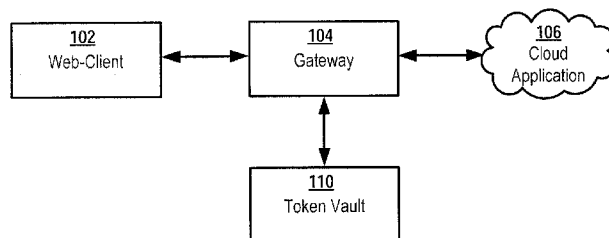
(74) *Attorney, Agent, or Firm* — Snell & Wilmer L.L.P.

(57) **ABSTRACT**

The present disclosure includes a method comprising encrypting sensitive data, generating a token comprising a data identifier, tokenizing the encrypted sensitive data, and/or storing the encrypted sensitive data in association with the token to a token vault. Tokenizing may comprise mapping the encrypted sensitive data to the token. The method may further comprise storing the token to a cloud application, wherein the cloud application comprises a software application that functions within a cloud computing environment.

**14 Claims, 4 Drawing Sheets**

100B



100A

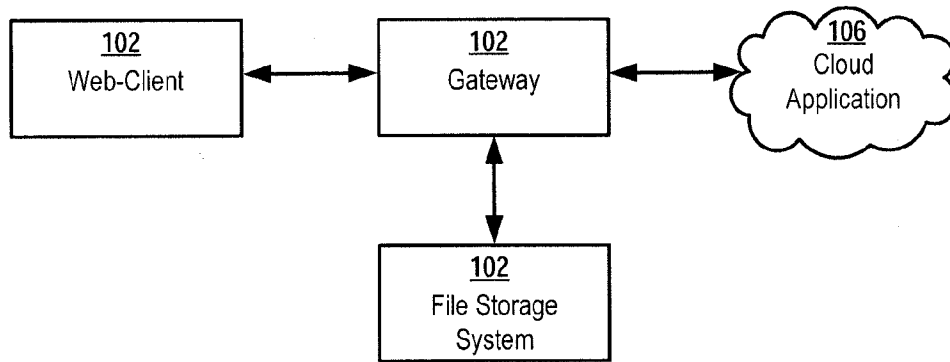


FIG. 1A

100B

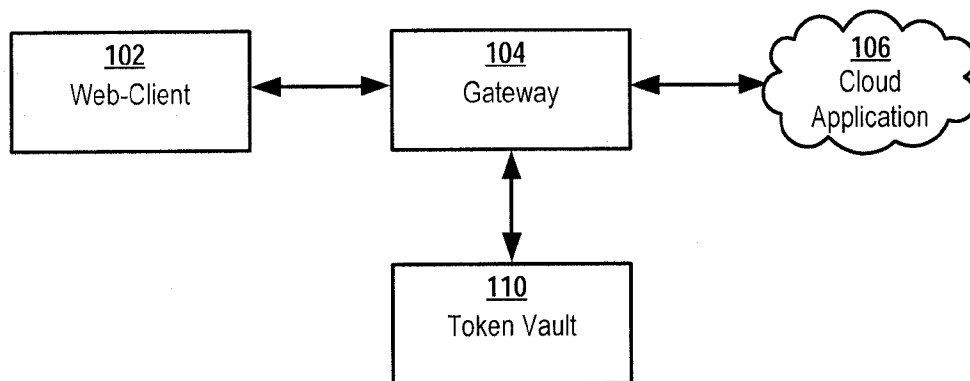


FIG. 1B

200A

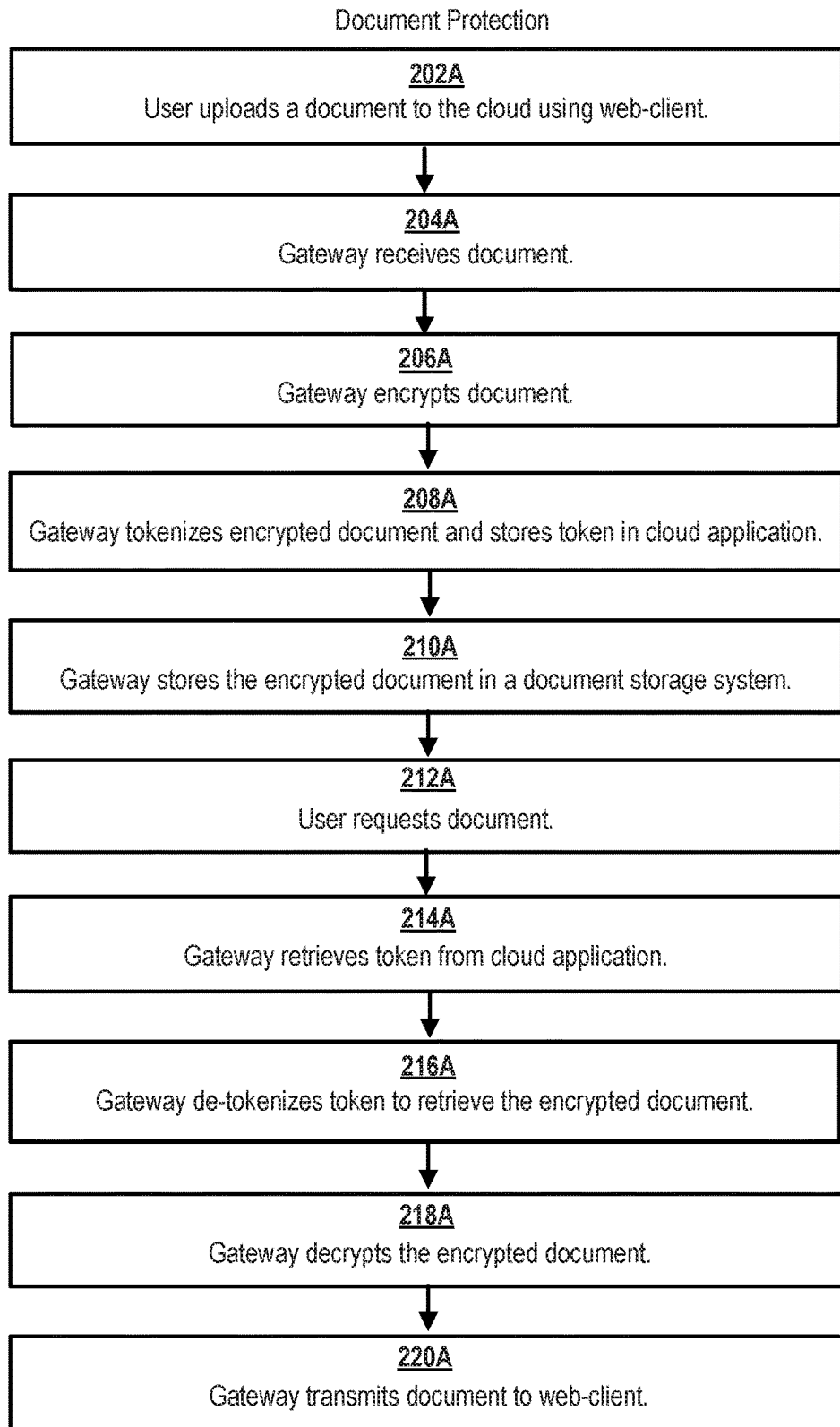


FIG. 2A

200B

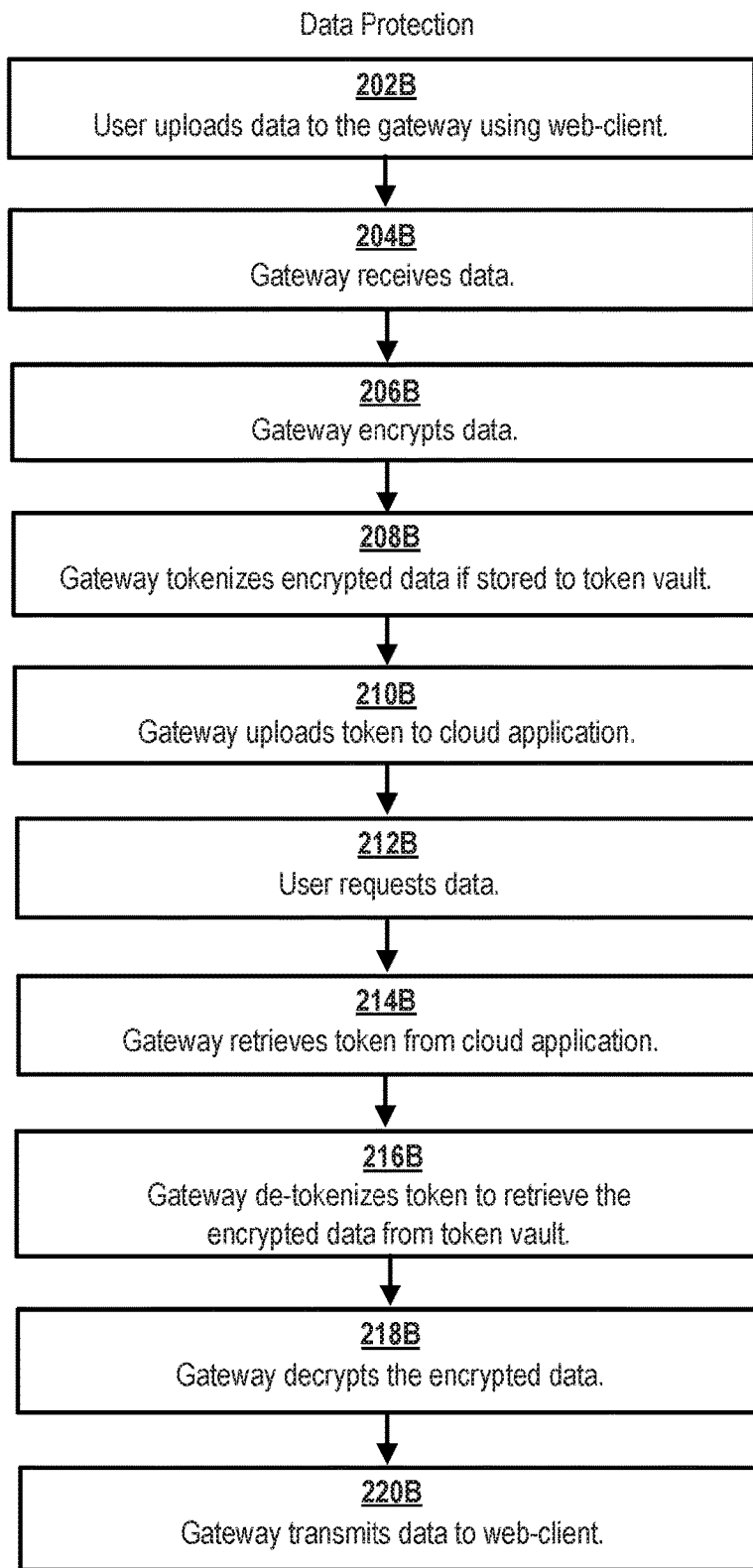


FIG. 2B

1

## SYSTEMS AND METHODS FOR DOCUMENT AND DATA PROTECTION

### FIELD

The present disclosure generally relates to document and data protection, and more particularly, to systems and methods for the protection of sensitive documents and/or data in conjunction with a cloud computing application, or external hosting services.

### BACKGROUND

At present, enterprise documents and data are protected in several ways, each having their respective disadvantages. Briefly, documents and/or data may be encrypted and uploaded to a cloud computing application. Obviously, this method leaves sensitive data and/or documents exposed to unwanted decryption if encryption keys are breached. In addition, encryption may break application/user functions such as Search, Sort, etc. In addition, many cloud providers will not accept documents exceeding a certain file size (e.g., five megabytes). Moreover, company policies may prohibit the exportation of sensitive data to a cloud application, while some markets (e.g., China, Germany, and Switzerland) may have very strict data exportation laws, such that documents and/or data stored in a Europe-based cloud may not be exported, for example, to a United States based location.

To mitigate some of these problems, various enterprises have stored unencrypted documents and/or data to a local data storage system (e.g., a token vault or file system) through the use of a tokenization system. To gain access to this data, and to leverage cloud applications for data and document distribution within the enterprise, the data and/or documents have been tokenized (i.e., associate the documents or data with a random alphanumeric string or file path) and the token stored to the cloud application. Disadvantages exist here as well. For example, a hacker or disgruntled employee may hack into the token vault or file system, and gain access to the unencrypted documents and/or data stored on the enterprise system.

### SUMMARY

The present disclosure includes a method comprising of a system or process that entails encrypting sensitive data, generating a token comprising a data identifier, tokenizing the encrypted sensitive data, and/or storing the encrypted sensitive data in association with the token to a token vault. Tokenizing may comprise mapping the encrypted sensitive data to the token. The method may further comprise storing the token to a cloud application, wherein the cloud application comprises a software application that functions within a cloud computing environment. In addition, the token comprises a randomly generated value. Moreover, the system may retrieve the token from a cloud application and/or identify the encrypted sensitive data, based upon a token associated with the encrypted sensitive data. The system may also decrypt the encrypted sensitive data and present it to the user.

The present disclosure further includes a method for encrypting a sensitive document. The method may include encrypting the sensitive document to create an encrypted sensitive document, generating a token comprising a document identifier, tokenizing the encrypted sensitive document, and/or storing the encrypted sensitive document to a local file storage system. Tokenizing may comprise associ-

2

ating the token with the encrypted sensitive document, and a token may comprise a file path. The method may also include storing the token to a cloud application, wherein the cloud application that comprises a software application that functions within a cloud computing environment. The method may, in addition, comprise receiving a request for the sensitive document. The method may include receiving the token from a cloud application and/or identifying the encrypted sensitive document, based upon a token associated with the encrypted sensitive document. The system may also decrypt the encrypted sensitive document and present it to the user.

### BRIEF DESCRIPTION OF THE DRAWINGS

The features and advantages of the present disclosure will become more apparent from the detailed description set forth below when taken in conjunction with the drawings. The left-most digit of a reference number identifies the drawing in which the reference number first appears.

FIG. 1A illustrates, in accordance with various embodiments, a system for protecting a sensitive document;

FIG. 1B illustrates, in accordance with various embodiments, a system for protecting sensitive data;

FIG. 2A illustrates, in accordance with various embodiments, a process for protecting a sensitive document; and

FIG. 2B illustrates, in accordance with various embodiments, a process for protecting sensitive data.

### DETAILED DESCRIPTION

The detailed description of exemplary embodiments herein makes reference to the accompanying drawings, which show the exemplary embodiments by way of illustration and their best mode. While these exemplary embodiments are described in sufficient detail to enable those skilled in the art to practice the disclosure, it should be understood that other embodiments may be realized and that logical and mechanical changes may be made without departing from the spirit and scope of the disclosure. Thus, the detailed description herein is presented for purposes of illustration only and not of limitation. For example, the steps recited in any of the method or process descriptions may be executed in any order and are not limited to the order presented. Moreover, any of the functions or steps may be outsourced to or performed by one or more third parties. Furthermore, any reference to singular includes plural embodiments, and any reference to more than one component may include a singular embodiment.

As used herein, a “document” may comprise any record (e.g., electronic record) that provides, comprises, and/or includes information. A document may, in various embodiments, be referenced and accessed by a file path associated with the document (e.g., C:/mydocuments/patent applications/systems and methods for document and data protection).

As used herein, “data” (or a “data element”) may comprise any information whatsoever. Thus, data may not be accessible, as above, via a file path. Rather, data may comprise, for example, a transaction account (credit card) number, expiry date, and the like.

As used herein, a document or data may be “tokenized” by associating an identifier with the document and/or data. For example, a document may be tokenized by associating a file path or “token” with the document. The file path may comprise the directory location of the document within a file storage system. Data may likewise be tokenized by associ-



ating an identifier or “token” with the data. A token may, in various embodiments, comprise a random number, which may be associated with the data.

Referring to FIG. 1A, a system **100A** for protecting a sensitive document is shown. The system **100A** may comprise a web-client **102**, a gateway **104**, a cloud application **106**, and/or a file storage system **108**.

A web-client **102** may include any device (e.g., personal computing device/mobile communication device) which communicates via any network. A web-client **102** may communicate (e.g., via a network) with a gateway **104**. Web-client **102** may be associated with and/or used by a consumer, a merchant, or both. Web-client may comprise a variety of browsing software or browser applications (e.g., Microsoft Internet Explorer, Mozilla Firefox, Google Chrome, Apple Safari, or any other of the myriad software packages available for browsing the internet). Such browser applications may comprise Internet browsing software installed within a computing unit or a system to conduct online transactions and/or communications. These computing units or systems may take the form of a computer or processor, or a set of computers/processors, although other types of computing units or systems may be used, including laptops, notebooks, hand held computers, personal digital assistants, cellular phones, smart phones (e.g., iPhone®, BlackBerry®, Droid®, etc.) set-top boxes, workstations, computer-servers, main frame computers, mini-computers, PC servers, pervasive computers, network sets of computers, personal computers, such as iPads, iMACs, and MacBooks, kiosks, terminals, point of sale (POS) devices and/or terminals, televisions, or any other device capable of receiving data over a network.

As those skilled in the art will appreciate, web-client **102** may include an operating system (e.g., Windows NT, 95/98/2000/CE/Mobile, OS2, UNIX, Linux, Solaris, MacOS, PalmOS, etc.) as well as various conventional support software and drivers typically associated with computers. A web-client may implement security protocols such as Secure Sockets Layer (SSL) and Transport Layer Security (TLS). A web-client may implement one or more application layer protocols, including, for example, http, https, ftp, and sftp. Transactions originating at a web client may pass through a firewall (not shown; see below) in order to prevent unauthorized access from users of other networks.

A gateway **104** may comprise any hardware and/or software configured to communicate with a cloud application **106**, a web-client **102**, a file storage system **108**, and/or a transaction vault **110**, as described below. For example, a gateway **104** may perform encryption/decryption operations as well as tokenize a document and/or data.

Encryption may be performed by way of any of the techniques now available in the art or which may become available—e.g., Twofish, RSA, El Gamal, Schorr signature, DSA, PGP, PKI, and symmetric and asymmetric cryptosystems.

A cloud application **106** may comprise any software application that functions within a cloud computing environment. Briefly, a cloud computing environment may comprise a network of remote servers hosted on the internet to store, manage, and/or process data. Thus, a cloud computing environment may serve, for example, to replace one or more local servers or personal computers.

A file storage system **108** may comprise any combination of hardware and/or software configured to store documents and/or data. For example, a file storage system **108** may comprise one or more databases, hard disk drives, and the like.

With reference now to FIG. 1B, a system **100B** for protecting sensitive data is shown. The system may comprise a web-client **102**. Similarly, the system may comprise a gateway **104** as well as one or more cloud applications **106**. The system **100B** may further comprise a token vault **110**.

A token vault **110** may comprise a data storage system, such as one or more databases, that store one or more tokens. As described herein, a document and/or data may be associated with a token—“tokenized.” Where data is tokenized, the token associated with the data may be stored securely within the token vault **110**. A mapping table may be stored within the token vault **110** to map data to its corresponding token.

With reference to FIG. 2A, an example process **200A** for protecting one or more sensitive documents is disclosed. Returning briefly to the definition of document, a document may be referenced and accessed by a file path associated with the document (e.g., C:/mydocuments/patent applications/systems and methods for document and data protection).

Accordingly, to protect the document, a user of a web-client **102** may upload the document to a cloud application **106** residing within a cloud computing environment and/or a gateway **104** (step **202A**). The gateway **104** may receive the document (step **204A**) and/or encrypt the document (step **206A**). In response to encrypting the document, the gateway **104** may tokenize the document by associating the file or directory path of the document with the document. This document token may be stored by the gateway **104** (e.g., via a network) to a cloud application **106** (step **208A**). The gateway **104** may further store the encrypted document to the file storage system **108**.

In response to a request by a user for a particular document (e.g., via the web-client **102**) (step **212A**), the gateway may retrieve the token associated with the document from the cloud application **106** (step **214A**). This may occur, for example, in response to a request from the gateway for the token from the cloud application **106**. In various embodiments, the gateway **104** may “de-tokenize” the token, meaning that the gateway **104** may read and/or store the file or directory path comprising the token. The gateway **104** may further request, retrieve, and/or receive the encrypted document associated with the token from the file storage system **108** (step **216A**). The gateway **104** may, in addition, decrypt the encrypted document (step **218A**), and communicate the decrypted document to the user (step **220A**).

With reference now to FIG. 2B, a process **200B** for protecting sensitive data is shown. In various embodiments, a user may upload, using a web-client **102**, data to the gateway **104** (step **202B**). The gateway **104** may receive the data (step **204B**). In response to receiving the data, the gateway **104** may encrypt the data and/or store it to the token vault **110** (step **206B**). The gateway may further tokenize the data (step **208B**). For example, the gateway **104** may generate a random number or “token,” and associate that token with the encrypted data stored in the token vault **110**. As described herein, the token vault **110** may include a mapping table (or other data structure, such as a database, suitable for storing a mapping between one or more tokens and one or more encrypted data elements). The token may therefore be stored by the gateway **104** with its associated mapping in the mapping table held within the token vault **110**. The gateway **104** may upload one or more tokens associated with one or more data elements to the cloud application **106** (step **210B**).

In various embodiments, the user may request data (e.g., using the web-client **102**) (step **212B**). The gateway **104** may receive this request and retrieve one or more tokens

associated with the requested data from the cloud application **106** (step **214B**). The gateway **104** may de-tokenize the token to retrieve the encrypted data from the token vault **110** (step **216B**). As described herein, the process of de-tokenization may simply comprise locating, within the mapping table, the data stored in association with the token or tokens. The gateway **104** may further decrypt the data retrieved from the token vault **110** (step **218B**). In response to decrypting the data, the gateway **104** may communicate the data to the user's web-client **102** (step **220B**).

Thus, the systems and methods **100A**, **100B**, **200A**, and **200B** may mitigate the data insecurities and problems associated with many conventional systems. For example, although a conventional system may store a token to a cloud application, the system may leave the documents and/or data associated with the token unencrypted and open to theft by a hacker. Moreover, where a conventional system may leave the documents and data unencrypted, the systems and methods **100A**, **100B**, **200A**, and **200B** may encrypt the documents and data, so that even a compromised token (e.g., in the case of data) will lead to unsuccessful data theft. Further still, the systems and methods **100A**, **100B**, **200A**, and **200B** described herein permit the storage of encrypted documents and data across international borders, as described above, as well as the storage of documents and data greater than a particular size accepted by a cloud provider.

As used herein, the term "network" includes any cloud, cloud computing system or electronic communications system or method which incorporates hardware and/or software components. Communication among the parties may be accomplished through any suitable communication channels, such as, for example, a telephone network, an extranet, an intranet, Internet, point of interaction device (point of sale device, personal digital assistant (e.g., iPhone®, Palm Pilot®, Blackberry®), cellular phone, kiosk, etc.), online communications, satellite communications, off-line communications, wireless communications, transponder communications, local area network (LAN), wide area network (WAN), virtual private network (VPN), networked or linked devices, keyboard, mouse and/or any suitable communication or data input modality. Moreover, although the system is frequently described herein as being implemented with TCP/IP communications protocols, the system may also be implemented using IPX, Appletalk, IP-6, NetBIOS, OSI, any tunneling protocol (e.g. IPsec, SSH), or any number of existing or future protocols. If the network is in the nature of a public network, such as the Internet, it may be advantageous to presume the network to be insecure and open to eavesdroppers. Specific information related to the protocols, standards, and application software utilized in connection with the Internet is generally known to those skilled in the art and, as such, need not be detailed herein. See, for example, DILIP NAIK, INTERNET STANDARDS AND PROTOCOLS (1998); JAVA 2 COMPLETE, various authors, (Sybex 1999); DEBORAH RAY AND ERIC RAY, MASTERING HTML 4.0 (1997); and LOSHIN, TCP/IP CLEARLY EXPLAINED (1997) and DAVID GOURLEY AND BRIAN TOTTY, HTTP, THE DEFINITIVE GUIDE (2002), the contents of which are hereby incorporated by reference. The various system components described herein may be independently, separately or collectively coupled to the network via one or more data links including, for example, a connection to an Internet Service Provider (ISP) over a local loop as is typically used in connection with standard modem communication, cable modem, Dish networks, ISDN, Digital Subscriber Line (DSL), or various wireless communication methods, see, e.g., GILBERT

HELD, UNDERSTANDING DATA COMMUNICATIONS (1996), which is hereby incorporated by reference. It is noted that the network may be implemented variously. For example, network may be implemented as an interactive television (ITV) network. The systems and methods disclosed herein contemplate the use, sale and/or distribution of any goods, services or information over any network having functionality similar to that described above with reference to network.

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Phrases and terms similar to a "transaction account holder," "buyer," "participant," "consumer," and/or "user" may include any person, entity, software and/or hardware that receives items in exchange for consideration (e.g. financial payment). For example, a buyer may purchase, lease, rent, barter or otherwise obtain items from a supplier and pay the supplier using a transaction account.

As used herein, "transmit" may include sending electronic data from one system component to another over a network connection. Additionally, as used herein, "data" may include encompassing information such as commands, queries, files, data for storage, and the like in digital or any other form.

Phrases or terms similar to "transaction account" may include any account that may be used to facilitate a financial transaction. A "transaction account" as used herein refers to an account associated with an open account or a closed account system (as described herein). The transaction account may exist in a physical or non-physical embodiment. For example, a transaction account may be distributed in non-physical embodiments such as an account number, frequent-flyer account, and telephone calling account or the like. Furthermore, a physical embodiment of a transaction account may be distributed as a financial instrument.

In general, transaction accounts may be used for transactions between the user (or "transaction account holder") and merchant through any suitable communication means, such as, for example, a telephone network, intranet, the global, public Internet, a point of interaction device (e.g., a point of sale (POS) device, personal digital assistant (PDA), mobile telephone, kiosk, etc.), online communications, off-line communications, wireless communications, and/or the like.

Phrases and terms similar to an "item" may include any good, service, information, experience, data, discount, rebate, points, virtual currency, content, access, rental, lease, contribution, account, credit, debit, benefit, right, reward, points, coupons, credits, monetary equivalent, anything of value, something of minimal or no value, monetary value, non-monetary value and/or the like. Moreover, the "transactions" or "purchases" discussed herein may be associated with an item. Furthermore, a "reward" may be an item.

An “account”, “account code”, or “account number”, as used herein, may include any device, code, number, letter, symbol, digital certificate, smart chip, digital signal, analog signal, biometric or other identifier/indicia suitably configured to allow the consumer to access, interact with or communicate with the system (e.g., one or more of an authorization/access code, personal identification number (PIN), Internet code, other identification code, and/or the like). The account number may optionally be located on or associated with a rewards card, charge card, credit card, debit card, prepaid card, telephone card, embossed card, smart card, magnetic stripe card, bar code card, transponder, radio frequency card or an associated account. The system may include or interface with any of the foregoing cards or devices, QR codes, Bluetooth, Near Field Communication, or a transponder and RFID reader in RF communication with the transponder (which may include a fob). Typical devices may include, for example, a key ring, tag, card, cell phone, wristwatch or any such form capable of being presented for interrogation.

As used herein, a system, computing unit or device may include a “pervasive computing device,” which may include a traditionally non-computerized device that is embedded with a computing unit. Examples can include watches, Internet enabled kitchen appliances, restaurant tables embedded with RF readers, wallets or purses with imbedded transponders, etc.

The account code may be distributed and stored in any form of plastic, electronic, magnetic, radio frequency, wireless, audio and/or optical device capable of transmitting or downloading data from itself to a second device. A customer account code may be, for example, a sixteen-digit transaction account code, although each transaction account provider has its own numbering system, such as the fifteen-digit numbering system used by American Express. Each company’s transaction account codes comply with that company’s standardized format such that the company using a fifteen-digit format will generally use three-spaced sets of numbers, as represented by the number “0000 00000 00000”. The first five to seven digits are reserved for processing purposes and identify the issuing bank, card type, etc. In this example, the last (fifteenth) digit is used as a sum check for the fifteen digit number. The intermediary eight-to-eleven digits are used to uniquely identify the customer. A merchant account code may be, for example, any number or alpha-numeric characters that identify a particular merchant for purposes of card acceptance, account reconciliation, reporting, or the like.

It should be noted that the transfer of information in accordance with the present disclosure, may be completed in a format recognizable by a merchant system or account issuer. In that regard, by way of example, the information may be transmitted from a contactless (e.g., an RFID device) to a contactless (e.g., RFID) reader or from the contactless reader to the merchant system in a variety of formats, e.g., magnetic stripe or multi-track magnetic stripe format.

As used herein, phrases and terms similar to “financial institution,” “transaction account issuer” and “payment processor” may include any person, entity, software and/or hardware that offers transaction account services. Although often referred to as a “financial institution,” the financial institution may represent any type of bank, lender or other type of account issuing institution, such as credit card companies, card sponsoring companies, or third party issuers under contract with financial institutions. It is further

noted that other participants may be involved in some phases of the transaction, such as an intermediary settlement institution.

The terms “payment vehicle,” “financial transaction instrument,” “transaction instrument,” or “transaction account product” may be used interchangeably throughout to refer to a financial instrument. As used herein, an account code may or may not be associated with a physical financial instrument.

In the detailed description herein, references to “one embodiment”, “an embodiment”, “an example embodiment”, “various embodiments”, etc., indicate that the embodiment described may include a particular feature, structure, or characteristic, but every embodiment may not necessarily include the particular feature, structure, or characteristic. Moreover, such phrases are not necessarily referring to the same embodiment. Further, when a particular feature, structure, or characteristic is described in connection with an embodiment, it is submitted that it is within the knowledge of one skilled in the art to effect such feature, structure, or characteristic in connection with other embodiments whether or not explicitly described. After reading the description, it will be apparent to one skilled in the relevant art(s) how to implement the disclosure in certain embodiments.

In various embodiments, the methods described herein are implemented using the various particular machines described herein. The methods described herein may be implemented using the particular machines, and those hereinafter developed, in any suitable combination, as would be appreciated immediately by one skilled in the art. Further, as is unambiguous from this disclosure, the methods described herein may result in various transformations of certain articles.

For the sake of brevity, conventional data networking, application development and other functional aspects of the systems (and components of the individual operating components of the systems) may not be described in detail herein. Furthermore, the connecting lines shown in the various figures contained herein are intended to represent exemplary functional relationships and/or physical couplings between the various elements. It should be noted that many alternative or additional functional relationships or physical connections may be present in a practical system.

The various system components discussed herein may include one or more of the following: a host server or other computing systems including a processor for processing digital data; a memory coupled to the processor for storing digital data; an input digitizer coupled to the processor for inputting digital data; an application program stored in the memory and accessible by the processor for directing processing of digital data by the processor; a display device coupled to the processor and memory for displaying information derived from digital data processed by the processor; and a plurality of databases. Various databases used herein may include: client data; merchant data; financial institution data; and/or like data useful in the operation of the system. As those skilled in the art will appreciate, user computer may include an operating system (e.g., Windows NT, 95/98/2000, XP, Vista, OS2, UNIX, Linux, Solaris, MacOS, etc.) as well as various conventional support software and drivers typically associated with computers. A user may include any individual, business, entity, government organization, software and/or hardware that interact with a system.

In an embodiment, various components, modules, and/or engines of the systems described herein may be implemented as micro-applications or micro-apps. Micro-apps are

typically deployed in the context of a mobile operating system, including for example, a Palm mobile operating system, a Windows mobile operating system, an Android Operating System, Apple iOS, a Blackberry operating system and the like. The micro-app may be configured to leverage the resources of the larger operating system and associated hardware via a set of predetermined rules which govern the operations of various operating systems and hardware resources. For example, where a micro-app desires to communicate with a device or network other than the mobile device or mobile operating system, the micro-app may leverage the communication protocol of the operating system and associated device hardware under the predetermined rules of the mobile operating system. Moreover, where the micro-app desires an input from a user, the micro-app may be configured to request a response from the operating system which monitors various hardware components and then communicates a detected input from the hardware to the micro-app.

The system contemplates uses in association with web services, utility computing, pervasive and individualized computing, security and identity solutions, autonomic computing, cloud computing, commodity computing, mobility and wireless solutions, open source, biometrics, grid computing and/or mesh computing.

Any databases discussed herein may include relational, hierarchical, graphical, or object-oriented structure and/or any other database configurations. Common database products that may be used to implement the databases include DB2 by IBM (Armonk, N.Y.), various database products available from Oracle Corporation (Redwood Shores, Calif.), Microsoft Access or Microsoft SQL Server by Microsoft Corporation (Redmond, Wash.), MySQL by MySQL AB (Uppsala, Sweden), or any other suitable database product. Moreover, the databases may be organized in any suitable manner, for example, as data tables or lookup tables. Each record may be a single file, a series of files, a linked series of data fields or any other data structure. Association of certain data may be accomplished through any desired data association technique such as those known or practiced in the art. For example, the association may be accomplished either manually or automatically. Automatic association techniques may include, for example, a database search, a database merge, GREP, AGREP, SQL, using a key field in the tables to speed searches, sequential searches through all the tables and files, sorting records in the file according to a known order to simplify lookup, and/or the like. The association step may be accomplished by a database merge function, for example, using a "key field" in pre-selected databases or data sectors. Various database tuning steps are contemplated to optimize database performance. For example, frequently used files such as indexes may be placed on separate file systems to reduce In/Out ("I/O") bottlenecks.

More particularly, a "key field" partitions the database according to the high-level class of objects defined by the key field. For example, certain types of data may be designated as a key field in a plurality of related data tables and the data tables may then be linked on the basis of the type of data in the key field. The data corresponding to the key field in each of the linked data tables is preferably the same or of the same type. However, data tables having similar, though not identical, data in the key fields may also be linked by using AGREP, for example. In accordance with one embodiment, any suitable data storage technique may be utilized to store data without a standard format. Data sets may be stored using any suitable technique, including, for

example, storing individual files using an ISO/IEC 7816-4 file structure; implementing a domain whereby a dedicated file is selected that exposes one or more elementary files containing one or more data sets; using data sets stored in individual files using a hierarchical filing system; data sets stored as records in a single file (including compression, SQL accessible, hashed via one or more keys, numeric, alphabetical by first tuple, etc.); Binary Large Object (BLOB); stored as ungrouped data elements encoded using ISO/IEC 7816-6 data elements; stored as ungrouped data elements encoded using ISO/IEC Abstract Syntax Notation (ASN.1) as in ISO/IEC 8824 and 8825; and/or other proprietary techniques that may include fractal compression methods, image compression methods, etc.

In one exemplary embodiment, the ability to store a wide variety of information in different formats is facilitated by storing the information as a BLOB. Thus, any binary information can be stored in a storage space associated with a data set. As discussed above, the binary information may be stored on the financial transaction instrument or external to but affiliated with the financial transaction instrument. The BLOB method may store data sets as ungrouped data elements formatted as a block of binary via a fixed memory offset using either fixed storage allocation, circular queue techniques, or best practices with respect to memory management (e.g., paged memory, least recently used, etc.). By using BLOB methods, the ability to store various data sets that have different formats facilitates the storage of data associated with the financial transaction instrument by multiple and unrelated owners of the data sets. For example, a first data set which may be stored may be provided by a first party, a second data set which may be stored may be provided by an unrelated second party, and yet a third data set which may be stored, may be provided by an third party unrelated to the first and second party. Each of these three exemplary data sets may contain different information that is stored using different data storage formats and/or techniques. Further, each data set may contain subsets of data that also may be distinct from other subsets.

As stated above, in various embodiments, the data can be stored without regard to a common format. However, in one exemplary embodiment, the data set (e.g., BLOB) may be annotated in a standard manner when provided for manipulating the data onto the financial transaction instrument. The annotation may comprise a short header, trailer, or other appropriate indicator related to each data set that is configured to convey information useful in managing the various data sets. For example, the annotation may be called a "condition header", "header", "trailer", or "status", herein, and may comprise an indication of the status of the data set or may include an identifier correlated to a specific issuer or owner of the data. In one example, the first three bytes of each data set BLOB may be configured or configurable to indicate the status of that particular data set; e.g., LOADED, INITIALIZED, READY, BLOCKED, REMOVABLE, or DELETED. Subsequent bytes of data may be used to indicate for example, the identity of the issuer, user, transaction/membership account identifier or the like. Each of these condition annotations are further discussed herein.

The data set annotation may also be used for other types of status information as well as various other purposes. For example, the data set annotation may include security information establishing access levels. The access levels may, for example, be configured to permit only certain individuals, levels of employees, companies, or other entities to access data sets, or to permit access to specific data sets based on the transaction, merchant, issuer, user or the like. Further-

more, the security information may restrict/permit only certain actions such as accessing, modifying, and/or deleting data sets. In one example, the data set annotation indicates that only the data set owner or the user are permitted to delete a data set, various identified users may be permitted to access the data set for reading, and others are altogether excluded from accessing the data set. However, other access restriction parameters may also be used allowing various entities to access a data set with various permission levels as appropriate.

The data, including the header or trailer may be received by a stand alone interaction device configured to add, delete, modify, or augment the data in accordance with the header or trailer. As such, in one embodiment, the header or trailer is not stored on the transaction device along with the associated issuer-owned data but instead the appropriate action may be taken by providing to the transaction instrument user at the stand alone device, the appropriate option for the action to be taken. The system may contemplate a data storage arrangement wherein the header or trailer, or header or trailer history, of the data is stored on the transaction instrument in relation to the appropriate data.

One skilled in the art will also appreciate that, for security reasons, any databases, systems, devices, servers or other components of the system may consist of any combination thereof at a single location or at multiple locations, wherein each database or system includes any of various suitable security features, such as firewalls, access codes, encryption, decryption, compression, decompression, and/or the like.

A firewall may comprise any hardware and/or software suitably configured to protect systems, components, and/or enterprise computing resources from users of other networks. Further, a firewall may be configured to limit or restrict access to various systems and components behind the firewall for web clients connecting through a web server. A firewall may reside in varying configurations including Stateful Inspection, Proxy based, access control lists, and Packet Filtering among others. A firewall may be integrated within a web server or any other CMS components or may further reside as a separate entity. A firewall may implement network address translation ("NAT") and/or network address port translation ("NAPT"). A firewall may accommodate various tunneling protocols to facilitate secure communications, such as those used in virtual private networking. A firewall may implement a demilitarized zone ("DMZ") to facilitate communications with a public network such as the Internet. A firewall may be integrated as software within an Internet server, any other application server components or may reside within another computing device or may take the form of a standalone hardware component.

The computers discussed herein may provide a suitable website or other Internet-based graphical user interface which is accessible by users. In one embodiment, the Microsoft Internet Information Server (IIS), Microsoft Transaction Server (MTS), and Microsoft SQL Server, are used in conjunction with the Microsoft operating system, Microsoft NT web server software, a Microsoft SQL Server database system, and a Microsoft Commerce Server. Additionally, components such as Access or Microsoft SQL Server, Oracle, Sybase, Informix MySQL, Interbase, etc., may be used to provide an Active Data Object (ADO) compliant database management system. In one embodiment, the Apache web server is used in conjunction with a Linux operating system, a MySQL database, and the Perl, PHP, and/or Python programming languages.

Any of the communications, inputs, storage, databases or displays discussed herein may be facilitated through a website having web pages. The term "web page" as it is used herein is not meant to limit the type of documents and applications that might be used to interact with the user. For example, a typical website might include, in addition to standard HTML documents, various forms, Java applets, JavaScript, active server pages (ASP), common gateway interface scripts (CGI), extensible markup language (XML), dynamic HTML, cascading style sheets (CSS), AJAX (Asynchronous Javascript And XML), helper applications, plug-ins, and the like. A server may include a web service that receives a request from a web server, the request including a URL (<http://yahoo.com/stockquotes/ge>) and an IP address (123.56.789.234). The web server retrieves the appropriate web pages and sends the data or applications for the web pages to the IP address. Web services are applications that are capable of interacting with other applications over a communications means, such as the internet. Web services are typically based on standards or protocols such as XML, SOAP, AJAX, WSDL and UDDI. Web services methods are well known in the art, and are covered in many standard texts. See, e.g., ALEX NGHIEM, IT WEB SERVICES: A ROADMAP FOR THE ENTERPRISE (2003), hereby incorporated by reference.

Middleware may include any hardware and/or software suitably configured to facilitate communications and/or process transactions between disparate computing systems. Middleware components are commercially available and known in the art. Middleware may be implemented through commercially available hardware and/or software, through custom hardware and/or software components, or through a combination thereof. Middleware may reside in a variety of configurations and may exist as a standalone system or may be a software component residing on the Internet server. Middleware may be configured to process transactions between the various components of an application server and any number of internal or external systems for any of the purposes disclosed herein. WebSphere MQTM (formerly MQSeries) by IBM, Inc. (Armonk, N.Y.) is an example of a commercially available middleware product. An Enterprise Service Bus ("ESB") application is another example of middleware.

Practitioners will also appreciate that there are a number of methods for displaying data within a browser-based document. Data may be represented as standard text or within a fixed list, scrollable list, drop-down list, editable text field, fixed text field, pop-up window, and the like. Likewise, there are a number of methods available for modifying data in a web page such as, for example, free text entry using a keyboard, selection of menu items, check boxes, option boxes, and the like.

The system and method may be described herein in terms of functional block components, screen shots, optional selections and various processing steps. It should be appreciated that such functional blocks may be realized by any number of hardware and/or software components configured to perform the specified functions. For example, the system may employ various integrated circuit components, e.g., memory elements, processing elements, logic elements, lookup tables, and the like, which may carry out a variety of functions under the control of one or more microprocessors or other control devices. Similarly, the software elements of the system may be implemented with any programming or scripting language such as C, C++, C#, Java, JavaScript, VBScript, Macromedia Cold Fusion, COBOL, Microsoft Active Server Pages, assembly, PERL, PHP, awk, Python,

Visual Basic, SQL Stored Procedures, PL/SQL, any UNIX shell script, and extensible markup language (XML) with the various algorithms being implemented with any combination of data structures, objects, processes, routines or other programming elements. Further, it should be noted that the system may employ any number of conventional techniques for data transmission, signaling, data processing, network control, and the like. Still further, the system could be used to detect or prevent security issues with a client-side scripting language, such as JavaScript, VBScript or the like. For a basic introduction of cryptography and network security, see any of the following references: (1) "Applied Cryptography: Protocols, Algorithms, And Source Code In C," by Bruce Schneier, published by John Wiley & Sons (second edition, 1995); (2) "Java Cryptography" by Jonathan Knudson, published by O'Reilly & Associates (1998); (3) "Cryptography & Network Security: Principles & Practice" by William Stallings, published by Prentice Hall; all of which are hereby incorporated by reference.

Each participant is equipped with a computing device in order to interact with the system and facilitate online commerce transactions. The customer has a computing unit in the form of a personal computer, although other types of computing units may be used including laptops, notebooks, hand held computers, set-top boxes, cellular telephones, touch-tone telephones and the like. The merchant has a computing unit implemented in the form of a computer-server, although other implementations are contemplated by the system. The bank has a computing center shown as a main frame computer. However, the bank computing center may be implemented in other forms, such as a mini-computer, a PC server, a network of computers located in the same of different geographic locations, or the like. Moreover, the system contemplates the use, sale or distribution of any goods, services or information over any network having similar functionality described herein.

The electronic commerce system may be implemented at the customer and issuing bank. In an exemplary implementation, the electronic commerce system is implemented as computer software modules loaded onto the customer computer and the banking computing center. The merchant computer does not require any additional software to participate in the online commerce transactions supported by the online commerce system.

As will be appreciated by one of ordinary skill in the art, the system may be embodied as a customization of an existing system, an add-on product, upgraded software, a stand alone system, a distributed system, a method, a data processing system, a device for data processing, and/or a computer program product. Accordingly, the system may take the form of an entirely software embodiment, an entirely hardware embodiment, or an embodiment combining aspects of both software and hardware. Furthermore, the system may take the form of a computer program product on a computer-readable storage medium having computer-readable program code means embodied in the storage medium. Any suitable computer-readable storage medium may be utilized, including hard disks, CD-ROM, optical storage devices, magnetic storage devices, and/or the like.

The system and method is described herein with reference to screen shots, block diagrams and flowchart illustrations of methods, apparatus (e.g., systems), and computer program products according to various embodiments. It will be understood that each functional block of the block diagrams and the flowchart illustrations, and combinations of func-

tional blocks in the block diagrams and flowchart illustrations, respectively, can be implemented by computer program instructions.

These computer program instructions may be loaded onto a general purpose computer, special purpose computer, or other programmable data processing apparatus to produce a machine, such that the instructions that execute on the computer or other programmable data processing apparatus create means for implementing the functions specified in the flowchart block or blocks. These computer program instructions may also be stored in a computer-readable memory that can direct a computer or other programmable data processing apparatus to function in a particular manner, such that the instructions stored in the computer-readable memory produce an article of manufacture including instruction means which implement the function specified in the flowchart block or blocks. The computer program instructions may also be loaded onto a computer or other programmable data processing apparatus to cause a series of operational steps to be performed on the computer or other programmable apparatus to produce a computer-implemented process such that the instructions which execute on the computer or other programmable apparatus provide steps for implementing the functions specified in the flowchart block or blocks.

Accordingly, functional blocks of the block diagrams and flowchart illustrations support combinations of means for performing the specified functions, combinations of steps for performing the specified functions, and program instruction means for performing the specified functions. It will also be understood that each functional block of the block diagrams and flowchart illustrations, and combinations of functional blocks in the block diagrams and flowchart illustrations, can be implemented by either special purpose hardware-based computer systems which perform the specified functions or steps, or suitable combinations of special purpose hardware and computer instructions. Further, illustrations of the process flows and the descriptions thereof may make reference to user windows, webpages, websites, web forms, prompts, etc. Practitioners will appreciate that the illustrated steps described herein may comprise in any number of configurations including the use of windows, webpages, web forms, popup windows, prompts and the like. It should be further appreciated that the multiple steps as illustrated and described may be combined into single webpages and/or windows but have been expanded for the sake of simplicity. In other cases, steps illustrated and described as single process steps may be separated into multiple webpages and/or windows but have been combined for simplicity.

Benefits, other advantages, and solutions to problems have been described herein with regard to specific embodiments. However, the benefits, advantages, solutions to problems, and any elements that may cause any benefit, advantage, or solution to occur or become more pronounced are not to be construed as critical, required, or essential features or elements of the disclosure. The scope of the disclosure is accordingly to be limited by nothing other than the appended claims, in which reference to an element in the singular is not intended to mean "one and only one" unless explicitly so stated, but rather "one or more." Moreover, where a phrase similar to "at least one of A, B, and C" or "at least one of A, B, or C" is used in the claims or specification, it is intended that the phrase be interpreted to mean that A alone may be present in an embodiment, B alone may be present in an embodiment, C alone may be present in an embodiment, or that any combination of the elements A, B and C may be

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present in a single embodiment; for example, A and B, A and C, B and C, or A and B and C. Although the inventions have been described as a method in certain embodiments, it is contemplated that it may be embodied as computer program instructions on a tangible computer-readable carrier, such as a magnetic or optical memory or a magnetic or optical disk. All structural, chemical, and functional equivalents to the elements of the above-described exemplary embodiments that are known to those of ordinary skill in the art are expressly incorporated herein by reference and are intended to be encompassed by the present claims. Moreover, it is not necessary for a device or method to address each and every problem sought to be solved by the present disclosure, for it to be encompassed by the present claims. Furthermore, no element, component, or method step in the present disclosure is intended to be dedicated to the public regardless of whether the element, component, or method step is explicitly recited in the claims. No claim element herein is to be construed under the provisions of 35 U.S.C. 112(f) unless the element is expressly recited using the phrase “means for.” As used herein, the terms “comprises”, “comprising”, or any other variation thereof, are intended to cover a non-exclusive inclusion, such that a process, method, article, or apparatus that comprises a list of elements does not include only those elements but may include other elements not expressly listed or inherent to such process, method, article, or apparatus.

What is claimed is:

1. A method comprising:

intercepting, by a tokenization gateway computer-based system, sensitive data prior to the sensitive data reaching a cloud application in an externally hosted system, wherein the sensitive data is being uploaded to the externally hosted system;

encrypting, by the tokenization gateway computer-based system and in response to the intercepting, the sensitive data to create encrypted sensitive data;

associating, by the tokenization gateway computer-based system, a file path with the encrypted sensitive data;

generating, by the tokenization gateway computer-based system and in response to the encrypting, a token comprising a data identifier;

tokenizing, by the tokenization gateway computer-based system and in response to the generating, the encrypted sensitive data, wherein the tokenizing comprises mapping the encrypted sensitive data to the token;

storing, by the tokenization gateway computer-based system and in response to the tokenizing, the token to the cloud application, wherein the cloud application comprises a software application that functions within the externally hosted system, wherein the externally hosted system includes a cloud computing environment;

storing, by the tokenization gateway computer-based system and in response to the storing the token to the cloud application, the encrypted sensitive data to a token vault internal to the tokenization gateway computer-based system, wherein the token vault comprises a data storage system;

retrieving, by the tokenization gateway computer-based system, the token from the cloud application in response to a request from the computer-based system for the token from the cloud application,

reading, by the tokenization gateway computer-based system, the file path associated with the token; and

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in response to the reading the file path associated with the token, receiving and decrypting, by the tokenization gateway computer-based system, the encrypted sensitive data.

2. The method of claim 1, wherein the token comprises the file path, wherein the file path comprises a directory location of the encrypted sensitive data within the data storage system.

3. The method of claim 2, wherein the token comprises a randomly generated value, and wherein a mapping table is stored in the token vault, wherein the mapping table maps the encrypted sensitive data to the token.

4. The method of claim 3, further comprising receiving, by the tokenization gateway computer-based system, a request for the sensitive data.

5. The method of claim 1, further comprising identifying, based upon the token associated with the encrypted sensitive data, the encrypted sensitive data.

6. A system comprising:  
a tangible, non-transitory memory communicating with a tokenization gateway processor,

the tangible, non-transitory memory having instructions stored thereon that, in response to execution by the tokenization gateway processor, cause the tokenization gateway processor to perform operations comprising:  
intercepting, by the tokenization gateway processor, sensitive data prior to the sensitive data reaching a cloud application in an externally hosted system,  
wherein the sensitive data is being uploaded to the externally hosted system;

encrypting, by the tokenization gateway processor and in response to the intercepting, the sensitive data to create encrypted sensitive data;

associating, by the tokenization gateway processor, a file path with the encrypted sensitive data;

generating, by the tokenization gateway processor and in response to the encrypting, a token comprising a data identifier;

tokenizing, by the tokenization gateway processor and in response to the generating, the encrypted sensitive data, wherein the tokenizing comprises mapping the encrypted sensitive data to the token;

storing, by the tokenization gateway processor and in response to the tokenizing, the token to the cloud application, wherein the cloud application comprises a software application that functions within the externally hosted system, wherein the externally hosted system includes a cloud computing environment;

storing, by the tokenization gateway processor and in response to the storing the token to the cloud application, the encrypted sensitive data to a token vault internal to the tokenization gateway processor, wherein the token vault comprises a data storage system;

retrieving, by the tokenization gateway processor, the token from the cloud application in response to a request from the tokenization gateway processor for the token from the cloud application,

reading, by the tokenization gateway processor, the file path associated with the token; and

in response to the reading the file path associated with the token, receiving and decrypting, by the tokenization gateway processor, the encrypted sensitive data.

7. The system of claim 6, wherein the token comprises the file path, wherein the file path comprises a directory location of the encrypted sensitive data within the data storage system.

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8. The system of claim 7, wherein the token comprises a randomly generated value, and wherein a mapping table is stored in the token vault, wherein the mapping table maps the encrypted sensitive data to the token.

9. The system of claim 8, further comprising receiving, by the tokenization gateway processor, a request for the sensitive data.

10. The system of claim 6, further comprising identifying, based upon the token associated with the encrypted sensitive data, the encrypted sensitive data.

11. An article of manufacture including a non-transitory, tangible computer readable storage medium having instructions stored thereon that, in response to execution by a tokenization gateway computer-based system, cause the computer-based system to perform operations comprising:

intercepting, by the tokenization gateway computer-based system, a sensitive document prior to the sensitive document reaching a cloud application in an externally hosted system,

wherein the sensitive document is being uploaded to the externally hosted system;

encrypting, by the tokenization gateway computer-based system and in response to the intercepting, the sensitive document to create an encrypted sensitive document;

associating, by the tokenization gateway computer-based system, a file path with the encrypted sensitive document;

generating, by the tokenization gateway computer-based system and in response to the encrypting, a token comprising a document identifier;

tokenizing, by the tokenization gateway computer-based system and in response to the generating, the encrypted sensitive document, wherein the tokenizing comprises associating the token with the encrypted sensitive document;

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storing, by the tokenization gateway computer-based system and in response to the tokenizing, the token to the cloud application, wherein the cloud application comprises a software application that functions within the externally hosted system, wherein the externally hosted system includes a cloud computing environment;

storing, by the tokenization gateway computer-based system and in response to the storing the token to the cloud application, the encrypted sensitive document to an internal to the tokenization gateway computer-based system, wherein the token vault comprises file storage system;

retrieving, by the computer-based system, the token from the cloud application in response to a request from the computer-based system for the token from the cloud application,

reading, by the tokenization gateway computer-based system, the file path associated with the token; and in response to the reading the file path associated with the token, receiving and decrypting, by the tokenization gateway computer-based system, the encrypted sensitive document.

12. The article of claim 11, wherein the token comprises the file path, wherein the file path comprises a directory location of the encrypted sensitive document within the document storage system.

13. The article of claim 12, wherein the token comprises a randomly generated value, and wherein a mapping table is stored in the token vault, wherein the mapping table maps the encrypted sensitive document to the token.

14. The article of claim 13, further comprising receiving, by the tokenization gateway computer-based system, a request for the sensitive document.

\* \* \* \* \*





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**Basu et al.**

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(45) **Date of Patent:** **May 17, 2016**

(54) **SECURING EXTERNAL SYSTEMS WITH ACCOUNT TOKEN SUBSTITUTION**

*20/322* (2013.01); *G06Q 20/3674* (2013.01);  
*G06Q 20/382* (2013.01); *G06Q 20/38215*  
(2013.01)

(75) Inventors: **Gourab Basu**, Half Moon Bay, CA (US); **Michael Mori**, San Mateo, CA (US); **Ross Sakata**, Foster City, CA (US); **Steve Cracknell**, San Mateo, CA (US); **Millie Yee**, Santa Clara, CA (US); **Mark Carlson**, Half Moon Bay, CA (US); **Patrick Stan**, Pacifica, CA (US); **Surendra Keshan**, Cupertino, CA (US); **Edward Katzin**, San Francisco, CA (US)

(58) **Field of Classification Search**  
CPC ..... G06Q 20/385  
USPC ..... 705/67, 17, 44, 64, 71, 78  
See application file for complete search history.

(73) Assignee: **Visa International Service Association**, San Francisco, CA (US)

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 494 days.

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(21) Appl. No.: **13/208,733**

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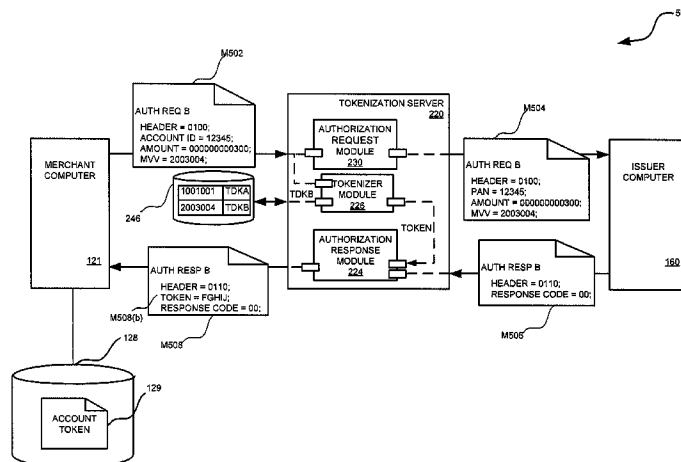
*Primary Examiner* — Steven Kim  
(74) *Attorney, Agent, or Firm* — Kilpatrick Townsend & Stockton LLP

(51) **Int. Cl.**  
*G06Q 20/00* (2012.01)  
*G06Q 20/38* (2012.01)  
*G06Q 20/02* (2012.01)  
*G06Q 20/12* (2012.01)  
*G06Q 20/32* (2012.01)  
*G06Q 20/36* (2012.01)

(57) **ABSTRACT**  
Systems, apparatuses, and methods for providing an account token to an external entity during the lifecycle of a payment transaction. In some embodiments, an external entity may be a merchant computer requesting authorization of a payment message. In other embodiments, the external entity may be a support computer providing a payment processing network or a merchant support functions.

(52) **U.S. Cl.**  
CPC ..... *G06Q 20/385* (2013.01); *G06Q 20/02* (2013.01); *G06Q 20/12* (2013.01); *G06Q*

**21 Claims, 12 Drawing Sheets**



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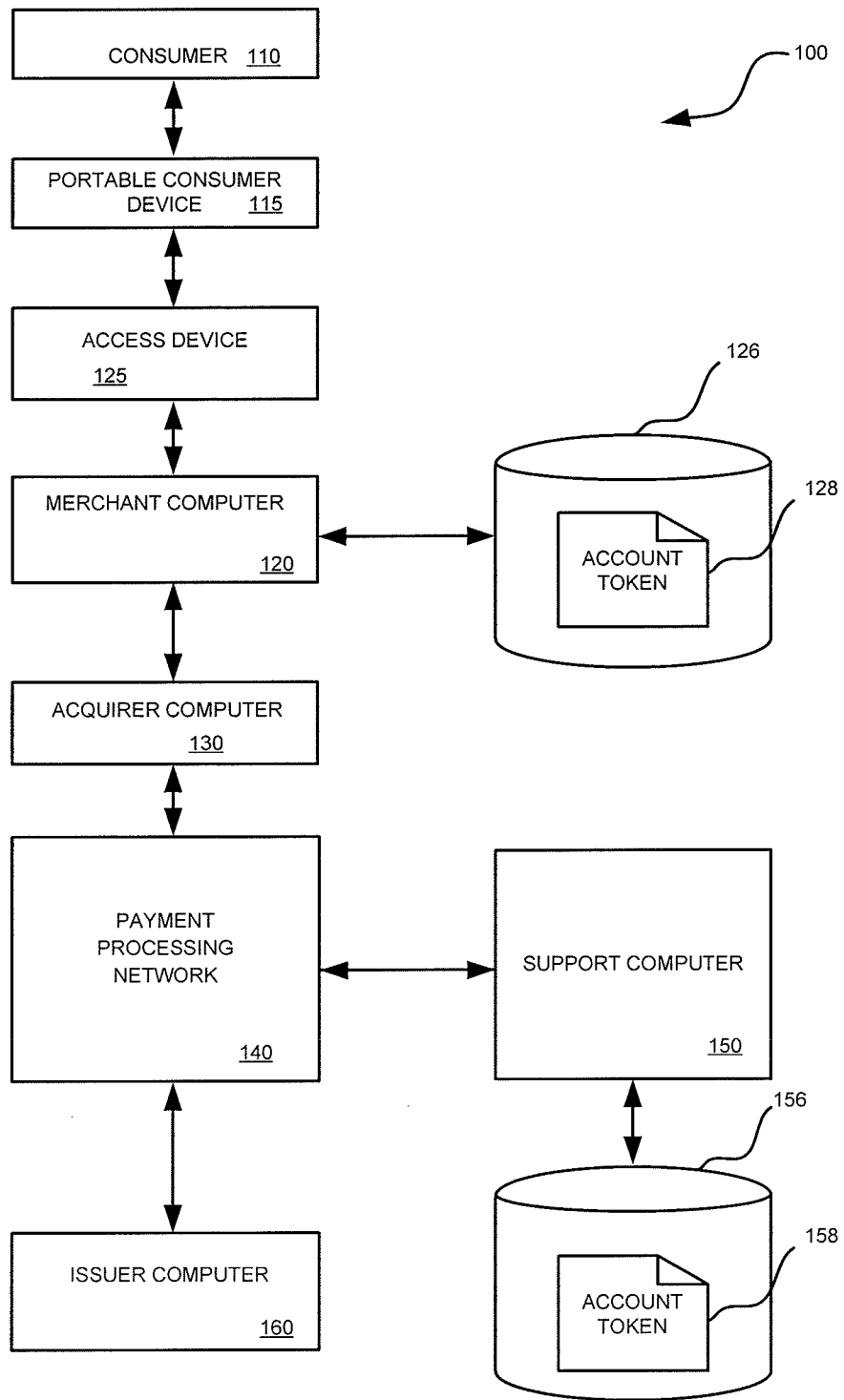


FIG. 1

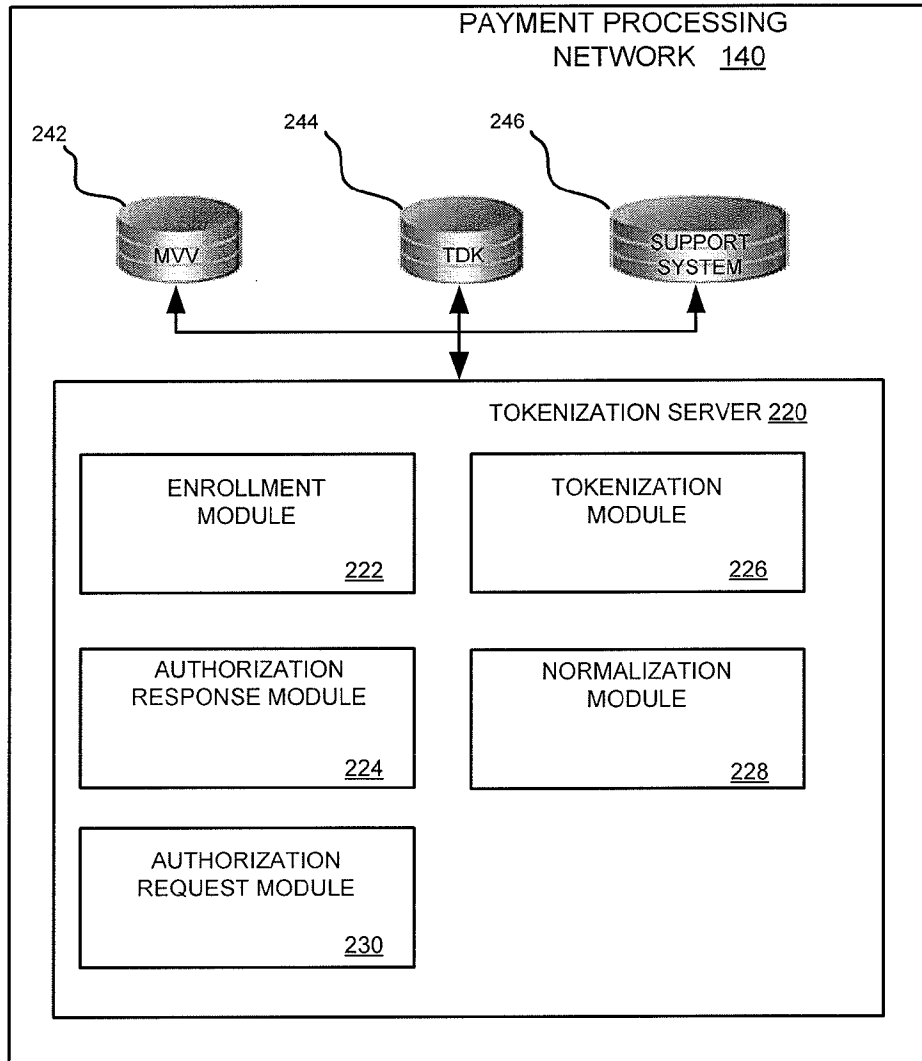


FIG. 2

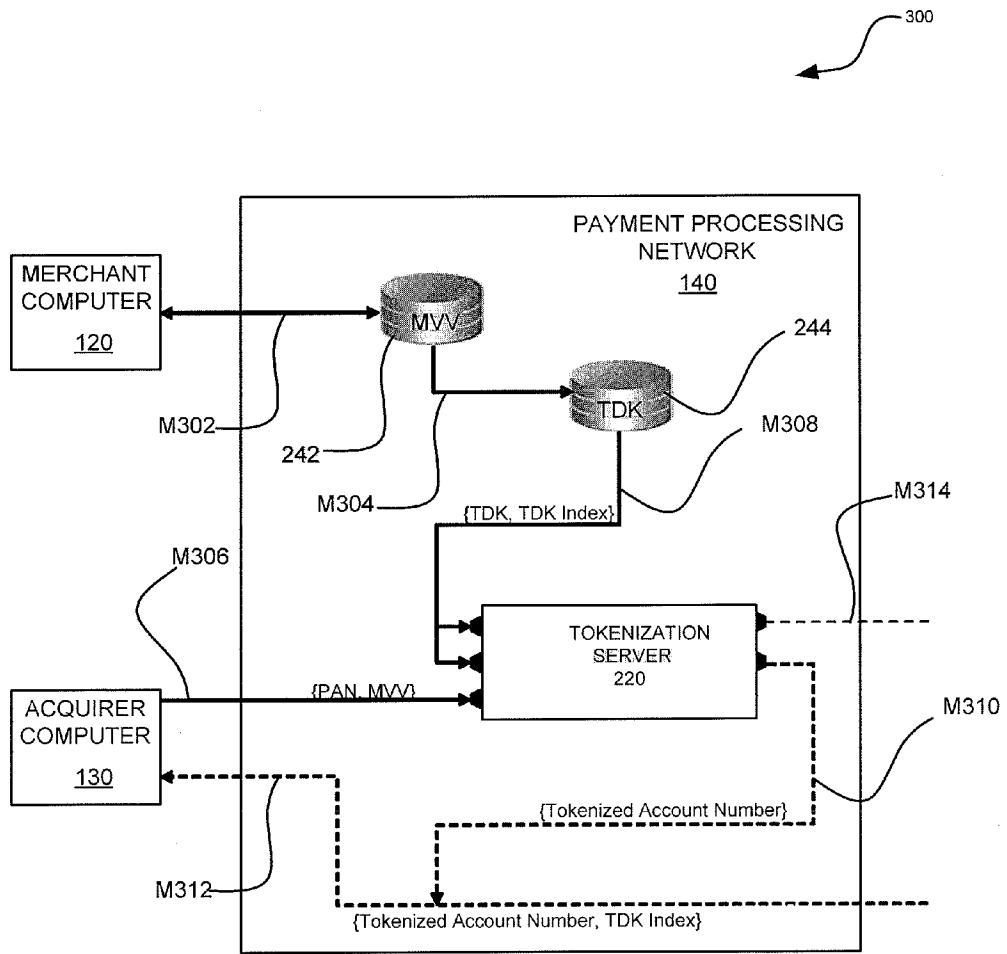


FIG. 3

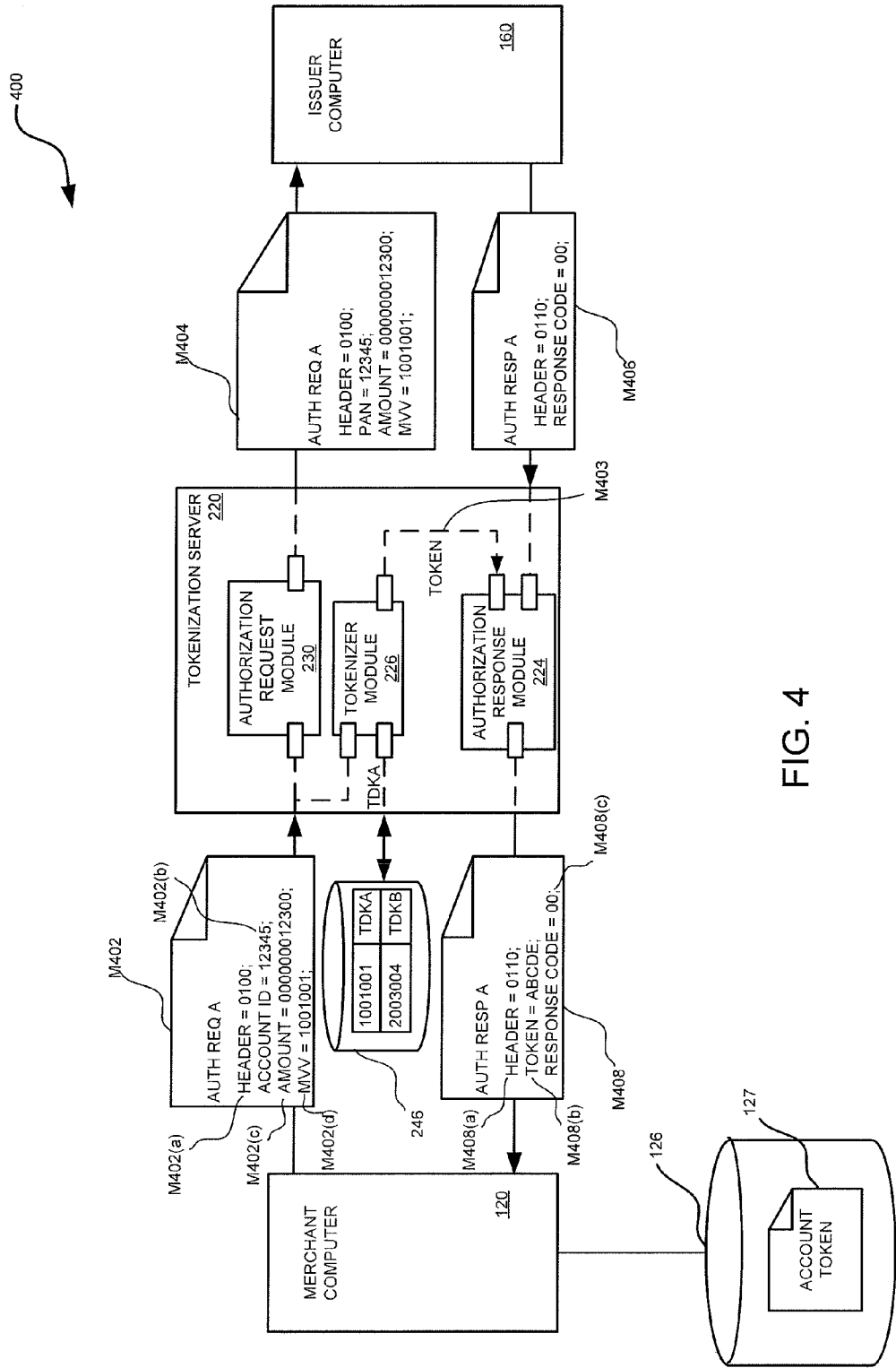


FIG. 4

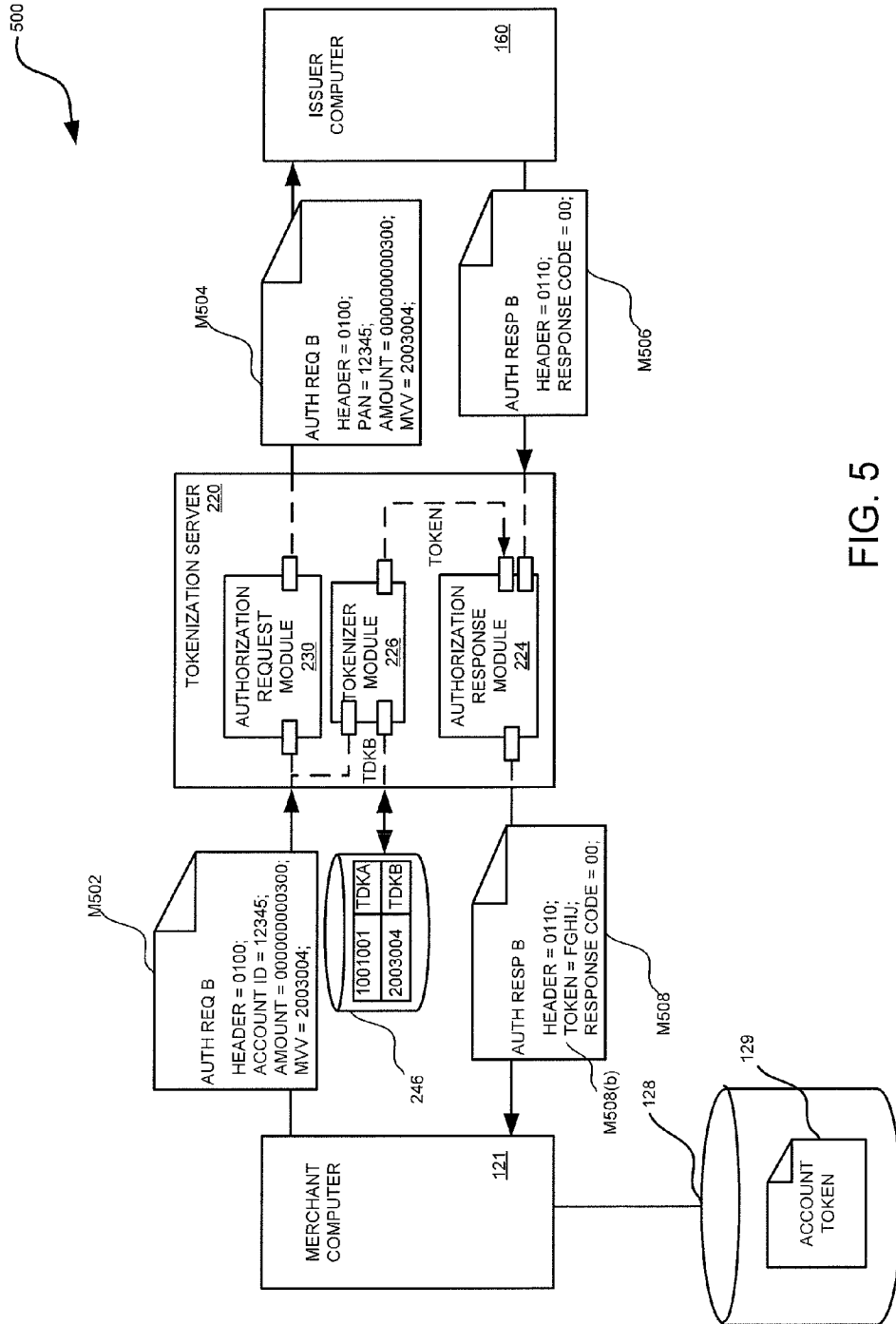
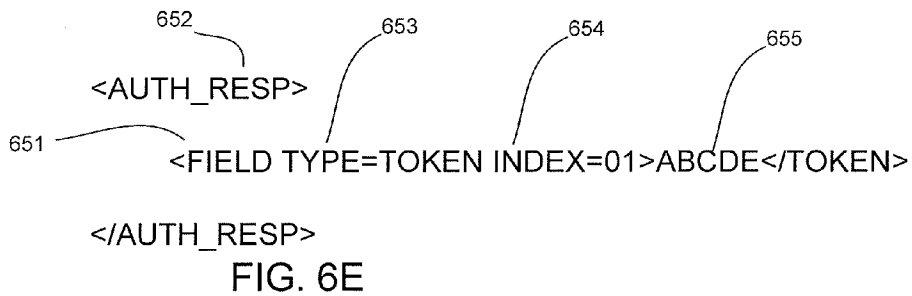
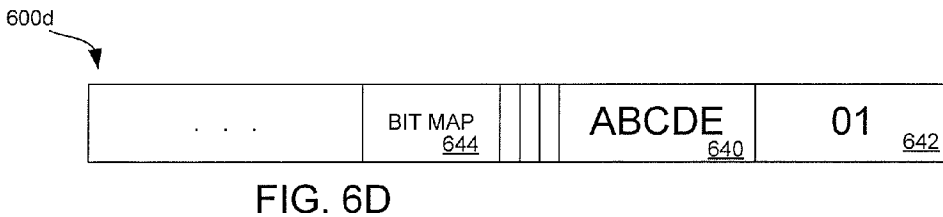
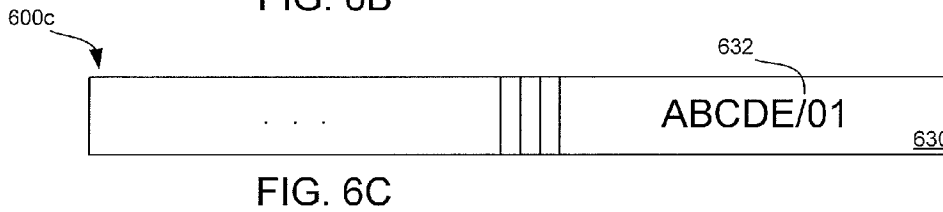
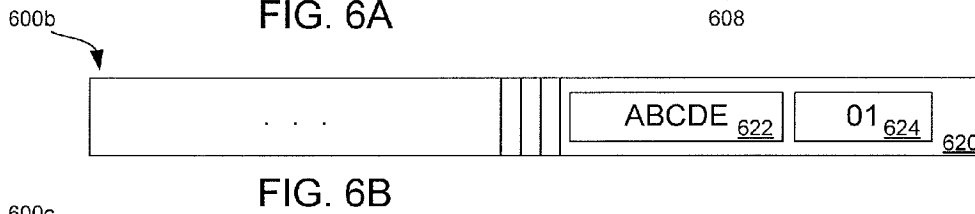
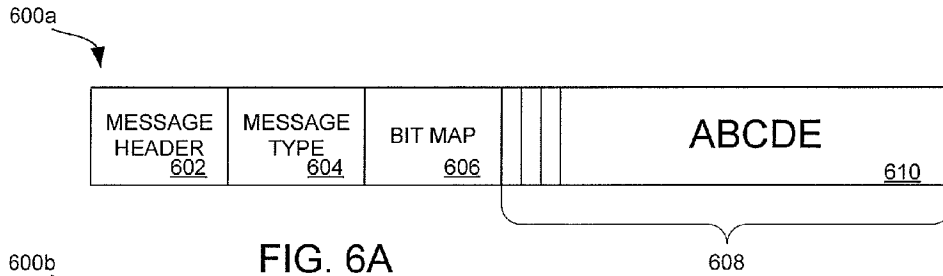


FIG. 5





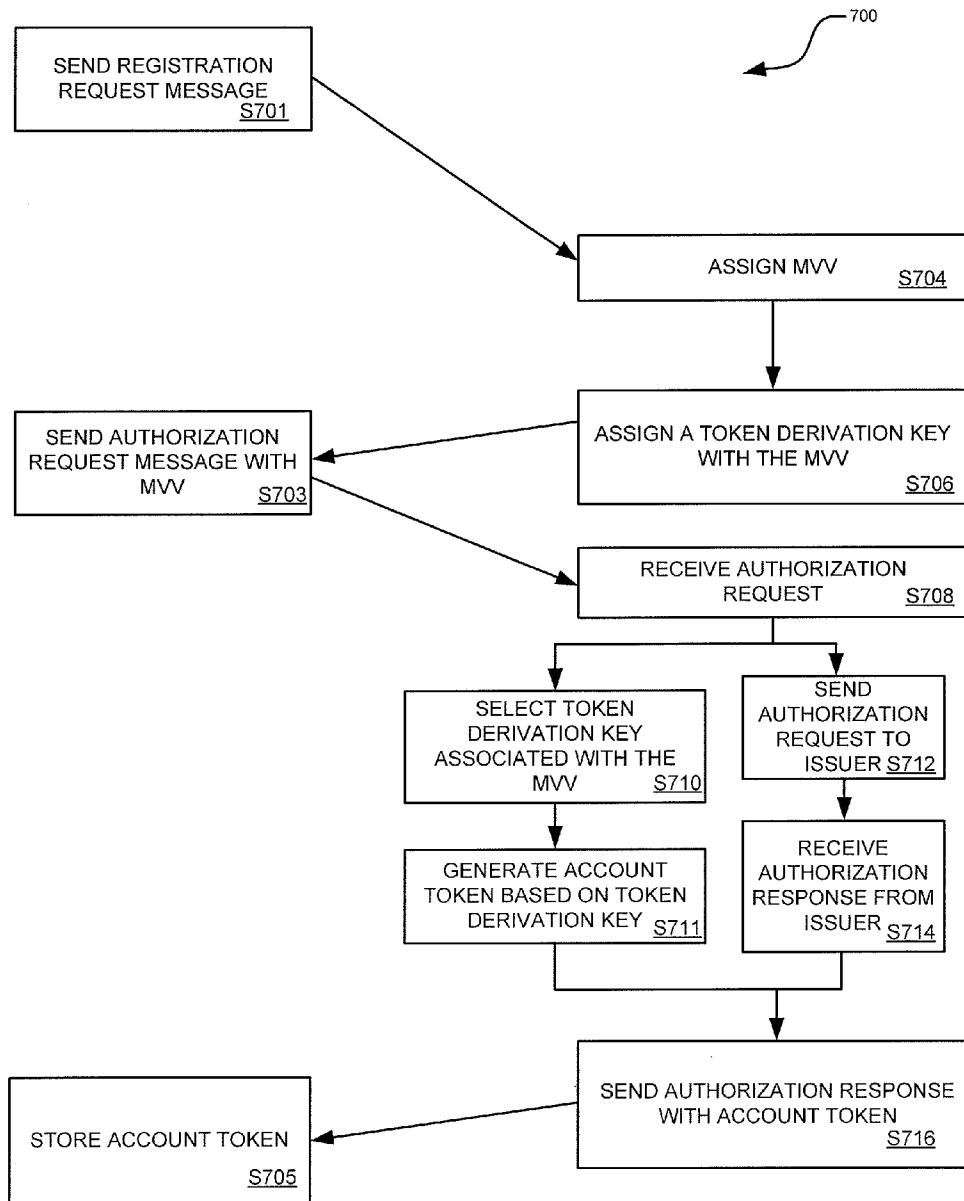


FIG. 7

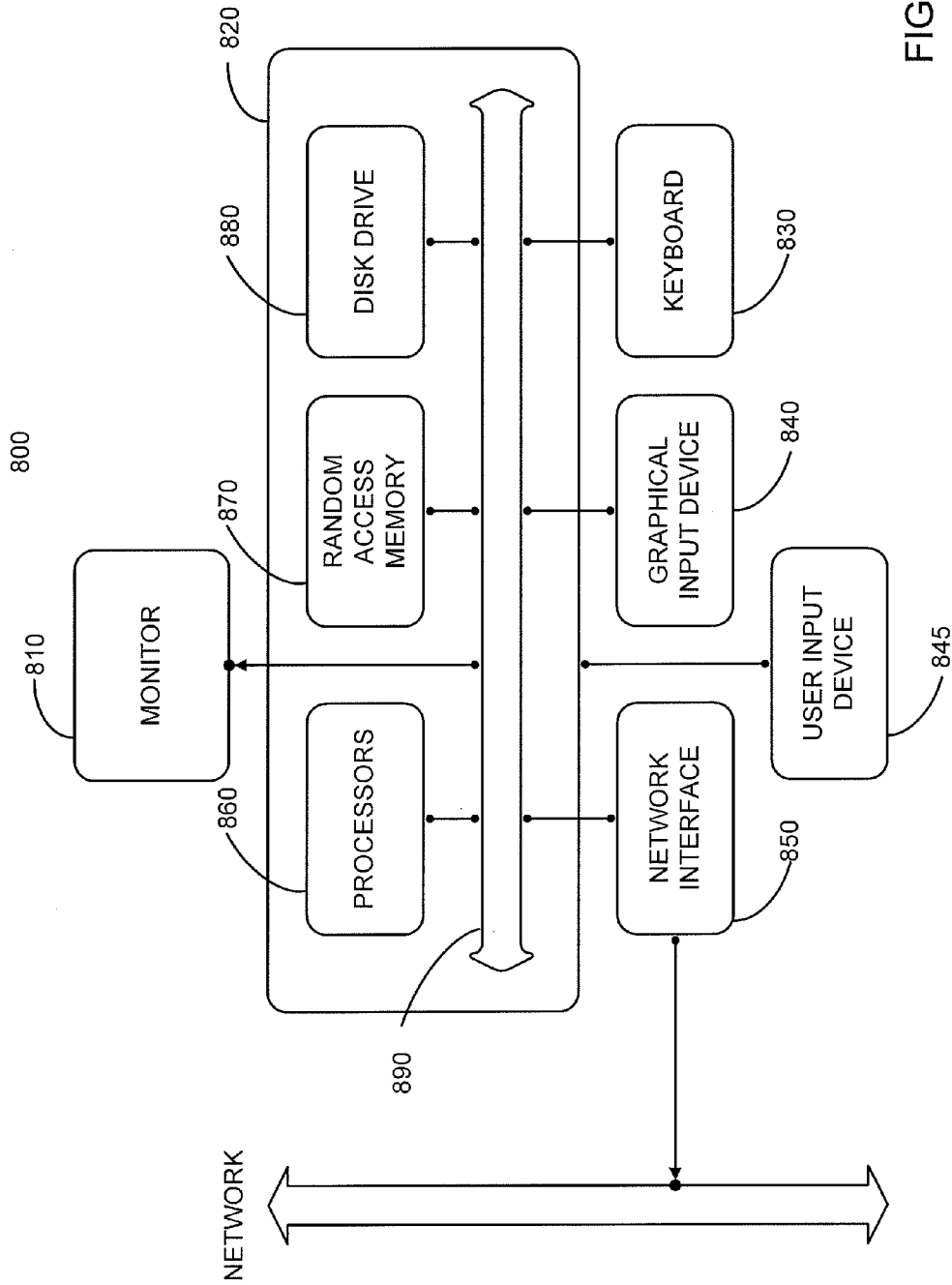


FIG. 8

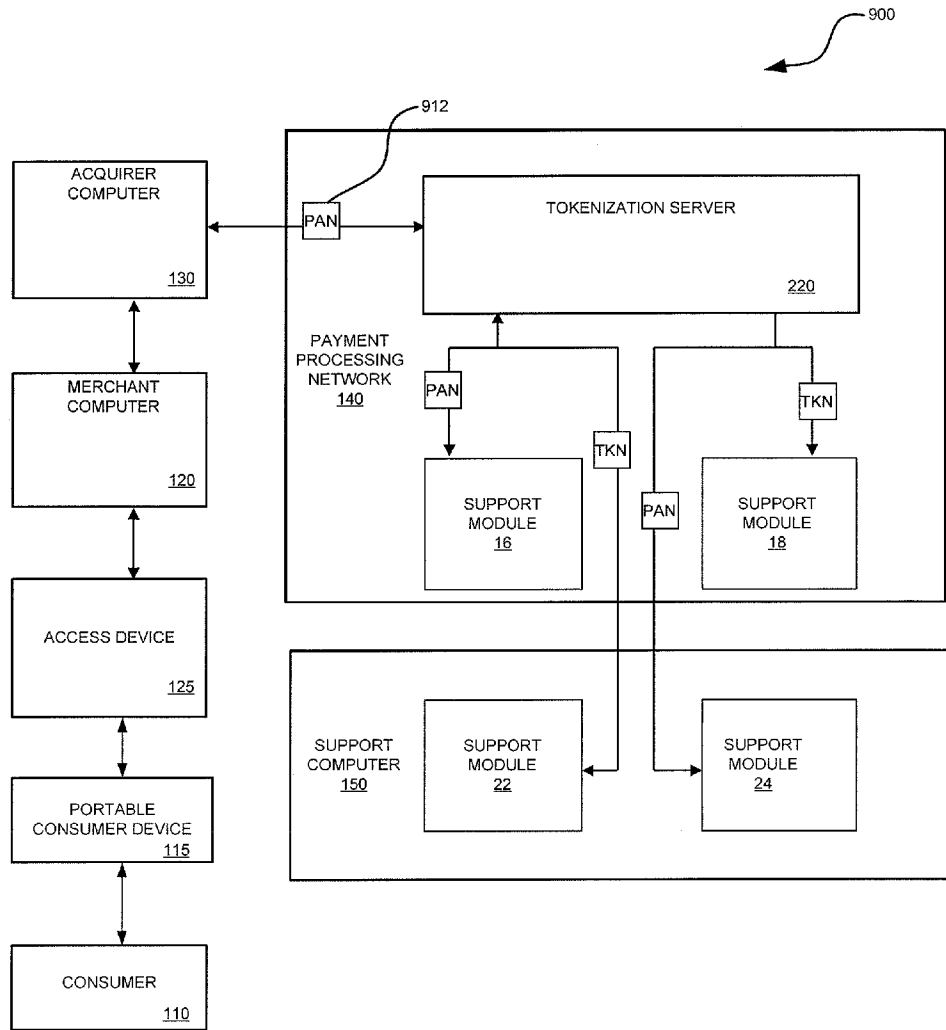


FIG. 9

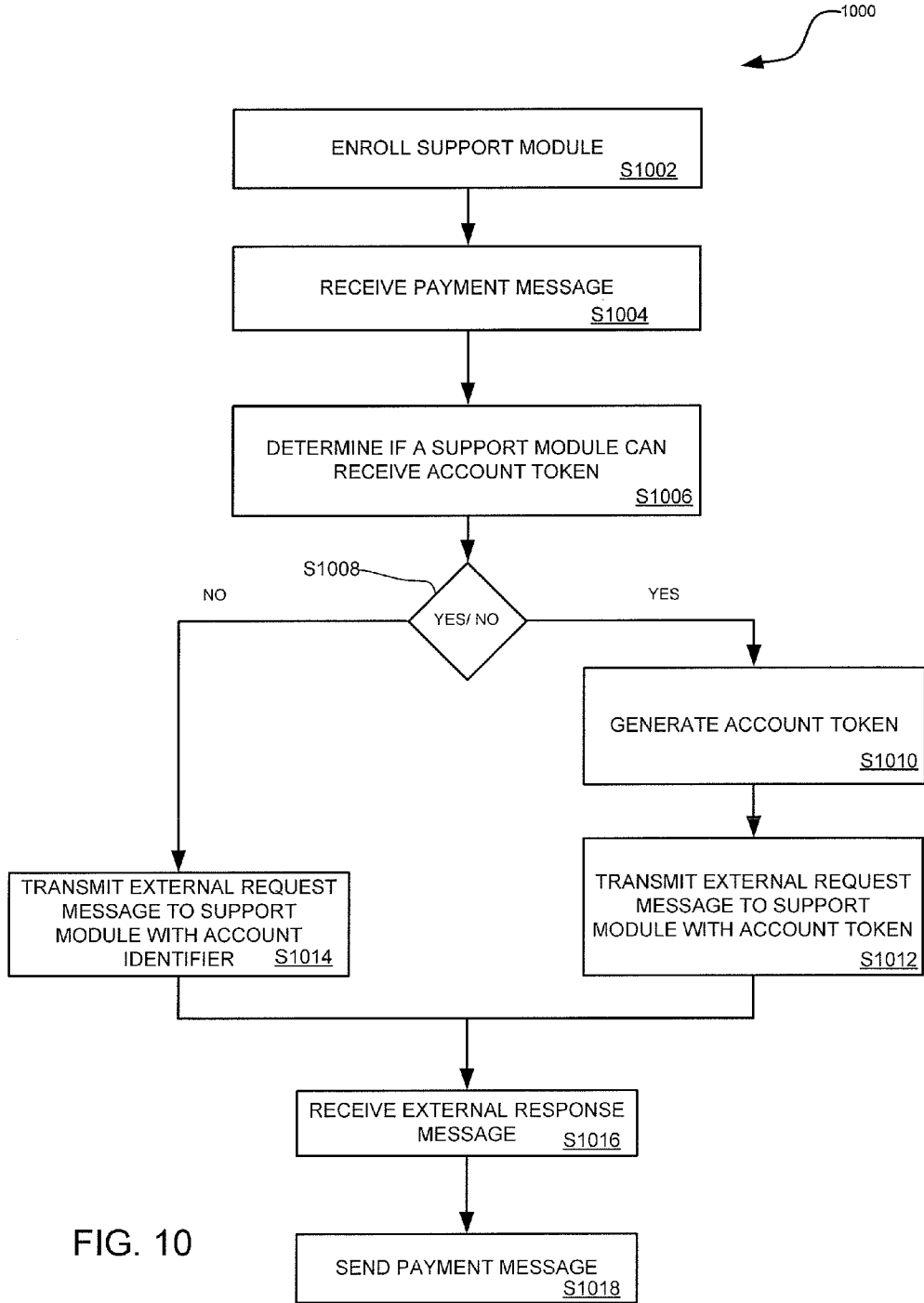


FIG. 10

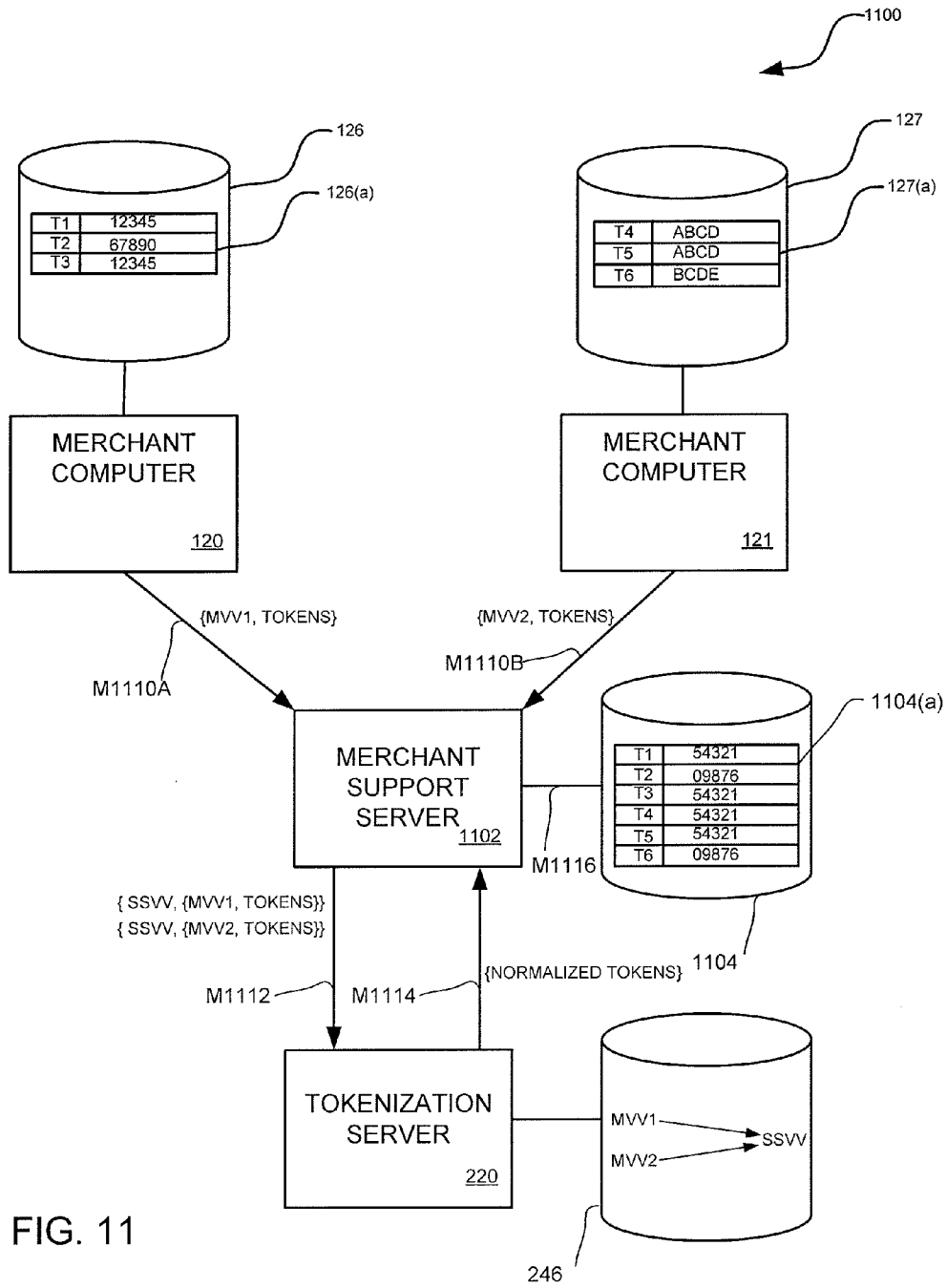


FIG. 11

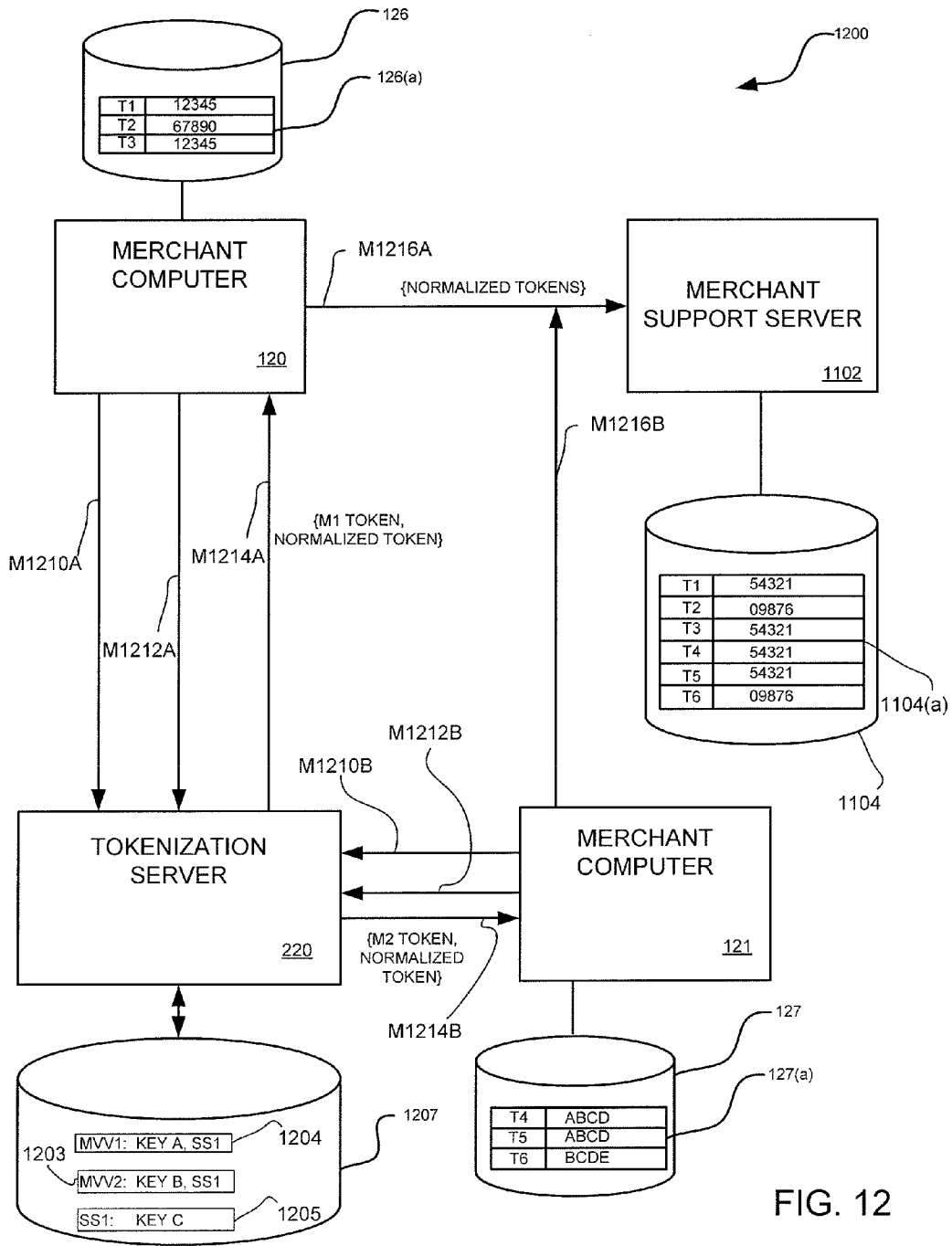


FIG. 12

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## SECURING EXTERNAL SYSTEMS WITH ACCOUNT TOKEN SUBSTITUTION

### CROSS-REFERENCES TO RELATED APPLICATIONS

This application claims the benefit of U.S. Provisional Application No. 61/373,163, filed Aug. 12, 2010, entitled "SECURING SECONDARY SYSTEMS WITH TOKEN PAN SUBSTITUTION," and U.S. Provisional Application No. 61/381,322, filed Sep. 9, 2010, entitled "ACCOUNT NUMBER TOKENIZATION," which are herein incorporated by reference in their entirety for all purposes.

### BACKGROUND

As methods and devices for engaging in financial transactions have increased, old problems of protecting sensitive information persist. For example, one common source of fraud occurs when a hacker gains access to a data center and obtains sensitive information such as credit card numbers and other cardholder data. As another example, an employee entrusted to maintain sensitive information can provide a fraudster access to the cardholder data, either by voluntary act, trick, negligence, or accident.

To protect sensitive information from such fraud, a data center may encrypt the data it stores. For example, a merchant may wish to track financial transactions at one or more stores to gain insight on the purchasing tendencies of its customers. In this example, the merchant may store financial information (e.g., credit card numbers) associated with the purchases. However, because such information is sensitive and could be used to conduct fraudulent transactions, the merchant may secure the credit card numbers it collects by encrypting the credit numbers it stores in its data center.

A merchant processor that performs payment gateway services on behalf of a merchant is another example of a data center. For example, the merchant processor (as provided by CYBERSOURCE™, of Mountain View, Calif.), may receive payment information from a merchant computer, process the payment information into the format of an authorization request message, send the authorization request message to the appropriate payment processing network (as may be offered by VISA™), receive an authorization response message, and route the authorization response message back to the merchant computer so that the merchant can provide a good or service to a customer.

Other examples of data centers include acquirers and acquirer processors. An acquirer is typically a business entity (e.g., a commercial bank) that has a business relationship with a particular merchant. Acquirers may facilitate and manage financial transactions on behalf of merchants. An acquirer processor is typically a transaction processing entity that has a business relationship with a particular acquirer. Acquirer processors may provide merchants with transaction clearing, settlement, billing and reporting services.

In addition to the payment services described above, the acquirer or acquirer processor can also provide a variety of financial reports to the merchants registered for its services. For example, once a transaction has completed, the merchant may request information specifically for that transaction by sending a report request message to the acquirer or acquirer processor. The acquirer or acquirer processor may respond to the report request message by sending full payment information related to the specified transaction to the merchant.

To provide full payment information back to the merchant as part of these financial reports, the acquirer or acquirer

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processor may store the credit card numbers involved in the transactions. Accordingly, the acquirer or acquirer processor can be a form of a data center that stores cardholder information and other sensitive information. For the reasons described above, the acquirer or acquirer processor may protect the cardholder information against potential fraudsters. In one approach, the acquirer or acquirer processor may encrypt the credit card numbers that it receives. Further, to avoid collisions between the credit card numbers, the acquirer or acquirer processor may use an encryption key specific to each merchant when the acquirer or acquirer processor encrypts an account number, for example.

When a data center (e.g., a merchant processor, merchant, acquirer processor, or acquirer) maintains a database of sensitive information, the data center may have to comply with a number regulations. Such regulations attempt to increase controls around cardholder data to reduce credit card fraud via its exposure. For example, the Payment Card Industry Data Security Standard (PCI DSS) is an information security standard for organizations that handle cardholder information for the major debit, credit, prepaid, e-purse, ATM, and POS cards. As part of the PCI DSS, a data center that stores and/or processes cardholder information must ensure that the cardholder data is secured. Further, the data center must perform periodic compliance testing.

As described above, a data center may encrypt cardholder information to comply with the PCI DSS. There are many known methods of encryption. Comparatively secure encryption systems are typically expensive and may consume large portions of a computer system's processing bandwidth.

Embodiments of the invention address the above problems, and other problems, individually and collectively.

### SUMMARY

Embodiments of the present invention can be directed to systems, apparatuses, and methods for providing account tokens to external systems during the lifecycle of a payment transaction. As is explained below, an account token is a sensitive form of an account identifier. Such account tokens can be sent to external entities, such as a merchant or a support computer, during the lifecycle of a transaction.

Some embodiments are directed to a method for providing an account token to a merchant computer. The method may involve a tokenization server receiving an authorization request message sent by a merchant computer. The authorization request message may request authorization for payment of a good or service and may include an account identifier and a merchant verification value. A token derivation key is then selected using the merchant verification value. The tokenization server then uses the token derivation key to generate the account token of the account identifier. The account token is inserted in an authorization response message that is then sent to the merchant computer.

Some embodiments are directed to a server that provides an account token to a merchant computer. The server receives an authorization request message sent by a merchant computer. The authorization request message includes an account identifier and a merchant verification value. The server then selects a token derivation key using the merchant verification value. The server then uses the token derivation key to generate the account token of the account identifier. The account token is inserted in an authorization response message that is then sent to the merchant computer.

Some embodiments are directed to a computer readable medium for performing a method of providing an account token to a merchant computer. The method may involve a

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tokenization server receiving an authorization request message sent by a merchant computer. The authorization request message includes an account identifier and a merchant verification value. A token derivation key is then selected using the merchant verification value. The tokenization server then uses the token derivation key to generate the account token of the account identifier. The account token is inserted in an authorization response message that is then sent to the merchant computer.

Some embodiments are directed to a method for providing an account token to an external entity. The method may involve receiving a payment message that is associated with an account identifier. Then a tokenization server generates an account token of the account identifier associated with the payment message. An external request message with the account token is then transmitted to an external entity. An example of an external entity is a support computer that provides a risk score for a transaction. An external response message is then received. An example of an external response message is a risk score that corresponds to the payment message. After the external response message is received, the account identifier is then determined from the account token.

Some embodiments are directed to a server that provides an account token to an external entity. The server may receive a payment message that is associated with an account identifier. The server then generates an account token of the account identifier associated with the payment message. An external request message with the account token is then transmitted by the server to an external entity. An example of an external entity is a support computer that provides a risk score for a transaction. An external response message is then received by the server. An example of an external response message is a risk score that corresponds to the payment message. After the external response message is received, the account identifier is then determined from the account token.

Some embodiments are directed to a computer readable medium that includes instructions that, when executed by a processor, performs a method for providing an account token to an external entity. The method may involve receiving a payment message that is associated with an account identifier. Then a tokenization server generates an account token of the account identifier associated with the payment message. An external request message with the account token is then transmitted to an external entity. An example of an external entity is a support computer that provides a risk score for a transaction. An external response message is then received. An example of an external response message is a risk score that corresponds to the payment message. After the external response message is received, the account identifier is then determined from the account token.

#### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a block diagram of a system that uses account tokens, according to example embodiments.

FIG. 2 is a block diagram of the components of a payment processing network, according to example embodiments.

FIG. 3 is a block diagram that shows the messages involved in sending an account token, according to example embodiments.

FIG. 4 is a block diagram that shows the messages involved in sending an account token to a first merchant, according to example embodiments.

FIG. 5 is a block diagram that shows the messages involved in sending an account token to a second merchant, according to example embodiments.

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FIGS. 6A, 6B, 6C, 6D, and 6E are diagrams that show various formats of an authorization request message, according to example embodiments.

FIG. 7 is a flow diagram that shows a method for generating an account token, according to example embodiments.

FIG. 8 is a block diagram illustrating the primary functional components of a computer or computing system that may be used to implement an element or component used in some embodiments of the present invention.

FIG. 9 is a block diagram showing account tokens sent to a support computer, according to example embodiments.

FIG. 10 is a flow diagram showing steps for sending an account token to a support computer, according to an example embodiment.

FIG. 11 is a block diagram showing a first technique for normalizing account tokens, according to example embodiments.

FIG. 12 is a block diagram showing a second technique for normalizing account tokens, according to example embodiments.

#### DETAILED DESCRIPTION

Embodiments of the invention relate to methods and systems for mitigating risks associated with transmitting and storing sensitive account identifiers. Particularly, example embodiments of the invention relate to generating an account token at a payment processing network as part of an authorization process involving a merchant computer, an acquirer computer, and/or a support computer.

However, prior to discussing the example embodiments of the invention, a further description of some terms can be provided for a better understanding of embodiments of the invention.

As used herein, an “account identifier” can refer to any information that identifies an account that holds value for a user. An account identifier can be represented as a sequence of characters or symbols. An account identifier is typically provided as part of a transaction, such as a payment transaction, that credits value to the account, debits value to the account, or performs any other suitable action on the account. Credit card numbers, checking and saving account numbers, prepaid account numbers, aliases and/or a passwords, phone numbers, and any other suitable identifier are all examples of account identifiers.

As used herein, an “account token” can refer to the result of transforming an account identifier into a form that is not considered sensitive in the context of the environment in which the account token resides. A “tokenization algorithm” can refer to the sequence of steps used to transform an account identifier into an account token. Still further, a “reverse tokenization algorithm” can refer to the sequence of steps used to transform the account token back to the account identifier. The tokenization algorithm may replace sensitive data, or portions thereof, with a value that is not considered sensitive.

As used herein, a “token derivation key” can refer to any piece of information that is used as a parameter of a tokenization algorithm. The token derivation key can be used to vary the output of a tokenization algorithm. In some embodiments, a token derivation key is symmetric as the same token derivation key is used for both tokenization and reverse tokenization. In other embodiments, a token derivation key is asymmetric as the token derivation key used to tokenize an account identifier is not used in the reverse tokenization algorithm. Instead, a second token derivation key is used in the reverse tokenization.



An “authorization request message” can refer to a message, or sequence of messages, that requests an issuer of the payment card to authorize a transaction. An authorization request message according to an embodiment of the invention may comply with ISO (International Organization for Standardization) 8583, which is a standard for systems that exchange electronic transactions made by cardholders using payment cards. An authorization request message according to other embodiments may comply with other suitable standards.

An “authorization response message” can refer to a message, or sequence of messages, that responds to a merchant’s and/or acquirer’s request to authorize a transaction. An authorization response message according to an embodiment of the invention may comply with ISO 8583, which, as described above, is a standard for systems that exchange electronic transactions made by cardholders using payment cards. An authorization response message according to other embodiments may comply with other suitable standards.

A “merchant verification value” may refer to any information that identifies a merchant as a participant in a service or program. As an example, a merchant verification value may be assigned to a business, person, or organization that has agreed to accept payment cards when properly presented by the cardholder. A merchant verification value can be any combination of characters and/or symbols. Further, a merchant verification value can be transmitted to a payment processing network as part of an authorization request message.

A “support system verification value” may refer to any information that identifies a support system as a provider of a service or program. As an example, a support system verification value may be assigned to a web service that provides a fraud score for a transaction. As another example, a support system verification value can be assigned to an alert web service that sends a message to a consumer’s communication device (e.g., mobile phone) when one or more conditions applied. Such a message can be for a coupon or an alert that a transaction or activity has occurred with regard to a particular account. A support system verification value can be any combination of characters and/or symbols. Further, in some embodiments, a support system verification value can be transmitted to a payment processing network as part of an authorization request message.

A “verification value,” as used herein, can refer to a merchant verification value, a support system verification value, or some combination thereof.

Generally, embodiments relate to apparatuses, systems, and methods of securing sensitive data. In particular, some embodiments improve security of a data center that stores, for example, account identifiers by communicating account tokens from a tokenization server to external entities (e.g., merchant computers or a support computers). Further, in some embodiments, the account tokens communicated to the external entity is generated specific for the external entity. For example, when a merchant is enrolled with a tokenization service, the merchant is assigned a merchant verification value and token derivation key. Thereafter, subsequent communications between a merchant computer and a tokenization server may cause the tokenization server to generate an account token specific to the merchant by using the assigned token derivation key.

To illustrate, when a consumer swipes a credit card at a merchant’s store to purchase an item, a bank associated with the merchant may send an authorization request message with a particular account identifier and the merchant verification value assigned to the merchant to the payment processing network. In generating an authorization response message, a tokenization server associated with the payment processing

network may select the token derivation key assigned to the merchant (as may be determined by matching a merchant verification value included in the authorization request message to a previously assigned token derivation key) and then generate an account token of the account identifier using the token derivation key. The account token is then inserted in the authorization response message, which is then sent back to the merchant via the bank.

A similar technique can be used to communicate account tokens to support systems, as is further described below.

By communicating an account token to the merchant, example embodiments can provide comparatively secure communication and comparatively secure storage for sensitive information, such as the cardholder data (e.g., credit card number) and other financial information. For example, if a fraudster hacks into the merchant’s systems, the account tokens of the account identifiers stored by the merchant will not be useful to the fraudster because the account tokens can not be used alone to conduct financial transactions. That is, the fraudster will be unable to use the account tokens to perform financial transactions.

In some embodiments, a merchant and/or support system does not have access to the reverse token derivation keys needed to transform the account tokens to the corresponding account identifiers. Instead, a tokenization server stores the reverse token derivation keys. Therefore, the risk of compromised cardholder data is further limited in that a fraudster may have to breach the merchant and/or support system to obtain the account tokens and may also have to breach the tokenization server to obtain the reverse token derivation keys. Furthermore, even if the account tokens are compromised for a particular merchant and/or support system (e.g., if the fraudster obtains both the account tokens and reverse token derivation keys), the account tokens for other merchants and/or support systems may remain inaccessible to the fraudster.

Still further, because an account token is received in the authorization response message in addition to or in lieu of the actual account identifier, the apparatuses, methods, and systems described herein also reduce merchant post-processing efforts needed to support encryption or hashing of the account numbers after the authorization response message is received.

As a further advantage, the merchant can use the tokenized account identifier to conduct customer analytics in lieu of the original card identifier. Once the card account numbers are removed from the merchant’s systems (often during or after the daily batch sales draft clearing process), the merchant can retain the tokenized account identifier for future analytics and customer tracking, while simultaneously complying with security standards (such as Payment Card Industry Data Security Standard (PCI DSS)) and reducing risk of damaging data breaches. For example, in order to maximize sales, merchants often have the need to perform customer activity tracking and segmentation/spend analyses using sales history. However, using the account identifier to identify customers requires long-term storage of cardholder account identifiers, potentially leading to increased data breach risk and security standards non-compliance. Embodiments of the invention provide a method to tokenize the account identifier so that it can be used in lieu of the actual account identifier to perform merchant customer analytics.

In another example, embodiments of the invention may facilitate customer analytics that allow merchants to measure velocity of purchases (e.g., if five transactions occur within a relatively short time period over a disperse geographic area). Based on an application observing the account tokens, the merchant may deny selected transactions if the merchant

detects a suspicious velocity pattern, even if the transaction is authorized by the payment processing network.

In another example, embodiments of the invention may facilitate customer analytics that allow merchants to measure the velocity of purchases to provide various customer loyalty services. For example, based on an application observing the account tokens, the merchant may provide a benefit to repeat customers (e.g., if a customer purchases the same product on five occasions, the merchant can provide the customer with an additional product at no cost).

#### I. Exemplary Payment System

Example embodiments are typically implemented in the context of a payment transaction. Therefore, prior to further discussing the use of a tokenization server configured to provide account tokens, a brief description of standard consumer purchases will be presented.

An exemplary system **100** for embodiments of the invention can be seen in FIG. 1. For simplicity of discussion, only one of each component is shown. It is understood, however, that embodiments of the invention may include more than one of each component. In addition, some embodiments of the invention may include fewer than all of the components shown in FIG. 1. Also, the components in FIG. 1 may communicate via any suitable communication medium (including the internet), using any suitable communication protocol.

FIG. 1 shows a system **100** that can be used in an embodiment of the invention. The system **100** includes a merchant computer **120** and an acquirer computer **130** communicatively coupled to the merchant computer **120**. In a typical payment transaction, a consumer **110** may purchase goods or services at a merchant associated with the merchant computer **120** using a portable consumer device **115**. The acquirer computer **130** can communicate with an issuer computer **160** via a payment processing network **140**.

The consumer **110** may be an individual, or an organization such as a business that is capable of purchasing goods or services.

The portable consumer device **115** may be in any suitable form. For example, suitable portable consumer devices can be hand-held and compact so that they can fit into a consumer's wallet and/or pocket (e.g., pocket-sized). The portable consumer device **115** can include a processor, and memory, input devices, and output devices, operatively coupled to the processor. Specific examples of portable consumer devices include cellular or wireless phones, personal digital assistants (PDAs), pagers, portable computers, smart cards, and the like. The portable consumer devices can also be debit devices (e.g., a debit card), credit devices (e.g., a credit card), or stored value devices (e.g., a pre-paid or stored value card).

The payment processing network **140** may include data processing subsystems, networks, and operations used to support and deliver authorization services, exception file services, and clearing and settlement services. An exemplary payment processing network may include VisaNet™. Payment processing networks such as VisaNet™ are able to process credit card transactions, debit card transactions, and other types of commercial transactions. VisaNet™, in particular, includes a VIP system (Visa Integrated Payments system) which processes authorization request messages and in some instances also performs clearing services, and a Base II system which performs clearing services in instances when it is not performed by the VIP system.

The payment processing network **140** may include a server computer. A server computer is typically a powerful computer or cluster of computers. For example, the server computer can be a large mainframe, a minicomputer cluster, or a group of servers functioning as a unit. In one example, the

server computer may be a database server coupled to a Web server. The payment processing network **140** may use any suitable wired or wireless network, including the Internet.

The merchant computer **120** may also have, or may receive communications from, an access device **125** that can interact with the portable consumer device **115**. The access devices **125** according to embodiments of the invention can be in any suitable form. Examples of access devices include point of sale (POS) devices, cellular phones, PDAs, personal computers (PCs), tablet PCs, handheld specialized readers, set-top boxes, electronic cash registers, automated teller machines (ATMs), virtual cash registers, kiosks, security systems, access systems, and the like.

If the access device **125** is a point of sale terminal, any suitable point of sale terminal may be used including card or phone readers. The card or phone readers may include any suitable contact or contactless mode of operation. For example, exemplary readers can include RF (radio frequency) antennas, magnetic stripe readers, etc. to interact with the portable consumer devices **115**.

In a typical purchase transaction, the consumer **110** purchases a good or service at the merchant associated with the merchant computer **120** using the portable consumer device **115** such as a credit card or mobile phone. The consumer's portable consumer device **115** can interact with an access device **125** such as a POS (point of sale) terminal communicatively coupled to the merchant computer **120**. For example, the consumer **110** may swipe the credit card through a POS terminal or, in another embodiment, may take a wireless phone and may pass it near a contactless reader in a POS terminal.

An authorization request message may then be forwarded by the merchant computer **120** to the acquirer computer **130**. After receiving the authorization request message, the authorization request message may then be sent to the payment processing network **140**. The payment processing network **140** may then forward the authorization request message to the issuer computer **160** associated with the portable consumer device **115**.

As shown in FIG. 1, the payment processing network **140** can be communicatively coupled to a support computer **150**. The support computer **150** can perform functions that support or supplement the authorization process. Fraud scoring system, alert systems, reporting systems, etc are examples of support computers, according to various embodiments.

After the issuer computer **160** receives the authorization request message, the issuer computer **160** may send an authorization response message back to the payment processing network **140** to indicate whether or not the current transaction is authorized (or not authorized). The transaction processing system **140** may then forward the authorization response message back to the acquirer computer **130**. The acquirer computer **130** may then send the response message back to the merchant computer **120**.

After the merchant computer **120** receives the authorization response message, the access device **125** communicatively connected to the merchant computer **120** may then provide the authorization response message for the consumer **110**. The authorization response message may be displayed by the POS terminal, or may be printed out on a receipt.

During the lifecycle of a transaction, the payment processing network **140** may generate account tokens of the account identifiers sent in the authorization request message. In some embodiments, an account token **128** can be generated and sent to the merchant computer **120** and/or the acquirer computer **130**. The merchant computer **120** and/or acquirer computer **130** can store the account token **128** in account token

database **126**. In other embodiments, an account token **158** can be generated and sent to a support computer **150**. The support computer **150** can store the account token **158** in account token database **156**.

At the end of the day, a normal clearing and settlement process can be conducted by the payment processing network **140**. A clearing process is a process of exchanging financial details between an acquirer and an issuer to facilitate posting to a consumer's account and reconciliation of the consumer's settlement position. During the clearing process, the acquirer computer **130** can send the account token **128** to the payment processing network **140**. The payment processing network **140** may then use the reverse token derivation key for the particular merchant to retrieve the corresponding account identifier. The payment processing network **140** can send the account identifier to the issuer computer **160** to perform clearing and settlement. In some embodiments, clearing and settlement can occur simultaneously.

Once clearing and settlement are performed, the merchant computer **120** may remove the account identifiers stored in their systems. In other embodiments of the invention, as described herein, the merchant computer **120** can receive account tokens in lieu of account identifiers, thus eliminating the need to remove account identifiers stored in the merchant's systems. As an advantage of embodiments of the invention, the merchant computer **120** may retain the account tokens, thereby allowing customer analytics, as described above.

## II. Tokenization Server

FIG. 2 is a block diagram that shows components of the payment processing network **140**, according to embodiments of the invention. As shown, the payment processing network **140** includes a tokenization server **220**. The tokenization server **220** may be embodied by one or more computational apparatuses, which can perform the methods and process described herein. Typically, the tokenization server **220** is a computer or cluster of computers that behave as a single computer. For example, the tokenization server **220** can be a mainframe computer, a personal computer, a microprocessor, or some combination thereof. In another example, the tokenization server **220** may include one or more database servers and one or more Web servers. The tokenization server **220** may service the requests of one or more client computers.

The tokenization server **220** may include an enrollment module **222**, an authorization response module **224**, a tokenization module **226**, a normalization module **228**, and an authorization request module **230**.

The enrollment module **222** may receive requests for enrolling external entities, such as merchants and support systems, in the tokenization service provided by the payment processing network **140**. In some embodiments, the enrollment module **222** may assign an identifier to an external entity that is successfully enrolled in the tokenization service. For example, a merchant may be assigned a merchant verification value which is sent in subsequent authorization request messages sent to the payment processing network. The merchant verification values assigned to merchants can be stored in MVV database **242**. Alternatively, a support system may be assigned a support system verification value that uniquely identifies the support system. The support system verification values assigned to support systems can be stored in support system database **246**.

The authorization response module **224** performs a number of functions related to inserting account tokens into messages communicated between the payment processing network **140** and merchants, issuers, and acquirers. For example, according to one embodiment, the payment processing network **140**

receives an authorization response messages from an issuer, processes the received authorization response message, and sends the processed authorization response message to the appropriate merchant and/or acquirer. Inserting an account token into the authorization response message by the authorization response module **224** is an example of one type of processing the payment processing network **140** performs. The authorization response module **224** can receive account tokens from the tokenization module **226**.

The tokenization module **226** may generate the account tokens that are used in the embodiments described herein. In one embodiment, the tokenization module **226** generates account tokens based on a merchant verification value received in an authorization request message. For example, the tokenization module **226** may use the merchant verification value as an index into a token derivation key database (as is discussed below) to obtain a token derivation key assigned to the merchant. Once the token derivation key is obtained, the tokenization module **226** can then generate the account token by applying the account identifier to an encryption or hash function, with the merchant's token derivation key as a parameter. This and other techniques are described in greater detail below.

The normalization module **228** may provide facilities that allow the payment processing network **140** to transform an account token from a first account token form to a second account token form. Such may be an advantage for comparing the account tokens received by two or more merchants. This is because the account tokens generated by the tokenization module **226** are merchant specific. As explained below, the normalization module **228** may provide a scheme for generating an account token common to one or more merchants to provide for comprehensive analytics and services, as may be provided by merchant support systems.

The authorization request module **230** may perform a number of functions related to receiving and forwarding authorization request messages. As part of receiving an authorization request message, the authorization request module **230** may forward the authorization request message to the issuer computer **160** or to the support computer **150**. Alternatively, the payment processing network **140** can forward the authorization request message to the issuer computer **160** or to the support computer **150** without using the authorization request module **230**.

Further, the tokenization server **220** may have access to one or more databases of information. As shown in FIG. 2, the tokenization server **220** may have access to a MVV database **242**, a TDK database **244**, and a support system database **246**. The MVV database **242** can store merchant verification values that are assigned to merchants that enroll in the tokenization services. As discussed above, a merchant verification value is one example of a merchant identifier and other suitable identifiers can also be used in other embodiments of the invention.

The TDK database **244** may store the token derivation keys that are assigned to merchants enrolled in the tokenization services. As described above, a token derivation key can be in any number of suitable forms using, for example, symmetrical or asymmetrical key algorithms. Further, as described above, in some embodiments, the tokenization server **220** can update the token derivation key assigned to a merchant at various points in time. For example, the tokenization server **220** may update a merchant's token derivation key if a fraudster compromises the account token data stored at a merchant. To provide such dynamic updates, the TDK database **244** can associate a token derivation key index with the assigned token derivation key.

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The support system database **246** may store information regarding the support systems communicatively coupled to the payment processing network. For example, each support system may be assigned a unique support system verification value at the time that the support system is deployed or, in some embodiments, the support system may perform an enrollment process. Additionally, the support system database **246** may store information on whether the support system is capable of receiving account tokens rather than the account identifiers. In this way, the process of connecting support systems to the payment processing network can be achieved dynamically. Such dynamic connections can be implemented according to various system architectures, such as a directory service, event based systems, or any other scalable architecture.

### III. Provisioning Account Tokens to External Parties

As described above, some embodiments of the present invention relate to a tokenization server that generates account tokens of account identifiers for merchants. Other embodiments of the present invention relate to a tokenization server that generates account tokens of account identifiers for support systems of a payment processing network. Further, there are still other embodiments where the tokenization server provides facilities for providing account tokens to a support system of one or more merchants. These various embodiments are described separately below. In particular, Section IV describes various embodiments for generating and sending account tokens to merchants, Section V describes various embodiments for generating and sending account tokens to support systems of the payment processing network, and Section VI describes various embodiments for generating and sending account tokens to merchant support systems.

### IV. Provisioning Account Tokens to Merchants

FIG. 3 is a block diagram that illustrates a simplified system **300** that provides account tokens to merchants. In particular, the system includes a first facility for registering a merchant and a second facility for sending an account token in an authorization response message that was generated in response to an authorization request message. The operation of the system **300** is described with reference to FIG. 7, which shows a flow diagram for a method **700** of sending an account token to a merchant.

#### A. Merchant Registration

In some embodiments, the merchant computer **120** may transmit a registration request message **M302** to the tokenization server **220**. This is shown as step **S701** of FIG. 7. The registration request message may include registration information, such as a merchant name, merchant category type, merchant location, contact information, account information, and any other suitable information. The registration information may be transmitted via offline communication channels (e.g., via a telephone) or online communication channels (via software interfaces communicating over the network, for example).

Responsive to receiving the registration request message **M302**, the payment processing network **140** may assign the merchant a merchant verification value (MVV), if a MVV is not already assigned. With respect to FIG. 7, this is shown as step **S704**. The MVV may be used by the payment processing network **140** to identify the merchant and information corresponding to the merchant. The MVV can be generated and maintained by the payment processing network **140** in MVV database **242** to identify the merchant. The payment processing network **140** may communicate the assigned MVV to the merchant.

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In addition to assigning the MVV, the payment processing network **140** may generate a token derivation key (TDK) corresponding to the merchant and/or the MVV (message **M304**). With regard to FIG. 7, this is shown as step **S706**. As described above, and further explained below, the TDK may be a piece of information used by the tokenization module **226** to generate an account token. The payment processing network **140** may assign a unique TDK for each merchant registered in the tokenization service. In an example embodiment, the payment processing network **140** may store and maintains the TDK in database **244**.

By assigning the TDK to the MVV, the payment processing network **140** provides an additional layer of security to the tokenization algorithm. To illustrate, in the event that a fraudster is able obtain the TDK assigned to merchant **120**, the account token databases maintained by other merchants will be secure. Such is the case because the TDK of one merchant can not be used to reverse tokenize the account tokens generated for other merchants.

In addition to generating the TDK, some example embodiments may generate a TDK index associated with the TDK. The TDK index may allow identification of a particular TDK for those embodiments that may generate multiple or subsequent TDKs for a given MVV. The TDK index and supporting multiple TDKs per merchant are described further below.

A merchant may only need to register once, and after completion of the registration process, subsequent communications with the merchant and or the acquirer of the merchant may include the account token rather than the less secure account identifier, as will be further described below.

#### B. Authorization

Once a merchant is registered in the tokenization service, a payment processing network may transmit an account token in communications exchanged with the merchant and/or acquirer. One situation that the payment processing network may transmit the account token to the merchant and/or acquirer is in the authorization process, for example, when a consumer's credit card is swiped at a POS terminal located at the merchant site. When the consumer's credit card is swiped, the acquirer computer **130** may transmit an authorization request message **M306** to the payment processing network **140**. This is shown as step **S703** of FIG. 7. The authorization request message may be in the form of a typical authorization request message, wherein the authorization request message may include the account identifier and the MVV assigned to the merchant (e.g., as may be stored in fields 2 and 62.20 of an ISO 8583 message, respectively).

Once the authorization request message is received by the payment processing network **140** (step **S708** of FIG. 7), the payment processing network **140** may use the MVV stored in the authorization request message **M306** to retrieve information related to the merchant. As an example, upon receipt of the authorization request message **M306**, the payment processing network **140** may utilize the MVV included in the authorization request message to determine if the merchant participates in the tokenization service. If so, the payment processing network **140** can retrieve the TDK associated with the MVV (step **S710** of FIG. 7) and send the card account identifier and the TDK to a tokenization module **226**. This is shown as message **M308**. The tokenization module **226** may use the TDK to generate an account token based on the token derivation key (step **S711** of FIG. 7). The tokenization module **226** may ensure that the account token is unique for each account identifier, and may guarantee that the same account identifier will generate the same account token when the same

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TDK is used. The tokenizing function may also prevent, absent the TDK, recovery of the account identifier from the account token.

In example embodiments, the TDK assigned to merchant computer 120 is securely housed in the payment processing network 140, and is not communicated or otherwise known to external parties. However, if the TDK is somehow compromised for a specific merchant (e.g., the merchant associated with merchant computer 120), the payment processing network 140 may generate a new TDK for the specific merchant and link the generated TDK with a TDK index. In an example embodiment of the invention, the first generated TDK may be linked with a beginning index (e.g., zero or one) and each successive TDK index generated by the payment processing network may be incremented by a determinable number, such as one. Thus, the TDK index linked to the merchant's original TDK may have the value of zero, the second TDK may be linked with a TDK index with a value of one, the third TDK may be linked with a TDK index with a value of two, and so on.

In other embodiments of the invention, the TDK index is a hidden index. Examples of hidden indexes are numbers produced by a random number function or indexes that are otherwise hidden. For example, the payment processing network 140 may apply such incremental indices described above to a hash function or decryption algorithm. An advantage of using a hidden index is that it provides an additional level of separation to the tokenization scheme. This is because hidden indices hide the relationship between prior and later indices. To illustrate, in an incrementing scheme without hidden indices, a fraudster may observe that two frequently occurring account tokens may represent the same underlying account identifier if the ending of occurrences of one of the account tokens coincides with the beginning of occurrences of the other and if the TDK indices for the two account tokens are one off from each other.

The payment processing network 140 may log the TDK index for every transaction. In this way, for each transaction, the payment processing network 140 may determine the token derivation key used to generate the account token regardless of subsequent token derivation key changes. As shown in FIG. 3, a TDK index may be sent to the tokenization module 226 (see message M308).

Message M314 is an authorization request message that is sent to an issuer computer 160. With reference to FIG. 7, this is shown as step S712. In the typical case, an issuer computer 160 performs its functions by using an account identifier and, as a result, may not have a use for an account token. In such cases, the tokenization server 220 can send message M314 independent of when the token derivation key is selected and the account token is generated. Accordingly, the steps of generating an account token can operate in parallel with the steps of sending an authorization request message M314 to issuer computer 160 and receiving authorization response message from the issuer. This is shown in FIG. 7 as steps S710 and S711 are performed as part of a separate path than steps S712 and S714.

When an authorization response message is received from the issuer computer 160 (step S714), the tokenization server 220 may embed the account token and the optional token derivation key index in the authorization response message M310. This embedding is shown as message M310.

If authorized, the payment processing network 140 may return the account token and the TDK index (if utilized by the payment processing network 140) to the acquirer computer 130 and/or merchant computer 120 in specified fields of the authorization response message M312. This is shown in FIG.

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7 as steps S716. As described above, the payment processing network 140 may also log the account token and the TDK index for the corresponding transaction.

After the acquirer computer 130 receives the authorization response message M312, the acquirer computer 130 may then send the authorization response message M312 to the merchant computer 120 to be stored in token database 126. This is shown in FIG. 7 as step S705.

The payment processing network optionally provides the ability for the merchant computer 120 to use the account tokens to request the account identifiers to be sent back to the merchant computer 120. Via a mechanism (e.g., batch, online, remote web interfaces, etc.) the merchant computer 120 can submit the MVV, TDK index, and associated account token(s). The payment processing network 140 can then recover the original card account identifiers for secure transmission back to the merchant if the payment processing network 140 logged the transaction information.

An additional advantage of the embodiments is that it allows a comparatively efficient method and system to provide merchants and/merchant acquirers account tokens. In particular, once a merchant is registered, embodiments do not require separate or additional requests for tokenization. Instead, the payment processing network automatically provides an account token as part of the authorization process. Further, because the payment processing network utilizes the MVV and account identifier stored in the authentication request message (e.g., as stored in field 2 and field 62.20, respectively), embodiments may result in little, if any, changes to how authentication request messages are presently generated.

#### C. Multiple Merchants

As described above, the tokenization process communicates account tokens between the merchants and the payment processing network 140 as part of an authorization request and response. FIGS. 4-5 are block diagrams that show an exemplary embodiment that receives an authorization request message, generates an account token in response to receiving the authorization request message, and then inserts the generated account token in an authorization response message that is sent back to the merchant. In particular, FIGS. 4-5 highlight, among other things, how embodiments of the present invention can generate, for a single account identifier, account tokens that vary across different merchants but are consistent for the same merchant.

In particular, FIG. 4 shows merchant computer 120 sending an authorization request message M402 to the payment processing network 140. Authorization request message M402 can be an authorization request message sent in response to consumer 110 swiping a credit card at the merchant's access device 125. Alternatively, message M402 can be an authorization request message received by the tokenization server 220 when consumer 110 makes an Internet purchase from the merchant's web site. In any case, the authorization request message M402 can include transaction data, such as information derived from the card (e.g., the account identifier M402(b)), the terminal (e.g., the merchant verification value M402(d)), the transaction (e.g., the amount M402(c)), together with other data which may be generated dynamically or added by intervening systems (e.g., the header M402(a)). Although FIG. 4 shows the merchant computer 120 sending authorization request message M402 to the tokenization server 220, such messages can be sent through an acquirer computer 130, as is described above.

In some embodiments, authorization request message M402 can be in the form of an ISO (International Organization for Standardization) 8583 message. In other embodi-

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ments, authorization request message M402 can take the form of a web based call to a web service offered by the tokenization server 220. For example, the authorization request message M402 can be in the form of an XML message.

Once the tokenization server 220 receives the authorization request message M402, the authorization request module 230 can validate the authorization request message M402 and then can route the authorization request message M402 to the issuer computer 160 in the form of authorization request message M404. FIG. 4 shows that much of the information found in authorization request message M402 is also included in authorization request message M404. Although not shown, authorization request message M404 can include additional information, according to some embodiments. For example, some embodiments can include routing information that describe the payments systems that have received the authorization request message.

In addition to verifying the authorization request message M402 and routing authorization request message M404 to issuer computer 160, the tokenization server 220 can also generate an account token for the account identifier associated with the authorization request message M402. The steps for generating the account token for the account identifier associated with the authorization request message M402 can begin before the tokenization server 220 receives an authorization response message M406. FIG. 4 shows that authorization request message M402, or some portion thereof, is received by the tokenization module 226. Once the tokenization module 226 receives authorization request message M402, the tokenization module 226 can search for the token derivation key associated with the merchant using the MVV of the authorization request message. For example, FIG. 4 shows that the value of the MVV of authorization request message M402 is '1001001'. The tokenization module 226 then can search the TDK database 246 for a token derivation key associated with '1001001'. According to FIG. 4, the TDK associated with '1001001' is 'TDKA'. Accordingly, the tokenization module 226 can access the TDK database 246 to retrieve the appropriate token derivation key associated with merchant computer 120.

After the tokenization module 226 retrieves the token derivation key associated with the MVV, the tokenization module 226 can generate the account token for the account identifier of the authorization request message M402. As described above, the tokenization module 226 can use a variety of methods for generating account tokens. In one embodiment, the tokenization module 226 applies a symmetric encryption algorithm to the account identifier. The token derivation key associated with the MVV can be used as the key for the symmetric encryption algorithm.

The generated account token is then sent to and received by the authorization response module. This is shown as message M403.

Upon receiving the authorization request message M404, the issuer computer 160 can analyze the authorization request message M404 and make a determination on whether the transaction should be authorized or not. If the issuer 160 verifies that the transaction can proceed, the issuer 160 can send an authorization response message to the payment processing network 140. This is shown as authorization response message M406.

FIG. 4 shows that the account token M403 and the authorization response message M406 are received by the authorization response module 224. In some embodiments, because the tokenization module 226 and the authorization request module 230 operate independently, the authorization response module 224 can receive the account token M403 and

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the authorization response message M406 in any order. When both the account token M403 and the authorization response message M406 are received, the authorization response module 224 can then send the authorization response message M408 to the merchant 120.

Authorization response message M408 can be in any form. In some embodiments, authorization response message M408 generally takes the form of an ISO 8583 message with account token embedded in the fields. The authorization response message M408 may include a header M408(a) that indicates that the message is an authorization response message and a response code M408(c) to indicate whether the authorization request is authorized or denied. As described above, these are fields generally provided by the authorization response message M406 sent by the issuer computer 160. It should be noted that the indication that the message is an authorization request message or an authorization response message need not be included in headers 402(a) and 408(a), respectively. For example, as described below with respect to FIGS. 6A-E, the messages may include a message type field 604 that specifies the message class and category of function. Returning to FIG. 4, the authorization response module 224 can embed the account token in field M408(b) of the authorization response message M408 that is sent to the merchant computer 120. In some embodiments, as described below, the authorization response module 224 can also embed a token derivation key index in the authorization response message M408 that is sent to the merchant 120 computer.

As is described in greater detail below, with reference to FIGS. 6A-E, the format of an authorization response message storing an account token can vary according to embodiments of the present invention.

After the authorization response module 224 sends the authorization response message M408, the authorization response message M408 can be received by the merchant computer 120. Although not shown in FIG. 4, the merchant computer 120 can receive the authorization response message M408 via the acquirer computer 130. The merchant computer 120 can then store the account token 128, as well as other transaction data, in analytics database 126. The analytics database 126 does not include any indication of the account identifier used in the transaction, according to example embodiments.

If at some later point in time, the consumer 110 makes another purchase at merchant 120 with the portable consumer device 115, the tokenization server 220 may generate an account token with the same value as the sent in authorization response message M408. That is, the merchant 120 may receive another account token with the value ABCDE.

However, if at some later point in time, the consumer 110 makes another purchase with the portable consumer device 115 at a different merchant, the tokenization server 220 may generate an account token with a different value. For example, FIG. 5 shows another payment transaction processed by the tokenization server 220. As shown in FIG. 5, authorization response messages M502, M504 involve transactions using the same account identifier used in FIG. 4. In particular, account '12345' is used to make a purchase at a merchant. However, the payment transaction involves a different merchant than the one used in FIG. 4. This is shown in the merchant verification value of the authorization requests M502, M504, where the merchant verification value involved in the transaction is '2003004'.

In comparison to the payment transaction processed in FIG. 4, the tokenization module 226 may receive the merchant verification value of '2003004' contained in the authorization request message M402. Using the merchant verifica-

tion value, the tokenization module 226 can retrieve token derivation key B from the TDK database 126. The tokenization module 226 may then use the token derivation key B to generate the account token for the account identifier stored in the authorization request message M502. The tokenization module 226 can then send the generated account token to the authorization response module 224 to generate an authorization response message M508 that is sent to merchant 121. It is to be noted that the token 508(b) may differ from the token generated for merchant computer 120. In turn the merchant 121 can store the account token 129 in analytics database 127. Later, the merchant 121 can use the account token 129 to perform analytics or supplementary processing.

#### D. Authorization Response Message Formats

As described above, an authorization response message can include an account token that is generated based on an account identifier and a merchant verification value. As is further described above, the account token can be embedded in the authorization response message in any number of ways. For example, FIGS. 6A-E are diagrams that show different ways an account token can be embedded in the authorization response message. In particular, FIG. 6A is a diagram showing an authorization response message 600a that stores an account token in a field of the authorization response message. As shown in FIG. 6A, the authorization response message 600a can include a message header field 602, a message type field 604, a bit map field 606, and a number of data fields 608.

The message header field 602 can contain basic message identifiers and routing information along with message processing control codes and flags.

The message type field 604 can specify the message class and the category of function. For example, a message type field 604 value of '0110' can indicate an authorization response message.

The bit map field 606 can specify which data fields are in an authorization response message. For example, a first bit in the bit map field 606 may indicate if a first type of data field is present in the data fields 608, a second bit in the bit map field 606 may indicate if a second type of data field is present in the data fields 608, and a nth bit in the bit map field 606 may indicate if a nth type of data field is present in the data fields 608. A bit map field can be of any size. In example embodiments, a bit map field is a 64-bit field.

The data fields 608 can include any number of fields used to process a message. For example, some fields may indicate a response code (e.g., whether a payment request is authorized or rejected). In particular, the data fields 608 can include an account token field 610. The account token field 610 can store the account token corresponding to an account identifier sent via a corresponding authorization request message. It is to be noted that when an account token field is present in the authorization response message, an appropriate bit in the bit map field 606 can be set.

Alternatively, an authorization response message can include a token derivation key index associated with the token derivation key used to generate the account token. As described above, providing a token derivation key index to the merchant computer allows the merchant computer to request the tokenization server 220 to return back the account identifier associated with the account token. FIGS. 6B, 6C, and 6D are diagrams showing authorization response messages 600b, 600c, 600d that store a token derivation key index. For example, as shown in FIG. 6B, an account token and a token derivation key index can be stored in single data field 620 as sub-fields 622, 624 of authorization response message 600b. According to some embodiments, sub-fields 622, 624 can be

of predetermined length. Alternatively, as shown in FIG. 6C, the account token and token derivation key index can be stored in a single data field 630 of authorization response message 600c but may include a separation symbol 632 to indicate where within data field 630 the account token ends and the index begins (or vice versa). Although the separation symbol 632 is shown to be a '/', it is to be appreciated that any other suitable symbol can be used. Using a separation symbol allows for variable length account tokens and token derivation indexes. Still further, in other embodiments, as shown in FIG. 6D, the account token and token derivation key index can be stored in separate data fields 640, 642 of the authorization response message 600d. Accordingly, the bit map field 644 of the authorization response message 600d may include a first indication that the account token field 640 is present and a second indication that the token derivation key index data field 642 is present.

FIGS. 6A-D describe authorization response message formats that rely on structured placement of the account token and/or index. However, other embodiments can use techniques that provide greater flexibility for the location and content of the data fields stored in the authorization response message. For example, FIG. 6E shows a simplified diagram illustrating a markup representation of the authorization response message. Instead of relying on a bit map, such as may be present in FIGS. 6A-D, the authorization response message can be sent in a form that uses tags to identify data and attributes to describe characteristics of the data. For example, the authorization response message can include a message tag 652 to identify that the message is an authorization response message. Further, the message tag 652 can include a number of sub-tags to represent the various fields of the authorization response message. As shown, field tag 651 includes a type attribute 653 and an index attribute 654. The type attribute 653 identifies that the type of field is a token field. The optional index attribute 654 identifies the index associated with the account token. The tag content 655 indicates the value of the account token, 'ABCDE'. Although not shown in FIG. 6E, the field tag 651 can optionally include an end tag.

FIG. 6E is just an example of one format for a markup representation of the authorization response message. Other embodiments can use alternative markup representations.

#### V. Account Identifier Substitution for Support Systems

Section IV describes techniques for communicating account tokens to a merchant computer. Such account tokens can be sent to the merchant computer during the authorization of a payment request, for example, in an authorization response message sent from the tokenization server to the merchant computer via an acquirer computer. In addition to communicating account tokens to a merchant, a tokenization server may also communicate with a number of support systems. Such support systems, as described above, may perform primary and auxiliary functions involved with authorizing, settling, and clearing transactions. The support systems may reside within a payment processing network or as an external partner that is in operative communication with the payment processing network. This section now describes methods, systems, and apparatuses for communicating an account token to these support systems.

##### A. System for Providing Account Tokens to a Support System

FIG. 9 is a block diagram that shows messages exchanged within a system 900 that communicates account tokens to a number of support systems. In certain embodiments, a payment processing network 140 may be in operative communication with one or more acquirer computers 130 via the Internet or some other communication medium.

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In embodiments of the invention, the payment processing network **140** may be in further operative communication with a support computer **150**. The support computer **150** may perform supporting functions for the payment processing network **140** via support modules **22** and **24**. An example of a supporting function is scoring a transaction for fraud.

As an illustration of the interaction between the payment processing network **140** and the support computer **150**, a payment transaction is initiated by the acquirer computer **130** when a consumer **110** conducts a transaction with a merchant associated with merchant computer **120** via the access device **125**. As described above, the acquirer computer **130**, for example, may be operated by a banking institution that oversees an account associated with the merchant. The acquirer computer **130** may transmit an authorization request message to the payment processing network **140** and the authorization request message may be received by the tokenization server **220**. In turn, the tokenization server **220** may transmit at least some portion of the authorization request message to other systems. For example, the tokenization server **220** may transmit the account identifier to supporting module **16**. Further, the account identifier may be communicated to the support module **24** of the support computer **150**.

Although the payment processing network **140** may need the account identifier for any number of reasons, such as moving money, checking status, and reporting, some of the support computers may not. For example, a support computer may only use the account identifier as an identifier or unique index. Exacerbating security risks associated with the use of account identifiers, these support computers may store the account identifier in various databases, problem logs, dump logs, core dumps, and other similar memory storages and data structures. Thus not only is the account identifier potentially exposed to fraudsters when the account identifier is transmitted between different systems but there is also a risk that a fraudster may obtain the account identifiers by hacking into these support computer, even long after the transaction has been conducted. Accordingly, the payment processing network **140** may improve security of an account identifier by communicating account tokens rather than account identifier, where possible.

As shown in FIG. 9, the acquirer computer **130** may communicate the account identifier to the payment processing network **140**. In particular, the tokenization server **220** may receive a primary account number **912**. If the tokenization server **220** determines that the primary account number is new to the tokenization server **220**, the tokenization server **220** may generate an account token of the account identifier. Otherwise, the tokenization server **220** can use the account token previously generated for the account identifier. The account token can be used to identify an account, account identifier, and/or a transaction. The account token may include card characteristics or, in some example embodiments, the card characteristics may be data distinguishable from the account token. The tokenization server **220** may then store the generated account token and, if present, the associated card characteristics. In some embodiments, the characteristics are updated as a change is noticed or periodically refreshed.

Once the tokenization server **220** generates or identifies the account token associated with the primary account number **912**, the tokenization server **220** may communicate the account token to the support modules that do not require the account identifier (e.g., primary account number **912**).

As part of the process of determining whether a support system requires an account identifier, the tokenization server **220** may query support system database **246** (see FIG. 2) to

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determine whether the account identifier is required for a specified support system. In such an embodiment, the tokenization server **220** may lookup the support system according to a support system verification value assigned to the support module when the support module is enrolled with the tokenization server **220**. For example, support system database **246** may indicate that the support module **16** requires an account identifier while the support module **18** does not require an account identifier or can accept an account token in lieu of an account identifier. Accordingly, after making the determination, the tokenization server **220** will transmit the account identifier to support module **16** and an account token to support module **18**. A similar process can be used for the support modules **22**, **24** residing on the support computer **150**.

Alternatively, whether or not a support module requires an account identifier or can instead accept an account token may be determined by manual configuration (e.g., input received by an administrator of the payment processing network **140**) or via an application programming interface (API) of the support computer **150** that may allow the tokenization server **220** to interrogate the various support modules **22**, **24** as to their requirements as it relates to receiving an account identifier or an account token.

Embodiments of the invention provide numerous advantages in the development of secure data centers. In particular, embodiments of the invention enable the development of comparatively more secure transactions that transmit an account identifier. Embodiments of the invention can provide such results because they utilize an account token rather than sensitive data, such as the account identifier. Specifically, embodiments of the invention generate account token data that is associated with a account identifier and then communicate the account token data rather than the account identifier to the various support systems. Use of the account token data reduces the risks of communicating the account identifier to various support systems as well as storing sensitive data within such systems.

B. Method for Providing Account Tokens to a Support System

FIG. 10 is a flow diagram showing a method **1000** of providing an account token to a support system. The steps performed by the method **1000** can be performed by the tokenization server **220** or by any other suitable module of the payment processing network **140**. In alternative embodiments, one or more steps described herein can be performed by any other suitable computer system, such the issuer computer **160**, for example.

The method **1000** may begin by enrolling a support module with the tokenization server **220**. This is shown as step **S1002**. A support module may be running within the payment processing network **140** (e.g., support modules **16**, **18**) or within a support computer **150** that operates external and independent of the payment processing network **140** (e.g., support modules **22**, **24**). Enrolling a support module can involve, in some embodiments, communicatively connecting the support module to the tokenization server. For example, the support computer may offer the support module as a web service. In such cases, the tokenization server **220** (or the payment processing network **140** in general) and the support computer **150** may communicate using an APIs defined by each entity. Alternatively, the support modules may be deployed by the system administrator of the payment processing network **140**. In such cases, the support module may be deployed wholly within the payment processing network **140**, external to the payment processing network **140**, or some combination thereof. The enrollment process, whether offered as a web service or as a deployed system, may indicate whether the support module is to receive an account identifier or an



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account token in later communications. Such information may be stored in the support system database 246 (see FIG. 2) or may be accessible via an interface provided by the support module.

Once enrolled, the tokenization server 220 may receive a payment message. This is shown as step S1004. As used herein, a “payment message” can refer to either an authorization request message or an authorization response message, which are described above.

After receiving the payment message, the tokenization server 220 may determine if a support module can receive an account token. This is shown as step S1006. The tokenization server 220 can determine if the support module can receive an account token using the information received when the support module was enrolled with the tokenization server 220. For example, the tokenization server 220 may access support system database 246 to determine whether a specific support module can receive an account token.

Step S1008 is a decision point on whether the support module can receive an account token, as is determined in step S1006. If yes, step S1010 is then performed. Otherwise, step S1014 is performed.

Step S1010 involves generating an account token from the account identifier included in the payment message (see step S1004). The tokenization server 220 may generate an account token for the account identifier using any of the methods or techniques described above. For example, the tokenization server 220 may encrypt the account identifier using any suitable encryption method. In some embodiments, a single token derivation key is used for tokenizing account identifiers for all support modules. In other embodiments, each support module, or a group of support modules, is assigned a specific token derivation key that is used to generate the account token. As described above, assigning different token derivation keys to different support modules can add an additional level of security among the different support modules.

After the account token is generated, the tokenization server 220 can then transmit an external request message to the support module, wherein the external request message includes the account token. This is shown as step S1012. As used herein, an “external request message” can refer to a message that is sent to the support module that causes the support module to provide its supporting function. In some embodiments, the external request message is sent according to an API provided by the support module. For example, the support module can provide a SOAP (Simple Object Access Protocol) procedure that can be used to receive and transmit information from and to the tokenization server 220. The SOAP procedure may then provide an implementation of a web service provided by the support module. XML can be used to define the message formats for the messages sent between the support module and the tokenization server 220. Again, examples of such procedures may relate to scoring a transaction for fraud, generating alerts to a customer or merchant, reporting, etc.

As described above, if the support module can not receive an account token based on decision step S1008, step S1014 is then performed. According to step S1014, the tokenization server 220 transmits an external request message to the support module with the account identifier. Such an external request message can be sent according to the techniques described above, as it relates to step S1012.

After the external request message is sent to the support module, the tokenization server 220 can receive an external response message from the support module. This is shown as step S1016. As used herein, an “external response message” can refer to a message that is sent back to the tokenization

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server 220 from the support module in response to processing the external request message. In some embodiments, the external response message is a response message sent according to a SOAP procedure call. XML can be used to define the message format of the external response message. The external response message can include an indication of the web service initiated by the external request message. For example, the external response message can include a field that indicates whether the support function completed successfully or can include specific information, such as the fraud score of a transaction.

After receiving the external response message, the tokenization server 220 can send a payment message. This is shown as step S1018. As described above, a payment message can be an authorization request message. For example, the tokenization server 220 may have sent the external request message to a fraud scoring system in step S1012. In response to receiving the fraud score in the external response message in step S1016, the tokenization server 220 can forward an authorization request message with the fraud score to the issuer computer 160. The issuer computer 160 can then process the authorization request message and use the fraud score to determine whether the transaction is authorized.

Alternatively, also described above, a payment message can be an authorization response message. For example, the tokenization server 220 may have sent the external request message to a reporting system that can generate reports of transaction histories based on a number of categories. Because the reporting system is not used by the issuer computer 160 as it relates to determining whether a transaction is authorized, the tokenization server 220 can send the external request message after the tokenization server 220 receives the authorization response (e.g., in step S1004). Accordingly, the payment message involved in step S1018 is an authorization response message that may be sent back to the acquirer computer.

Whether the payment message is an authorization request message or an authorization response message, the payment message may include external system data. As used herein, “external system data” can refer to any information obtained from the support module that is to be communicated to an external entity, such as a merchant computer or an issuer computer. For example, external system data can refer to an offer or reward that a consumer obtains after a predetermined number of purchases at a store. As another example, external system data can refer to a risk score that is sent to an issuer so that the issuer can determine whether to authorize the payment request.

Step S1018 can also include determining the account identifier from the account token stored in the external system data. This step may allow the tokenization server 220 to route the payment message to the appropriate merchant computer, for example.

It is to be noted that the timing of when the various steps of the method 1000 are performed may vary according to example embodiments. For example, in some embodiments the authorization process operates independent of the function performed by the support module. In such cases, steps S1016 and S1018 can be performed in any order. Such may be the case where the support module merely logs transactions, for example.

VI. Provisioning Account Tokens for Merchant Support Systems

FIGS. 3, 4, 5, 6A-E, and 7 describe various embodiments that, in response to an authorization request message, send a merchant specific account token to a merchant in an authorization response message. In comparison, FIGS. 9 and 10

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describe embodiments that, in response to an authorization request message, send account tokens to a support system of the payment processing network.

Although not yet discussed, a merchant may wish to communicate its merchant specific account tokens to a support system. To illustrate, a merchant computer can use a third-party to provide risk analysis services. Accordingly, when a merchant receives an authorization response message with an account token from a payment processing network, the merchant can then send the authorization response message, or portions thereof, to the third-party service provider for further processing. Communicating the account token to the third-party service provider is comparatively secure because the account token can not be used to conduct a transaction. When the third-party service provider receives the account token, it can, for example, compare the account token against a database that stores high risk account tokens and report a risk score back to the merchant.

In order to provide improved risk analysis, it may be desirable for the third-party service provider to compare account tokens it receives from one merchant against account tokens it receives from another merchant. However, as described above, the account tokens that the payment processing network sends to the merchants are specific to that merchant. That is, for a given account identifier, the account token generated for one merchant is going to be different than the account token generated for another merchant. As a result, the third-party service provider will be unable to determine if a first account token from a first merchant and a second account token from a second merchant are associated with the same underlying account identifier. This example illustrates the difficulty of analyzing account tokens across different merchants.

FIGS. 11 and 12 illustrate various approaches that address these and other limitations for third-party support for processing account tokens across multiple merchants.

To begin, FIG. 11 is a block diagram that shows a system 1100 that includes merchants 120, 121, a merchant support server 1102, and the tokenization server 220. As shown, merchants 120, 121 may each store account token data in their respective account token databases, 126, 127. Such account tokens can be obtained using the techniques described above. As a result, the account token databases 126, 127 may each store merchant specific account token sets 126(a), 127(a). For simplicity of illustration, account token databases 126, 127, as shown in FIG. 11, can store account tokens for each transaction. However, in other embodiments, additional information can be stored, such as a token derivation key index, and other transaction data, such as time of day, date, location, MVV, merchant category, etc.

FIG. 11 shows that account token database 126 may store account tokens for transactions T1-T3 wherein the three transactions involve only two unique account tokens: '12345', which is involved in two transactions; and '67890', which is involved in one transaction. In comparison, account token database 127 may also store account tokens for transactions T4-T6, wherein the three transactions also involve only two unique account tokens: 'ABCD', which is involved in two transactions; and 'BCDE', which is involved in one transaction. Thus, based on a comparison of merchant specific account tokens 126(a), 127(a), it would appear that transactions T1-T6 involve four account tokens (i.e., '12345', '6789', 'ABCD', and 'BCDE'), wherein two of the account tokens are each involved in two transactions (i.e., '12345' and 'ABCD'), and the remaining two account tokens are each involved in one transaction (i.e., '6789' and 'BCDE').

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To enable the merchant support server 1102 to analyze the merchant specific account tokens 126(a), the merchants 120 may send message M1110A to the merchant support server 1102. Message M1110A can include the merchant verification value associated with merchant computer 120, one or more of the merchant specific account tokens 126(a), and any other transaction data. Message M1110A can be sent to the merchant support server 1102 in response to receiving an authorization response message from the payment processing network 140. Such may be the case when the merchant support server 1102 is involved in the authorization process. Alternatively, the merchant computer 120 may send message M1110A as part of a batch processes that runs periodically or at set times.

Similarly, merchant 121 can send message M1110B to the merchant support server 1102 to communicate its merchant specific account tokens 127(a) to the merchant support server 1102.

When the merchant support server 1102 receives messages M1110A and/or M1110B, the merchant support server 1102 may send a normalization request message M1112 to the tokenization server 220. FIG. 11 shows that the normalization request message M1112 can include multiple verification values. For example, the normalization request message M1112 can include a verification value associated with the merchant support server 1102 (e.g., SSVV). The tokenization server 220 can use the verification value associated with the merchant support system 1102 to identify the requester of the normalization request. Further, FIG. 11 shows that the normalization request message M1112 can include a merchant verification value associated with a merchant (e.g., MVV1 or MVV2) and merchant specific account tokens.

Once the tokenization server 220 receives the normalization request message M1112, the tokenization server 220 can authorize the request to normalize the account token. In one embodiment, prior to sending message M1110A, merchant 120 can register the merchant support server 1102 as a trusted support system. In this case, the tokenization server 220 can store this relationship in the support system database 246. Accordingly, in one embodiment, the tokenization server 220 can search the support system database 246 using the merchant verification value assigned to the merchant to determine whether the merchant previously registered the merchant support server 1102 as a trusted support system. Alternatively, in another embodiment, the tokenization server 220 can search the support system database 246 using the verification value of the merchant support server 1102 to determine whether the merchant previously registered the merchant support server as a trusted support system.

After the tokenization server 220 determines that the merchant support server 1102 is authorized to normalize the account token data, the tokenization server 220 can reverse tokenize the merchant specific account tokens to obtain the account identifier. In an example embodiment, the normalization module 228 (see FIG. 2) can normalize the account tokens. For example, with regard to merchant 120, the normalization module 228 can use the merchant verification value of the merchant 120 (e.g., MVV1) to search the TDK database 244 to find the token derivation key associated with merchant 120. Once the appropriate token derivation key is located, the normalization module 228 can then reverse tokenize the account token using the token derivation key assigned to merchant 120. This process is appropriate for those embodiments that use symmetric derivation keys. For embodiments that use asymmetric derivation keys, the TDK database 244 may store a token reverse key, which is similarly associated with the merchant verification value. Accordingly,

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rather than reverse tokenizing the account token with the token derivation key, the normalization module 228 can reverse tokenize the account token into the account identifier with the token reverse key. Whether a token derivation key is symmetric or asymmetric, a token derivation key index may also be required to reverse tokenize the account token.

The above described approach can be used with respect to any other merchant, such as merchant 121, and the other merchant's account tokens.

Once the normalization module 228 transforms the account tokens back to the underlying account identifiers, the normalization module 228 then searches the TDK database 244 for the token derivation key assigned to the merchant support system 1102. With the token derivation key assigned to the merchant support system 1102, the normalization module 228 can then generate new account tokens of the account identifiers. This new set of account tokens can be referred to as normalized account tokens.

After the normalization module 228 generates the normalized account tokens, the tokenization server 220 then sends the normalized account tokens to the merchant support server 1102. This is shown as message M1114, as a normalization response message. The merchant support server 1102 can store the normalized account tokens in the normalized account token database 1104. As shown in FIG. 11, the normalized account token database 1104 stores normalized account tokens 1104(a) that correspond to the six transactions in the merchant account token databases 126, 127. However, rather than linking the six transaction with the merchant specific account token (e.g., 126(a) and 127(a)), the transactions are linked to the normalized account tokens 1104(a).

As FIG. 11 shows, the normalized account tokens 1104(a) provides additional insight into the six transactions conducted by merchants 120, 121. For example, as described above, a comparison of merchant specific account tokens 126(a), 127(a) does not indicate that transactions 1 and 4 were conducted with the same account identifier because the respective account tokens differ (e.g., '12345' and 'ABCD', respectively). However, based on the normalized account tokens 1104(a), it is clear that transaction 1 and transaction 4 were conducted with the same account identifier because both transactions involve the same normalized account token, (i.e., '54321'). Further, after normalization, the normalized account tokens 1104(a) stored in the normalized account token database 1104 indicate that the six transactions are actually conducted with only two different account identifiers.

The normalization approach described above provides a number of additional advantages. For example, because systems external to the payment processing network store account tokens rather than account identifiers, these systems do not have to provide costly safety systems to ensure they comply with various security standards. In particular, the merchant support server 1102 can be completely shielded from receiving or even communicating account identifiers.

The approach described with respect to FIG. 11 may be well suited for situations that involve batch processing. For example, the merchant support system 1102 may provide a rewards program across merchants. As such, its support function may be run nightly, weekly, monthly, etc. However, because the technique described in context with FIG. 11 involves additional messages communicated between a merchant support system 1102 and the tokenization server 220, such an approach may not be appropriate if the merchant needs a real time response, such as a fraud alert.

FIG. 12 is a block diagram that shows an alternative approach for normalizing merchant specific account tokens to

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allow a merchant support server 1102 to compare account tokens across multiple merchants. Compared to system 1100, the system 1200 shown in FIG. 12 may be better suited for real time analysis offered by the merchant support server 1102.

In some embodiments, before the tokenization server 220 can provide a normalized account token for account identifiers involved in transactions with merchant 120, merchant 120 may enroll the merchant support server 1102 as a support system of merchant 120. This is shown as message M1210A. Message M1210A can include the merchant verification value of the merchant 120 and a support system verification value for the merchant support server 1102. For example, merchant 120 may be assigned the merchant verification value 'M1210' and the third party support system 1102 can be assigned the support system verification value 'SSV1'. When a merchant enrolls a merchant support server as a service system of the merchant, the tokenization server 220 creates an association between the verification value of the merchant and the verification value of the merchant support server 1102. As shown in FIG. 12, record 1204 of normalization database 1207 may link various information used to tokenize account identifiers for merchant computer 120. For example, the merchant verification value (e.g., 'M1210') assigned to the merchant computer 120 can be linked to token derivation key (e.g., 'Key A') assigned to merchant 120. Further, after enrolling the merchant support server 1102 as a support system of the merchant 120, the record 1204 may include a support system verification value (e.g., 'SSV1') assigned to the merchant support server 1102.

The record 1205 may include various information used to transform the account identifiers into a normalized account token. For example, the support system verification value (e.g., SSV1) can be linked to a token derivation key (e.g., Key C) that is used to tokenize account identifiers in a format specific to the merchant support server 1102. Records 1204, 1205 can be indexed by any suitable field, such as merchant or support system verification value.

Although FIG. 12 shows database 1207 storing the associations between the merchant verification values, support system verification values, and token derivation keys, it is to be appreciated that any combination of the databases 242, 244, and 246 (see FIG. 2) can be used to store such information.

Merchant 121 can enroll the merchant support server 1102 as a support system in a similar manner.

Once the merchant support server 1102 is enrolled as a support system for the merchants, merchant 120 can send an authorization request message to the tokenization server 220 in the typical fashion, as may occur when a consumer swipes their credit card at a POS terminal. This is shown as message M1212A. The authorization request message can include information shown in FIG. 4. For example, the authorization request message may include the merchant verification value assigned to merchant 120 and an account identifier. Upon receiving the authorization request message M1212A, the tokenization server 220 can process the transaction as described above. That is, the authorization request M1212A can be received by the authorization request module 230. The authorization request module 230 can then forward the authorization request message to the issuer computer 160 of the portable consumer device 115. In parallel, while the authorization request message is received by the authorization processing module 230, the tokenization module 226 can receive the account identifier and merchant verification value stored in the authorization request message. Using the merchant verification value, the tokenization module 226 may identify

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the token derivation key assigned to the merchant and then generates an account token using the token derivation key.

Additionally, the tokenization module 220 can use the merchant verification value to determine that the merchant support server 1102 is enrolled as a support system for the merchant 120. For example, the normalization module 228 can use the merchant verification value sent in the authorization request message to search database 1207 for a record associated with the merchant. For example, record 1204 can be indexed by the merchant verification value, in which case the normalization module would match record 1204 with the merchant verification value 'M1214B', and send the account token based on the token derivation key assigned to the merchant support server 1104 (M1216B).

Further, the technique of generating account tokens in response to authorization request messages and sending the account tokens in authorization response messages can be repeated for one or more transactions. For example, as FIG. 12 shows, as was shown in FIG. 11, merchant 120 may store merchant specific account tokens 126(a) corresponding to three transactions, while merchant 121 may store merchant specific account tokens corresponding to three additional transactions. Similar to FIG. 11, collectively, the merchant specific account tokens 126(a), 126(b) provide relatively little information regarding the combined transactions. However, as shown in the merchant support server 1104, the normalized account tokens 1104(a) stored normalized database 1104 illustrate that transaction 1 and transaction 4 actually involve the same underlying account identifier.

However, unlike the embodiments described with reference to FIG. 11, embodiments according to FIG. 12 provide an improved technique for providing normalized account tokens if the normalization tokens are to be analyzed in real-time. Such is the case because the normalized account tokens are generated by the tokenization server when the tokenization server receives an authorization request message. As such, the normalized account tokens can be generated in parallel to the processing of the merchant specific account token and in parallel to the issuer processing the authorization request message.

VII. Exemplary Computer Apparatuses

FIG. 8 shows a block diagram of an exemplary computer apparatus that can be used in some embodiments of the invention (e.g., in any of the components shown in the prior Figures).

Any of the elements in figures described herein can use any suitable number of subsystems to facilitate the functions described herein. System 800 in FIG. 8 is representative of a computer system capable of embodying various aspects of the present invention. The computer system can be present in any of the elements in figures described herein, including payment processing network 140, for example. Similarly, the various participants, entities and elements in FIG. 1 may operate one or more computer apparatuses to facilitate the functions described herein. It will be readily apparent to one of ordinary skill in the art that many other hardware and software configurations are suitable for use with the present invention.

For example, the computer may be a desktop, portable, rack-mounted or tablet configuration. Additionally, the computer may be a series of networked computers. Further, the use of other micro processors are contemplated, such as Xeon™, Pentium™ or Core™ microprocessors; Turion™ 64, Opteron™ or Athlon™ microprocessors from Advanced Micro Devices, Inc; and the like. Further, other types of operating systems are contemplated, such as Windows®, WindowsXP®, WindowsNT®, or the like from Microsoft Corporation, Solaris from Sun Microsystems, LINUX,

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After determining that the merchant support server 1102 is a support system for merchant computer 120, the tokenization module 226 can generate an additional account token using the token derivation key assigned to the merchant support server. This can be done by passing the support system verification value assigned to the merchant support server 1102 and the account identifier sent in the authorization request message to the tokenization module 226. When the tokenization module 226 receives the account identifier and the support system verification value 'SSVV', it can search normalization database 1207 for the token derivation key assigned to the merchant support server 1102. For example, the tokenization module 226 can obtain the token derivation key assigned to the support system by matching record 1205 with the support system verification value stored in record 1204 (i.e., 'SSVV'), for example. After the tokenization module 226 locates the record associated with the merchant support server 1102, the tokenization module 226 can generate a second account token of the account identifier sent in the authorization request message using the token derivation key assigned to the merchant support server 1104.

After the tokenization module 226 generates the account token based on the token derivation key assigned to the merchant 120 and the account token based on the token derivation key assigned to the merchant support server, the tokenization server 220 can send the account tokens to the merchant 120. This is shown as message M1214A. For example, as explained above, the account token based on the merchant's 120 token derivation key can be inserted in an authorization response message. Further, the account token based on the token derivation key assigned to the merchant support server 1104 can similarly be inserted in the authorization response message.

When the merchant 120 receives the authorization response message M1214A, the merchant can then store the account token based on the token derivation key assigned to the merchant in token database 126. FIG. 12 shows that account token database 126 stores the account tokens for transactions T1-T3. In addition to storing the account token based on the token derivation key assigned to the merchant 120, the merchant 120 can also send the account token based on the token derivation key assigned to the merchant support server 1104 to the merchant support server for further processing. For example, the merchant support server 1104 can be configured to assign a risk score to a transaction. In this way, message 1216A can be part of an authorization process used by the merchant 120.

FIG. 8 shows a block diagram of an exemplary computer apparatus that can be used in some embodiments of the invention (e.g., in any of the components shown in the prior Figures).

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For example, the computer may be a desktop, portable, rack-mounted or tablet configuration. Additionally, the computer may be a series of networked computers. Further, the use of other micro processors are contemplated, such as Xeon™, Pentium™ or Core™ microprocessors; Turion™ 64, Opteron™ or Athlon™ microprocessors from Advanced Micro Devices, Inc; and the like. Further, other types of operating systems are contemplated, such as Windows®, WindowsXP®, WindowsNT®, or the like from Microsoft Corporation, Solaris from Sun Microsystems, LINUX,

FIG. 8 shows a block diagram of an exemplary computer apparatus that can be used in some embodiments of the invention (e.g., in any of the components shown in the prior Figures).

Any of the elements in figures described herein can use any suitable number of subsystems to facilitate the functions described herein. System 800 in FIG. 8 is representative of a computer system capable of embodying various aspects of the present invention. The computer system can be present in any of the elements in figures described herein, including payment processing network 140, for example. Similarly, the various participants, entities and elements in FIG. 1 may operate one or more computer apparatuses to facilitate the functions described herein. It will be readily apparent to one of ordinary skill in the art that many other hardware and software configurations are suitable for use with the present invention.

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UNIX, and the like. In still other embodiments, the techniques described above may be implemented upon a chip or an auxiliary processing board. Various embodiments may be based upon systems provided by daVinci, Pandora, Silicon Color, or other vendors.

In one embodiment, computer system **800** typically includes a monitor **810**, computer **820**, a keyboard **830**, a user input device **845**, network interface **850**, and the like. In various embodiments, monitor **810** may be embodied as a CRT display, an LCD display, a plasma display, a direct-projection or rear-projection DLP, a microdisplay, or the like. In various embodiments, display **810** may be used to display user interfaces and rendered images.

In various embodiments, user input device **845** is typically embodied as a computer mouse, a trackball, a track pad, a joystick, wireless remote, drawing tablet, voice command system, and the like. User input device **845** typically allows a user to select objects, icons, text and the like that appear on the display **810** via a command such as a click of a button or the like. An additional specialized user input device **845**, such as a magnetic stripe, RFID transceiver or smart card reader may also be provided in various embodiments. In other embodiments, user input device **845** include additional computer system displays (e.g. multiple monitors). Further user input device **845** may be implemented as one or more graphical user interfaces on such a display.

Embodiments of network interface **850** typically include an Ethernet card, a modem (telephone, satellite, cable, ISDN), (asynchronous) digital subscriber line (DSL) unit, FireWire interface, USB interface, and the like. For example, network interface **850** may be coupled to a computer network, to a FireWire bus, or the like. In other embodiments, network interface **850** may be physically integrated on the motherboard of computer, may be a software program, such as soft DSL, or the like.

RAM **870** and disk drive **880** are examples of computer-readable tangible media configured to store data such user, account and transaction level data, calculated aggregated data, super keys, sub keys and other executable computer code, human readable code, or the like. Other types of tangible media include magnetic storage media such as floppy disks, networked hard disks, or removable hard disks; optical storage media such as CD-ROMS, DVDs, holographic memories, or bar codes; semiconductor media such as flash memories, read-only-memories (ROMS); battery-backed volatile memories; networked storage devices, and the like.

In the present embodiment, computer system **800** may also include software that enables communications over a network such as the HTTP, TCP/IP, RTP/RTSP protocols, and the like. In alternative embodiments of the present invention, other communications software and transfer protocols may also be used, for example IPX, UDP or the like.

In various embodiments, computer **820** typically includes familiar computer components such as a processor **860**, and memory storage devices, such as a random access memory (RAM) **870**, disk drive **880**, and system bus **890** interconnecting the above components.

In some embodiments, computer **820** includes one or more Xeon™ microprocessors from Intel Corporation. Further, in the present embodiment, computer **820** may include a UNIX-based operating system.

It should be understood that embodiments of the present invention as described above can be implemented in the form of control logic using computer software in a modular or integrated manner. Based on the disclosure and teachings provided herein, a person of ordinary skill in the art will know

and appreciate other ways and/or methods to implement the present invention using hardware and a combination of hardware and software

Any of the software components or functions described in this application, may be implemented as software code to be executed by a processor using any suitable computer language such as, for example, Java, C++ or Perl using, for example, conventional or object-oriented techniques. The software code may be stored as a series of instructions, or commands on a non-transitory computer readable medium, such as a random access memory (RAM), a read only memory (ROM), a magnetic medium such as a hard-drive or a floppy disk, or an optical medium such as a CD-ROM. Any such non-transitory computer readable medium may reside on or within a single computational apparatus, and may be present on or within different computational apparatuses within a system or network.

The above descriptions are illustrative and are not restrictive. Many variations of the invention will become apparent to those skilled in the art upon review of the disclosure. The scope of the invention should, therefore, be determined not with reference to the above description, but instead should be determined with reference to the pending claims along with their full scope or equivalents.

One or more features from any embodiment may be combined with one or more features of any other embodiment without departing from the scope of the invention. For example, any of the above described analytics may be combined with any other suitable analytics in any suitable manner in methods or systems according to embodiments of the invention. Thus, although specific features are separately described in this application, they may be combined in certain embodiments of the invention.

A recitation of “a”, “an” or “the” is intended to mean “one or more” unless specifically indicated to the contrary.

What is claimed is:

1. A method comprising:

receiving, by a tokenization server, a registration request message from a merchant computer;

assigning, by the tokenization server, a merchant verification value and a token derivation key to a merchant associated with the merchant computer;

storing, by the tokenization server, the token derivation key and the merchant verification value in a database;

receiving, by the tokenization server, an authorization request message for a transaction that includes an account identifier and the merchant verification value, wherein the authorization request message is sent by the merchant computer;

sending, by the tokenization server, the authorization request message to an issuer computer for authorization of the transaction;

receiving, by the tokenization server from the issuer computer, an authorization response message indicating whether the transaction has been authorized by the issuer computer;

retrieving, by the tokenization server, the token derivation key using the merchant verification value included in the authorization request message from the database;

generating, by the tokenization server, an account token using the token derivation key by encrypting the account identifier using the token derivation key;

inserting, by the tokenization server, the account token in the authorization response message received from the issuer computer; and

sending, by the tokenization server, the authorization response message including the account token to the

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merchant computer, wherein the token derivation key is available only to the tokenization server.

2. The method of claim 1 wherein a reverse tokenization key usable to generate the account identifier from the account token is stored on the tokenization server.

3. The method of claim 1, further comprising:  
 assigning a token derivation key index to the token derivation key; and  
 inserting the token derivation key index in the authorization response message before the authorization response message is sent to the merchant computer.

4. The method of claim 3, further comprising:  
 assigning a different token derivation key to the merchant associated with the merchant computer; and  
 assigning a different derivation key index to the different token derivation key.

5. The method of claim 3 wherein the token derivation key index is an incremental index.

6. The method of claim 3 wherein the token derivation key index is a hidden index.

7. The method of claim 1, further comprising:  
 generating, by the tokenization server, a reverse tokenization key using the merchant verification value;  
 receiving an account identifier request from the merchant computer, wherein the account identifier request includes the account token;  
 determining, by the tokenization server, the account identifier using the reverse tokenization key and the account token; and  
 sending the account identifier to the merchant computer.

8. The method of claim 1 wherein the account token is generated by applying the account identifier to an encryption or hash function using the token derivation key as a parameter.

9. The method of claim 1 wherein the token derivation key is a key for a symmetric encryption algorithm, and wherein generating the account token further comprises applying the symmetric encryption algorithm to the account identifier.

10. The method of claim 1 wherein the authorization response message includes a bitmap field, and wherein a bit in the bitmap field is set by the tokenization server upon inserting the account token in the authorization response message.

11. The method of claim 1 wherein the authorization response message includes a field tag that identifies a field in the authorization response message containing the account token.

12. The method of claim 1, further comprising:  
 receiving, from a merchant support system server, a normalization request message, wherein the normalization request message includes the merchant verification value and the account token, and wherein the merchant support system server is associated with a merchant support system;  
 generating, by the tokenization server, the account identifier from the account token;  
 selecting a token derivation key assigned to the merchant support system;  
 generating, by the tokenization server, a normalized account token using the token derivation key assigned to the merchant support system; and  
 sending the normalized account token to the merchant support system server.

13. The method of claim 12 wherein the normalization request message further includes a support system verification value that is used to select the token derivation key assigned to the merchant support system.

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14. The method of claim 12 wherein the merchant support system is associated with a fraud scoring service that provides a fraud score for the transaction.

15. The method of claim 12 wherein the merchant support system is associated with an alert service that transmits an alert to a mobile device of an account holder.

16. A server computer comprising:  
 a processor and  
 a non-transitory computer-readable storage medium coupled to the processor, the computer readable storage medium comprising code that, when executed by the processor, causes the processor to perform a method comprising:  
 receiving a registration request message from a merchant computer;  
 assigning a merchant verification value and a token derivation key to a merchant associated with the merchant computer;  
 storing the token derivation key and the merchant verification value in a database;  
 receiving an authorization request message for a transaction that includes an account identifier and the merchant verification value, wherein the authorization request message is sent by the merchant computer;  
 sending the authorization request message to an issuer computer for authorization of the transaction;  
 receiving, from the issuer computer, an authorization response message indicating whether the transaction has been authorized by the issuer computer;  
 retrieving the token derivation key using the merchant verification value included in the authorization request message from the database;  
 generating an account token using the token derivation key by encrypting the account identifier using the token derivation key;  
 inserting the account token in the authorization response message received from the issuer computer; and  
 sending the authorization response message including the account token to the merchant computer, wherein the token derivation key is available only to the server computer.

17. The server computer of claim 16 wherein a reverse tokenization key usable to generate the account identifier from the account token is stored on the server computer.

18. The server computer of claim 16, wherein the method further comprises:  
 assigning a token derivation key index to the token derivation key; and  
 inserting the token derivation key index in the authorization response message before the authorization response message is sent to the merchant computer.

19. The server computer of claim 18, wherein the method further comprises:  
 assigning a different token derivation key to the merchant associated with the merchant computer; and  
 assigning a different derivation key index to the different token derivation key.

20. The method of claim 19, further comprising:  
 determining that the token derivation key has been compromised prior to assigning the different token derivation key to the merchant.

21. A non-transitory computer readable medium storing computer instructions when executed by a processor of a server causes the processor to perform a method comprising:  
 receiving a registration request message from a merchant computer;

assigning a merchant verification value and a token derivation key to a merchant associated with the merchant computer;  
storing the token derivation key and the merchant verification value in a database; 5  
receiving an authorization request message for a transaction that includes an account identifier and the merchant verification value, wherein the authorization request message is sent by the merchant computer;  
sending the authorization request message to an issuer computer for authorization of the transaction; 10  
receiving, from the issuer computer, an authorization response message indicating whether the transaction has been authorized by the issuer computer;  
retrieving the token derivation key using the merchant verification value included in the authorization request message from the database; 15  
generating an account token using the token derivation key by encrypting the account identifier using the token derivation key; 20  
inserting the account token in the authorization response message received from the issuer computer; and  
sending the authorization response message including the account token to the merchant computer, wherein the token derivation key is available only to the server. 25

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## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	27935471
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	30-DEC-2016
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	04:11:56
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	juniorart.pdf	17846  <small>0b4b771fdc9c8d1f9675a5c91070fa3bbbd20ae9</small>	no	1

### Warnings:

EWS-002269



Information:					
2	Miscellaneous Incoming Letter	pat9519802.pdf	1192752	no	14
			ce119b8b9f895736fac1b88e746c53f3332c831		
Warnings:					
Information:					
3	Miscellaneous Incoming Letter	pat9342832.pdf	2341122	no	31
			b03e53d2e9bb8c1a15a33f4135a880d8ef807f77		
Warnings:					
Information:					
			<b>Total Files Size (in bytes):</b>	3551720	
<p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  <b>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  <b>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  <b>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</b></p>					

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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UNIFIED PATENTS INC.,  
Petitioner,

v.

WILLIAM GRECIA,  
Patent Owner.

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Case IPR2016-00789  
Patent 8,402,555 B2

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Before GLENN J. PERRY, RAMA G. ELLURU, and  
MICHELLE N. WORMMEESTER, *Administrative Patent Judges*.

WORMMEESTER, *Administrative Patent Judge*.

DECISION  
Denying Institution of *Inter Partes* Review  
37 C.F.R. § 42.108

Unified Patents Inc. (“Petitioner”) filed a Petition (Paper 1, “Pet.”) requesting *inter partes* review of claims 1–26 of U.S. Patent No. 8,402,555 B2 (Ex. 1001, “the ’555 patent”). William Grecia (“Patent Owner”) filed a Preliminary Response (Paper 5, “Prelim. Resp.”). We have jurisdiction under 35 U.S.C. § 314(a), which provides that an *inter partes* review may not be instituted “unless . . . there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition.” For the reasons that follow, we deny institution of an *inter partes* review.

## I. BACKGROUND

### A. The ’555 Patent

The ’555 patent is titled “Personalized Digital Media Access System (PDMAS).” Ex. 1001, at [54]. The ’555 patent describes a digital rights management system that manages access rights across a plurality of devices via digital media personalization to protect digital media subject to illegal copying. *Id.* at 1:19–26; 4:47–48.

The system includes a first receipt module, an authentication module, a connection module, a request module, a second receipt module, and a branding module. *See id.* at Fig. 1. The first receipt module receives a branding request from a user’s (content acquirer’s) device. *Id.* at 5:45–47. The branding request is a read and write request of metadata of the digital media and includes a membership verification token corresponding to the digital media. *Id.* at 5:47–50. The authentication module authenticates the membership verification token. *Id.* at 5:56–57. The connection module establishes communication with the user’s device. *Id.* at 5:58–60. The

request module requests an electronic identification reference from the user's device. *Id.* at 6:4–6. The second receipt module receives the electronic identification reference. *Id.* at 6:6–8. The branding module brands metadata of the digital media by writing the membership verification token and the electronic identification into the metadata. *Id.* at 6:8–11.

Figure 3, which is reproduced below, illustrates this process.

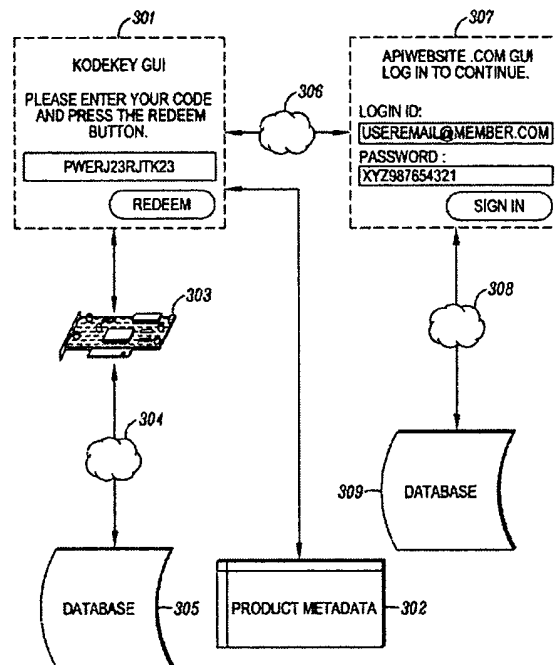


FIG. 3

In particular, Figure 3 is a flow chart of the process of digital media personalization. *Id.* at 4:23–25. A user posts a branding request via Kodekey GUI 301, which prompts the user to enter a token and press the redeem button. *Id.* at 6:65–67, 7:1–3. Product metadata 302 is associated with the digital media to be acquired. *Id.* at 7:3–4. The Kodekey GUI is connected to token database 305. *Id.* at 7:6–7. The user is then redirected to APIwebsite.com GUI 307, which prompts the user to enter a login id and password to access the digital media from database 309. *Id.* at 7:10–11, 14–

17. The APIwebsite.com GUI interfaces to a web service membership, where the user's electronic identification is collected and sent back to the Kodekey GUI. *Id.* at 7:10–14. The database containing the digital media is connected to the web service membership. *Id.* at 7:17–19.

*B. Illustrative Claim*

Petitioner challenges claims 1–26 of the '555 patent. Claims 1, 12, and 15 are independent. Claim 1 is illustrative of the claims under challenge:

1. A method for monitoring access to an encrypted digital media, the method facilitating interoperability between a plurality of data processing devices, the method comprising:
  - receiving an encrypted digital media access branding request from at least one communications console of the plurality of data processing devices, the branding request being a read or write request of metadata of the encrypted digital media, the request comprising a membership verification token provided by a first user, corresponding to the encrypted digital media;
  - authenticating the membership verification token, the authentication being performed in connection with a token database;
  - establishing a connection with the at least one communications console wherein the communications console is a combination of a graphic user interface (GUI) and an Application Programmable Interface (API) protocol, wherein the API is related to a verified web service, the verified web service capable of facilitating a two way data exchange to complete a verification process;
  - requesting at least one electronic identification reference from the at least one communications console wherein the electronic identification reference comprises a verified web service account identifier of the first user;

receiving the at least one electronic identification reference from the at least one communications console; and

branding metadata of the encrypted digital media by writing the membership verification token and the electronic identification reference into the metadata.

*C. Asserted Grounds of Unpatentability*

Petitioner challenges claims 1–26 of the '555 patent on the following grounds.<sup>1</sup> Pet. 4, 14–59.

Reference(s)	Basis	Claims Challenged
DeMello <sup>2</sup>	§ 102	1–6, 8–22, 24, and 25
DeMello, Wieder, <sup>3</sup> and “the admitted prior art”	§ 103	1–10, 12–15, and 17–24
Pestoni <sup>4</sup>	§ 102	1–10, 12–15, and 17–24
Pestoni, Wieder, and “the admitted prior art”	§ 103	1–10, 12–15, and 17–24
DeMello, Wieder, Wisner, <sup>5</sup> and “the admitted prior art”	§ 103	11, 16, 25, and 26

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<sup>1</sup> In summarizing its asserted grounds on page 4 of the Petition, Petitioner requests cancellation of claims 1–26 as unpatentable under 35 U.S.C. § 103 based on “[t]wo main references,” but states on page 14 of the Petition that the same references “anticipate and/or render obvious the claimed subject matter.” Given the substance of Petitioner’s arguments, we address claims 1–25 under 35 U.S.C. §§ 102 and 103. We address claim 26 under only 35 U.S.C. § 103 because Petitioner does not present an anticipation argument for this claim.

<sup>2</sup> DeMello, U.S. Patent No. 6,891,953 B1, issued May 10, 2005 (Ex. 1005).

<sup>3</sup> Wieder, U.S. Patent No. 8,001,612 B1, issued Aug. 16, 2011 (Ex. 1007).

<sup>4</sup> Pestoni, U.S. Publ’n No. 2008/0313264 A1, published Dec. 18, 2008 (Ex. 1006).

<sup>5</sup> Wisner, U.S. Patent No. 6,385,596 B1, issued May 7, 2002 (Ex. 1008).

Reference(s)	Basis	Claims Challenged
Pestoni, Wieder, Wiser, and “the admitted prior art”	§ 103	11, 16, 25, and 26

In support of its arguments, Petitioner proffers the declaration of Ravi S. Cherukuri (Ex. 1009). *See id.*

#### *D. Claim Construction*

We construe claims in an unexpired patent by applying the broadest reasonable interpretation in light of the specification of the patent in which they appear. *See* 37 C.F.R. § 42.100(b); *Cuozzo Speed Techs. LLC v. Lee*, 136 S. Ct. 2131, 2144–46 (2016) (upholding the use of the broadest reasonable interpretation standard). Under this standard, claim terms are given their ordinary and customary meaning, as would be understood by one of ordinary skill in the art in the context of the entire disclosure. *See In re Translogic Tech., Inc.*, 504 F.3d 1249, 1257 (Fed. Cir. 2007). A “claim term will not receive its ordinary meaning if the patentee acted as his own lexicographer,” however, and clearly set forth a definition of the claim term in the specification. *CCS Fitness, Inc. v. Brunswick Corp.*, 288 F.3d 1359, 1366 (Fed. Cir. 2002).

Petitioner provides proposed interpretations for various limitations of the claims. *See* Pet. 12–14. Patent Owner does not respond. For purposes of this Decision, we find it necessary to construe the following claim phrase, which appears in all challenged independent claims 1, 12, and 15: “the request comprising a membership verification token provided by a first user, corresponding to the encrypted digital media.”

With respect to this claim phrase, Petitioner argues that the language “corresponding to the encrypted digital media” modifies the *request*, not the

*membership verification token*, because “the membership verification token is not related to the media until the branding is completed.” Pet. 18. We are unpersuaded by this argument. Claims 1, 12, and 15 recite additionally that the request is “an encrypted digital media access branding request,” where the language “digital media” modifies the *request*. Adopting Petitioner’s construction would render the language “digital media” in this instance redundant and superfluous. *See Digital-Vending Servs. Int’l, LLC v. Univ. of Phoenix, Inc.*, 672 F.3d 1270, 1275 (Fed. Cir. 2012) (claim terms are to be construed “such that words in a claim are not rendered superfluous”).

Moreover, the ’555 patent specification consistently describes a membership verification token as corresponding to digital media. Ex. 1001, 5:47–50 (“The branding request is a read and write request of metadata of the encrypted digital media and includes a membership verification token corresponding to the encrypted digital media.”), 6:37–39 (“According to an embodiment of the present invention, the membership verification token is a kodekey. The kodekey is a unique serial number assigned to the encrypted digital media.”).

Based on the record at this stage of the proceeding, we construe the claim phrase “the request comprising a membership verification token provided by a first user, corresponding to the encrypted digital media” such that the language “corresponding to the encrypted digital media” modifies the membership verification token.



## II. DISCUSSION

### A. Anticipation by DeMello

Petitioner argues that DeMello anticipates claims 1–6, 8–22, 24, and 25 of the '555 patent. *See* Pet. 14–28, 37–40, 42–56. For the reasons explained below, we are not persuaded that Petitioner has demonstrated a reasonable likelihood of prevailing on its asserted ground.

#### 1. DeMello

DeMello describes a digital rights management system that distributes and protects rights in content, such as electronic books (eBooks). Ex. 1006, at [57], 4:43–45. As shown in Figure 4, which is reproduced below, the system includes a retail site, a fulfillment site, and an activation site.

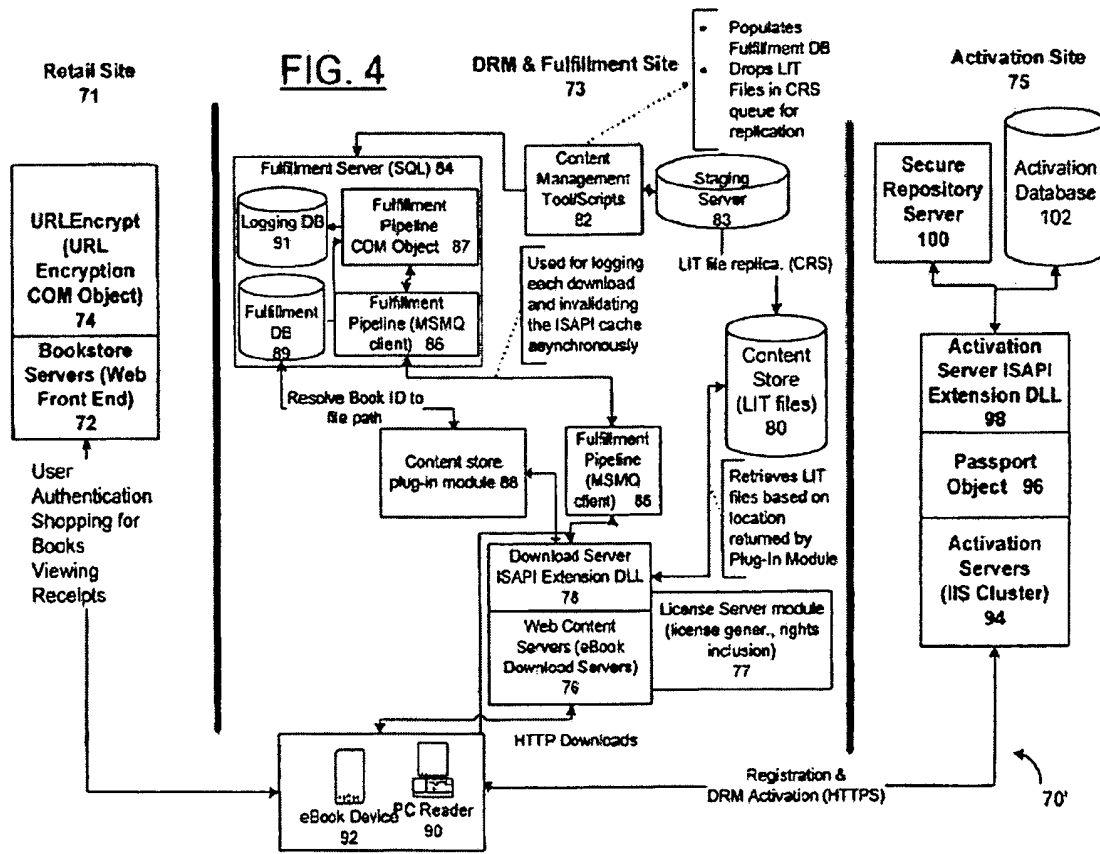


Figure 4 is a block diagram of one embodiment of DeMello's digital rights management system. *Id.* at 4:19–21. The retail site sells eBooks to consumers, the fulfillment site provides the sold eBooks to the consumers, and the activation site enables consumer reading devices to use eBooks with enhanced levels of copy protection (e.g., eBooks requiring licenses). *Id.* at [57], 6:10–16, 21:36–37.

In order to access an eBook, a consumer begins by choosing a title from the retail site and paying for the title. *Id.* at 26:1–4. The retail site then issues a receipt page with a link for downloading the title. *Id.* at 26:4–7. When the consumer clicks on the link, a download server at the fulfillment site adds the consumer's name to the title metadata. *Id.* at 26:15–23, Fig. 4. The title is then downloaded to the consumer's device, and the eBook is opened to its cover page with the rightful owner's name appearing under the author's name. *Id.* at 26:35–36, 27:45–46.

## 2. Analysis

Independent claims 1, 12, and 15 recite a “request comprising a membership verification token provided by a first user, corresponding to the encrypted digital media.” For this limitation, Petitioner identifies the communication between a bookstore server 72 and a user as a “request.” Pet. 18–19. Petitioner further argues that “*DeMello* teaches ‘user authentication’ and establishing a membership relationship with a retailer (left of Figure 4), which inherently would include providing a token, such as a retailer password and/or email (e.g., Amazon log-on credentials).” Pet. 18; *see also id.* at 16 (“authentication credentials (e.g., Amazon.com log-on

credentials), which is a verification token”); *id.* at 19 (“**establish their membership relationship with the retailer** [verification token]”).

We are unpersuaded by this argument. Consistent with our claim construction above, Patent Owner points out that the claims require a membership verification token that corresponds to digital media. Prelim. Resp. 22. Petitioner does not provide persuasive explanation as to how a *retailer* password or e-mail corresponds to *digital media*. Based on the record presented, we are not persuaded that DeMello discloses the recited membership verification token.

Petitioner further argues that the following items in DeMello also satisfy the recited membership verification token: “the username and other credentials,” the purchaser credit card, the purchaser name, and the PASSPORT ID. Pet. 19, 28. Again, Petitioner does not provide persuasive explanation as to how any of these items corresponds to digital media. Based on the record presented, we are unpersuaded by Petitioner’s argument.

In view of the foregoing, we determine that Petitioner has not demonstrated a reasonable likelihood of prevailing in showing that DeMello anticipates independent claims 1, 12, and 15. *See also* Pet. 48 (referring to analysis of claim 1 for claim 12), 49 (referring to analysis of claim 1 for claim 15). Claims 2–6, 8–11, 13, 14, 16–22, 24, and 25 depend from claims 1, 12, or 15. Accordingly, we also determine that Petitioner has not demonstrated a reasonable likelihood of prevailing in showing that DeMello anticipates these dependent claims.

*B. Obviousness over DeMello, Wieder, and the Admitted Prior Art*

Petitioner argues that claims 1–10, 12–15, and 17–24 of the ’555 patent would have been obvious over DeMello, Wieder, and “the admitted prior art.” *See* Pet. 14–52. For the reasons explained below, we are not persuaded that Petitioner has demonstrated a reasonable likelihood of prevailing on its asserted ground.

Independent claims 1, 12, and 15 recite “authenticating the membership verification token, the authentication being performed in connection with a token database.” For this limitation, Petitioner appears to rely on either DeMello or the admitted prior art for teaching authentication of a membership verification token, while relying on Wieder for teaching the token database. *Id.* at 19. In particular, Petitioner identifies Wieder’s usage-rights repository as a “token database.” *Id.* Petitioner also seems to rely additionally on Wieder for teaching the membership verification token, identifying Wieder’s Purchase-Record as a “verification token.” *Id.* at 20.

It is not sufficient, however, for Petitioner to demonstrate that each of the claim elements is known. *See KSR Int’l Co. v. Teleflex Inc.*, 550 U.S. 398, 418 (2007). Petitioner must also provide “some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness.” *In re Kahn*, 441 F.3d 977, 988 (Fed. Cir. 2006).

In that regard, Petitioner does not appear to proffer a sufficient reason for combining either DeMello or Wieder and the admitted prior art.

As to combining DeMello and Wieder, however, Petitioner argues that “[b]ecause *Wieder* and *DeMello* both relate to Digital Rights Management, and both relate to supporting multiple users or user devices, it would be obvious to combine *Wieder* with *DeMello* to implement a database

of user personas associated with multiple user readers.” Pet. 20. Petitioner relies on the testimony of Mr. Cherukuri to support this argument. *Id.* (citing Ex. 1009 ¶¶ 75–85).

Neither Petitioner nor Mr. Cherukuri explains sufficiently why one of ordinary skill in the art would have considered combining DeMello and Weider to arrive at the claimed invention. The mere fact that both DeMello and Weider are in the same field of endeavor falls short of an adequate rationale. The same field of endeavor analysis is merely the jumping-off point in reaching the determination of whether a claimed invention is obvious. *See K-TEC, Inc. v. Vita-Mix Corp.*, 696 F.3d 1364, 1375 (Fed. Cir. 2012) (to qualify as prior art in an obviousness analysis, references must be analogous art—either from the same field of endeavor, or reasonably pertinent to the problem with which the inventor is involved).

Moreover, as discussed above, the only items that Petitioner identifies as satisfying the recited membership verification token are: DeMello’s retailer password or e-mail, “username and other credentials,” purchaser credit card, purchaser name, and PASSPORT ID, as well as Weider’s Purchase-Record. Neither Petitioner nor Mr. Cherukuri explains persuasively how “implement[ing] a database of *user personas*” provides DeMello’s system with a “*token database*.”

Petitioner further argues that “*DeMello* specifically refers to “credit card validation” and “requiring the users to authenticate themselves,” thus referencing the many standard ways of doing this, of which *Wieder* is just one example.” *Id.* at 20. We are unpersuaded by this argument. *Wieder*’s usage-rights repository is “a user’s collection of compositions, represented by the set of usage-rights tokens a user acquires.” Ex. 1007, 8:38–41; *see*

*also id.* at 14:13–16 (“To eliminate user concerns about the loss of their tokens (representing their collection), a user’s complete collection of tokens may be recovered by accessing the usage-rights repository token database.”). Neither Petitioner nor Mr. Cherukuri provides persuasive explanation as to why one of ordinary skill in the art would have considered modifying DeMello’s system to include Wieder’s usage-rights repository for *authenticating* a membership verification token, when Wieder’s usage-rights repository appears to be simply a collection of compositions.

Finally, Petitioner argues adding various items of DeMello, including the PASSPORT ID, the username, and other credentials, to Wieder’s usage-rights repository. Pet. 20. Again, neither Petitioner nor Mr. Cherukuri provides persuasive explanation as to why one of ordinary skill in the art would have considered adding these items of DeMello to Wieder’s usage-rights repository for *authenticating* a membership verification token.

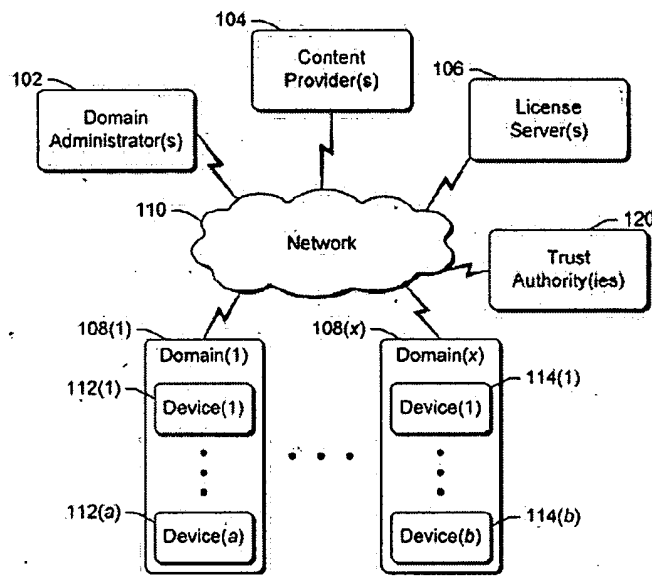
On this record, we are not persuaded that Petitioner has provided adequately articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. *See Kahn*, 441 F.3d at 988. Accordingly, we determine that Petitioner has not demonstrated a reasonable likelihood of prevailing in showing that claims 1, 12, and 15 would have been obvious over DeMello, Wieder, and the admitted prior art. *See also* Pet. 48 (referring to analysis of claim 1 for claim 12), 49 (referring to analysis of claim 1 for claim 15). Claims 2–6, 8–11, 13, 14, 16–22, 24, and 25 depend from claims 1, 12, or 15. We therefore also determine that Petitioner has not demonstrated a reasonable likelihood of prevailing in showing that these dependent claims would have been obvious over DeMello, Wieder, and the admitted prior art.

*C. Anticipation by Pestoni*

Petitioner argues that Pestoni anticipates claims 1–10, 12–15, and 17–24 of the '555 patent. *See* Pet. 14, 28–52. For the reasons explained below, we are not persuaded that Petitioner has demonstrated a reasonable likelihood of prevailing on its asserted ground.

*1. Pestoni*

Pestoni describes a system with domain management for digital media. Ex. 1007, at [57]. As shown in Figure 1, which is reproduced below, the system includes a domain administrator, a content provider, and a license server.



**Fig. 1**

Figure 1 illustrates one embodiment of a system that employs domain management for digital media. *Id.* ¶ 6. Media playback device 112 or 114 may obtain content from content provider 104 by submitting a content

request to the content provider. *Id.* ¶ 67. In order to access and play back the content, the device must have a domain membership license from domain administrator 102 and a content license from license server 106. *Id.* ¶ 17.

To obtain a domain membership license, the device submits a join-domain request to the domain administrator. *Id.* ¶ 38. The request includes parameters to identify the device, such as a device certificate, user credentials, and a device description. *Id.* ¶ 39. If the domain administrator approves the request, the device becomes a member of the domain and receives a domain membership license. *Id.* ¶¶ 38, 44.

To obtain a content license, the device submits a content license request to the license server. *Id.* ¶¶ 69, 72. The request includes parameters, such as a key ID, a domain ID, and a domain certificate, to identify both the content for which the license is being requested and the domain of which the device is a member. *Id.* ¶ 72. In response to the request, the license server validates the domain certificate, and, if successful, approves the request. *Id.* ¶¶ 75, 79. Once the request is approved, the license server generates a content license, binds the license to the domain identified in the request, and provides the device with the license. *Id.* ¶¶ 79–80, 82, 84.

## 2. Analysis

We note that Petitioner argues that the asserted references “anticipate and/or render obvious the claimed subject matter, and are corroborated by the opinion in the Cherukuri Declaration.” Pet. 14. Petitioner does not set forth its entire anticipation analysis in the Petition, however, relying instead on Mr. Cherukuri’s declaration testimony to set forth portions of the



analysis. For example, claim 1 recites a “GUI” and an “API.” Without addressing in the Petition whether Pestoni discloses these claim elements (*see id.* at 32–34), Petitioner directs us to Mr. Cherukuri’s declaration testimony regarding claim 1 generally. *Id.* at 29 (citing Ex. 1009, Exhibit D). That testimony includes a statement that “Pestoni anticipates this claim” as well as Mr. Cherukuri’s anticipation analysis of claim 1. Ex. 1010, Exhibit D. Such reliance on Mr. Cherukuri’s declaration testimony is an improper incorporation by reference of arguments asserted in a declaration, which we will not consider here. *See* 37 C.F.R. § 42.6(a)(3) (“Arguments must not be incorporated by reference from one document into another document.”). Petitioner’s asserted ground fails for this reason.

Based on the record presented, we determine that Petitioner has not demonstrated a reasonable likelihood of prevailing in showing that Pestoni anticipates independent claims 1, 12, and 15. *See also* Pet. 48 (referring to analysis of claim 1 for claim 12), 50 (referring to analysis of claim 1 for claim 15). Claims 2–10, 13, 14, and 17–24 depend from claims 1, 12, or 15. Accordingly, we also determine that Petitioner has not demonstrated a reasonable likelihood of prevailing in showing that Pestoni anticipates these dependent claims.

*D. Obviousness over Pestoni, Wieder, and the Admitted Prior Art*

Petitioner argues that claims 1–10, 12–15, and 17–24 of the ’555 patent would have been obvious over Pestoni, Wieder, and “the admitted prior art.” *See* Pet. 14, 28–52. For the reasons explained below, we are not persuaded that Petitioner has demonstrated a reasonable likelihood of prevailing on its asserted ground.

As discussed above, claims 1, 12, and 15 recite “authenticating the membership verification token, the authentication being performed in connection with a token database.” For this limitation, Petitioner appears to rely on either Pestoni or the admitted prior art for teaching authentication of a membership verification token, while relying on Wieder for teaching the token database. *Id.* at 31–32. Petitioner particularly identifies Wieder’s usage-rights repository as a “token database” and also Wieder’s Purchase-Record as a “verification token.” *See id.*

As noted above, Petitioner must provide “some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness” in addition to demonstrating that each of the claim elements is known. *See Kahn*, 441 F.3d at 988; *KSR*, 550 U.S. at 418.

In that regard, Petitioner does not appear to proffer any reason for combining either Pestoni or Wieder and the admitted prior art, stating only that “*Pestoni* does a similar authentication, as in the admitted prior art, and thus it is the part of *Pestoni* is admitted to be obvious.” Pet. 31. Petitioner does not explain sufficiently why one of ordinary skill in the art would have considered combining Pestoni or Wieder and any other patent or printed publication to arrive at the claimed invention.

As to combining Pestoni and Wieder, Petitioner argues that “[b]ecause *Wieder* and *Pestoni* both relate to Digital Rights Management, and both relate to supporting multiple users or user devices, it would be obvious to combine *Wieder* with *Pestoni* to implement a database of user domains associated with multiple user readers.” *Id.* at 31–32. Petitioner does not, however, explain sufficiently why one of ordinary skill in the art would have considered combining Pestoni and Weider to arrive at the claimed invention.

As explained above, the mere fact that both Pestoni and Weider are in the same field of endeavor falls short of an adequate rationale, as the same field of endeavor analysis is merely the jumping-off point in reaching the determination of whether a claimed invention is obvious. *See K-TEC*, 696 F.3d at 1375.

Moreover, the only items that Petitioner identifies as satisfying the recited membership verification token are: Pestoni's user ID, password, and digital certificate; Weider's Purchase-Record; and credit card information and other personal information in the admitted prior art. Pet. 31, 36–37. Petitioner does not explain persuasively how “implement[ing] a database of *user domains*” provides Pestoni's system with a “*token database*.”

Petitioner further argues that “[t]he *Wieder* database is also described as including other information, and it would be obvious to include the other data of *Pestoni*, and it would be obvious to do this in a single database or multiple databases.” *Id.* at 32. Again, Petitioner does not explain persuasively why one of ordinary skill in the art would have considered combining Pestoni and Wieder to arrive at the claimed invention.

Based on the record presented, we are not persuaded that Petitioner has provided adequately articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. *See Kahn*, 441 F.3d at 988. Accordingly, we determine that Petitioner has not demonstrated a reasonable likelihood of prevailing in showing that claims 1, 12, and 15 would have been obvious over Pestoni, Wieder, and the admitted prior art. *See also* Pet. 48 (referring to analysis of claim 1 for claim 12), 49 (referring to analysis of claim 1 for claim 15). Claims 2–10, 13, 14, and 17–24 depend from claims 1, 12, or 15. We therefore also determine that Petitioner has not

demonstrated a reasonable likelihood of prevailing in showing that these dependent claims would have been obvious over Pestoni, Wieder, and the admitted prior art.

*E. Obviousness over DeMello or Pestoni in View of  
Wieder, Wisner, and the Admitted Prior Art*

Petitioner argues that dependent claims 11, 16, 25, and 26 of the '555 patent would have been obvious over DeMello or Pestoni in view of Wieder, Wisner, and the admitted prior art. *See* Pet. 52–59. Claims 11, 16, 25, and 26 depend from claims 1, 12, or 15. Petitioner's arguments and evidence regarding these dependent claims do not remedy the deficiencies discussed above with respect to the challenges to claims 1, 12, and 15 based on DeMello or Pestoni, either separately or in combination with Wieder and the admitted prior art. On this record, and for the reasons discussed above, we determine that Petitioner has not demonstrated a reasonable likelihood of prevailing on its assertion that claims 11, 16, 25, and 26 would have been obvious over DeMello or Pestoni in view of Wieder, Wisner, and the admitted prior art.

III. CONCLUSION

For the foregoing reasons, we are not persuaded that Petitioner has demonstrated a reasonable likelihood that it would prevail with respect to any of the challenged claims of the '555 patent.

IPR2016-00789  
Patent 8,402,555 B2

IV. ORDER

For the reasons given, it is

ORDERED that the Petition is *denied* as to all challenged claims, and  
no trial is instituted.

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AO 120 (Rev. 2/99)

TO: <b>Mail Stop 8</b> <b>Director of the U.S. Patent &amp; Trademark Office</b> P.O. Box 1450 Alexandria, VA 22313-1450	<b>REPORT ON THE                  FILING OR DETERMINATION OF AN                  ACTION REGARDING A PATENT OR                  TRADEMARK</b>
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In Compliance with 35 § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Northern District California on the  Patents or  Trademarks:

DOCKET NO. CV 15-05474 JCS	DATE FILED 11/30/15	U.S. DISTRICT COURT 450 Golden Gate Avenue, 16 <sup>th</sup> Floor, San Francisco CA 94102
PLAINTIFF WILLIAM GRECIA		DEFENDANT ADOBE SYSTEMS INCORPORATED
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,533,860		***see attach Complaint***
2 8,402,555		
3		
4		
5		

In the above—entitled case, the following patent(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
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CLERK  SUSAN Y. SOONG	(BY) DEPUTY CLERK  Gina Augustine	DATE  December 2, 2015
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Copy 1—Upon initiation of action, mail this copy to Commissioner    Copy 3—Upon termination of action, mail this copy to Commissioner  
 Copy 2—Upon filing document adding patent(s), mail this copy to Commissioner    Copy 4—Case file copy

EWS-002291



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Table with 5 columns: APPLICATION NUMBER, FILING OR 371(C) DATE, FIRST NAMED APPLICANT, ATTY.DOCKET NO./TITLE, REQUEST ID. Values: 13/397,517, 02/15/2012, William Grecia, B7-1, 14148

Acknowledgement of Loss of Entitlement to Entity Status Discount

The entity status change request below filed through Private PAIR on 03/19/2016 has been accepted.

CERTIFICATIONS:

Change of Entity Status:
X Applicant changing to regular undiscounted fee status.
NOTE: Checking this box will be taken to be notification of loss of entitlement to small or micro entity status, as applicable.

This portion must be completed by the signatory or signatories making the entity status change in accordance with 37 CFR 1.4(d)(4).

Table with 2 columns: Label, Value. Rows: Signature: /william grecia/, Name: William Grecia, Registration Number: -



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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
12/766,337 04/23/2010 Scott Ryder P8690US1/14280US.1 1214

47743 7590 12/29/2014
WOMBLE CARLYLE SANDRIDGE & RICE LLP
Attn: IP Docketing
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ATLANTA, GA 30357-0037

EXAMINER

REVAK, CHRISTOPHER A

ART UNIT PAPER NUMBER

2431

NOTIFICATION DATE DELIVERY MODE

12/29/2014

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPDocketing@WCSR.com





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1. The present application is being examined under the pre-AIA first to invent provisions.

## **DETAILED ACTION**

### ***Response to Arguments***

2. It is noted that the Applicant's statement in regards to the Interview Summary dated June 18, 2014 is inaccurate that the amended claim were deemed to be allowable over the cited prior art. Upon review of the previous Examiner's notes, it was agreed upon that the previously cited portions addressed by the Examiner in the previous office action dated March 20, 2014 did not teach the amended language in during that interview. Upon further consideration of the teachings of Grecia, the teachings were found to meet the Applicant's amended claim limitations, please refer below to the amended rejection of the claims.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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4. Claims 1-15 and 19-22 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Grecia, U.S. Patent 8,402,555.

(A) As per claim 1, Grecia discloses a method for authorizing a second user to access content stored on a local cloud (A method of providing unlimited interoperability of digital media between unlimited machines with management of end-user access to the digital media; a method for monitoring access to an encrypted digital media, the method facilitating interoperability between a plurality of data processing devices) (col. 3 lines 10-13; col. 14 lines 36-38), comprising:

receiving, at a librarian service operating on a master device (system/ apparatus shown in FIGS. 1-2; cloud system; cloud storage systems such as Amazon's Web Services Simple Storage Solution or also known as S3) (FIGS. 1-2; col. 5 lines 40-45; col. 6 lines 12-17; col. 9 lines 8-15; col. 15 line 49), a request from a first device owned by a first user to provide a second user with access to content stored on a second device owned the first user (receiving an encrypted digital media access branding request from a communications console of the plurality of data processing devices, wherein the branding request being a request from one or more secondary users connected to the first user, the one or more secondary users comprising one or more of human beings or programmed computerized mechanisms in network of the first user, wherein the one or more secondary users are validated by a membership web service) (FIG. 6: 602; col. 9 lines 20-23; col. 13 line 65 to col. 14 line 22; col. 14 lines 39-45; col. 15 lines 8-15), the local cloud comprising the first and second devices are selected by

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the first user for inclusion in the local cloud (managing access rights across a plurality of devices; providing unlimited interoperability of digital media between unlimited machines with management of end-user access to the digital media; give users freedom to use products outside of the device in which the product was acquired and extend unlimited interoperability with other compatible devices; Another example is a content provider can allow shared access to friends of the excelsior enabler after a time period, like for example, 90 days. After the 90 day period, when media access is requested using the authentication element by a plurality of secondary enablers, which are usually friends and family of the excelsior enabler, the FBID of the excelsior enabler is cross-referenced with the FBID of the requesting secondary enabler by way of the apparatus ability to execute the Facebook "Friends.areFriends" API command.; receiving an encrypted digital media access branding request from a communications console of the plurality of data processing devices, wherein the branding request being a request from one or more secondary users connected to the first user, the one or more secondary users comprising one or more of human beings or programmed computerized mechanisms in network of the first user, wherein the one or more secondary users are validated by a membership web service) (col. 1 lines 24-26; col. 3 lines 10-13; col. 4 lines 6-10; col. 12 lines 10-18; col. 15 lines 8-15);

receiving, at the librarian service from the second device, an indication that the second user is authorized to access the content stored on the second device (The apparatus can ask the potential secondary enabler to participate in communication with the authentication element. The apparatus requires the potential secondary enabler to

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participate in communication with the authentication element to provide credentials to establish a cross-reference comparison with the FBID retrieved from the metadata and the FBID retrieved from the Facebook "Friends.areFriends" API command to determine if the potential secondary enabler identity is true or false;) (col. 13 line 66 to col. 14 line 10; col. 15 lines 3-18);

determining, at the librarian service, whether the second user is known to the librarian service (determining if the potential secondary enabler identity is true or false, wherein the one or more secondary users are validated by a membership web service, wherein a membership verification token represents verification from content provider to grant access rights to the first user and the one or more secondary users) (col. 14 lines 9-10; col. 15 lines 8-18);

in response to determining that the second user is known, identifying credentials associated with the second user (e.g., MAC address and FBID) (If the comparison action proves to be true, then access rights is granted to the secondary enabler. The current MAC address of the networking card as part of The App and the FBID retrieved are appended to the established metadata information the encrypted digital media asset and access rights can be granted to a plurality of secondary enablers.) (col. 14 lines 12-18);

associating the credentials of the second user with the content (If the comparison action proves to be true, then access rights is granted to the secondary enabler. The current MAC address of the networking card as part of The App and the FBID retrieved are appended to the established metadata information the encrypted digital media asset

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and access rights can be granted to a plurality of secondary enablers.) (col. 14 lines 12-18); and

sending, from the librarian service, an indication to the second user to connect to the local cloud to view the content (FIG. 7 shows a flowchart showing authoring an encrypted digital media. The one or more media items are encrypted to create the encrypted digital media at the step 710.; accessing the digital media as shown in FIG. 5; access rights are granted to a plurality of secondary enablers by the system; unlimited interoperability between devices and “fair use” sharing partners for an infinite time frame; wherein the encrypted digital media is shared with one or more users according to a membership) (col. 8 lines 5-6, lines 31-33, lines 41-42; col. 14 lines 12-22; col. 15 lines 19-21).

The teachings of Grecia mention that access by the device is enabled by physical authentication of the enabler who enters their credentials at the device, see col. 11, lines 11-16 and col. 13, lines 3-5 & 45-53. The teachings also disclose of granting permission to a plurality of secondary enablers, see col. 9, lines 21-23. Although the teachings fail to explicitly recite that the secondary enablers (second user) connects to the local cloud via a third device associated with the second user, it is obvious to one of ordinary skill in the art that the teachings of Grecia can be interpreted in this manner. Grecia discloses that access rights are managed across a plurality of devices (col. 13, lines 22-24) and that any compatible device associated with the secondary enabler (second user) can be authenticated as indicated by the excelsior enabler (first user), see the abstract and col. 11, lines 11-16. According to

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the Supreme Court, the teaching, suggestion, or motivation test (TSM test) is one of a number of valid rationales that could be used to determine obviousness. It is not the only rationale that may be relied upon to support a conclusion of obviousness. (*KSR International Co. v. Teleflex Inc.*, 82 USPQ2d 1385 (2007)). The claim would have been obvious because the substitution of one known element for another would have yielded predictable results to one of ordinary skill in the art at the time of the invention.

(B) As per claim 2, Grecia discloses further comprising:

identifying the first user providing the request (Once an enabler executes an action for access request, the apparatus will obtain the decryption key to first seek the MAC address record. If the MAC address is found, then a cross-reference process is executed by comparing the MAC address retrieved from the metadata of the digital media file with the MAC address retrieved from the networking card connected to the apparatus or the App. If the comparison action proves to be true, then access right are granted to the enabler.) (col. 13 lines 45-53); and

determining whether the first user is authorized to grant access to the content (Cross-referencing is used to verify access rights of an enabler or secondary enabler. If the MAC address is found, then a cross-reference process is executed by comparing the MAC address retrieved from the metadata of the digital media file with the MAC address retrieved from the networking card connected to the apparatus or the App. If

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the comparison action proves to be true, then access rights are granted to the enabler.)  
(col. 13 lines 45-53; col. 13 line 65 to col. 14 line 18).

(C) As per claim 3, Grecia discloses wherein:

the request comprises identifying information for the second user (secondary enabler provides credentials to establish a cross-reference comparison with the FBID retrieved from the metadata and the FBID retrieved from the Facebook “Friends.areFriends” API command) (col. 14 lines 3-10).

(D) As per claim 4, Grecia discloses wherein the identifying information comprises at least one of:

an email address (see the login ID in FIG. 3: 307, FIG. 4: 407, and FIG. 5: 509); ;  
and a telephone number.

(E) As per claim 5, Grecia discloses further comprising:

determining that the second user is a new user; and generating new credentials for the second user (The token represents permission from the content provider to grant access rights to the excelsior enabler and thereafter the plurality of secondary enablers. To set up the verification the content provider can manually or automatically generate a single or a plurality of structured or random password in which will represent the token.)  
(col. 9 lines 20-25).



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(F) As per claim 6, Grecia discloses wherein said identifying credentials associated with the second user further comprises:

retrieving previously generated credentials associated with the second user (If the FBID cross-reference fails, then the apparatus can either ask the potential secondary enabler to participate in communication with the authentication element of the invention, or could deny further interactivity with the potential secondary enabler. In this discussion, the apparatus requires the potential secondary enabler to participate in communication with the authentication element to provide credentials to establish a cross-reference comparison with the FBID retrieved from the metadata and the FBID retrieved from the Facebook "Friends.areFriends" API command to determine if the potential secondary enabler identity is true or false. The determination is in accordance to any possible access grace periods set by the content provider of the encrypted digital media asset. If the comparison action proves to be true, then access rights is granted to the secondary enabler and the current MAC address of the networking card as part of The App and the FBID retrieved are appended to the established metadata information of the encrypted digital media asset and access rights can be granted to a plurality of secondary enablers) (col. 13 line 66 to col. 14 line 18).

(G) As per claim 7, Grecia discloses wherein authorizing further comprises:

adding the credentials to an access control list associated with the content (storing a complete list of a plurality of FBIDs to the key file or the metadata thereof;

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writing information to the digital media metadata, the information including the MAC address, CRC checksum, etc.) (col. 11 line 60 to col. 12 line 9; col. 12 lines 44-55).

(H) As per claim 8, Grecia discloses further comprising providing addressing information for the local cloud to the second user, wherein said providing further comprises:

providing a network address for at least one node of the local cloud (MAC address from a networking card; retrieving the MAC address) (col. 12 lines 44-58; col. 13 line 43 to col. 14 line 22 discusses the process of using MAC addresses).

(I) As per claim 9, Grecia discloses wherein:

the at least one node operates a service indicating how to access the content (membership service validates secondary users using a membership verification token representing verification from content provider to grant access rights to the first user and one or more secondary users) (col. 15 lines 8-18).

(J) Claims 10-15 and 19-20 repeat the limitations of claims 1-9, and are therefore rejected for the same reasons as those claims, and incorporated herein.

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(K) As per claims 21, Grecia teaches wherein:

Sending an indication to the second user comprising providing, to the second user, a link to the content (col. 6, lines 21-23 and col. 9, lines 21-23).

(L) As per claim 22, Grecia discloses wherein:

Sending an indication to the second user comprises providing, to the second user, an instruction to operate a particular application used to access the content (col. 6, lines 21-23 and col. 9, lines 21-23).

### ***Conclusion***

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER REVAK whose telephone number is (571)272-3794. The examiner can normally be reached on Monday-Thursday, 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cordelia Zecher can be reached on 571-272-7771. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHRISTOPHER REVAK/  
Primary Examiner, Art Unit 2431

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	21070653
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	29-DEC-2014
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	10:04:42
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Other Reference-Patent/App/Search documents	12766337.pdf	467242 <small>c1e96ddf09bed9ffbd5827ab29e8fe0e3157529f</small>	no	13

### Warnings:

### Information:

EWS-002306

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**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

*Notification of Loss of Small Entity Status*

Applicant on July 10, 2014 signed a licensing agreement with an entity that would not qualify for Small Entity Status, thus passing through the non-qualification as per PTO rules. Applicant will pay full entity fees from this said date of entity change.

Respectfully

/William Grecia/  
William Grecia  
Applicant Pro Se

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	19591997
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	16-JUL-2014
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	10:47:53
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

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### Warnings:

### Information:

EWS-002309



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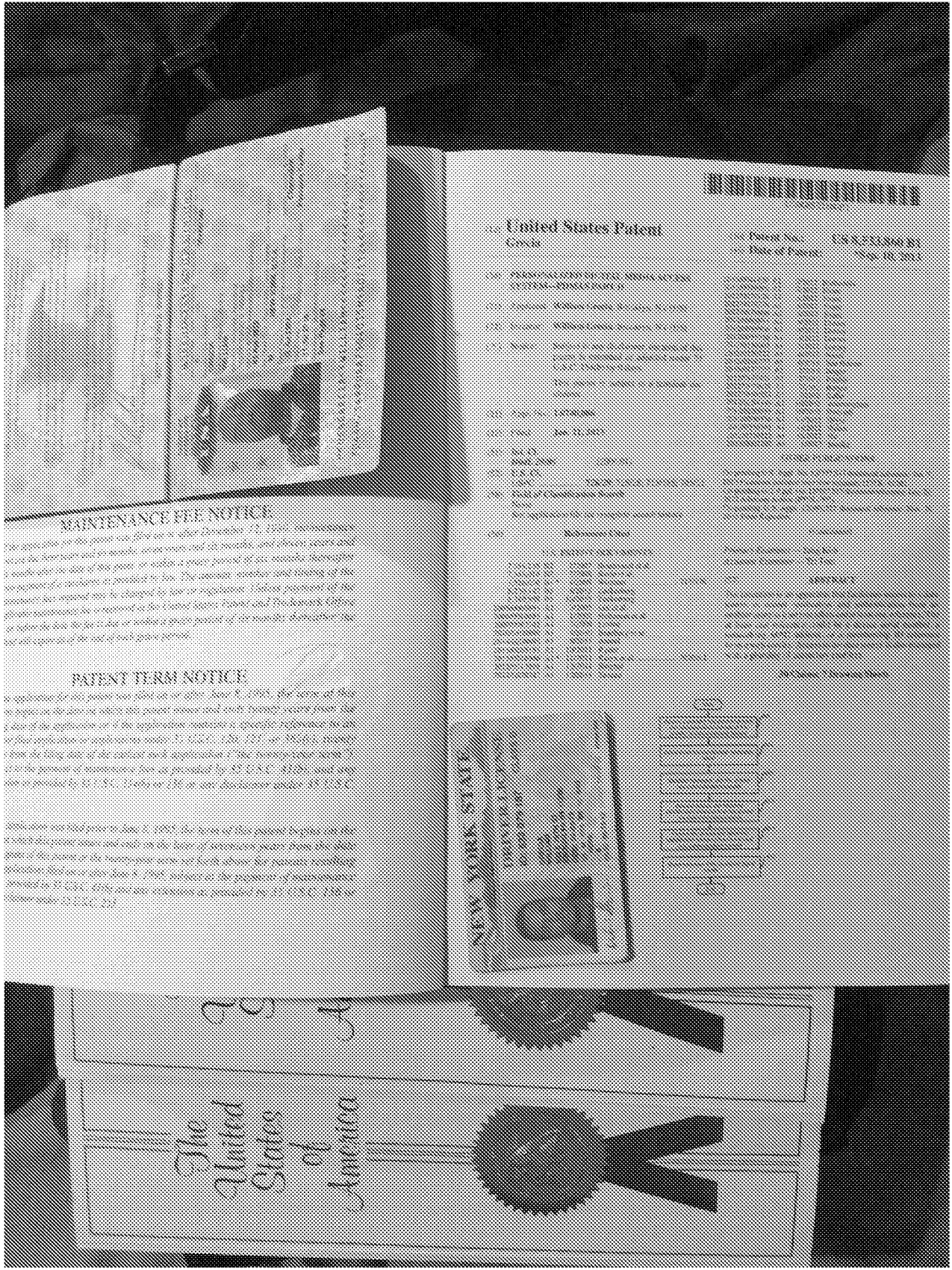
**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

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**MAINTENANCE FEE NOTICE**

The application for this patent was filed on or after December 31, 1980, and is subject to the first, second, and third maintenance fee provisions of 35 U.S.C. 419. The first maintenance fee is due on the date of this notice or within a grace period of six months thereafter. The second and third maintenance fees are due on the date of this notice or within a grace period of six months thereafter. Failure to pay the maintenance fee on or before the date specified will result in the patent being deemed abandoned.

**PATENT TERM NOTICE**

Application for this patent was filed on or after June 8, 1995, the term of this patent is the term of which this patent issues and such term is measured from the date of the application or if the application contains a specific reference to an earlier application or applications under 35 U.S.C. 120, 121, or 364(a), measured from the filing date of the earliest such application. The longest term under 35 U.S.C. 362 is the period of maintenance fees as provided by 35 U.S.C. 419, and any term or period under 35 U.S.C. 424 or 425 or any disclaimer under 35 U.S.C.

Application was filed prior to June 8, 1995, the term of this patent begins on the date this patent issues and ends on the date of anniversary years from the date of the issue of the maintenance fees set forth above the patent resulting therefrom filed after June 8, 1995, subject to the payment of maintenance fees as provided in 35 U.S.C. 419 and any extension as provided by 35 U.S.C. 424 or 425.

**United States Patent**  
Garcia

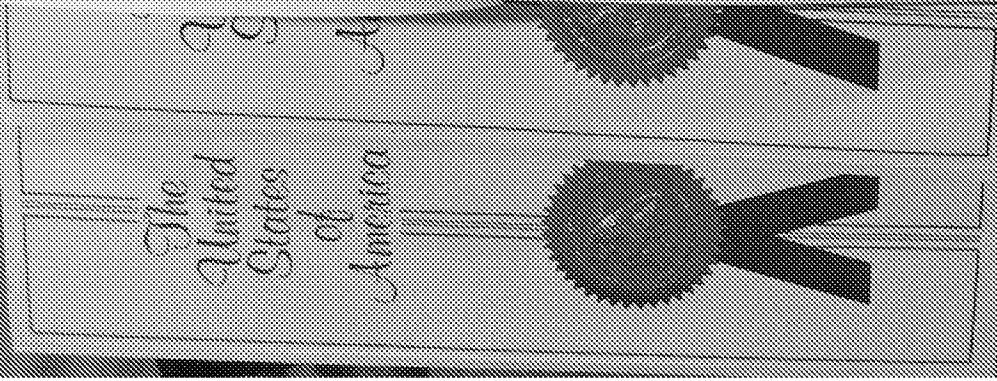
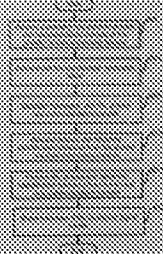
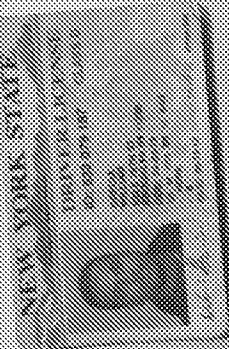
Patent No. 8,533,860 B1  
Date of Patent: Sep. 18, 2012

Table with columns for Class, Subclass, and Title. Includes entries for 'PERSONALIZED DIGITAL ADDRESS SYSTEMS' and 'METHODS AND APPARATUS FOR PROVIDING PERSONALIZED DIGITAL ADDRESS SYSTEMS'.

Field of Classification Search  
An application of the present invention

Table with columns for Class, Subclass, and Title. Includes entries for 'PERSONALIZED ADDRESS SYSTEMS' and 'METHODS AND APPARATUS FOR PROVIDING PERSONALIZED ADDRESS SYSTEMS'.

Abstract  
The invention is an apparatus and method for providing personalized digital address systems. The apparatus includes a processor and a memory. The processor is configured to receive a request for a personalized digital address system and to generate a personalized digital address system based on the request. The method includes receiving a request for a personalized digital address system and generating a personalized digital address system based on the request.



US Patent 8,533,860 with valid Passport and Driver License of William Garcia



US Patent 8,402,555 and COC with valid Passport and Driver License of William Greca

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	19321448
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	16-JUN-2014
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	22:14:52
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	patentID.pdf	2492559 <small>108f477b051dfe42c896319b398e87316f74 a6e5</small>	no	3

### Warnings:

### Information:

EWS-002314

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**New Applications Under 35 U.S.C. 111**

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
12/766,337 04/23/2010 Scott Ryder P8690US1/14280US.1 1214

47743 7590 03/20/2014
WOMBLE CARLYLE SANDRIDGE & RICE LLP
Attn: IP Docketing
P. O. BOX 7037
ATLANTA, GA 30357-0037

EXAMINER

KOSOWSKI, CAROLYN M

ART UNIT PAPER NUMBER

2431

NOTIFICATION DATE DELIVERY MODE

03/20/2014

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPDocketing@WCSR.com





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1. The present application is being examined under the pre-AIA first to invent provisions.

### **DETAILED ACTION**

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on May 23, 2013 has been entered.

3. Claims 1-15 and 19-20 are pending. Claims 16-18 have been cancelled. Claims 1, 10, and 19-20 have been amended.

### ***Information Disclosure Statements***

4. The Information Disclosure Statements filed on May 23, 2013, October 24, 2013, and December 5, 2013 have been entered and considered.

5. The Non-Patent Literature Documents submitted in the May 23, 2013 Information Disclosure Statement (IDS) appear to have an incorrect date of publication. Document 1 does not include a date of publication. Document 2 was published in 2012. The date of publication has been changed on the IDS.

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***Claim Rejections - 35 USC § 102***

6. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-15 and 19-20 are rejected under pre-AIA 35 U.S.C. 102(e) as being anticipated by Grecia (U.S. Patent No. 8,402,555).

(A) As per claim 1, Grecia discloses a method for authorizing a second user to access content stored on a local cloud (A method of providing unlimited interoperability of digital media between unlimited machines with management of end-user access to the digital media; a method for monitoring access to an encrypted digital media, the method facilitating interoperability between a plurality of data processing devices) (col. 3 lines 10-13; col. 14 lines 36-38), comprising:

receiving, at a librarian service operating on a master device (system/ apparatus shown in FIGS. 1-2; cloud system; cloud storage systems such as Amazon's Web Services Simple Storage Solution or also known as S3) (FIGS. 1-2; col. 5 lines 40-45; col. 6 lines 12-17; col. 9 lines 8-15; col. 15 line 49), a request from a first device of a first user to provide a second user with access to content stored on a second device in a local cloud of the first user (receiving an encrypted digital media access branding

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request from a communications console of the plurality of data processing devices, wherein the branding request being a request from one or more secondary users connected to the first user, the one or more secondary users comprising one or more of human beings or programmed computerized mechanisms in network of the first user, wherein the one or more secondary users are validated by a membership web service) (FIG. 6: 602; col. 9 lines 20-23; col. 13 line 65 to col. 14 line 22; col. 14 lines 39-45; col. 15 lines 8-15), the local cloud comprising the first and second devices selected by the first user for inclusion in the local cloud (managing access rights across a plurality of devices; providing unlimited interoperability of digital media between unlimited machines with management of end-user access to the digital media; give users freedom to use products outside of the device in which the product was acquired and extend unlimited interoperability with other compatible devices; Another example is a content provider can allow shared access to friends of the excelsior enabler after a time period, like for example, 90 days. After the 90 day period, when media access is requested using the authentication element by a plurality of secondary enablers, which are usually friends and family of the excelsior enabler, the FBID of the excelsior enabler is cross-referenced with the FBID of the requesting secondary enabler by way of the apparatus ability to execute the Facebook "Friends.areFriends" API command.; receiving an encrypted digital media access branding request from a communications console of the plurality of data processing devices, wherein the branding request being a request from one or more secondary users connected to the first user, the one or more secondary users comprising one or more of human beings or programmed computerized

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mechanisms in network of the first user, wherein the one or more secondary users are validated by a membership web service) (col. 1 lines 24-26; col. 3 lines 10-13; col. 4 lines 6-10; col. 12 lines 10-18; col. 15 lines 8-15);

receiving, at the librarian service from the second device, an indication that the second user is authorized to access the content stored on the second device (The apparatus can ask the potential secondary enabler to participate in communication with the authentication element. The apparatus requires the potential secondary enabler to participate in communication with the authentication element to provide credentials to establish a cross-reference comparison with the FBID retrieved from the metadata and the FBID retrieved from the Facebook "Friends.areFriends" API command to determine if the potential secondary enabler identity is true or false;) (col. 13 line 66 to col. 14 line 10; col. 15 lines 3-18);

determining, at the librarian service, whether the second user is known to the librarian service (determining if the potential secondary enabler identity is true or false, wherein the one or more secondary users are validated by a membership web service, wherein a membership verification token represents verification from content provider to grant access rights to the first user and the one or more secondary users) (col. 14 lines 9-10; col. 15 lines 8-18);

in response to determining that the second user is known, identifying credentials associated with the second user (e.g., MAC address and FBID) (If the comparison action proves to be true, then access rights is granted to the secondary enabler. The current MAC address of the networking card as part of The App and the FBID retrieved

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are appended to the established metadata information the encrypted digital media asset and access rights can be granted to a plurality of secondary enablers.) (col. 14 lines 12-18);

associating the credentials of the second user with the content (If the comparison action proves to be true, then access rights is granted to the secondary enabler. The current MAC address of the networking card as part of The App and the FBID retrieved are appended to the established metadata information the encrypted digital media asset and access rights can be granted to a plurality of secondary enablers.) (col. 14 lines 12-18); and

sending, from the librarian service, an indication to the second user to connect to the local cloud to view the content (FIG. 7 shows a flowchart showing authoring an encrypted digital media. The one or more media items are encrypted to create the encrypted digital media at the step 710.; accessing the digital media as shown in FIG. 5; access rights are granted to a plurality of secondary enablers by the system; unlimited interoperability between devices and “fair use” sharing partners for an infinite time frame; wherein the encrypted digital media is shared with one or more users according to a membership) (col. 8 lines 5-6, lines 31-33, lines 41-42; col. 14 lines 12-22; col. 15 lines 19-21).

(B) As per claim 2, Grecia discloses further comprising:

identifying the first user providing the request (Once an enabler executes an action for access request, the apparatus will obtain the decryption key to first seek the MAC address record. If the MAC address is found, then a cross-reference process is

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executed by comparing the MAC address retrieved from the metadata of the digital media file with the MAC address retrieved from the networking card connected to the apparatus or the App. If the comparison action proves to be true, then access right are granted to the enabler.) (col. 13 lines 45-53); and

determining whether the first user is authorized to grant access to the content (Cross-referencing is used to verify access rights of an enabler or secondary enabler. If the MAC address is found, then a cross-reference process is executed by comparing the MAC address retrieved from the metadata of the digital media file with the MAC address retrieved from the networking card connected to the apparatus or the App. If the comparison action proves to be true, then access rights are granted to the enabler.) (col. 13 lines 45-53; col. 13 line 65 to col. 14 line 18).

(C) As per claim 3, Grecia discloses wherein:

the request comprises identifying information for the second user (secondary enabler provides credentials to establish a cross-reference comparison with the FBID retrieved from the metadata and the FBID retrieved from the Facebook “Friends.areFriends” API command) (col. 14 lines 3-10).

(D) As per claim 4, Grecia discloses wherein the identifying information comprises at least one of:

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an email address (see the login ID in FIG. 3: 307, FIG. 4: 407, and FIG. 5: 509); ;  
and

a telephone number.

(E) As per claim 5, Grecia discloses further comprising:

determining that the second user is a new user; and generating new credentials for the second user (The token represents permission from the content provider to grant access rights to the excelsior enabler and thereafter the plurality of secondary enablers. To set up the verification the content provider can manually or automatically generate a single or a plurality of structured or random password in which will represent the token.) (col. 9 lines 20-25).

(F) As per claim 6, Grecia discloses further comprising:

determining that the second user is known; and retrieving previously generated credentials associated with the second user (If the FBID cross-reference fails, then the apparatus can either ask the potential secondary enabler to participate in communication with the authentication element of the invention, or could deny further interactivity with the potential secondary enabler. In this discussion, the apparatus requires the potential secondary enabler to participate in communication with the authentication element to provide credentials to establish a cross-reference comparison with the FBID retrieved from the metadata and the FBID retrieved from the Facebook "Friends.areFriends" API command to determine if the potential secondary enabler identity is true or false. The determination is in accordance to any possible access

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grace periods set by the content provider of the encrypted digital media asset. If the comparison action proves to be true, then access rights is granted to the secondary enabler and the current MAC address of the networking card as part of The App and the FBID retrieved are appended to the established metadata information of the encrypted digital media asset and access rights can be granted to a plurality of secondary enablers) (col. 13 line 66 to col. 14 line 18).

(G) As per claim 7, Grecia discloses wherein authorizing further comprises:

adding the credentials to an access control list associated with the content (storing a complete list of a plurality of FBIDs to the key file or the metadata thereof; writing information to the digital media metadata, the information including the MAC address, CRC checksum, etc.) (col. 11 line 60 to col. 12 line 9; col. 12 lines 44-55).

(H) As per claim 8, Grecia discloses wherein providing accessing information further comprises:

providing a network address for at least one node of the local cloud (MAC address from a networking card; retrieving the MAC address) (col. 12 lines 44-58; col. 13 line 43 to col. 14 line 22 discusses the process of using MAC addresses).

(I) As per claim 9, Grecia discloses wherein:



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the at least one node operates a service indicating how to access the content (membership service validates secondary users using a membership verification token representing verification from content provider to grant access rights to the first user and one or more secondary users) (col. 15 lines 8-18).

(J) Claims 10-15 and 19-20 repeat the limitations of claims 1-9, and are therefore rejected for the same reasons as those claims, and incorporated herein.

### ***Interview***

8. It is suggested that Applicant's representative contact the Examiner to set up an interview regarding this application.

### ***Conclusion***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CAROLYN B. KOSOWSKI whose telephone number is (571)272-7688. The examiner can normally be reached on Monday through Friday 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cordelia Zecher can be reached on 571-272-7771. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2431

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CAROLYN B KOSOWSKI/  
Primary Examiner, Art Unit 2431

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	18645335
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	01-APR-2014
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	19:16:48
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	12766337_nfoa.pdf	420834 <small>788864cd0c8cbe42426bfb6b6f4fdca53f77776</small>	no	12

### Warnings:

### Information:

EWS-002328

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**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 8,402,555 B2  
APPLICATION NO. : 13/397517  
DATED : March 19, 2013  
INVENTOR(S) : William Grecia

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims

In claim 11, column 15, line 57; claim 16, column 17, line 14; and claim 25, column 18, line 26:

“selected from a group consisting of a purchase permission, a rental permission, or membership permission coupled to a royalty scheme; wherein the permission is represented by”,

in each occurrence, should be changed to and read as

--selected from the group consisting of a purchase permission, a rental permission, and a membership permission, coupled to a royalty scheme; wherein the purchase permission, rental permission, and membership permission is represented by--

In claim 4, column 15, line 16; and claim 20, column 17, line 52:

“content provider” in each occurrence, should be changed to and read as --a content provider--

Signed and Sealed this  
Fourth Day of February, 2014



Michelle K. Lee  
*Deputy Director of the United States Patent and Trademark Office*

EWS-002330

SPE RESPONSE FOR CERTIFICATE OF CORRECTION

Paper No.: \_\_\_\_\_

DATE: 10/22/13

TO SPE OF : ART UNIT 2494

13/397,517

SUBJECT : Request for Certificate of Correction for Appl. No.:

13/397,517

Patent No.: 8402555

COCIN mailroom date: 9/16/13

Please respond to this request for a certificate of correction within 7 days.

**FOR IFW FILES:** Should COCC be granted

Please review the requested changes/corrections as shown in the COCIN document(s) in the IFW application image. No new matter should be introduced nor should the scope or meaning of the claims be changed.

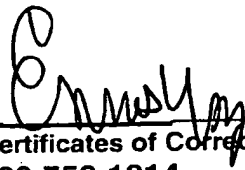
Please complete the response (see below) and forward the completed response to scanning using document code COCX.

**FOR PAPER FILES:**

Please review the requested changes/corrections as shown in the attached certificate of correction. Please complete this form (see below) and forward it with the file to:

**Certificates of Correction Branch (CofC)  
Randolph Square – 9D10-A  
Palm Location 7580**

In particular note: \_\_\_\_\_

  
\_\_\_\_\_  
Certificates of Correction Branch  
703-756-1814

Thank You For Your Assistance

**The request for issuing the above-identified correction(s) is hereby:**

Note your decision on the appropriate box.

- Approved** All changes apply.
- Approved in Part** Specify below which changes **do not** apply.
- Denied** State the reasons for denial below.

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

/Jung Kim/

2494

SPE

Art Unit

## **Priority Strings™** *This list was updated on 11/25/2013*

Priority Strings is a system that narrows a USPTO advanced patent application search query down (using only specification keywords) to the associated parent applications of this case, and the earliest patent application filed subsequently by other applicants with similar specification disclosure. This is possible because the specification disclosure of this case precedes in scope to these later filed applications:

**Apple: 12/766,337; 12/846,373; 12/846,363 – USPTO advanced search result shortcut: <http://goo.gl/pFAMik>**  
spec/internet and spec/communications and spec/personal and spec/user and spec/"cloud storage" and spec/component and spec/electronic and spec/network and spec/remote and spec/services and spec/devices and spec/audio and spec/video and spec/"digital media" and spec/bluetooth and spec/first and spec/second and spec/metadata and spec/authentication and spec/automatically and spec/encryption and spec/write and spec/access and spec/authorization and spec/credentials and spec/interface and spec/define and spec/administration

**Google: 13/111,877; 13/248,804 – USPTO shortcut: <http://goo.gl/Y2z0QC>**  
spec/"media products" and spec/api and spec/identity and spec/software and spec/unlicensed

**Microsoft: 13/187,767 - USPTO shortcut: <http://1.usa.gov/1dvsKdx>**  
spec/"operating system" and spec/cloud and spec/unauthorized and spec/content and spec/application and spec/authorization and spec/authentication and spec/id and spec/token and spec/provider and spec/video and spec/"login id" and spec/credentials and spec/"Network Interface" and spec/combination and spec/"providing access" and spec/hosting and spec/identification and spec/decryption and spec/create

**Sony Network Entertainment: 13/312,184 - USPTO shortcut: <http://goo.gl/HziQVg>**  
spec/digital and spec/rights and spec/device and spec/server and spec/identifier and spec/established and spec/protocol and spec/management and spec/relationship and spec/service and spec/provider and spec/user and spec/database and spec/HTTPS and spec/token and spec/encryption and spec/key and spec/associated and spec/private and spec/access and spec/cloud and spec/storage and spec/Windows and spec/AES and spec/image and spec/audio and spec/video and spec/worldwide and spec/interface and spec/client and spec/software and spec/memory and spec/data and spec/communication and spec/valid and spec/authenticated and spec/network and spec/decrypt and spec/"copy protection"

**Sony Pictures: 13/436,567 - USPTO shortcut: <http://goo.gl/LFuMvr>**  
spec/"grant access" and spec/improve and spec/consumer and spec/optical and spec/media and spec/formats and spec/requested and spec/audio and spec/shared and spec/different and spec/levels and spec/personal and spec/cloud and spec/user and spec/entered and spec/relevant and spec/information and spec/building and spec/manage and spec/rights and spec/control and spec/advantages and spec/features and spec/ability and spec/rely and spec/business and spec/entities and spec/content and spec/providers and spec/valid and spec/authorization and spec/agent and spec/granted and spec/"credit card" and spec/hosting and spec/services and spec/phone and spec/number and spec/computer and spec/applications and spec/embedded and spec/"flash memory" and spec/receives and spec/minimum and spec/requests and spec/hardware and spec/electronic and spec/identifier and spec/built and spec/"operating system" and spec/permanent and spec/ROM and spec/length and spec/time and spec/long-term and spec/scenario and spec/disc

**Amazon: 12/889,888; 12/890,314 - USPTO shortcut: <http://goo.gl/Y6g7bl>**  
spec/"cloud computing" and spec/communication and spec/established and spec/connection and spec/console and spec/format and spec/authorization and spec/first and spec/second and spec/user and spec/authenticated and spec/device and spec/proprietary and spec/XML and spec/"media files"

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	17488207
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	25-NOV-2013
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	07:59:00
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	Priority_StringsII.pdf	377727 <small>1064f4ba38e1ca4fc5crlab78c5e7101ffdd4344a</small>	no	1

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EWS-002333



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**New Applications Under 35 U.S.C. 111**

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**National Stage of an International Application under 35 U.S.C. 371**

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**New International Application Filed with the USPTO as a Receiving Office**

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SPE RESPONSE FOR CERTIFICATE OF CORRECTION

Paper No.: \_\_\_\_\_

DATE: 10/22/13

TO SPE OF : ART UNIT 2494

13/397,517

SUBJECT : Request for Certificate of Correction for Appl. No.: 13/397,517 Patent No.: 8402555

COCIN mailroom date: 9/16/13

Please respond to this request for a certificate of correction within 7 days.

**FOR IFW FILES:** Should COFC be Granted

Please review the requested changes/corrections as shown in the COCIN document(s) in the IFW application image. No new matter should be introduced nor should the scope or meaning of the claims be changed.

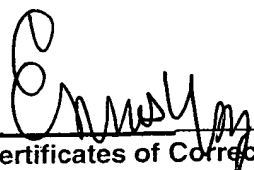
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Randolph Square - 9D10-A  
Palm Location 7580

In particular note: \_\_\_\_\_

  
\_\_\_\_\_  
Certificates of Correction Branch  
703-756-1814

Thank You For Your Assistance

The request for issuing the above-identified correction(s) is hereby:

Note your decision on the appropriate box.

- Approved** All changes apply.
- Approved in Part** Specify below which changes **do not** apply.
- Denied** State the reasons for denial below.

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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## Priority Strings™ *This list was compiled on 10/19/2013*

Priority Strings is a system that narrows a USPTO advanced patent application search query down (using only specification keywords) to the associated patent applications of this case, and the earliest patent application filed subsequently by other applicants with similar specification disclosure. This is possible because the specification disclosure of this case precedes in scope to these later filed applications:

### **20110265157 – USPTO advanced search result shortcut: <http://goo.gl/Y9PzqB>**

spec/personal and spec/"cloud storage" and spec/share and spec/content and spec/stored and spec/network and spec/storage and spec/system and spec/device and spec/associated and spec/first and spec/second and spec/user and spec/determine and spec/identification and spec/protocol and spec/encryption and spec/interface and spec/credentials and spec/"grant access" and spec/authorization and spec/Bluetooth and spec/software and spec/list and spec/video and spec/audio and spec/e-mail and spec/address and spec/providing and spec/automatically and spec/generated and spec/executed and spec/button

### **20130024919 – USPTO shortcut: <http://goo.gl/rtThG1>**

spec/"operating system" and spec/cloud and spec/unauthorized and spec/content and spec/application and spec/authorization and spec/authentication and spec/id and spec/token and spec/provider and spec/video and spec/"login id" and spec/credentials and spec/"Network Interface" and spec/combination and spec/"providing access" and spec/hosting and spec/identification and spec/create

### **20130145161 - USPTO shortcut: <http://goo.gl/fXWwXC>**

spec/digital and spec/rights and spec/device and spec/server and spec/identifier and spec/established and spec/protocol and spec/management and spec/relationship and spec/service and spec/provider and spec/user and spec/database and spec/HTTPS and spec/token and spec/encryption and spec/key and spec/associated and spec/private and spec/access and spec/cloud and spec/storage and spec/Windows and spec/AES and spec/image and spec/audio and spec/video and spec/worldwide and spec/interface and spec/client and spec/software and spec/memory and spec/data and spec/communication and spec/valid and spec/authenticated and spec/network and spec/decrypt and spec/"copy protection"

### **20130262515 - USPTO shortcut: <http://goo.gl/1GZn3l>**

spec/"grant access" and spec/improve and spec/consumer and spec/optical and spec/media and spec/formats and spec/requested and spec/audio and spec/shared and spec/different and spec/levels and spec/personal and spec/cloud and spec/user and spec/entered and spec/relevant and spec/information and spec/building and spec/manage and spec/rights and spec/control and spec/advantages and spec/features and spec/ability and spec/rely and spec/business and spec/entities and spec/content and spec/providers and spec/valid and spec/authorization and spec/agent and spec/granted and spec/"credit card" and spec/hosting and spec/services and spec/phone and spec/number and spec/computer and spec/applications and spec/embedded and spec/"flash memory" and spec/receives and spec/minimum and spec/requests and spec/hardware and spec/electronic and spec/identifier and spec/built and spec/"operating system" and spec/permanent and spec/ROM and spec/length and spec/time and spec/long-term and spec/scenario

## Validity Strings™ *This list was compiled on 10/19/2013*

Validity Strings are formulas to use with the USPTO advanced patent search engine to isolate this patent using only keywords contained within the patented claims.

aclm/first and aclm/secondary and aclm/identifier and aclm/shared and aclm/connection and aclm/access and aclm/membership

aclm/first and aclm/secondary and aclm/account and aclm/shared and aclm/content and aclm/connection and aclm/membership

aclm/first and aclm/secondary and aclm/account and aclm/shared and aclm/connection and aclm/access and aclm/membership

aclm/device and aclm/cloud and aclm/cpu and aclm/api and aclm/requesting and aclm/receiving and aclm/metadata

aclm/device and aclm/cloud and aclm/access and aclm/cpu and aclm/content and aclm/user and aclm/database

aclm/device and aclm/cloud and aclm/cpu and aclm/api and aclm/content and aclm/access and aclm/metadata

aclm/device and aclm/cloud and aclm/access and aclm/api and aclm/content and aclm/gui and aclm/metadata

aclm/device and aclm/cloud and aclm/access and aclm/api and aclm/content and aclm/cpu and aclm/memory

aclm/cpu and aclm/access and aclm/shared and aclm/membership and aclm/service and aclm/account

aclm/device and aclm/cloud and aclm/access and aclm/cpu and aclm/content and aclm/royalty

aclm/device and aclm/cloud and aclm/connection and aclm/establishing and aclm/rights

aclm/"operating system" and aclm/cloud and aclm/cpu and aclm/memory and aclm/api

aclm/device and aclm/cloud and aclm/connection and aclm/content and aclm/rights

aclm/game and aclm/console and aclm/shared and aclm/cloud and aclm/rights

aclm/device and aclm/cloud and aclm/connection and aclm/cpu and aclm/api

aclm/device and aclm/cloud and aclm/cpu and aclm/memory and aclm/api

aclm/device and aclm/cloud and aclm/content and aclm/cpu and aclm/api

aclm/cloud and aclm/authorization and aclm/device and aclm/automated

aclm/cloud and aclm/shared and aclm/"video game" and aclm/metadata

aclm/game and aclm/console and aclm/shared and aclm/membership

aclm/cloud and aclm/console and aclm/shared and aclm/membership

aclm/cloud and aclm/shared and aclm/"video game" and aclm/product

aclm/establishing and aclm/combination and aclm/api and aclm/gui

aclm/cloud and aclm/access and aclm/membership and aclm/api

aclm/cloud and aclm/connection and aclm/api and aclm/gui

aclm/cloud and aclm/api and aclm/gui and aclm/console

aclm/cloud and aclm/content and aclm/api and aclm/gui  
aclm/"video game" and aclm/cloud and aclm/rights

aclm/shared and aclm/cloud and aclm/permission

aclm/cloud and aclm/rights and aclm/console

aclm/api and aclm/cloud and aclm/rights

aclm/cloud and aclm/rights and aclm/gui

spec/str3em

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	17174605
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	19-OCT-2013
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	15:15:05
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
------------------------	----

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	Priority_Strings.pdf	497039 <small>e9211be11f972dedca1160d7ed454124d087ee43</small>	no	3

### Warnings:

### Information:

EWS-002339

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 8,402,555 B2  
APPLICATION NO. : 13/397517  
DATED : March 19, 2013  
INVENTOR(S) : William Grecia

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims

In claim 1, column 14, line 49; claim 12, column 16, line 17; and claim 15, column 16, line 63:

the word "connection", in each occurrence, should be changed to --a connection--

In claim 1, column 14, line 52; claim 12, column 16, line 20 and 21; and claim 15, column 16, line 66:

the word "Applications", in each occurrence, should be changed to --Application--

In claim 1, column 14, line 53; claim 12, column 16, line 21; and claim 15, column 16, line 67:

the phrase "obtained from", in each occurrence, should be changed to --related to--

In claim 14, column 16, line 43:

the word "on" should be changed to --one--

In claim 19, column 17, line 47:

the word "-comprising" should read --comprising--

Signed and Sealed this  
Twenty-fourth Day of September, 2013



Teresa Stanek Rea  
*Deputy Director of the United States Patent and Trademark Office*

EWS-002341



**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 8,402,555  
APPLICATION NO.: 13/397,517  
ISSUE DATE : 03-19-2013  
INVENTOR(S) : William Grecia

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 11, column 15, line 57; claim 16, column 17, line 14; and claim 25, column 18, line 26:

"selected from a group consisting of a purchase permission, a rental permission, or membership permission coupled to a royalty scheme; wherein the permission is represented by",

in each occurrence, should be changed to and read as

--selected from the group consisting of a purchase permission, a rental permission, and a membership permission, coupled to a royalty scheme; wherein the purchase permission, rental permission, and membership permission is represented by--

In claim 4, column 15, line 16; and claim 20, column 17, line 52:

"content provider" in each occurrence, should be changed to and read as --a content provider--

**MAILING ADDRESS OF SENDER (Please do not use customer number below):**

William Grecia  
2885 Sanford Ave SW #13208  
Grandville, MI 49418

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

EWS-002342

## Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

William Grecia  
Patent No.: 8,402,555  
Issued: 03-19-2013

Examiner: Tran, Tri

Art Unit: 2494

**COCR**

Assistant Commissioner for Patents  
P. O. Box 1450  
Alexandria VA, 22313-1450

**Request for Certificate of Correction under 37 C.F.R. § 1.323**

This paper requests a second Certificate of Correction under 37 C.F.R. § 1.323 for the United States patent identified above. Accompanying this request is a Certificate of Correction form PTO/SB/44 containing the text of this correction. Applicant submits the fee due to corrections being:

- (1) of a clerical nature,
- (2) of a typographical nature, or
- (3) a mistake of minor character.

This request does not involve changes that would:

- (1) constitute new matter or
- (2) require reexamination

Respectfully,  
/william grecia/  
William Grecia  
Applicant Pro Se

## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>	13397517
<b>Filing Date:</b>	15-Feb-2012
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Filer:</b>	William Grecia
<b>Attorney Docket Number:</b>	B7-1

Filed as Small Entity

### Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
Certificate of Correction	1811	1	100	100

**Extension-of-Time:**

EWS-002345

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Miscellaneous:</b>				
<b>Total in USD (\$)</b>				<b>100</b>

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	16858005
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	16-SEP-2013
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	10:52:28
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$100
RAM confirmation Number	9733
Deposit Account	
Authorized User	

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part Zip	Pages (if appl.)
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1	Request for Certificate of Correction	sb0044-555patent-c2.pdf	164829	no	2
			2d7f31ec38f18b78e40ef90ad86a8c5566c4a14e		
<b>Warnings:</b>					
<b>Information:</b>					
2	Request for Certificate of Correction	COC-555-2.pdf	106546	no	1
			869fbb1ead0ddc3f1496199654f221146a59e901		
<b>Warnings:</b>					
<b>Information:</b>					
3	Fee Worksheet (SB06)	fee-info.pdf	29939	no	2
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<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			301314		

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 8,402,555  
APPLICATION NO.: 13/397,517  
ISSUE DATE : 03-19-2013  
INVENTOR(S) : William Grecia

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 1, column 14, line 49; claim 12, column 16, line 17; and claim 15, column 16, line 63:

the word "connection", in each occurrence, should be changed to --a connection--

In claim 1, column 14, line 52; claim 12, column 16, line 20 and 21; and claim 15, column 16, line 66:

the word "Applications", in each occurrence, should be changed to --Application--

In claim 1, column 14, line 53; claim 12, column 16, line 21; and claim 15, column 16, line 67:

the phrase "obtained from", in each occurrence, should be changed to --related to--

In claim 14, column 16, line 43:

the word "on" should be changed to --one--

In claim 19, column 17, line 47:

the word "-comprising" should read --comprising--

**MAILING ADDRESS OF SENDER (Please do not use customer number below):**

William Grecia  
2885 Sanford Ave SW #13208  
Grandville, MI 49418

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

EWS-002349



## Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

William Grecia  
Patent No.: 8,402,555  
Issued: March 19, 2013

Examiner: Tran, Tri  
Art Unit: 2494  
CNF# 6106  
**COCR**

Assistant Commissioner for Patents  
P. O. Box 1450  
Alexandria VA, 22313-1450

**Request for Certificate of Correction under 37 C.F.R. § 1.323**

This paper requests a Certificate of Correction under 37 C.F.R. § 1.323 for the United States patent identified above. Accompanying this request is a Certificate of Correction form PTO/SB/44 containing the text of this correction. Applicant submits the fee due to corrections being clerical, typographical, and of minor character.

Respectfully,  
/william grecia/  
William Grecia  
Applicant Pro Se

## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>	13397517
<b>Filing Date:</b>	15-Feb-2012
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Filer:</b>	William Grecia
<b>Attorney Docket Number:</b>	B7-1

Filed as Small Entity

### Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
Certificate of Correction	1811	1	100	100

**Extension-of-Time:**

EWS-002352

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Miscellaneous:</b>				
<b>Total in USD (\$)</b>				<b>100</b>

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	16612009
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	16-AUG-2013
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	14:41:37
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$100
RAM confirmation Number	975
Deposit Account	
Authorized User	

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part Zip	Pages (if appl.)
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1	Request for Certificate of Correction	sb0044-555patent-c.pdf	164456 d571a534514f06890069928d9ed342afa77 efeb6	no	2
<b>Warnings:</b>					
<b>Information:</b>					
2	Request for Certificate of Correction	COC.pdf	205476 61b4953668ff268aa354885d6dce109918d 71862	no	1
<b>Warnings:</b>					
<b>Information:</b>					
3	Fee Worksheet (SB06)	fee-info.pdf	29939 8bed7211c3b82aeb3ed2965e6e36990ff87 4567d	no	2
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>				399871	

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/397,517	03/19/2013	8402555	B7-1	6106

70984 7590 02/27/2013  
The STR3EM Team  
2885 Sanford Ave SW #13208  
Grandville, MI 49418

**ISSUE NOTIFICATION**

The projected patent number and issue date are specified above.

**Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**  
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

William Grecia, Grandville, MI;

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Receipt date: 02/24/2012	Application Number	13397517	13397517 - GAU: 2494
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Filing Date		
	First Named Inventor	William Grecia	
	Art Unit	2431	
	Examiner Name		
	Attorney Docket Number		

/T.T./	34	20090328228	2009-12-31	Schnell, Patrik	
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**FOREIGN PATENT DOCUMENTS**


Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
/T.T./	1	1505530A1	EP		2/05	Lao, Guillermo		<input type="checkbox"/>
Change(s) applied to document P.A.P./		1564621A1	EP		8/05	Robert, Arnaud		<input type="checkbox"/>

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**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
/T.T./	1	Author - WILLIAM GRECIA - STR3EM Windows Java C++ written code copyright and support documentation - Publication Source: str3em.com [URL: http://www.str3em.com] - (SOFTWARE COPYRIGHT PUBLICATION DATE AND INVENTION REDUCED TO PRACTICE: 09-03-2009)	<input type="checkbox"/>
/T.T./	2	Author - WILLIAM GRECIA - Next Generation Digital Delivery STR3EM Ecosystem Replaces DVD And Blu-Ray - Publication Source: mi2n.com [URL: http://mi2n.com/press.php?press_nb=130517] - (INTERNET PUBLICATION DATE: 05-28-2010)	<input type="checkbox"/>
/T.T./	3	Author - FACEBOOK CORPORATION - Graph API documentation - Publication Source: facebook.com [URL: http://developers.facebook.com/docs/ap/] - (INTERNET PUBLICATION UPDATE: 04-21-2010)	<input type="checkbox"/>
/T.T./	4	Author - AMAZON INC - Amazon Web Services API documentation - Publication Source: [URL: http://aws.amazon.com] - (INTERNET PUBLICATION) 07-16-2002	<input type="checkbox"/>



<b>Issue Classification</b> 	<b>Application/Control No.</b> 13397517	<b>Applicant(s)/Patent Under Reexamination</b> GRECIA, WILLIAM
	<b>Examiner</b> TRI TRAN	<b>Art Unit</b> 2494

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant																<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original						
1	1		17	24	33																
2	2	13	18	25	34																
3	3		19	26	35																
	4	14	20	<del>17</del>	36																
4	5		21	16	37																
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	12	22	28																		
9	13	23	29																		
	14		30																		
12	15	10	31																		
	16	11	32																		

Change(s) applied  
 to document,  
 /P.A.P./  
 2/7/2013

/TRI TRAN/ Examiner, Art Unit 2494  (Assistant Examiner)	1/22/13  (Date)	<b>Total Claims Allowed:</b>  26	
/Jung Kim/ Supervisory Patent Examiner, Art Unit 2494  (Primary Examiner)	1/25/13  (Date)	O.G. Print Claim(s)  1	O.G. Print Figure  6

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	13397517
		Filing Date	
		First Named Inventor	William Grecia
		Art Unit	2494
		Examiner Name	Tri Tran
Sheet	of	Attorney Docket Number	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number <small>Number-Kind Code<sup>2</sup> (if known)</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/T.T./		US-20030051149	03-13-2003	Robert, Arnaud	
/T.T./		US-20050182727	08-18-2005	Robert, Arnaud	
/T.T./		US-20050182931	08-18-2005	Robert, Arnaud	
/T.T./		US-20050198510	09-08-2005	Robert, Arnaud	
/T.T./		US-20050216752	09-29-2005	Robert, Arnaud	
/T.T./		US-20080114992	05-15-2008	Robert, Arnaud	
/T.T./		US-20080137869	06-12-2008	Robert, Arnaud	
/T.T./		US-20090086975	04-02-2009	Robert, Arnaud	
/T.T./		US-20090089884	04-02-2009	Robert, Arnaud	
/T.T./		US-20090106850	04-23-2009	Robert, Arnaud	
/T.T./		US-20100027796	<del>03-04-2010</del>	Robert, Arnaud	2/10
/T.T./		US-20100057527	03-04-2010	Robert, Arnaud	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

Change(s) applied to document, /P.A.P./ 2/8/2013

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document <small>Country Code<sup>2</sup> Number<sup>3</sup> Kind Code<sup>4</sup> (if known)</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† <sup>5</sup>

Examiner Signature	/Tri Tran/ (05/07/2012)	Date Considered	05/07/2012
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Receipt date: 02/24/2012

13397517 - GAI: 2494

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 07/31/2012. OMB 0851-0031  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Not for submission under 37 CFR 1.99)	Application Number	13397517
	Filing Date	
	First Named Inventor	William Grecia
	Art Unit	2434 2494
	Examiner Name	Tri Tran
	Attorney Docket Number	

U.S. PATENTS							Remove
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	
/T.T./	1	7290699		2007-11-06	Reddy; Karimireddy Hari		
/T.T./	2	7340769		2008-03-04	Baugher; Mark John		
/T.T./	3	7343014		2008-03-11	Sovio; Sampo		
/T.T./	4	7386513		2009-06-10	Lao; Guillermo		
/T.T./	5	7571328		8/09 <del>2009-08-04</del>	Baumert; David W		
Change(s) applied to document, /P.A.P./ 2/8/2013 /T.T./	6	7624417		11/09 <del>2009-11-24</del>	Dua; Robin		

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Receipt date: 02/24/2012

13397517 - GAI: 2494

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 07/31/2012. OMB 0651-0031  
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		13397517
	Filing Date		
	First Named Inventor	William Grecia	
	Art Unit	<del>2432</del> 2494	
	Examiner Name	Tri Tran	
	Attorney Docket Number		

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Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	
/T.T./ Change(s) applied to document,	1	6799165		9/04 <del>2008-09-29</del>	Boesjes; Eimar M		
	/P.A.P./ 2/8/2013	2	6385596		2002-05-07	Wiser; Philip R	
/T.T./	3	5907617		1999-05-25	Ronning; Joel A		
/T.T./	4	5903647		1999-05-11	Ronning; Joel A		
/T.T./	5	5887060		1999-03-23	Ronning; Joel A		
/T.T./	6	5883955		1999-03-16	Ronning; Joel A		
/T.T./	7	5883954		1999-03-16	Ronning; Joel A		
/T.T./	8	5870543		1999-02-09	Ronning; Joel A		

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13397517 - GAI: 2494

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Pat. Sec. 101-10

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		13397517	
	Filing Date		2012-02-15	
	First Named Inventor	William Grecia		
	Art Unit	2494		
	Examiner Name	TRAN, TRI MINH		
	Attorney Docket Number			

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Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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<i>/T.T./</i>	1	20120130903		<del>2012-03-24</del> 5/12	Dorsey; Jack	
<i>Change(s) applied to document,</i>						
<i>/P.A.P./</i>	2	20120095916		2012-04-19	Dorsey; Jack	
<i>2/8/2013</i>						
<i>/T.T./</i>	3	20120095906		2012-04-19	Dorsey; Jack	
<i>/T.T./</i>	4	20120095871		2012-04-19	Dorsey; Jack	
<i>/T.T./</i>	5	20120310828		2012-12-06	Hu; Qilin	

Receipt date: 03/20/2012

13397517 - GAI: 2494

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		13397517	
	Filing Date		2012-02-15	
	First Named Inventor	William Grecia		
	Art Unit	2431		
	Examiner Name			
	Attorney Docket Number	B7-1		

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Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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/T.T./	1	20110265157		2011-10-27	Scott Ryder	All disclosure and claims

Change(s) applied to document, /T.T./	2	20110145896		6/11 <del>2011-10-27</del>	Richard Berger	All disclosure and claims
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NOTICE OF ALLOWANCE AND FEE(S) DUE

70984 7590 02/04/2013
The STR3EM Team
2885 Sanford Ave SW #13208
Grandville, MI 49418

EXAMINER
TRAN, TRI MINH
ART UNIT PAPER NUMBER

2494
DATE MAILED: 02/04/2013

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

13/397,517 02/15/2012 William Grecia B7-1 6106
TITLE OF INVENTION: PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)

Table with 7 columns: APPLN. TYPE, SMALL ENTITY, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.
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 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

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70984 7590 02/04/2013

The STR3EM Team  
 2885 Sanford Ave SW #13208  
 Grandville, MI 49418

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(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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13/397,517      02/15/2012      William Grecia      B7-1      6106

TITLE OF INVENTION: PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional      YES      \$885      \$0      \$0      \$885      05/06/2013

EXAMINER	ART UNIT	CLASS-SUBCLASS
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TRAN, TRI MINH      2494      726-009000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). <input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. <input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. <b>Use of a Customer Number is required.</b>	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____ (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____ 3 _____
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**3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)**

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

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Please check the appropriate assignee category or categories (will not be printed on the patent) :     Individual     Corporation or other private group entity     Government

4a. The following fee(s) are submitted: <input type="checkbox"/> Issue Fee <input type="checkbox"/> Publication Fee (No small entity discount permitted) <input type="checkbox"/> Advance Order - # of Copies _____	4b. Payment of Fee(s); ( <b>Please first reapply any previously paid issue fee shown above</b> ) <input type="checkbox"/> A check is enclosed. <input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached. <input type="checkbox"/> The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).
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**5. Change in Entity Status (from status indicated above)**

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.     b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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 Typed or printed name \_\_\_\_\_ Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/397,517 02/15/2012 William Grecia B7-1 6106

70984 7590 02/04/2013
The STR3EM Team
2885 Sanford Ave SW #13208
Grandville, MI 49418

Table with 2 columns: EXAMINER, ART UNIT, PAPER NUMBER
TRAN, TRI MINH
2494

DATE MAILED: 02/04/2013

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Privacy Act Statement

**The Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	13/397,517	GRECIA, WILLIAM	
	<b>Examiner</b>	<b>Art Unit</b>	
	TRI TRAN	2494	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to December 13 2012.
2.  An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_; the restriction requirement and election have been incorporated into this action.
3.  The allowed claim(s) is/are 1-3,5-8,11, 13,15,18, 20,22,24-29 and 31-37. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see [http://www.uspto.gov/patents/init\\_events/pph/index.jsp](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to [PPHfeedback@uspto.gov](mailto:PPHfeedback@uspto.gov).
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All    b)  Some\*    c)  None    of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                  |
| 2. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date ____ | 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material        | 7. <input type="checkbox"/> Other ____.  |
| 4. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date ____.                  |  |

/TRI TRAN/  
Examiner, Art Unit 2494

/Jung Kim/  
Supervisory Patent Examiner, Art Unit 2494

<b>Examiner-Initiated Interview Summary</b>	<b>Application No.</b> 13/397,517	<b>Applicant(s)</b> GRECIA, WILLIAM	
	<b>Examiner</b> TRI TRAN	<b>Art Unit</b> 2494	

All participants (applicant, applicant's representative, PTO personnel):

- (1) TRI TRAN. (3) \_\_\_\_\_.
- (2) William Gracia (Applicant). (4) \_\_\_\_\_.

Date of Interview: 1/8/13 and 1/17/13.

Type:  Telephonic  Video Conference  
 Personal [copy given to:  applicant  applicant's representative]

Exhibit shown or demonstration conducted:  Yes  No.  
If Yes, brief description: \_\_\_\_\_.

Issues Discussed 101 112 102 103 Others  
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1.

Identification of prior art discussed: Baiya and Wimmer.

**Substance of Interview**

(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

See Continuation Sheet.

**Applicant recordation instructions:** It is not necessary for applicant to provide a separate record of the substance of interview.

**Examiner recordation instructions:** Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Attachment

/TRI TRAN/  
Examiner, Art Unit 2494

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments:

1/8/13:

Applicant was also informed that there were typographical errors on the interview summary mailed on January 7th 2013. The Applicant's provisional application number should have been listed as 61/303292 and the filing date of the provisional should have been identified as February 10th 2010.

In addition, Applicant also was informed that there were similar typographical errors in the advisory action mailed on December 26th 2012; moreover there was also a typographical error for the Baiya prior art's effective filing date. It should have been listed as February 23rd 2010 instead of February 23rd 2012. Hence, to clarify, the advisory action should have identified that diligence needs to be shown from prior to 2/23/10 to 3/21/10.

1/23/13:

A proposed amendment for allowance was suggested and agreed to by the Applicant.

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### DETAILED ACTION

Claims 1-3, 5-8, 11, 13, 15, 18, 20, 22, 24-29, and 31-37 are allowed. Claims 4, 9-10, 12, 14, 16-17, 19, 21, 23, and 30 are cancelled.

This communication is in response to the Applicant's Request for continued Examination filed on December 13 2012

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in telephone interviews with the Applicant/Inventor William Grecia on January 17<sup>th</sup> 2013.

### Amended Claims

1. (Currently amended) A method for monitoring access to an encrypted digital media, the method facilitating ~~unlimited~~ interoperability between a plurality of data processing devices, the method comprising:

*receiving an encrypted digital media access branding request from at least one communications console of the plurality of data processing devices, the branding request being a read or write request of metadata of the encrypted digital media, the request comprising a*

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membership verification token provided by a first user, corresponding to the encrypted digital media;

authenticating the membership verification token, the authentication being performed in connection with a token database;

establishing connection with the at least one communications console wherein the communications console is a combination of a graphic user interface (GUI) and an Applications Programmable Interface (API) protocol, wherein the API is obtained from a verified web service, the verified web service capable of facilitating a two way data exchange to complete a verification process;

requesting at least one electronic identification reference from the at least one communications console wherein the electronic identification reference comprises a verified web service account identifier of the first user;

receiving the at least one electronic identification reference from the at least one communications console; and

branding metadata of the encrypted digital media by writing the membership verification token and the electronic identification reference into the metadata.

2. (Original) The method according to claim 1, wherein the membership verification token is one or more of a structured password, a random password, e-mail address, payment system and one or more redeemable instruments of trade for access rights of the encrypted digital media.

3. (Currently amended) The method according to claim 1, wherein the branding request being a request from ~~an excelsior enable~~ the first user through a data processing device of the plurality

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of data processing devices, ~~the excelsior enabler~~ the first user ~~being the user~~ acquiring access rights to the encrypted digital media; or

wherein the branding request being a request from one or more ~~secondary enablers~~ secondary users connected to the ~~excelsior enabler~~ first user, the one or more secondary users ~~plurality of second enablers~~ comprising one or more of human beings or programmed computerized mechanisms in network of the ~~excelsior enabler~~ first user; wherein the one or more secondary users ~~second enablers~~ are validated by a membership web service.

4. (Canceled)

5. (Currently Amended) The method according to claim ~~[[1]]~~ 3, wherein the membership verification token represents verification from content provider to grant access rights to the ~~excelsior enabler~~ first user and the one or more secondary users ~~enablers~~.

6. (Previously amended) The method according to claim 1, wherein the encrypted digital media is shared with one or more users according to a membership.

7. (Currently amended) The method according to claim 6, wherein the one or more users are a network of recognized human beings using machines or recognized automated computerized mechanisms programmed by human beings, the recognition of the users being validated by the membership status of a membership web service.

8. (Currently amended) The method according to claim 1, wherein the encrypted digital media is associated with an identifier stored in a database, the identifier being cross-referenced with a



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*corresponding token from a ~~the~~ list of associated tokens stored in the token database for verification.*

*9 and 10 (Canceled)*

*11. (Original) The method according to claim 1, wherein the encrypted digital media is one of a video file, audio file, container format, document, metadata as part of video game software and other computer based apparatus in which processed data is facilitated.*

*12. (Canceled)*

*13. (Previously amended) The method according to claim 1, wherein the electronic identification reference is a key file, the key file being uploaded by the at least one communications console for branding the encrypted digital media; thereby giving access to the encrypted digital media.*

*14. (Canceled)*

*15. (Currently amended) A system for monitoring access to an encrypted digital media, the system facilitating ~~unlimited~~ interoperability between a plurality of data processing devices, the system working as a front-end agent for access rights authorization between a plurality of data processing devices, the system comprising:*

*a first receipt module, the first receipt module receiving an encrypted digital media access branding request from at least one communications console of the plurality of data processing devices, the branding request being a read ~~and~~ or write request of metadata of the*

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*encrypted digital media, the request comprising a membership verification token provided by a first user, corresponding to the encrypted digital media;*

*an authentication module, the authentication module authenticating the membership verification token, the authentication being performed in connection with a token database;*

*a connection module, the connection module establishing connection with the at least one communications console wherein the communications console is a combination of a graphic user interface (GUI) and an Applications Programmable Interface (API) protocol wherein the API is obtained from a verified web service, the verified web service capable of facilitating a two way data exchange to complete a verification process;*

*a request module, the request module requesting at least one electronic identification reference from the at least one communications console wherein the electronic identification reference comprises a verified web service account identifier of the first user,*

*a second receipt module, the second receipt module receiving the at least one electronic identification reference from the at least one communications console; and*

*a branding module, the branding module branding metadata of the encrypted digital media by writing the membership verification token and the electronic identification reference into the metadata.*

16 and 17 (Canceled)

18. (Original) The system according to claim 15, wherein the encrypted digital media is one of a video file, audio file, container format, document, metadata as part of video game software and other computer based apparatus in which processed data is facilitated.

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19. (canceled)

20. (Previously amended) *The system according to claim 15, wherein the electronic identification reference is a key certificate file, the key certificate file being uploaded by the at least on communications console for branding the encrypted digital media; thereby giving access to the encrypted digital media.*

21. (Canceled)

22. (Currently amended) *A computer program product for use with a computer, the computer program product comprising a non-transitory computer usable medium having a computer readable program code stored therein for monitoring access to an encrypted digital media, the method facilitating ~~unlimited~~ interoperability between a plurality of data processing devices, the computer program product performing the steps of:*

*receiving an encrypted digital media access branding request from at least one communications console of the plurality of data processing devices, the branding request being a read or write request of metadata of the encrypted digital media, the request comprising a membership verification token provided by a first user, corresponding to the encrypted digital media;*

*authenticating the membership verification token, the authentication being performed in connection with a token database;*

*establishing connection with the at least one communications console wherein the communications console is a combination of a graphic user interface (GUI) and an Applications*

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Programmable Interface (API) protocol wherein the API is obtained from a verified web service, the verified web service capable of facilitating a two way data exchange to complete a verification process;

requesting at least one electronic identification reference from the at least one communications console wherein the electronic identification reference comprises a verified web service account identifier of the first user;

receiving the at least one electronic identification reference from the at least one communications console; and

branding metadata of the encrypted digital media by writing the membership verification token and the electronic identification reference into the metadata.

23. (Canceled)

24. (Currently amended) The computer program product according to claim 22, wherein the branding request is a request from ~~an excelsior enabler~~ the first user providing a credential to a membership web service through a data processing device of the plurality of data processing devices, the ~~excelsior enabler~~ first user being a human user acquiring access rights to the encrypted digital media.

25. (Currently amended) The computer program product according to claim 24, wherein the branding request is a request from one or more secondary users ~~enablers~~ asked to participate in providing a credential to the membership web service connected to the ~~excelsior enabler~~ first user, the credential being one generated manually or generated automatically by the membership web service, the plurality of ~~second enablers~~ secondary user -comprising one or

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*more of human beings or a programmed computerized mechanism in the network of the ~~excelsior enabler~~ first user.*

*26. (Currently amended) The computer program product according to claim ~~[[24]]~~ 25, wherein the membership verification token represents verification from content provider to grant access rights to the ~~excelsior enabler~~ first user and the one or more secondary ~~users~~ enablers.*

*27. (Previously amended) The computer program product according to claim 24, wherein the encrypted digital media is shared with one or more secondary users according to a membership status.*

*28. (Currently amended) The computer program product according to claim 27, wherein the one or more secondary users is a programmed and automated machine hosting an operating system that is operated by ~~of the excelsior enabler~~ first user.*

*29. (Original) The computer program product according to claim 22, wherein the encrypted digital media is associated with an identifier stored in a database, the identifier being cross-referenced with a corresponding token from the list of associated tokens stored in the token database for verification.*

*30. (Canceled)*

*31. (Currently amended) The method of claim 1, wherein the method facilitates access rights authentication for ~~said the~~ encrypted digital media, ~~said the~~ branding request is an access*

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*request, and wherein said the read or write request of metadata is performed in connection with a combination of a memory, CPU, server, database, and cloud system;*

*~~Said the~~ access request is generated by either a human user, a machine, or a human programmed computerized device;*

*~~Said the~~ access request further comprises a membership verification token and a rights token wherein ~~said branding metadata alternatively comprises writing the~~ rights token is a flag indicating the verification token is successfully verified.*

*32. (Currently amended) The method of claim 2, wherein the membership verification token comprises at least one token selected from a group consisting of a purchase permission, a rental permission, or membership permissions coupled to a royalty scheme;*

*wherein the permission is represented by one or more of a letter, number, combination of letters and numbers, phrase, authorization, list, interface button or an instrument of trade for access rights of the encrypted digital media.*

*33. (Currently amended) The system of claim 15, wherein the system facilitates access rights authentication for ~~said the~~ encrypted digital media, ~~said the~~ branding request is an access request, and wherein ~~said the~~ read or write request of metadata is performed in connection with a combination of a memory, CPU, server, database, and cloud system;*

*~~Said the~~ access request is generated by either a human user, a machine, or a human programmed computerized device;*

*~~Said the~~ access request further comprises a membership verification token and a rights token; and wherein ~~said branding metadata alternatively comprises writing the~~ rights token into said metadata is a flag indicating the verification token is successfully verified.*

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34. (Currently amended) The system of claim 15, wherein the membership verification token comprises at least one token selected from a group consisting of a purchase permission, a rental permission, or membership permissions coupled to a royalty scheme;

wherein the permission is represented by one or more of a letter, number, combination of letters and numbers, phrase, authorization, list, interface button or an instrument of trade for access rights of the encrypted digital media.

35. (Currently Amended) The system of claim 15, wherein ~~said~~ the encrypted digital media capable of ~~unlimited~~ interoperability between a plurality of data processing devices, is further authored by an authoring system comprising:

a selection module, the selection module selecting one or more media items to form the encrypted digital media;

a password module, the password module entering a master password which provides access to the encrypted digital media for editing;

a customization module, the customization module customizing user access panel of the encrypted digital media;

a database module, the database module connecting the encrypted digital media to a database of membership verification token required for decrypting the encrypted digital media;

and

an encryption module, the encryption module encrypting the one or more media items to create the encrypted digital media.

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36. (Currently amended) The computer program product of claim 22, wherein the computer program product facilitates access rights authentication for ~~said the~~ encrypted digital media, ~~said the~~ branding request is an access request, and wherein the read or write request of metadata is performed in connection with a combination of a memory, CPU, server, database, and cloud system;

*Said the access request is generated by either a human user, a machine, or a human programmed computerized device;*

*Said the access request further comprises a membership verification token and a rights token; ~~and wherein said branding metadata alternatively comprises writing the rights token into said metadata~~ is a flag indicating the verification token is successfully verified*

37. (Currently amended) The computer program product of claim 22, wherein the membership verification token comprises at least one token selected from a group consisting of a purchase permission, a rental permission, or membership permissions coupled to a royalty scheme;

*wherein the permission is represented by one or more of a letter, number, combination of letters and numbers, phrase, authorization, list, interface button or an instrument of trade for access rights of the encrypted digital media.*

### **Allowable Subject Matter**

1. Claims 1-3, 5-8, 11, 13, 15, 18, 20, 22, 24-29 and 31-37 are allowed.
2. The following is an examiner's statement of reasons for allowance:



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The following prior art are the closest materials to the subject matter of claim 1 and similarly claimed in claims 15 and 22:

Baiya et al. PG Pub 20110288946 - Method and System of Managing Digital Multimedia Content (herein after Baiya). Baiya discloses a process of "the management of digital multimedia content comprises a computer-implemented digital multimedia content management system comprising the following computer executable components: an upload component that uploads digital media content ...a catalog component that allows a first user to tag the digital media content with one or more attributes... a grouping component that groups the digital media content according to the one or more attributes; a licensing component that attaches one or more keys to the digital media content; a security component that encrypts the digital media content; and a sharing component that allows one or more second users to access the digital media content (Fig. 3-4 and paragraphs [0008]). The user can access the copyrighted digital media for access by using an interface called Content Manager (paragraph [0022]) wherein the Content Manager is using Application Program Interface protocol for access control authentication and authorization information (paragraph [0064]).

Chris Wimmer US Patent 7526650 - Personal Identifiers for Protecting Video Content (herein after Wimmer), Wimmer discloses "techniques for branding video content with an end user's personal identity information ("personal identifier," "mark," or "brand") as a deterrent against unauthorized redistribution of the video content by the user. A "user" is a person or personal entity that receives the video content to be protected or the owner of a client device that receives the video content to be protected"

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(column 2, lines 9-15). The method aims “ to prevent redistribution of content before it happens rather than provide a tool for tracking down a user after an unauthorized redistribution of video content has already been made” (Fig. 1-5, 7 and column 2, line 25-29).

Therefore, the combined teachings of Baiya and Wimmer disclose some elements of claim 1 such as:

*receiving an encrypted digital media access branding request from at least one communications console of the plurality of data processing devices, the branding request being a read or write request of metadata of the encrypted digital media, the request comprising a membership verification token provided by a first user, corresponding to the encrypted digital media;*

*branding metadata of the encrypted digital media by writing the membership verification token and the electronic identification reference into the metadata*

However, neither Baiya nor Wimmer in singly or in combination implicitly or explicitly suggests the method for monitoring access to an encrypted digital media wherein the method facilitating interoperability between a plurality of data processing devices with the steps of:

*establishing connection with the at least one communications console wherein the communications console is a combination of a graphic user interface (GUI) and an Applications Programmable Interface (API) protocol wherein the API is obtained from a*

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verified web service, the verified web service capable of facilitating a two way data exchange to complete a verification process; and

requesting at least one electronic identification reference from the at least one communications console wherein the electronic identification reference comprises a verified web service account identifier of the first user.

Since no prior art teaches or suggests any system with the above allowable limitations, therefore claim 1 and its dependent claims are allowed. Similarly, the system claim set of 15, 18, 20, and 36-37 and the computer program medium claim set of 22, 24-29, and 33-35 which claim substantially similar limitations; hence, claims 15,18, 20, 22, 24-29, and 33-37 are allowed for the same reasons.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **INQUIRY COMMUNICATION**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRI TRAN whose telephone number is (571)270-1994. The examiner can normally be reached on Monday-Friday 9:00 - 5:00 EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jung (Jay) Kim can be reached on 571-272-3804. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TRI TRAN/


Examiner, Art Unit 2494

/Jung Kim/

Supervisory Patent Examiner, Art Unit 2494





<b>Issue Classification</b> 	<b>Application/Control No.</b> 13397517	<b>Applicant(s)/Patent Under Reexamination</b> GRECIA, WILLIAM
	<b>Examiner</b> TRI TRAN	<b>Art Unit</b> 2494

<input type="checkbox"/> <b>Claims renumbered in the same order as presented by applicant</b>																<input type="checkbox"/> <b>CPA</b>		<input type="checkbox"/> <b>T.D.</b>		<input type="checkbox"/> <b>R.1.47</b>	
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original						
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/TRI TRAN/ Examiner, Art Unit 2494  (Assistant Examiner)	1/22/13  (Date)	<b>Total Claims Allowed:</b>  26	
/Jung Kim/ Supervisory Patent Examiner, Art Unit 2494  (Primary Examiner)	1/25/13  (Date)	O.G. Print Claim(s)  1	O.G. Print Figure  6

Receipt date: 01/04/2013

13397517 - GAI: 2494

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 07/31/2012. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		13397517	
	Filing Date		2012-02-15	
	First Named Inventor	William Grecia		
	Art Unit	2494		
	Examiner Name	TRAN, TRI MINH		
	Attorney Docket Number			

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/T.T./	1	20130007892		2013-01-03	INOOKA; Hidehiro	

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Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1							<input type="checkbox"/>

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>5</sup>



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		13397517	13397517 - GAU: 2494
	Filing Date		2012-02-15	
	First Named Inventor	William Grecia		
	Art Unit		2494	
	Examiner Name	TRAN, TRI MINH		
	Attorney Docket Number			

	1		<input type="checkbox"/>
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<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number	13397517	13397517 - GAU: 2494
	Filing Date	2012-02-15	
	First Named Inventor	William Grecia	
	Art Unit	2494	
	Examiner Name	TRAN, TRI MINH	
	Attorney Docket Number		

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- See attached certification statement.
- The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- A certification statement is not submitted herewith.

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/william grecia/	Date (YYYY-MM-DD)	2013-01-04
Name/Print	William Grecia	Registration Number	70984


This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

<b>Index of Claims</b>  	<b>Application/Control No.</b> 13397517	<b>Applicant(s)/Patent Under Reexamination</b> GRECIA, WILLIAM
	<b>Examiner</b> TRI TRAN	<b>Art Unit</b> 2494

✓	<b>Rejected</b>
=	<b>Allowed</b>


-	<b>Cancelled</b>
÷	<b>Restricted</b>

N	<b>Non-Elected</b>
I	<b>Interference</b>

A	<b>Appeal</b>
O	<b>Objected</b>

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

CLAIM		DATE							
Final	Original	05/07/2012	10/06/2012	01/22/2013					
1	1	✓	✓	=					
2	2	✓	✓	=					
3	3	✓	✓	=					
	4	✓	-	-					
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5	6	✓	✓	=					
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	30	✓	-	-					
10	31		✓	=					
11	32		✓	=					
24	33		✓	=					
25	34		✓	=					
26	35		✓	=					
15	36		✓	=					

<b><i>Index of Claims</i></b>  	<b>Application/Control No.</b> 13397517	<b>Applicant(s)/Patent Under Reexamination</b> GRECIA, WILLIAM
	<b>Examiner</b> TRI TRAN	<b>Art Unit</b> 2494

✓	<b>Rejected</b>
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A	<b>Appeal</b>
O	<b>Objected</b>

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

CLAIM		DATE							
Final	Original	05/07/2012	10/06/2012	01/22/2013					
16	37		✓	=					

Receipt date: 12/15/2012

13397517 - GAI: 2494

Doc code: IDS

PTO/US 05/09a (01-10)

Doc description: Information Disclosure Statement (IDS) Filed

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		13397517	
	Filing Date		2012-02-15	
	First Named Inventor	William Grecia		
	Art Unit	2494		
	Examiner Name	TRAN, TRI MINH		
	Attorney Docket Number			

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Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/T.T./	1	8280959		2012-10-02	Zuckerberg; Mark	
/T.T./	2	8250145		2012-08-21	Zuckerberg; Mark	

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/T.T./	1	20120166333		2012-06-28	von Behren; Rob	
/T.T./	2	20120173431		2012-07-05	Ritchie; Ben	
/T.T./	3	20120255033		2012-10-04	Dwivedi; Sanjeev	
/T.T./	4	20120191553		2012-07-26	Sathe; Nikhil S	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Receipt date: 12/15/2012	Application Number	13397517	13397517 - GAU: 2494
	Filing Date	2012-02-15		
	First Named Inventor	William Grecia		
	Art Unit	2494		
	Examiner Name	TRAN, TRI MINH		
	Attorney Docket Number			

/T.T./	5	20110320345		2011-12-29	Taveau; Sebastien	
/T.T./	6	20110313898		2011-12-22	Singhal; Nitesh	
/T.T./	7	20120150727		2012-06-14	Nuzzi; Frank Anthony	
/T.T./	8	20120079095		2012-03-29	Evans; Ethan	
/T.T./	9	20120079126		2012-03-29	Evans; Ethan	
/T.T./	10	20120079276		2012-03-29	Evans; Ethan	
/T.T./	11	20120079606		2012-03-29	Evans; Ethan	
/T.T./	12	20120254340		2012-10-04	Velummylum; Piragash	
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	Filing Date		2012-02-15	
	First Named Inventor	William Grecia		
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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-12-15
Name/Print	William Grecia	Registration Number	70984


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<b>Search Notes</b>  	<b>Application/Control No.</b>  13397517	<b>Applicant(s)/Patent Under Reexamination</b>  GRECIA, WILLIAM
	<b>Examiner</b>  TRI TRAN	<b>Art Unit</b>  2494

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
726	1-21,26-33	5/7/12	TT
713	155-159, 168, 172-176, 185, 182	5/7/12	TT

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Search (PALM)	5/6/12	TT
Espacenet.com , Google	5/6/12	TT
EAST	5/6/12 - 5/14/12	TT
EAST	5/17/12	TT
EAST and Google	10/1/12 - 10/3/12, 10/30/12	TT
EAST and Google	11/15/2012	TT
EAST and Google	1/14/13 - 1/17/13	TT
consulted with Jung Kim (SPE)	1/16/13	TT
SPE consulted with Ted Parsons, Tod Swann and Vincent Trans regarding 131 affidavit	1/10/13	JK

INTERFERENCE SEARCH
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US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
726	1-7, 9, 16-21, 26-32 with text search	1/22/13	TT

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Receipt date: 12/13/2012

13397517 - GAI: 2494

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

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	First Named Inventor	William Grecia		
	Art Unit	2494		
	Examiner Name	Tran, Tri		
	Attorney Docket Number			

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	Examiner Name	Tran, Tri		
	Attorney Docket Number			

/T.T./	1	61/303,292 Abandoned USPTO Provisional Application (evidence to overcome examiner's last rejection in accordance with MPEP 2142)	<input type="checkbox"/>
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number	13397517	13397517 - GAU: 2494
	Filing Date	2012-02-15	
	First Named Inventor	William Grecia	
	Art Unit	2494	
	Examiner Name	Tran, Tri	
	Attorney Docket Number		

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- The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
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### SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/william grecia/	Date (YYYY-MM-DD)	2012-12-13
Name/Print	William Grecia	Registration Number	70984

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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13397517 - GAI: 2494

Doc code: IDS

Pat. Sec. 101-10

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		13397517	
	Filing Date		2012-02-15	
	First Named Inventor	William Grecia		
	Art Unit	2494		
	Examiner Name	TRAN, TRI MINH		
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/T.T./	1	20120130903		2012-03-24	Dorsey; Jack	
/T.T./	2	20120095916		2012-04-19	Dorsey; Jack	
/T.T./	3	20120095906		2012-04-19	Dorsey; Jack	
/T.T./	4	20120095871		2012-04-19	Dorsey; Jack	
/T.T./	5	20120310828		2012-12-06	Hu; Qilin	

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	Filing Date		2012-02-15	
	First Named Inventor	William Grecia		
	Art Unit		2494	
	Examiner Name	TRAN, TRI MINH		
	Attorney Docket Number			

/T.T./	6	20120296741		2012-11-22	DYKES; Robert	
/T.T./	7	20120290376		2012-11-15	Dryer; Trevor D.	
/T.T./	8	20120041829		2012-02-16	Rothschild; Keith Alan	
/T.T./	9	20120173333		2012-07-05	Berger; Richard	
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	Filing Date	2012-02-15	
	First Named Inventor	William Grecia	
	Art Unit	2494	
	Examiner Name	TRAN, TRI MINH	
	Attorney Docket Number		

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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-12-16
Name/Print	William Grecia	Registration Number	70984

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Receipt date: 02/24/2012

13397517 - GAI: 2494

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		13397517	
	Filing Date			
	First Named Inventor	William Grecia		
	Art Unit	<del>2432</del> 2494		
	Examiner Name	Tri Tran		
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	Filing Date			
	First Named Inventor	William Grecia		
	Art Unit	2494 <del>XXX</del> 2494		
	Examiner Name	Tri Tran		
	Attorney Docket Number			

/T.T./	1	Author - Michael Arrington - Movie Labels To Launch New "Open Market" Play Anywhere Scheme As Last Ditch Effort To Save DRM - Publication Source: TechCrunch.com [URL: http://techcrunch.com/2008/08/26/movie-labels-to-launch-new-open-market-play-anywhere-scheme-as-last-ditch-effort-to-save-drm/] - (INTERNET PUBLICATION 8-26-2008)	<input type="checkbox"/>
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	First Named Inventor	Grecia, William		
	Art Unit	2422 2494		
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/T.T./	1	7610630		2009-10-27	Ming Ji	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		13397517 - GAU: 2494	
	Filing Date			
	First Named Inventor	Grecia, William		
	Art Unit	<del>2432</del> 2494		
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/T.T./	1	6799165		2008-09-28	Boesjes; Eimar M	
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	First Named Inventor	William Grecia	
	Art Unit	<del>2438</del>	2494
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	First Named Inventor	William Grepla
	Art Unit	<del>2223</del> 2494
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	Art Unit	<del>2434</del> 2494
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/T.T./	1	7290699		2007-11-06	Reddy; Karimireddy Hari		
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/T.T./	5	7571328		2008-08-04	Baumert; David W		
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/T.T./	1	20020010759		2002-01-24	Hitson; Bruce L	
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/T.T./	13	20060259982		2006-11-16	Upendran; Manish	
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/T.T./	23	20090012905		2009-01-08	Schnell; Patrik	
/T.T./	24	20090049556		2009-02-19	Vrielink; Koen Hendrik Johan	
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/T.T./	31	20090299963		2009-12-03	Pippuri; Sami	
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/T.T./		US-20030051149	03-13-2003	Robert, Arnaud	
/T.T./		US-20050182727	08-18-2005	Robert, Arnaud	
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/T.T./	2	Author - SMPTE ORG - Digital Cinema DCP MXF specifications - Publication Source: smpte.org [URL: www.smpte.org/standards] - (INTERNET PUBLICATION) 10-08-2002	<input type="checkbox"/>
/T.T./	3	Author - WIKIPEDIA ORG - Xbox Live Marketplace and Zune Marketplace - Publication Source: wikipedia.org [URL: http://en.wikipedia.org/wiki/Xbox_Live#Xbox_Live_Marketplace_and_Zune_Marketplace] - (INTERNET PUBLICATION) 01-18-2006	<input type="checkbox"/>
/T.T./	4	Author - DAN FRANKS - First Look: iTunes Digital Copy - Publication Source: macworld.com/ [URL: www.macworld.com/article/131751/2008/01/digitalcopy.html/] - (INTERNET PUBLICATION 01-22-08)	<input type="checkbox"/>
/T.T./	5	Author - RICH FISCUS - Review - Is DVD Digital Copy worth the trouble? - Publication Source: afterdawn.com/ [URL: www.afterdawn.com/news/article.cfm/2009/11/18/review_is_dvd_digital_copy_worth_the_trouble] - (INTERNET PUBLICATION 11-18-2009)	<input type="checkbox"/>
/T.T./	6	Author - WIKIPEDIA ORG - Digital rights management - Publication Source: wikipedia.org [URL: http://en.wikipedia.org/wiki/Digital_Rights_Management] - (INTERNET PUBLICATION) 09-22-2002	<input type="checkbox"/>
/T.T./	7	Author - WIKIPEDIA ORG - Application programming interface - Publication Source: wikipedia.org [URL: http://en.wikipedia.org/wiki/Api] - (INTERNET PUBLICATION) 07-30-2001	<input type="checkbox"/>
/T.T./	8	Author - WIKIPEDIA ORG - Steam (content delivery) - Publication Source: wikipedia.org [URL: http://en.wikipedia.org/wiki/Steam_(content_delivery)] - (INTERNET PUBLICATION) 09-13-2004	<input type="checkbox"/>
/T.T./	9	Author - BEN DRAWBAUGH - Disney's KeyChest is not DRM - Publication Source: engadget.com [URL: www.engadget.com/2010/01/10/disneys-keychest-is-not-drm] - (INTERNET PUBLICATION 01-10-2010)	<input type="checkbox"/>
/T.T./	10	Author - RICHARD LAWLER - DECE & Keychest both laying claim to friendly DRM of the future title - Publication Source: engadget.com [URL: www.engadget.com/2010/01/06/dece-and-keychain-both-laying-claim-to-friendly-drm-of-the-future/] - (INTERNET PUBLICATION 01-06-2010)	<input type="checkbox"/>

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Substitute for form 1449/PTO  <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;"><i>(Use as many sheets as necessary)</i></p>	<b>Complete if Known</b>
	Application Number: 13397517
	Filing Date:
	First Named Inventor: William Grecia
	Art Unit: 2494
	Examiner Name: <del>Ms. Bawa</del> Tri Tran
	Attorney Docket Number:
Sheet 1 of 1	

U. S. PATENT DOCUMENTS					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/T.T./		US- 6611812	08-26-2003	Hurtado; Marco M.	
/T.T./		US- 7568111	07-28-2009	Aiva; Jukka	
/T.T./		US- 20090164776	06-25-2009	Tuoriniemi; Samuli	
/T.T./		US- 20080209576	08-28-2008	Nooning; Malcolm H.	
/T.T./		US- 20100057871	03-04-2010	Kaplan; Gregg	
/T.T./		US- 6665797	12-16-2003	Keung; Tse Ho	
/T.T./		US- 5586186	12-17-1996	Yuval; Gideon A.	
/T.T./		US- 5719938	02-17-1998	Haas; Zygmunt	
/T.T./		US- 5010571	04-23-1991	Katznelson; Ron D.	
/T.T./		US- 5247575	09-21-1993	Sprague; Peter J.	
/T.T./		US- 5267313	11-30-1993	Hirata; Koza	
/T.T./		US- 5319705	06-07-1994	Halter; Bernard J.	
/T.T./		US- 5349642	09-20-1994	Kingdon; Kevin	
/T.T./		US- 5509074	04-16-1996	Choudhury; Abhijit K.	
/T.T./		US- 5737416	04-07-1998	Cooper; Thomas Edward	
/T.T./		US- 7516495	04-07-2009	Shoemaker; Charles H.	
/T.T./		US- 20050138406	06-23-2005	Cox; Alan	
/T.T./		US- 7594275	09-22-2009	Zhu; Bin	
/T.T./		US- 20100043077	02-18-2010	Robert; Anaud	

FOREIGN PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	† <sup>6</sup>
		Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)				

Examiner Signature: /Tri Tran/ (05/07/2012)	Date Considered:	05/07/2012
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Includes copy of this form with next communication to applicant. <sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kind Code of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>7</sup>Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Times will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number	13397517	13397517 - GAU: 2494
	Filing Date		
	First Named Inventor	Grecia, William	
	Art Unit	<del>2492</del> 2494	
	Examiner Name	Tri Tran	
	Attorney Docket Number		

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- See attached certification statement.
- The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- A certification statement is not submitted herewith.

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/william grecia/	Date (YYYY-MM-DD)	2/24/2012
Name/Print	William Grecia	Registration Number	70984

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	"13397517"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/06 22:07
S3	124	(("7266839") or ("7567987") or ("20070266095") or ("20090100060") or ("20070010334") or ("20060036554") or ("7634734") or ("20080111052") or ("20030018491") or ("7610630") or ("7689823") or ("7702592") or ("7515710") or ("6799165") or ("6385596") or ("5907617") or ("5903647") or ("5887060") or ("5883955") or ("5870543") or ("5883954") or ("7290699") or ("7340769") or ("7343014") or ("7386513") or ("7571328") or ("7624417") or ("20020010759") or ("20020157002") or ("20040024670") or ("20040062400") or ("20040162786") or ("20040220878") or ("20050066353") or ("20050182727") or ("20060173787") or ("20060173789") or ("20060259652") or ("20060259982") or ("20070055887") or ("20070156719") or ("20070179854") or ("20070180485") or ("20070250445") or ("20080027869") or ("20080091606") or ("20080109911") or ("20080165956") or ("20090012805") or ("20090049556") or ("20090083541") or ("20090183010") or ("20090217036") or ("20090254930") or ("20090257591") or ("20090265278") or ("20090299963") or ("20090307078") or	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 13:55

EWS-002434

		("20090327702") or ("20090328228").PN.				
S4	60	((("7266839") or ("7567987") or ("20070266095") or ("20090100060") or ("20070010334") or ("20060036554") or ("7634734") or ("20080111052") or ("20030018491") or ("7610630") or ("7689823") or ("7702592") or ("7515710") or ("6799165") or ("6385596") or ("5907617") or ("5903647") or ("5887060") or ("5883955") or ("5870543") or ("5883954") or ("7290699") or ("7340769") or ("7343014") or ("7386513") or ("7571328") or ("7624417") or ("20020010759") or ("20020157002") or ("20040024670") or ("20040062400") or ("20040162786") or ("20040220878") or ("20050066353") or ("20050182727") or ("20060173787") or ("20060173789") or ("20060259652") or ("20060259982") or ("20070055887") or ("20070156719") or ("20070179854") or ("20070180485") or ("20070250445") or ("20080027869") or ("20080091606") or ("20080109911") or ("20080165956") or ("20090012805") or ("20090049556") or ("20090083541") or ("20090183010") or ("20090217036") or ("20090254930") or ("20090257591") or ("20090265278") or ("20090299963") or ("20090307078") or ("20090327702") or ("20090328228").PN.	US-PGPUB; USPAT	OR	OFF	2012/05/07 13:55
S5	0	((("1505530A1") or ("1564621A1")).PN.	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 13:56
S6	11	((("1505530") or ("1564621")).PN.	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 13:56
S7	60	((("7266839") or ("7567987") or ("20070266095") or ("20090100060") or ("20070010334") or ("20060036554") or ("7634734") or ("20080111052") or ("20030018491") or ("7610630") or	US-PGPUB; USPAT	OR	OFF	2012/05/07 15:06

EWS-002435

		("7689823") or ("7702592") or ("7515710") or ("6799165") or ("6385596") or ("5907617") or ("5903647") or ("5887060") or ("5883955") or ("5870543") or ("5883954") or ("7290699") or ("7340769") or ("7343014") or ("7386513") or ("7571328") or ("7624417") or ("20020010759") or ("20020157002") or ("20040024670") or ("20040062400") or ("20040162786") or ("20040220878") or ("20050066353") or ("20050182727") or ("20060173787") or ("20060173789") or ("20060259652") or ("20060259982") or ("20070055887") or ("20070156719") or ("20070179854") or ("20070180485") or ("20070250445") or ("20080027869") or ("20080091606") or ("20080109911") or ("20080165956") or ("20090012805") or ("20090049556") or ("20090083541") or ("20090183010") or ("20090217036") or ("20090254930") or ("20090257591") or ("20090265278") or ("20090299963") or ("20090307078") or ("20090327702") or ("20090328228").PN.				
S8	0	S7 and ((DRM same ((many multi) near4 devices)) same (email\$3 with authenticat\$3 ))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 15:06
S9	0	S7 and ((DRM same ((many multi) near4 devices)) same (token ))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 15:07
S10	3	S7 and ((DRM same ((many multi) near4 devices)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 15:07
S11	2	"20090210346"	US-PGPUB;	OR	OFF	2012/05/07

EWS-002436

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			16:01
S12	8	(brand\$3 near2 request ) with (token meta adj data) same encrypted	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 16:44
S13	243	media with (interoperability inter-operability inter adj operability) and ((devices networks friends famil\$3) with ( sharing share\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 16:49
S14	35	S13 and ("713" "726").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 16:50
S15	0	(( (drm digital adj right) with ((different various many multi\$3) near3 (users clients pc hardware devices)) same (authentica\$3 with (mac device adj (identification id))) )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 21:52
S16	0	(( (drm digital adj right encrypted adj (media content)) with ((different various many multi\$3) near3 (users clients pc hardware devices)) same (authentica\$3 with (mac device adj (identification id))) )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 21:53
S17	0	(( (drm digital adj right encrypted adj (media content)) same ((different various many multi\$3) near3 (users clients pc hardware devices)) same (authentica\$3 with (mac device adj (identification id))) )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 21:53
S18	1	(( (drm digital adj right encrypted adj (media content)) same ((different various many multi\$3 shar\$3) with (users clients pc hardware devices)) same (authentica\$3 with (mac device adj (identification id))) )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 21:54
S19	11	(( (drm digital adj right encrypted adj (media content)) and (brand\$3 near3 request\$3) )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2012/05/08 10:05

EWS-002437



			IBM_TDB			
S20	0	((control\$4 access\$3 monitor\$3 ) with (encrypted adj (media content))) same ((different various many multi\$3 shar\$3) with (users clients pc hardware devices)) same (authentecat\$3 with (mac device adj (identification id))) ).ab,bsum.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 10:52
S21	80	((control\$4 access\$3 monitor\$3 ) with (encrypted adj (media content))) same ((different various many multi\$3 shar\$3) with (users clients pc hardware devices)) ).ab,bsum.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 10:53
S22	3	S21 and (authentecat\$3 with (mac device adj (identification id)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 10:53
S23	5	S21 and (authentecat\$3 with (token mac device adj (identification id)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 10:53
S24	33	S21 and (authentecat\$3 same (token mac device adj (identification id)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 10:54
S25	11	((control\$4 access\$3 monitor\$3 ) with (encrypted adj (media content))) same ((different various many multi\$3 shar\$3) with (users clients pc hardware devices)) ).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 10:54
S26	5622	((control\$4 access\$3 monitor\$3 ) with ((media content)) ) same ((different various many multi\$3 shar\$3) with (users clients pc hardware devices)) ) and (smart adj card smartcard token)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 12:11
S27	2	(request\$3 submit\$4 receiv\$3) same ((read\$3 writ\$3) with (meta\$4) with encrypt\$3 near\$3 (media content)) and ((digital adj right drm) same (shar\$3 interoperable interoperability inter adj operable inter adj operability))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 13:24
S28	14	(request\$3 submit\$4 receiv\$3) same ((read\$3 writ\$3) with (meta\$4) with (media content)) and ((digital adj right drm) same (shar\$3	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2012/05/08 13:25

EWS-002438

		interoperable interoperability inter adj operable inter adj operability))	EPO; JPO; DERWENT; IBM_TDB			
S29	2	S28 and (token smartcard smart adj card)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 13:25
S30	60	(("7266839") or ("7567987") or ("20070266095") or ("20090100060") or ("20070010334") or ("20060036554") or ("7634734") or ("20080111052") or ("20030018491") or ("7610630") or ("7689823") or ("7702592") or ("7515710") or ("6799165") or ("6385596") or ("5907617") or ("5903647") or ("5887060") or ("5883955") or ("5870543") or ("5883954") or ("7290699") or ("7340769") or ("7343014") or ("7386513") or ("7571328") or ("7624417") or ("20020010759") or ("20020157002") or ("20040024670") or ("20040062400") or ("20040162786") or ("20040220878") or ("20050066353") or ("20050182727") or ("20060173787") or ("20060173789") or ("20060259652") or ("20060259982") or ("20070055887") or ("20070156719") or ("20070179854") or ("20070180485") or ("20070250445") or ("20080027869") or ("20080091606") or ("20080109911") or ("20080165956") or ("20090012805") or ("20090049556") or ("20090083541") or ("20090183010") or ("20090217036") or ("20090254930") or ("20090257591") or ("20090265278") or ("20090299963") or ("20090307078") or ("20090327702") or ("20090328228")).PN.	US-PGPUB; USPAT	OR	OFF	2012/05/08 15:27
S31	41	S30 and (token smartcard smart adj card sim subscriber adj identity adj module )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2012/05/08 15:27

EWS-002439

			DERWENT; IBM_TDB			
S32	15	S31 and meta\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 15:28
S33	0	S32 and (writ\$3 overwrit\$3 wrote) with meta\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 15:51
S34	1488	(drm rights management digital adj (media content)) same (writ\$3 overwrit\$3 wrote) with meta\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 15:52
S35	127	S34 and ("713" "726").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 15:53
S36	41	S35 and (token smartcard smart adj card sim subscriber adj identity adj module )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 15:53
S37	2	"20100131346"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 16:46
S38	5	"2005065891"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:13
S39	2	"20050065891"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:13
S40	3	"20060277598"	US-PGPUB; USPAT; USOCR;	OR	OFF	2012/05/09 10:25

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S41	60	(("7266839") or ("7567987") or ("20070266095") or ("20090100060") or ("20070010334") or ("20060036554") or ("7634734") or ("20080111052") or ("20030018491") or ("7610630") or ("7689823") or ("7702592") or ("7515710") or ("6799165") or ("6385596") or ("5907617") or ("5903647") or ("5887060") or ("5883955") or ("5870543") or ("5883954") or ("7290699") or ("7340769") or ("7343014") or ("7386513") or ("7571328") or ("7624417") or ("20020010759") or ("20020157002") or ("20040024670") or ("20040062400") or ("20040162786") or ("20040220878") or ("20050066353") or ("20050182727") or ("20060173787") or ("20060173789") or ("20060259652") or ("20060259982") or ("20070055887") or ("20070156719") or ("20070179854") or ("20070180485") or ("20070250445") or ("20080027869") or ("20080091606") or ("20080109911") or ("20080165956") or ("20090012805") or ("20090049556") or ("20090083541") or ("20090183010") or ("20090217036") or ("20090254930") or ("20090257591") or ("20090265278") or ("20090299963") or ("20090307078") or ("20090327702") or ("20090328228")).PN.	US-PGPUB; USPAT	OR	OFF	2012/05/09 10:53
S42	41	S41 and (key adj fob token smartcard smart adj card sim subscriber adj identity adj module )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:53
S43	1491	(drm rights management (encrypt\$3 digital) adj (media content)) same (writ\$3 overwrit\$3 wrote) with meta\$4	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2012/05/09 10:54

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			EPO; JPO; DERWENT; IBM_TDB			
S44	282	S43 and (request\$3 log\$4) with (key fob token smart adj card)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:54
S45	57	S44 and ("713" "726").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:55
S46	1713	(drm digital adj right\$1 rights adj management (encrypt\$3 digital) adj (media content)) same (writ\$3 overwrit\$3 wrote) with meta\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:58
S47	186	S46 and (request\$3 log\$4) with (key fob token smart adj card)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:58
S48	44	S47 and ("713" "726").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:58
S49	178	(drm digital adj right\$1 rights adj management (encrypt\$3 digital) adj (media content)) same (writ\$3 overwrit\$3 wrote) with meta\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:59
S50	91	S49 and (request\$3 log\$4) with (key fob token smart adj card)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:59
S51	28	S50 and ("713" "726").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:59
S52	14884	(drm digital adj right\$1 rights adj management (encrypt\$3 digital) adj	US-PGPUB; USPAT;	OR	OFF	2012/05/09 11:08

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		(media content) same (key fob token smart adj card)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S53	4816	S52 and ("713" "726").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 11:08
S54	1872	S52 and 713/155-159,168,172-176,182,189.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 11:10
S55	424	S54 and ((all various every plural\$4 many multi\$3 different ) adj2 devices)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 11:11
S56	74	S55 and (application adj interface api)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 11:11
S57	1198	S53 and ((all various every plural\$4 many multi\$3 different ) adj2 devices)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 11:41
S58	66	S57 and ((read\$3 writ\$3 updat\$) with meta\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 11:42
S59	43	((request\$3 permission ask\$3 query\$3) with (read writ\$3 updat\$3 modif\$3) with meta\$4) same (drm digital adj right\$1 media adj content encrypted adj media)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 12:42
S60	0	S59 and (authentikat\$3 verif\$3 verification) with (token smart adj card fob)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 12:43

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S61	2	S59 and (token smart adj card fob)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 12:44
S62	2	S59 and 713/155-159,168,172- 176,182,189.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 12:46
S63	92781	26and ("713" "726").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 12:49
S64	5	S59 and ("713" "726").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 12:49
S65	2	S59 and (user adj key token smart adj card fob)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 13:01
S66	66	((request\$3 permission ask\$3 query\$3 permit\$4 allow\$3) with (read writ\$3 updat\$3 modif\$3) with meta\$4) same (drm digital adj right\$1 media adj content encrypted adj media)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 13:02
S67	70235	"36" and (user adj key token smart adj card fob)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 13:03
S68	4	S66 and (user adj key token smart adj card fob)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 13:03
S69	0	((web near3 account) same ((two adj way) exchange) with authentikat\$3) same (drm digital adj right\$1 media adj content encrypted adj media)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2012/05/09 17:11

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			DERWENT; IBM_TDB			
S70	8731	((web near3 account) same ((two adj way) exchange) with authenticat\$3) key adj exchange ake ) same (drm digital adj right\$1 media adj content encrypted adj media)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 17:15
S71	185	((web near3 account) same ((two adj way) exchange) with authenticat\$3) key adj exchange ake ) same (drm digital adj right\$1 media adj content encrypted adj media)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 17:15
S72	62	S71 and ("713" "726").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 17:16
S73	5	S72 and (api application adj interface)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 17:17
S74	12	(web adj (service account) with (key data) near2 exchange) and (DRm digital adj right\$1 encrypted adj (media content))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 17:34
S75	2	(web adj (service account) with (key data) near2 exchange) same (verifi\$3 verification) and (DRm digital adj right\$1 encrypted adj (media content))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 18:26
S76	2	(web adj (service account) same (key data) near2 exchange) same (verifi\$3 verification) and (DRm digital adj right\$1 encrypted adj (media content))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 18:26
S77	44	(web adj (service account) same (key data) near2 exchange) same (verifi\$3 verification authenticat\$3 authentication)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 22:27
S78	14	S77 and ("713" "726").clas.	US-PGPUB; USPAT; USOCR;	OR	OFF	2012/05/09 22:27

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S79	2139	(id identificaTION identif\$3) with (account\$1) and (drm digital adj right\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 20:15
S80	479	S79 and ("713" "726").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 20:15
S81	134	S80 and (ike ake key adj exchang\$3 data adj exchang\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 20:16
S82	58	S80 and (ike ake key adj exchang\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 20:16
S83	3285241	(user client) near4 customiz\$3 modif\$3 (display screen panel) same (encrypted adj2 (digital media))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 20:18
S84	2	(user client) near4 (customiz\$3 modif\$3) with (display screen panel) same (encrypted adj2 (digital media))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 20:19
S85	36294	(user client) near4 (customiz\$3 modif\$3) same (display screen panel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 20:20
S86	17102	(user client) near4 (customiz\$3 modif\$3) with (display screen panel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 20:20
S87	622	S86 and ("713" "726").clas.	US-PGPUB;	OR	OFF	2012/05/13

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			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:21
S88	16	S87 and (drm digital adj right)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 20:21
S89	114	S87 and 713/155-159,168,172- 176,182,189.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 20:56
S90	11	S89 and (encrypted adj2 (digital media))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 20:57
S91	140	S87 and 726/22-32.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 21:19
S92	12	S91 and (encrypted adj2 (digital media))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 21:19
S93	250	S87 and 726/7-32.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 21:22
S94	15	S93 and (encrypted adj2 (digital media))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 21:23
S95	3	S94 not S92	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2012/05/13 21:23

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S96	2	"20100100899"	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 21:46
S97	17102	(user client) near4 (customiz\$3 modif\$3) with (display screen panel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/14 11:29
S98	622	S97 and ("713" "726").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/14 11:29
S99	250	S98 and 726/7-32.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/14 11:29
S100	30	S99 and (encrypted adj2 (digital media) digital adj (media content))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/14 11:29
S101	53	S98 and (encrypted adj2 (digital media) digital adj (media content))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/14 11:35
S102	8	(updat\$3 read\$3 writ\$3 modif\$3) with brand\$3 with (meta metadata meta-data).ab,clm,ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/17 10:54
S103	2	"7526650"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/21 13:47
S104	15144386	"20120030291" "20120124612" "20120124613" "20120124611" "20120124614" "20120124610" "7" "20120124678"	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2012/10/01 12:55

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			EPO; JPO; DERWENT; IBM_TDB			
S105	14	"20120030291" "20120124612" "20120124613" "20120124611" "20120124614" "20120124610" "20120124678"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/10/01 12:56
S106	17	(digital adj media with (sharing interoperability)) same (cloud vendors universal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/10/01 15:21
S107	43	(digital adj media with (sharing interoperability)) same (metadata meta-data meta adj data)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/10/01 15:25
S108	154	(writ\$3 request modif\$3) with (metadata meta-data meta adj data) same (digital adj media)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/10/01 15:45
S109	2	S108 and ((digital adj media same(sharing interoperability)) same (cloud vendors universal))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/10/01 15:46
S110	8	(( ((writ\$3 request modif\$3 add\$3 attach\$3) near4 (membership identity right authorization authorized ID)) with (metadata meta-data meta adj data) ) same (digital adj media)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/10/02 10:35
S111	79	(( ((writ\$3 request modif\$3 add\$3 attach\$3 read\$3 includ\$3) with (verification verif\$4 membership identity right authorization authorized ID)) with (metadata metadata meta adj data) ) same (digital adj media)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/10/02 11:07
S112	71	S111 not S110	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/10/02 11:07
S113	19	S112 and unlimit\$3	US-PGPUB; USPAT;	OR	OFF	2012/10/02 11:31

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S114	0	S112 and interoperability	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/10/02 11:56
S115	10	((shar\$3 device adj (id identification) address mac password serial key) with (token verification verif\$4 membership identity right authorization authorized ID)) with (metadata metadata meta adj data) ) same (digital adj media)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/10/02 15:34
S116	1	"12982378"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/10/03 17:05
S117	0	"20100100899" and (right\$1 with meta)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/10/30 21:42
S118	1	"20100100899" and (right\$1 with metadata)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/10/30 21:43
S120	1	"20110288946" and (key\$1 with metadata)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/10/31 15:29
S121	1	"61307196"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/11/05 10:26
S122	154	(writ\$3 request modif\$3) with (metadata meta-data meta adj data) same (digital adj media)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/11/14 17:55

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S123	82	((writ\$3 request modif\$3 add\$3 attach\$3 read\$3 includ\$3) with (verification verif\$4 membership identity right authorization authorized ID)) with (metadata metadata meta adj data) ) same (digital adj media)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/11/14 17:57
S124	3	(identifier with (cross-referenc\$3 cross) with token ) and ( digital adj (media content) DRM)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/11/15 15:56
S125	19452	((device\$1 right\$1 near object\$1) with (identification identif\$4)) same shar\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/01/16 12:33
S126	8704	((device\$1 right\$1 near object\$1) with (identification identif\$4)) with shar\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/01/16 12:34
S127	5292	((device\$1 right\$1 near object\$1) near5 (identification identif\$4)) with shar\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/01/16 12:34
S128	3921	((device\$1 right\$1 near object\$1) near3 (identification identif\$4)) with shar\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/01/16 12:34
S129	292	S128 and "726".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/01/16 12:34
S130	174	S128 and 726/7-32.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/01/16 12:35
S131	19	((shar\$3 device adj (id identification) address mac password serial key) with (token verification verif\$4 membership identity right authorization authorized ID)) with	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2013/01/16 12:40

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		(metadata metadata meta adj data) ) same (digital adj media)	DERWENT; IBM_TDB			
S132	10	(( (shar\$3 device adj (id identification) address mac password serial key) with (token verification verif\$4 membership identity right authorization authorized ID)) with (metadata metadata meta adj data) ) same (digital adj media)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/01/16 12:52
S133	9	S131 not S132	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/01/16 12:52
S134	3	"7526650"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/01/16 14:49
S135	31	(( (shar\$3 device adj (id identification) address mac password serial key) with (token verification verif\$4 membership identity right authorization authorized ID)) with (metadata metadata meta adj data) ) same (digital adj media right adj object)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/01/17 14:42
S136	3	"20060161635"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/01/17 14:43
S137	3	"20020107803"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/01/17 14:43

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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

70984 7590 02/04/2013

The STR3EM Team  
 2885 Sanford Ave SW #13208  
 Grandville, MI 49418

**Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/397,517	02/15/2012	William Grecia	B7-1	6106

TITLE OF INVENTION: PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$885	\$0	\$0	\$885	05/06/2013

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRAN, TRI MINH	2494	726-009000

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. <b>Use of a Customer Number is required.</b></p>	<p>2. For printing on the patent front page, list</p> <p>(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____</p> <p>(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____</p> <p>3 _____</p>
---	---

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE \_\_\_\_\_ (B) RESIDENCE: (CITY and STATE OR COUNTRY) \_\_\_\_\_

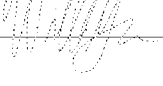
Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

<p>4a. The following fee(s) are submitted:</p> <p><input checked="" type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p>
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5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature /william grecia/  Date 02/04/2013

Typed or printed name William Grecia Registration No. 70984

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>	13397517
<b>Filing Date:</b>	15-Feb-2012
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Filer:</b>	William Grecia
<b>Attorney Docket Number:</b>	B7-1

Filed as Small Entity

### Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
Utility Appl issue fee	2501	1	885	885

**Extension-of-Time:**

EWS-002454

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Miscellaneous:</b>				
<b>Total in USD (\$)</b>				<b>885</b>

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	14861148
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	04-FEB-2013
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	00:39:57
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$885
RAM confirmation Number	9522
Deposit Account	
Authorized User	

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part Zip	Pages (if appl.)
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1	Issue Fee Payment (PTO-85B)	PTOL-855.pdf	167812	no	1
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**Warnings:**

**Information:**

2	Fee Worksheet (SB06)	fee-info.pdf	30167	no	2
			30bab5a2c1d7175a2f76439e2a86c61127896c17		

**Warnings:**

**Information:**

<b>Total Files Size (in bytes):</b>			197979		
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**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

William Grecia

Application No.: 13/397,517

Filed: February 15, 2012

For: PERSONALIZED DIGITAL MEDIA

ACCESS SYSTEM (PDMAS)

Examiner: Tran, Tri Minh

Art Unit: 2494

CNF# 6106

**ADVISORY ACTION RESPONSE**

Assistant Commissioner for Patents

P. O. Box 1450

Alexandria VA, 22313-1450

Response to Advisory Action and Formal Request to the Supervisory Examiner Pursuant to MPEP § 707.02

Sir:

In response to the Advisory Action mailed on December 26, 2012, applicant has duly filed a 1.131 declaration on December 16, 2012, as suggested by the Supervisory Examiner on an examiner initiated interview conducted on December 13, 2012 about options available to the applicant to overcome the Baiya reference. The Baiya reference is identified as the only reference cited as part of the Final Office Action mailed November 26, 2012 and further, the last reference remaining after 32 pages of Examiner search results and a previous 7 references argued and overcome by the applicant and withdrawn by the Examiner.

Applicant has made no claim amendments to overcome the Final Office Action and filed a Request for Continued Examination (RCE) so the Examiner can timely review the 169 page 1.131 submission.

Applicant further request review by the Supervisory Examiner in accordance with MPEP 707.02 in part which reads:

**707.02 Applications Up for Third Action and 5-Year Applications**

“The supervisory patent examiners should impress their assistants with the fact that the shortest path to the final disposition of an application is by finding the best references on the first search and carefully applying them.”

The supervisory patent examiners are expected to personally check on the pendency of every application which is up for the third or subsequent \* > Office < action with a view to finally concluding its prosecution.”

Applicant request a Notice of Allowance having met all the requirements of the Examiner according to a telephone interview and the Advisory Action suggestion of submitting a 1.131 swear back declaration to place the application listed above into a condition of allowance.

The Applicant has complied with the requirements of the Examiner and the USPTO that now place 13/397,517 into a condition of allowance for a patent as a right to all inventors protected by the United States law under the United States Constitution, Article 1, Section 8, Clause 8.

Respectfully Submitted

William Grecia (Inventor)

A handwritten signature in black ink, appearing to read 'William Grecia', with a stylized flourish at the end.

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	14648266
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	09-JAN-2013
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	01:54:08
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Supplemental Response or Supplemental Amendment	70702m.pdf	159826 <small>801f40c3611aed9e29c3e50db4024b37bfc a7edb</small>	no	2

### Warnings:

### Information:

EWS-002460

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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.





UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO., EXAMINER, ART UNIT, PAPER NUMBER, NOTIFICATION DATE, DELIVERY MODE. Includes application details for William Grecia and examiner information.

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

- cs2cd@yahoo.com
sa.cs2cd@gmail.com
bally5@aol.com

<b>Examiner-Initiated Interview Summary</b>	<b>Application No.</b> 13/397,517	<b>Applicant(s)</b> GRECIA, WILLIAM	
	<b>Examiner</b> TRI TRAN	<b>Art Unit</b> 2494	

All participants (applicant, applicant's representative, PTO personnel):

- (1) TRI TRAN. (3) William Gracia (Applicant).  
(2) Jung Kim (SPE). (4) \_\_\_\_\_.

Date of Interview: 13 December 2012.

Type:  Telephonic  Video Conference  
 Personal [copy given to:  applicant  applicant's representative]

Exhibit shown or demonstration conducted:  Yes  No.  
If Yes, brief description: \_\_\_\_\_.

Issues Discussed 101 112 102 103 Others  
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1.

Identification of prior art discussed: Baiya.

**Substance of Interview**

(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

See Continuation Sheet.

**Applicant recordation instructions:** It is not necessary for applicant to provide a separate record of the substance of interview.

**Examiner recordation instructions:** Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Attachment

/TRI TRAN/  
Examiner, Art Unit 2494

/Jung Kim/  
Supervisory Patent Examiner, Art Unit 2494

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant desired to overcome the effective filing date of the Baiya reference by providing arguments/evidence that he invented his invention prior to the 102(e) date of Baiya reference. The applicant had submitted evidence of fact that a provisional application 61/307,196 was filed by the Applicant on February 23 2010, which preceded the effective filing date of the Baiya reference. Applicant stated that although the instant application does not claim priority to this provisional application, his claimed invention in the instant application is described in his provisional application.

Applicant was notified that he has the following avenues to overcome the rejection (specifically the Baiya reference) by:

1. Filing a proper swear back by submitting an Affidavit or a Declaration under 37 CFR 1.131 to show conception / diligence; see the advisory action that was mailed currently with this interview summary for more details on this option.
2. Filing a petition to accept an unintentionally delayed claim under 35 USC 119(e) for the benefit of the prior filed provisional application. See 37 CFR 1.78(a)(6).
3. Amending the claims to overcome the grounds of rejection.
4. Providing a persuasive rebuttal argument why the prior art of record does not teach the claimed invention.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		13397517	
	Filing Date		2012-02-15	
	First Named Inventor	William Grecia		
	Art Unit	2494		
	Examiner Name	TRAN, TRI MINH		
	Attorney Docket Number			

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS						Remove
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20130007892		2013-01-03	INOOKA; Hidehiro	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS								Remove
Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> j	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS				Remove
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>5</sup>

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number	13397517
	Filing Date	2012-02-15
	First Named Inventor	William Grecia
	Art Unit	2494
	Examiner Name	TRAN, TRI MINH
	Attorney Docket Number	

	1		<input type="checkbox"/>
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If you wish to add additional non-patent literature document citation information please click the Add button **Add**

**EXAMINER SIGNATURE**

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	13397517		
Filing Date	2012-02-15		
First Named Inventor	William Grecia		
Art Unit	2494		
Examiner Name	TRAN, TRI MINH		
Attorney Docket Number			

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- See attached certification statement.
- The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- A certification statement is not submitted herewith.

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/william grecia/	Date (YYYY-MM-DD)	2013-01-04
Name/Print	William Grecia	Registration Number	70984

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	14619475
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	04-JAN-2013
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	15:33:44
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	ids_1-4-2013.pdf	611928 <small>fb7dc9058d281e4f7a8143cd0de21c0769997776</small>	no	4

### Warnings:

### Information:

EWS-002469



**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/397,517	02/15/2012	William Grecia	B7-1	6106
70984	7590	12/26/2012	EXAMINER	
The STR3EM Team 2885 Sanford Ave SW #13208 Grandville, MI 49418			TRAN, TRI MINH	
			ART UNIT	PAPER NUMBER
			2494	
			NOTIFICATION DATE	DELIVERY MODE
			12/26/2012	ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

cs2cd@yahoo.com  
sa.cs2cd@gmail.com  
bally5@aol.com

<b>Advisory Action Before the Filing of an Appeal Brief</b>	<b>Application No.</b> 13/397,517	<b>Applicant(s)</b> GRECIA, WILLIAM
	<b>Examiner</b> TRI TRAN	<b>Art Unit</b> 2494

**--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

THE REPLY FILED 27 November 2012 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

**NO NOTICE OF APPEAL FILED**

1.  The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:

- a)  The period for reply expires \_\_\_\_\_ months from the mailing date of the final rejection.
- b)  The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
- c)  A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires \_\_\_\_\_ months from the mailing date of the prior Advisory Action or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.

*Examiner Note:* If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANT'S FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**NOTICE OF APPEAL**

2.  The Notice of Appeal was filed on \_\_\_\_\_. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

**AMENDMENTS**

3.  The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because

- a)  They raise new issues that would require further consideration and/or search (see NOTE below);
- b)  They raise the issue of new matter (see NOTE below);
- c)  They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
- d)  They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: \_\_\_\_\_. (See 37 CFR 1.116 and 41.33(a)).

4.  The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5.  Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.

6.  Newly proposed or amended claim(s) \_\_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7.  For purposes of appeal, the proposed amendment(s): (a)  will not be entered, or (b)  will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

**AFFIDAVIT OR OTHER EVIDENCE**

8.  The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

9.  The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

10.  The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

**REQUEST FOR RECONSIDERATION/OTHER**

11.  The request for reconsideration has been considered but does NOT place the application in condition for allowance because:  
See Continuation Sheet.

12.  Note the attached Information *Disclosure Statement(s)*. (PTO/SB/08) Paper No(s). \_\_\_\_\_

13.  Other: \_\_\_\_\_.

**STATUS OF CLAIMS**

14. The status of the claim(s) is (or will be) as follows:

- Claim(s) allowed: .
- Claim(s) objected to: .
- Claim(s) rejected: 10-13,15-20,22,24-29 and 31-37.
- Claim(s) withdrawn from consideration: .

/Jung Kim/  
Supervisory Patent Examiner, Art Unit 2494

/TRI TRAN/  
Examiner, Art Unit 2494

Continuation of 11.

Applicant submitted an evidence of fact that a provisional application 61/307,196 was filed, by the Applicant, on February 23 2010 to overcome the effective filing date of Baiya reference.

Based on the after final submission, it appears that applicant intended to swear behind the Baiya reference based on a provisional application 61303292 filed by the applicant prior to the prior art date of the Baiya reference. Neither the instant application, nor any of its parent applications claim any type of reference to the '292 provisional application. Because the provisional application is abandoned, it is at most capable of showing conception. However, the after final submission does not explain with particular facts what sections of the asserted provisional application shows support for conception of the claims at issue. The submission of evidence must show how the '292 provisional application shows conception for these claims. See MPEP 2138.04. Furthermore, the '292 provisional application was filed on 2/10/10; the priority date of the subject matter relied upon in the Baiya reference is 2/23/12; and the instant application's effective filing date is 3/21/12. Applicant must provide evidence of facts establishing due diligence from prior to 2/23/12 to the effective filing date of the instant application, which is 3/21/12. See MPEP 715.07(a) and 2138.06 for a detailed discussion of the diligence requirement. Please note MPEP 2138.06 under the section "Diligence required in preparing and filing patent application." For these reasons, applicant has not properly sworn behind the Baiya reference.

It is further noted that applicant has other avenues to overcome the Baiya reference. The applicant can correct the claim to his provisional application by filing a petition to accept an unintentionally delayed claim under 35 USC 119(e) for the benefit of the prior filed provisional application. The petition must be accompanied by:

- (i) The reference required by 35 U.S.C. 119(e) and paragraph (a)(5) of this section to the prior-filed provisional application, unless previously submitted;
- (ii) The surcharge set forth in § 1.17(t); and
- (iii) A statement that the entire delay between the date the claim was due under paragraph (a)(5)(ii) of this section and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional.

See 37 CFR 1.78 (a)(6)

Furthermore, applicant can also overcome the rejection of record by either persuasively arguing against the 103 rejection, or amending the claims to overcome the grounds of rejection.

Please see the following references for further information regarding this response:

- MPEP 2138.06 for "Reasonable Diligence"
- 37CFR 1.116(b) section (6) for After Final Consideration
- 37 CFR 1.131 for Affidavit or Declaration of prior invention.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

William Grecia

Application No.: 13/397,517

Filed: February 15, 2012

For: PERSONALIZED DIGITAL MEDIA

ACCESS SYSTEM (PDMAS)

Examiner: Tran, Tri Minh

Art Unit: 2494

CNF# 6106

**RESPONSE AFTER FINAL**

Assistant Commissioner for Patents

P. O. Box 1450

Alexandria VA, 22313-1450

Sir:

In response to the Final Office Action mailed November 26, 2012, and having a period for response set to expire on February 26, 2012, applicant respectfully requests that the examiner favorably consider the following response to reconsider issuing a Notice Of Allowance of all examined claims in the interest of Compact Prosecution under the After Final Consideration Pilot (AFCP) extended until December 15, 2012, on the factual merits of the evidence submitted and attached with this response in accordance with 37 CFR §1.116 section (e).

MPEP 2138.04 “Conception” [R-5] IV. < A PREVIOUSLY ABANDONED APPLICATION WHICH WAS NOT COPENDING WITH A SUBSEQUENT APPLICATION IS EVIDENCE ONLY OF CONCEPTION

An abandoned application with which no subsequent application was copending serves to abandon benefit of the application’s filing as a constructive reduction to practice and the abandoned application is evidence only of conception. In re Costello, 717 F.2d 1346, 1350, 219 USPQ 389, 392 (Fed. Cir. 1983).

Attention To The Commissioner Of Patents:

INFORMATION DISCLOSURE STATEMENTS

All IDS submissions by the applicant are patents or patent applications (and other non-patent information) the applicant has knowledge of within the State Of The Art as of the filing for a Request For Continued Examination (RCE).

/William grecia/

William Grecia

Applicant Pro Se

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	14495029
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	18-DEC-2012
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	08:18:18
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	IDSconvert.pdf	33971 <small>ad3bb193b24fce708069b820a031ae115d145726</small>	no	1

### Warnings:

### Information:

EWS-002476

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

William Grecia

Application No.: 13/397,517

Filed: February 15, 2012

For: PERSONALIZED DIGITAL MEDIA  
ACCESS SYSTEM (PDMAS)

Examiner: Tran, Tri Minh

Art Unit: 2494

CNF# 6106

Assistant Commissioner for Patents

P. O. Box 1450

Alexandria VA, 22313-1450

DECLARATION UNDER 37 CFR Section 1.131

Sir:

I, William Grecia, declare that I am the inventor for the above-identified patent application and that I conceived and practiced proper diligence in the United States the invention claimed in the above-identified patent application prior to February 23, 2010, the filing date for the cited U.S. provisional patent application No. 61/307,196 to Baiya. Attached Exhibits A-C are copies of evidence supporting this declaration by way of inventor's own U.S. provisional patent application No. 61/303,292 filed on February 10, 2010 and computer screen copies of evidence of daily diligence covering the critical dates of February 10, 2010 to March 21, 2010, with March 21, 2010 being the date of constructive reduction to practice with the filing of my parent case, U.S. patent application No. 12/728,218, for which the above-identified case claims the priority benefit date.

Pursuant to this conception and proper diligence, I actually reduced to constructive practice in the United States, the invention claimed in the above-identified patent application approximately

11 months and 2 days (or 339 days) prior to February 23, 2011, the filing date and reduction to constructive practice of the cited Baiya non-provisional patent application.

Exhibits A-C, which relate to the aforementioned conception, proper diligence, and constructive reduction to practice, correspond to the invention disclosed and claimed in the above-identified patent application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully Submitted,  
William Grecia (Inventor)

A handwritten signature in black ink, appearing to read "William Grecia", with a stylized flourish at the end.

# EXHIBIT A

## CONTINUING ENGINEERING DILIGENCE

---

Exhibit A is a screenshot of the applicant's STR3EM software project published on Cnet's download.com with a publication time stamp of December 9, 2009. Continuing engineering diligence was in progress to update STR3EM software to 2.0 moving into the date of February 10, 2010 when said diligence formed the necessary knowledge of the Invention to move to conception with the written disclosure submitted to the USPTO as a provisional application on February 10, 2010, the beginning date for which proof of diligence is being provided.



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Home > Windows Software > Video Software > Video Players > STR3EM

# STR3EM specifications

[back to product page](#)

## Video Software

What's new in version 2.3.2

DVD Burners Version 2.3.2 adds 32 character KodeKeys and "device" profile.

## DVD Software

General

Video Capture Software Publisher LAMbCast

Video Converters Publisher web site <http://www.str3em.com/>

Video Editing Software Release date December 09, 2009

Video Players Date added November 28, 2010

Video Publishing & Sharing Version 2.3.2

## Category

Category Video Software

Subcategory Video Players

## System requirements

Operating systems Windows 7, Windows 2003, Windows Vista, Windows XP, Windows Server 2008

Additional requirements Java Runtime Environment 1.6, Haali Media Splitter, AC3Filter

## Download information

File size 11.64MB

File name STR3EMSetup\_2.3.2.zip

## Popularity

Total Downloads 3,468

Downloads last week 14

## Pricing

License model Free

Limitations Not available

Price Not available



Ads

## 2013 Best PC Antivirus

Winners Announced. See What Won Our Editors Choice  
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Remove Viruses, Spyware & Trojans. Ranked #1 in  
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EXHIBIT A

# EXHIBIT B

## CONCEPTION ESTABLISHED WITH PROVISIONAL FILING OF #61/303,292

---

Exhibit B is a copy of the EFS Filing receipt dated February 10, 2010 for U.S. provisional application 61/303,292. – See: MPEP 2138.04 SECTION IV - 35 U.S.C. 102(g)



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING or 371(c) DATE	OR P.ARY UNIT	FE. SEE REC'D	ATTY. DOC. REF. NO.	TOT. CLAIMS	IND. CLAIMS
61/303,292	02/10/2010		135			

CONFIRMATION NO. 4747

UPDATED FILING RECEIPT

70984  
The STR3EM Team  
2885 Sanford Ave SW #13208  
Grandville, MI 49418



Date Mailed: 11/18/2010

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

William Grecia, Brooklyn, NY;

Power of Attorney: None

If Required, Foreign Filing License Granted: 03/03/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/303,292**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

\*\* SMALL ENTITY \*\*

Title

PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international

EXHIBIT B

patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184**

**EXHIBIT B**

**Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and

Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

## EXHIBIT B



**To:** cs2od@yahoo.com,sa.cs2od@gmail.com,bally5@aol.com  
**From:** PAIR\_eOfficeAction@uspto.gov  
**Cc:** PAIR\_eOfficeAction@uspto.gov  
**Subject:** Private PAIR Correspondence Notification for Customer Number 70984

Nov 18, 2010 05:49:13 AM

Dear PAIR Customer:

## EXHIBIT B

The STR3EM Team  
2885 Sanford Ave SW #13208  
Grandville, MI 49418  
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 70984, have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

**Disclaimer:**

The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
61303292	APP.FILE.REC	11/18/2010	

To view your correspondence online or update your email addresses, please visit us anytime at <https://portal.uspto.gov/secure/myportal/privatepair>.

If you have any questions, please email the Electronic Business Center (EBC) at [EBC@uspto.gov](mailto:EBC@uspto.gov) with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice.

UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**PROVISIONAL APPLICATION FOR PATENT COVER SHEET – Page 1 of 2**

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No. \_\_\_\_\_

INVENTOR(S)		
Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)
William	Grecia	Brooklyn, NY
Additional inventors are being named on the _____ separately numbered sheets attached hereto.		
TITLE OF THE INVENTION (500 characters max):		
PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM		<b>EXHIBIT B</b>
Direct all correspondence to: CORRESPONDENCE ADDRESS		
<input checked="" type="checkbox"/> The address corresponding to Customer Number: <span style="border: 1px solid black; padding: 2px 20px;">70984</span>		
OR		
<input type="checkbox"/> Firm or Individual Name		
Address		
City	State	Zip
Country	Telephone	Email
ENCLOSED APPLICATION PARTS (check all that apply)		
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76		
<input checked="" type="checkbox"/> Drawing(s) Number of Sheets <u>3</u>		
<input checked="" type="checkbox"/> Specification (e.g. description of the invention) Number of Pages <u>24</u>		
<input type="checkbox"/> CD(s). Number of CDs _____		
<input type="checkbox"/> Other (specify) _____		
Fees Due: Filing Fee of \$220 (\$110 for small entity). If the specification and drawings exceed 100 sheets of paper, an application size fee is also due, which is \$270 (\$135 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).		
METHOD OF PAYMENT OF THE FILING FEE AND APPLICATION SIZE FEE FOR THIS PROVISIONAL APPLICATION FOR PATENT		
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EWS-002487

PROVISIONAL APPLICATION COVER SHEET  
Page 2 of 2

PTO/SB/16 (12-08)

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SIGNATURE /william grecia/ Date 03/05/2010

TYPED or PRINTED NAME William Grecia REGISTRATION NO. \_\_\_\_\_  
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**EXHIBIT B**

# EXHIBIT B

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## Electronic Patent Application Fee Transmittal

Application Number: 61303292

Filing Date: 10-Feb-2010

Title of invention: PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM

# EXHIBIT B

First Named Inventor/Applicant Name: William Grecia

Filer: William Grecia

Attorney Docket Number:

Filed as Small Entity

### Provisional Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
Late provisional filing fee/cover sheet	2052	1	25	25

**Petition:**

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**Electronic Filing Receipt**

<b>EFS ID:</b>	7176539
<b>Application Number:</b>	61303292
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4747
<b>Title of Invention:</b>	PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM
<b>EXHIBIT B</b>	
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	
<b>Receipt Date:</b>	10-MAR-2010
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1	Provisional Cover Sheet (SB16)	cb0016.pdf	01-06-2008 10:24:38 AM 2008-06-24 15:00:00 0865	no	3
<b>Warnings:</b>					
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APPLICATION NUMBER	FILING OR 37(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
61/303,292	02/10/2010	William Grecia	

70984  
William Grecia  
932 East 79th Street  
Brooklyn, NY 11236

CONFIRMATION NO. 4747  
FORMALITIES LETTER



Date Mailed: 03/05/2010

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## NOTICE TO FILE MISSING PARTS OF PROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(c)

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An application number and filing date have been accorded to this provisional application. The items indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The provisional application cover sheet under 37 CFR 1.51(c)(1), which may be an application data sheet (37 CFR 1.76), is required identifying:
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The applicant needs to satisfy supplemental fees problems indicated below.

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APPLICATION NUMBER	FILING or 371(c) DATE	OR P. ARY UNIT	FE. SEE REC'D	ATTY. DOCKET NO.	TOT. CLAIMS	IND. CLAIMS
61/303,292	02/10/2010		110			

CONFIRMATION NO. 4747

70984  
William Grecia  
932 East 79th Street  
Brooklyn, NY 11236

FILING RECEIPT



Date Mailed: 03/05/2010

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Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

**Applicant(s)**

William Grecia, Residence Not Provided;

**Power of Attorney:** None

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/303,292**

**Projected Publication Date:** None, application is not eligible for pre-grant publication

**Non-Publication Request:** No

**Early Publication Request:** No

**\*\* SMALL ENTITY \*\***

**Title**

PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international

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61303292	NTC.MISS.PRT	03/05/2010	
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PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

# PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM

INVENTOR: WILLIAM GRECIA

Abstract

## EXHIBIT B

The invention is an apparatus that facilitates access to encrypted digital media to accept verification and authentication from an excelsior enabler using at least one token and at least one electronic identification. The said at least one electronic identification could be a device serial number, a networking MAC address, or a membership ID reference from a web service. Access to the product is also managed with a plurality of secondary enablers using the said at least one electronic identification reference. In one embodiment, the invention is a process that in accordance with said apparatus is used to handle writable metadata of encrypted digital media to identify and manage requests from a plurality of said enablers. In a second embodiment, the invention may include a plurality of support tokens to satisfy authenticity requests which may include an alternative version of the said at least one verification token. In yet another embodiment, said apparatus can require additional status requirements from said plurality of said enablers relationship with said web service before allowing decrypted access. In a third embodiment, the said at least one verification token and said plurality of support tokens can host using a HTTP PUT calculation scheme to pay royalties to the apparatus

provider.

## BACKGROUND OF THE INVENTION

# EXHIBIT B

### 1. Field of the Invention

The invention presented in this document relates to the field of digital rights management schemes used by creators of electronic products to protect commercial intellectual property copyrights from illegal copying using computerized devices. The invention contained here teaches a more personal system of digital rights management in which the electronic ID as part of a web service membership can be used to manage access rights across a plurality of devices. The invention is particularly useful for giving users the freedom to use products outside of the device in which the product was acquired and extend unlimited interoperability with other compatible devices.

### 2. Description of Related Art

Digital rights management (DRM) is a generic term for access control technologies that can be used by hardware manufacturers, publishers, copyright holders and individuals to impose limitations on the usage of digital content and devices. The term is used to describe any technology that inhibits uses (legitimate or otherwise) of digital content that were not desired or foreseen by the content provider. The term generally doesn't



refer to other forms of copy protection that can be circumvented without modifying the file or device, such as serial numbers or key files. It can also refer to restrictions associated with specific instances of digital works or devices.

## EXHIBIT B

Consumer entertainment industries are in the transition of delivering products on physical media such as CD and DVD to Internet delivered systems. The Compact Disc, introduced to the public in 1982, was initially designed as a proprietary system offering strict media to player compatibility. As the popularity of home computers and CD-ROM drives rose, so did the availability of CD ripping applications to make local copies of music to be enjoyed without the use of the disc. After a while, users found ways to share digital versions of music in the form of MP3 files that could be easily shared with family and friends over the Internet. The DVD format introduced in 1997 included a new apparatus for optical discs technology with embedded copy protection schemes also recognized as an early form of DRM. With internet delivered music and video files, DRM schemes has been developed to lock acquired media to specific machines and most times limiting playback rights to a single machine or among a limited number of multiple machines regardless if the model number is the same or not. Writing the machine device ID to the metadata of the media file, then cross referencing with a trusted clearinghouse according to pre-set rules does this.

DRM systems employed by DVD and CD technologies consisted of

# EXHIBIT B

scrambling (also known as encryption) disc sectors in a pattern to which hardware developed to unscramble (also known as decryption) said disc sectors are required for playback. DRM systems built into operating systems such as Microsoft Windows Vista block viewing of media when an unsigned software application is running to prevent unauthorized copying of a media asset during playback. DRM used in computer games such as SecuROM and Steam are used to limit the amount of times a user can install a game on a machine. DRM schemes for e-books include embedding credit card information and other personal information inside the metadata area of a delivered file format and restricting the compatibility of the file with a limited number of reader devices and computer applications.

In a typical DRM system, a product is encrypted using Symmetric block ciphers such as DES and AES to provide high levels of security. Ciphers known as asymmetric or public key/private key systems are used to manage access to encrypted products. In asymmetric systems the key used to encrypt a product is not the same as that used to decrypt it. If a product has been encrypted using one key of a pair it cannot be decrypted even by someone else who has that key. Only the matching key of the pair can be used for decryption. After receiving an authorization token from a first-use action are usually triggers to decrypt block ciphers in most DRM systems. Use rights and restrictions are established during this first-use action with the corresponding hosting device of a DRM protected product.

Examples of such prior DRM art include Hurtado (U.S. Pat. No. 6,611,812) who described a digital rights management system, where upon request to access digital content, encryption and decryption keys are exchanged and managed with use of an authenticity clearing house. Other examples include Alve (U.S. Pat. No. 7,568,111) who teaches a DRM and Tuoriniemi (U.S. Pat. No. 20090164776) who described a management scheme to control access to electronic content by recording use across a plurality of trustworthy devices that has been granted permission to work within the scheme.

## **EXHIBIT B**

DRM schemes have proven unpopular with consumers and rights organizations that oppose the complications with compatibility across machines manufactured by different companies. Reasons given to DRM opposition range from limited device playback restrictions to the loss of fair-use which defines the freedom to share media products with family members.

Prior art DRM methods rely on content providers to maintain computer servers to receive and send session authorization keys to client computers with an Internet connection. Usually rights are given from the server for an amount of time or amount of access actions before a requirement to reconnect with the server is required for reauthorization. At times, content providers will discontinue servers or even go out of business some years after DRM encrypted content was sold to consumers causing the ability

to access files to terminate.

A solution is needed to give consumers the unlimited interoperability between devices and "fair use" sharing partners for an infinite time frame while protecting commercial digital media from unlicensed distribution to sustain long-term return of investments.

## BRIEF SUMMARY OF THE INVENTION

## EXHIBIT B

The current state of DRM measures are not satisfactory because unavoidable issues can arise such as hardware failure or property theft that could lead to a paying customer losing the right to recover purchased products. The current metadata writable DRM measures do not offer a way to provide unlimited interoperability between unlimited machines because this theory goes against the very reason why traditional DRM exist.

The invention describes an improvement on prior art DRM methods in which allows unlimited interoperability of digital media between unlimited machines with management of end-user access to said digital media.

In one embodiment, the invention is a process of an apparatus which in accordance with an embodiment, another apparatus, tangible computer medium, or associated methods (herein referred to as The App) is used to: handle at least one branding

## EXHIBIT B

action which could include post read and write requests of at least one writable metadata as part of at least one digital media asset to identify and manage requests from at least one excelsior enabler, and can further identify and manage requests from a plurality of connected second enablers; with at least one token and at least one electronic identification reference received from said at least one excelsior enabler utilizing at least one membership. Here, controlled by the said at least one excelsior enabler, The App will proceed to receive the said at least one token to verify the authenticity of said branding action and further requests; then establish at least one connection with at least one programmable communications console of the said at least one membership to request and receive the said at least one electronic identification reference; and could request and receive other data information from said at least one membership. The method then involves sending and receiving variable data information from The App to the said at least one membership to verify a preexisting said at least one branding action of said at least one writable metadata as part of said at least one digital media asset; or to establish permission or denial to execute said at least one branding action or said post read and write requests of said at least one writable metadata. To do this, controlled by the said at least one excelsior enabler. The App may establish at least one connection, which is usually through the Internet, with a programmable communications console, which is usually a combination of an API protocol and graphic user interface (GUI) as part of a web service. In addition, the

said at least one excelsior enabler provides reestablished credentials to the programmable communications console as part of the said at least one membership, in which The App is facilitating and monitoring, to authenticate the data communications session used to send and receive data requests between the said at least one membership and The App.

## BRIEF DESCRIPTION OF THE DRAWINGS

## EXHIBIT B

FIG. 1 shows a flow chart giving an overview of the process of digital media personalization by way of an enabler using an apparatus or otherwise known as an application in which facilitates digital media files. Here the apparatus interacts with all communicative parts required to fulfill the actions of the invention.

FIG. 2 shows a flow chart giving an overview of the process of an access request made by an enabler and subsequently checks communicative parts to cross-reference information stored in the metadata of the digital media asset which has been previously handled by the process of FIG. 1.

## DETAILED DESCRIPTION OF THE INVENTION

Traditional digital rights management (DRM) schemes are defined as authentication components added to digital files that have been encrypted from public access. Encryption schemes are

not DRM methods but DRM systems are implemented to use an additional layer of authentication in which permission is granted for access to the cipher key required to decrypt files for access. A computer server is established to host decryption keys and to accept authentication keys from Internet connected client computers running client software in which handles the encrypted files. The server can administer different authorization keys back to the client computer that can grant different sets of rules and a time frame granted before the client is required to connect with the server to reauthorize access permissions. In some cases content can terminate access after a set amount of time, or the process can break if the provider of the DRM server ever cease to offer services.

## EXHIBIT B

Encrypted digital files as referred to in this document can comprise: video files, audio files, container formats, documents, metadata as part of video game software and other computer based apparatus in which processed data is facilitated.

The novelty of the invention is in the interest of providing infinite access rights of legally acquired at least one encrypted digital media asset to the content acquirer, explained in this document as the excelsior enabler, and optionally to their recognized friends and family, explained in this document as a plurality of secondary enablers. To explain further, the excelsior and secondary enablers defined could be human beings or computerized mechanisms programmed to process steps of the

invention as would normally be done manually by a human being. In addition to said enablers, an apparatus used alone or in accordance with an embodiment, another apparatus, tangible computer medium, or associated methods with a connection are needed (herein referred to as The App). To deliver the requirements of the invention, communicative and connected elements comprise: verification, authentication, electronic ID metadata branding, additional technical branding, and cross-referencing. The connection handling the communicative actions of the invention will usually be the Internet and can also be an internal apparatus cooperative. The App can further be defined as a Windows OS, Apple OS, Linux OS, and other operating systems hosting software running on a machine or device with a capable CPU, memory, and data storage. The App can be even further defined as a system on a chip (SOC), embedded silicon, flash memory, programmable circuits, cloud computing and runtimes, and other systems of automated processes.

## EXHIBIT B

The digital media assets used in this system are encrypted usually with an AES cipher and decryption keys are usually stored encoded, no encoded, encrypted, or no encrypted as part of the apparatus or as part of a connection usually an Internet server. As explained earlier, the system we will discuss will work as a front-end to encrypted files as an authorization agent for decrypted access.

The verification element of this invention is facilitated by at least



## EXHIBIT B

one token handled by at least one excelsior enabler. A token can be a structured or random password, e-mail address associated with a e-commerce payment system (such as PayPal, Amazon Payments, and other credit card services) used to make an authorization payment, or other redeemable instruments of trade for access rights of digital media. Usually, an identifier for said digital media is stored in a database with another database of a list of associated tokens for cross-reference identification to use with the said verification element. The said database of a list of associated tokens can be comprised of Instant Payment Notification (IPN) received from successful financial e-commerce transactions that includes the identifier for said digital media; import of CSV password lists, and manually created reference phrases. For this discussion, the said structured or random password example will be used as reference. Said structured or random passwords can be devised in encoded schemes to flag the apparatus of permission type such as: 1) Purchases can start a password sequence with "P" following a random number, so further example would be "PSJD42349MFJDF". 2) Rentals can start or end a password sequence with "R" plus (+) the number of days a rental is allowed, for example "R7" included in "R7SJDHFG58473" flagging a seven day rental. 3) Memberships can start or end a password sequence with "M" plus (+) optionally the length of months valid for example "M11DFJGH34KF" would flag an eleven-month membership period. The tokens of this invention could be stored in a relational database such as MySQL or Oracle but will teach a more robust

## EXHIBIT B

and long-term method. Cloud storage systems such as Amazon's Web Services Simple Storage Solution, or also known as S3, provides a highly available worldwide replicated infrastructure. In addition to S3, monetization offerings such as DevPay offer developers the opportunity to make money from applications developed to use the services. The verification element defined in this disclosure will reference to said S3 and DevPay services for example purposes only as many options such as FTP, SimpleDB, solid state storage and others can be used to host the token hosting needed for the verification element of this invention. The term "verification element" used in explanation of the at least one token required for this invention is because the token represents permission from the content provider to grant access rights to the excelsior enabler and thereafter the plurality of secondary enablers. To set up the verification element the content provider can manually or automatically generate a single or a plurality of structured or random password in which will represent the token. By using public or private access of S3 as part of an apparatus, the content provider can create empty text files giving each the name of the passwords generated. Because S3 is associated with a highly available worldwide infrastructure, to check this password token can be done by simply constructing a HTTP request from the apparatus and triggering follow up actions based on either a 200 HTTP response, which means OK at which point the next action can happen, or a 400 HTTP response which means ERROR at which point the verification process is voided. An additional token can be used to provide a flag to the

## EXHIBIT B

apparatus that the verification element has been fulfilled for a initial verification token. Creating an alternate version of the first token by appending a reference to the end, for example, does this: "M11DFJGH34KF\_user@str3em.com\_01\_01\_11". In this example, it is defined that the eleven month authorized membership token was verified by a user@str3em.com on January 1, 2011. By providing a second token, the first token becomes locked to ownership by the excelsior enabler preventing unauthorized users from reusing the first token without providing the authentication associated with the alternative referenced second token. In the interest of providers of the apparatus delivering this invention, this document will teach a method of a HTTP PUT calculation scheme for automatic royalty billing and administration for the token element used in the invention. Amazon's DevPay allow developers to attach monetary charges to data services of S3 offered as an embedded component of said apparatus. By using the "PUT" requests parameter, tokens generated by the apparatus are monitored, calculated, and charged to clients of said apparatus provider. For example: the default charge measure for DevPay is \$0.05 for every 1000 PUT request. By changing the amount to \$1.00 for every 1000 PUT requests, the apparatus provider is paid a \$0.10 royalty for each token created. Content providers using a connected apparatus like DevPay to deliver and manage digital media distribution do not need to have restrictions on the tokens created as with prior art DRM key providers as DevPay is charged on a pay-as-you-need model on a monthly basis. As a novelty to the apparatus

## EXHIBIT B

provider, if a content provider fails to pay royalties due, the DevPay hosting will automatically deny token access to all related media products in distribution and restore this verification element when royalties are paid in full. This relieves the need of physical reprimand as with prior art DRM in which delinquent accounts are subject to human auditing processes.

The authentication element of this invention is at least handled first by the said at least one excelsior enabler with a connection to a membership. In this disclosure, the connection is equal to the Internet and the membership is equal to a web service. Further, the web service must be available for two way data exchange to complete the authentication process of this invention. Data exchange with a web service is usually facilitated with a programmable communications console, at most times, will be an Applications Programmable Interface (API). An API is a set of routines, data structures, object classes, and/or protocols provided by libraries and/or operating system services in order to support the building of applications. An API may be language-dependent: that is, available only in a particular programming language, using the particular syntax and elements of the programming language to make the API convenient to use in this particular context. Alternatively an API may be language-independent: that is, written in a way that means it can be called from several programming languages (typically an assembly/C-level interface). This is a desired feature for a service-style API that is not bound to a particular process or system and is

## EXHIBIT B

available as a remote procedure call. A more detailed description of API that can be used for an apparatus can be found in the book, "Professional Web APIs with PHP: eBay, Google, Paypal, Amazon, FedEx plus Web Feeds", by Paul Reinheimer, Wrox publishers (2006). A program apparatus, scripts, often calls these APIs or sections of code residing on user computerized devices. For example, a web browser running on a user computer, cell phone, or other device can download a section of JavaScript or other code from a web server, and then use this code to in turn interact with the API of a remote Internet server system as desired. A Graphic User Interface (GUI) can be installed for human interaction or processes can be preprogrammed in a programmable script such as PHP, ASP.Net, Java, Ruby on Rails and others. The authentication element of the invention is usually embedded as a process of the apparatus but could be linked dynamically. In this document, the embedded version using a GUI will be used as reference. The web service equipped with the API is usually a well-known membership themed application in which the users must use an authentic identification. Some example includes Facebook in which as a rule, members are required to use their legal name identities. A reference number or name with the Facebook Platform API represents this information. Other verified web services in which real member names are required such as the LinkedIn API and the PayPal API and even others could be used, but for this discussion, Facebook will be used only as an example of how the authentication element of the invention is utilized. The Facebook

API system, as well as others, operates based on an access authentication system called from a connected apparatus (which is usually an Internet powered desktop or browser based application) with an API Key, an Application Secret Key and could also include an Application ID. For example, the Facebook API Application Keys required to establish a data exchange session with said connected apparatus might look like:

## EXHIBIT B

API Key

37a925fc5ee9b4752af981b9a30e9a73gh

Application Secret

f2a2d92ef395cce88eb0261d4b4gsa782

Application ID

51920566446

Said collective API keys are usually embedded in the source code of the apparatus, or stored on a remote Internet server, and could be included in the said encrypted digital media metadata and inserted on-the-fly into calls made to the said API from the said connected apparatus. This allows dynamic API connection of said apparatus using keys issued to individual content providers so in the event of a reprimand of a single said individual content provider by the API provider, the collective said individual content providers and said enablers of said connected apparatus are not affected.

## EXHIBIT B

Upon an access request of said digital media, the said excelsior enabler interacts with the apparatus, usually a software or web application, to enter membership credentials in a GUI front-end connected to said API. Said membership credentials are usually comprised of a login element comprising a name, phrase, or e-mail address, and a secret password. Said credentials can be generated by the enabler or automatically generated by the web service. Once the enabler authenticates their identity with said membership, the apparatus facilitating the data communication can request relevant information to fulfill the process chain of the invention. For example, Facebook API Platform defines members as ID numbers, so if a member's real name is John Doe, then Facebook API ID (also programmatically known as the FBID) would be 39485678. Once the enabler successfully sign in to the GUI element then the apparatus will query the API for at least one electronic identification reference, in this discussion is the FBID. The FBID is received to the permanent or temporary memory of the apparatus to sustain the branding and cross-referencing requirements of the invention. Additional information can be requested according to membership status or connected "friends" of said enabler. Additional information can be made required for successful authentication and includes: a minimum amount of total friends, a minimum amount of female friends, a minimum amount of male friends, a minimum amount of available pictures, a minimum age limit and other custom rules can be defined by the apparatus. An example of how this would

work is a content provider can define a minimum of 32 Facebook friends are required to access an encrypted digital media asset offered for sale or promotion. This is achieved by the apparatus handling a access request in which the enabler has not yet acquired access rights by executing and parsing information returned by the Facebook "Friends.get" API command.

XML return example of the Facebook "Friends.get" API command where a plurality of FBID are returned to the apparatus for parsing additional information as may be required to satisfy said successful authentication:

## EXHIBIT B

```
<?xml version="1.0" encoding="UTF-8"?>
<friends__get__response xmlns="http://api.facebook.com/1.0/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://api.facebook.com/1.0/
http://api.facebook.com/1.0/facebook.xsd" list="true">
  <uid>222333</uid>
  <uid>1240079</uid>
</friends__get__response>
```

When authenticating a compatible device or machine which may not have access to a connection for said authentication element, a key file or part of said metadata thereof could be made on another connected compatible device or machine and allow said enabler to execute said Friends.get API command to collect and store the complete list of a plurality of FBID to said key file or said metadata thereof. Said compatible device or machine which



may not have access to a connection for said authentication element with an embedded interaction console, usually a user GUI, can request and load said key file or part of said metadata thereof to save said complete list of a plurality of electronic identification references, in this discussion is reference as said FBID, to storage or metadata as part of said compatible device or machine. This step ensures the cross-referencing element requirement of the invention can take place in the event the said connection for the said authentication element is not present in the said compatible device or machine.

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Another example is a content provider can allow shared access to friends of the excelsior enabler after a time period, like for example, 90 days. After the said 90 day period, when media access is requested using said authentication element by a plurality of secondary enablers, which are usually friends and family of the excelsior enabler, the FBID of the excelsior enabler is cross-referenced with the FBID of the requesting secondary enabler by way of said apparatus ability to execute the Facebook "Friends.areFriends" API command.

XML return example of the Facebook "Friends.areFriends" API command where FBID 2223322 and 2222333 are friends and FBID 1240077 and 1240079 are not friends:

```
<?xml version="1.0" encoding="UTF-8"?>
<friends_areFriends_response
xmlns=http://api.facebook.com/1.0/
```

```
xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance
xsi:schemaLocation="http://api.facebook.com/1.0/
http://api.facebook.com/1.0/facebook.xsd" list="true">
<friend_info>
<uid1>222332</uid1> <uid2>222333</uid2>
<are_friends>1</are_friends>
</friend_info>
<friend_info>
<uid1>1240077</uid1> <uid2>1240079</uid2>
<are_friends>0</are_friends>
</friend_info>
</friends_areFriends_response>
```

## EXHIBIT B

Such usability can be important to sustain "fair use" rights of consumers of said digital media to emulate usability found with physical media products such as CD and DVD that can be loaned to friends and family after an inception grace period.

Once the information of the verification and authentication elements is acquired, the apparatus handles the next process of writing said information to said digital media metadata and can include additional information gathered from components of The App. Components of The App can include MAC address from a networking card, CRC checksum of an embedded file or circuit, SOC identifier, embedded serial number, OS version, web browser version, and many other identifiable components as part of The App. For this discussion, the MAC address from a

## EXHIBIT B

networking card as part of The App will be used as reference of a secondary electronic identification reference. In computer networking, a Media Access Control address (MAC address) is a unique identifier assigned to most network adapters or network interface cards (NICs) by the manufacturer for identification, and used in the Media Access Control protocol sub-layer. If assigned by the manufacturer, a MAC address usually encodes the manufacturer's registered identification number. It may also be known as an Ethernet Hardware Address (EHA), hardware address, adapter address, or physical address. The novelty of embedding the MAC address along with the FBID of said excelsior enabler is to provide a plurality of electronic identification references in which cross-referencing actions can allow more rapid access to be granted with less interaction from an enabler. For example, to retrieve the FBID from Facebook to cross-reference with the FBID stored in said digital media metadata requires the enabler to possibly physically need to enter their login and password credentials to the GUI connected to the apparatus. It may be possible that web browser cookies allow automatic Facebook login by storing an active session key, but the session key is not guaranteed to be active at the time of an access request. While said enabler may not have an issue executing another authentication command, several remote operations could exist to control authentication and access requests separately from each other. The apparatus can execute a programmable retrieval command, usually a GET command, to locate and retrieve the MAC address from an attached or

## EXHIBIT B

connected networking card. After the FBID is acquired, the MAC address is also acquired to write said a plurality of electronic identifications to the metadata of said at least one encrypted digital media asset by; obtaining the decryption key to decrypt said encrypted digital media asset which is usually stored encoded, no encoded, encrypted, or no encrypted as part of the apparatus or as part of a connected source, usually an Internet server with an encrypted HTTPS protocol. A plurality of MAC addresses can be stored along with the FBID of the excelsior enabler to manage access rights across a plurality of devices. To understand metadata and the uses, metadata is defined simply as to "describe other data". It provides information about certain item's content. For example, an image may include metadata that describes how large the picture is, the color depth, the image resolution, when the image was created, and other data. A text document's metadata may contain information about how long the document is, who the author is, when the document was written, and a short summary of the document. Web pages often include metadata in the form of Meta tags. Description and keywords Meta tags are commonly used to describe the Web page's content. Most search engines use this data when adding pages to their search index. In the invention, the FBID and MAC addresses are written to the said digital media asset metadata to prepare for the instant or delayed cross-referencing element of the invention. The same process of writing said information to the said digital media metadata is true with secondary enablers allowing the same benefits of cross-referencing.

## EXHIBIT B

Cross-referencing, the last element of the invention is used to verify access rights of an enabler of a pre or post personalized encrypted digital media asset. Once an enabler executes an action for access request, the apparatus will obtain said decryption key to first seek the MAC address record. If the MAC address is found, then a cross-reference process is executed by comparing the MAC address retrieved from the metadata of the said digital media file with the MAC address retrieved from the networking card connected to the apparatus or The App. If the comparison action proves to be true, then access rights are granted to the enabler. If the comparison fails, then the apparatus can either ask the enabler to participate in communication with the said authentication element of the invention, or could deny further interactivity with said enabler. In this discussion, the apparatus requires the enabler to participate in communication with the said authentication element to provide credentials to establish a cross-reference comparison with the FBID retrieved from said metadata and the FBID retrieved from the Facebook API. If the comparison action proves to be true, then access rights is granted to the excelsior enabler and the current MAC address of the networking card as part of The App is appended to the metadata of said encrypted digital media asset and access rights is granted to the excelsior enabler. If the said FBID cross-reference fails, then the apparatus can either ask the potential secondary enabler to participate in communication with the said authentication element of the invention, or could deny

## EXHIBIT B

further interactivity with said potential secondary enabler. In this discussion, the apparatus requires the potential secondary enabler to participate in communication with the said authentication element to provide credentials to establish a cross-reference comparison with the FBID retrieved from said metadata and the FBID retrieved from the Facebook "Friends.areFriends" API command to determine if the said potential secondary enabler identity is true or false. Said determination is in accordance to any possible access grace periods set by the content provider of the said encrypted digital media asset. If the comparison action proves to be true, then access rights is granted to the secondary enabler and the current MAC address of the networking card as part of The App and the FBID retrieved are appended to the established metadata information of the said encrypted digital media asset and access rights can be granted to a plurality of secondary enablers; unlimited interoperability between devices and "fair use" sharing partners for an infinite time frame while protecting commercial digital media from unlicensed distribution to sustain long-term return of investments is achieved.

Figure 1

# EXHIBIT B

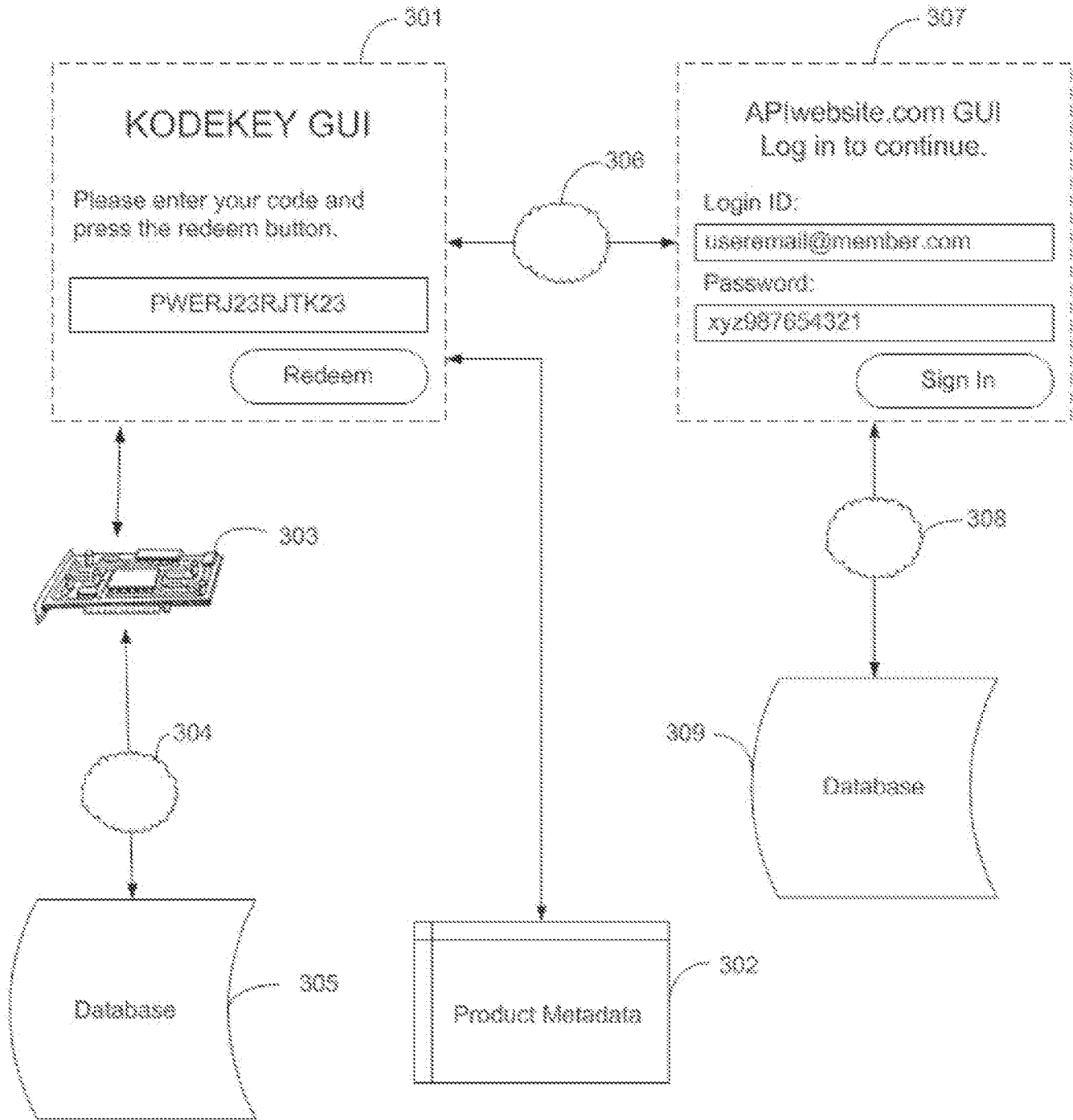


Figure 2

# EXHIBIT B

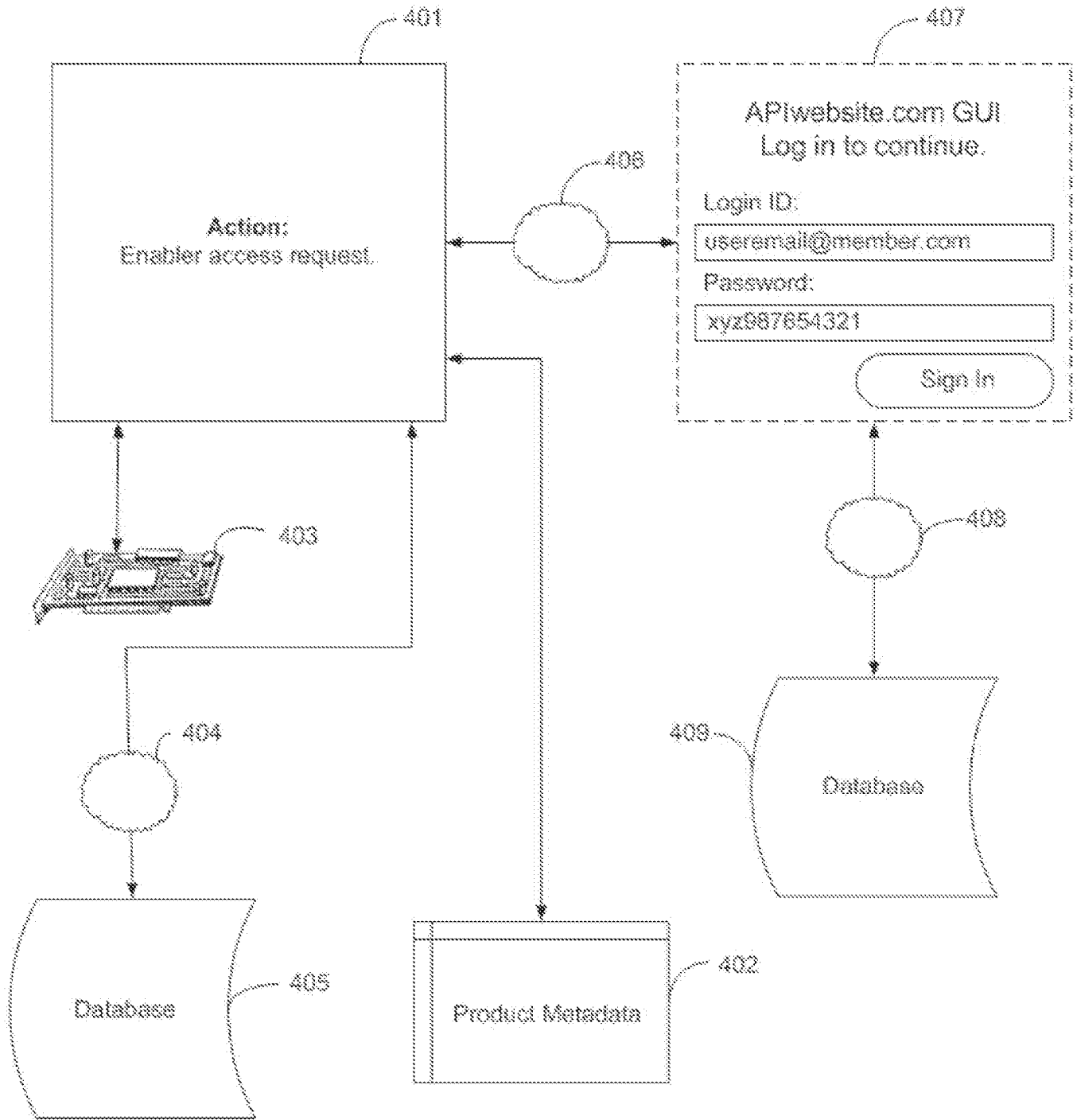
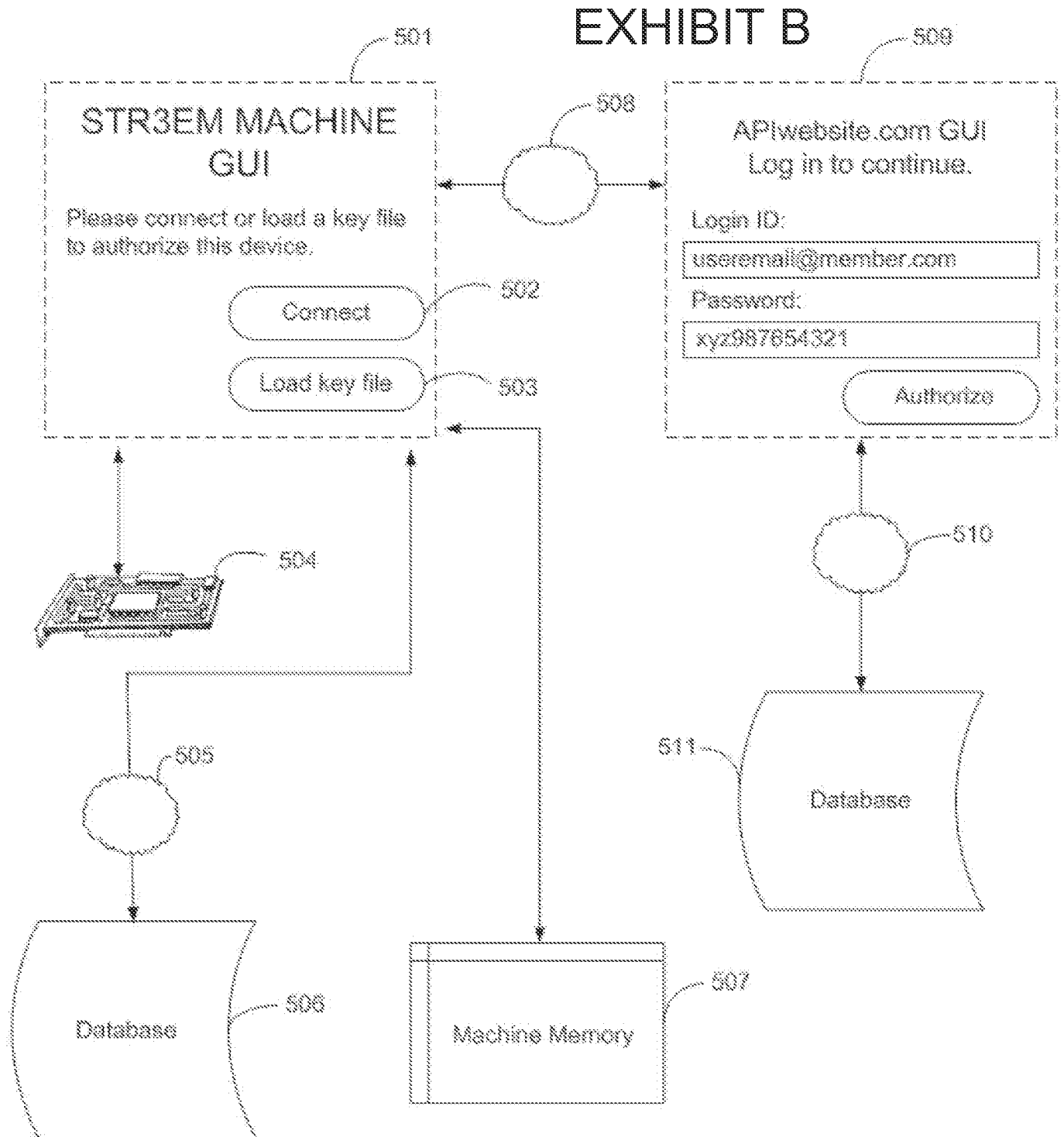




Figure 3



## Electronic Patent Application Fee Transmittal

Application Number:

Filing Date:

Title of invention:

# EXHIBIT B

PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM

First Named Inventor/Applicant Name:

William Grecia

Filer:

William Grecia

Attorney Docket Number:

Filed as Small Entity

### Provisional Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Basic Filing:</b>				
Provisional Application filing fee	2005	1	110	110

Pages:

Claims:

Miscellaneous-Filing:

Petition:

Patent-Appeals-and-Interferences:

Post-Allowance-and-Post-Issuance:

EWS-002527

				USD(\$)
Miscellaneous:				
			<b>Total in USD (\$)</b>	<b>110</b>

## EXHIBIT B

**Electronic Filing Receipt**

<b>EFS ID:</b>	6988925
<b>Application Number:</b>	61303292
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4747
<b>Title of Invention:</b>	PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM  <b>EXHIBIT B</b>
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	
<b>Receipt Date:</b>	10-FEB-2010
<b>Filing Date:</b>	
<b>Time Stamp:</b>	22:29:40
<b>Application Type:</b>	Provisional

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Document	Size	Pages	File Size(Bytes)	Multi	Pages
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1		KKPROVISIONAL.pdf	28962	yes	27
Multipart Description/PDF files in .zip description					
		Document Description	Start	End	
		Specification	1	24	
		Drawings-only black and white line drawings	25	27	
Warnings:			<b>EXHIBIT B</b>		
Information:					
2	Fee Worksheet (PTO-875)	fee-info.pdf	28962	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			300546		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

# EXHIBITS C

## PROOF OF DILIGENCE

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C Exhibits are computer screen copies of engineering and attorney diligence evidence submitted in chronological order covering each business and non-business day between the critical dates of February 10, 2010 and March 21, 2010, the latter being the date reduced to constructive practice with the filing of parent case - U.S non-provisional patent application 12/728,218 – continuing diligence after the critical dates with a request for early publication on April 6, 2010 and the actual public publication at the USPTO on July 22, 2010.

# EXHIBIT C TABLE OF DILIGENT EVENTS

Daily diligence evidence outline of critical time period from 2/10/2010 to 3/21/2010

**Wednesday - 2/10/2010** – [engineering diligence: exhibit 1c] [Conception: exhibit b] – Applicant submits U.S. provisional patent application 61/032,292 and discusses an update (version 2.0) to the ongoing STR3EM software codebase in testing focusing in exhibit 1c on an adjustment to the application internal HTTP webserver.

**Thursday - 2/11/2010** - [engineering diligence: exhibit 2c] – Applicant receives update application build for testing a HTTP 1.1 compliant (Jetty) webserver upgrade and communicates with his programmer.

**Friday – 2/12/2010** - [engineering diligence: exhibit 3c] – Applicant discusses testing results with his programmer and establishes work will continue over the weekend.

**Saturday – 2/13/2010** - [engineering diligence: reliant on exhibit 3c] - Applicant test current build with Jetty and takes notes and programmer works further on Jetty integration.

**Sunday – 2/14/2010** - [engineering diligence: reliant on exhibit 3c] - Applicant continues to test current build with Jetty and takes notes and programmer works further on Jetty integration.

**Monday – 2/15/2010** - [engineering diligence: exhibit 4c] – Applicant receives update on weekend work done by the programmer, tests are done on the Windows 7 platform further testing implications caused by the change in the internal server system.

**Tuesday – 2/16/2010** - [engineering diligence: exhibit 5c] – Further testing and contact between Applicant and his programmer discussing issues with Jetty webserver integration.

**Wednesday – 2/17/2010** - [engineering diligence: exhibit 6c] – Applicant continues to test build and make notes and sends a message to his programmer with the idea of adding 2 different HTTP server types.

**Thursday – 2/18/2010** – [attorney diligence: initiated – see exhibit 7c] [standard diligence: initiated – see exhibit 8c] – Applicant established 2 jobs on elance.com to convert his provisional application to a non-provisional and convert an internal marketing document into a press release.

**Friday – 2/19/2010 to Saturday 3/20/2010** - [attorney diligence: begins and continues every day until critical end date 3/20/2010 – see EXHIBITS SUBSECTION 7C for evidence] [standard diligence: begins – see EXHIBITS SUBSECTION 8C] [engineering diligence: continues on from 2/19/2010 through critical end date 3/21/2010 – see EXHIBIT 9C to 29C for evidence] Applicant awards both Elance jobs to providers and publishes documents for both providers to retrieve. See: MPEP 2138.06 “Reasonable Diligence” paragraph 5 - DILIGENCE REQUIRED IN PREPARING AND FILING PATENT APPLICATION – in part quote: “The diligence of attorney in preparing and filing patent application inures to the benefit of the inventor.”

**Sunday – 3/21/2010** – [Constructive Reduction to Practice] – Applicant files parent case 12/728,218

**Note To Examiner:** Please observe Applicant’s instructions to USPTO artisan within EXHIBITS SUBSECTION 7C – page 4 of 5 of Elance message board screen copy markup label “ATTENTION EXAMINER” made February 19, 2010 1:52PM – quote: “Here is the provisional number and claims the

priority date : USPTO provisional 61303292 Priority date: 2/10/10 – Applicant submits this evidence to remove any possible incorrect assumptions that he attempted to purposely hide 61/303,292 as the request was made to the USPTO artisan hired to draft a compliant non-provisional application from information provided to him by the applicant and received and filed to the USPTO by the Applicant. In a sense of urgency to file 12/728,218 applicant did not notice the priority date missing from the specification as adding such a priority date is considered standard practice among professional USPTO practitioners.






after:2010/1/27 before:2010/3/25

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me: Just want to get a feel for the server ... I dont expect you to get to the other request before establishing server thx

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# EXHIBIT 1C

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Chat with Ivan Dyachkoff

More x



Ivan Dyachkoff <ivan.dyachkoff@gmail.com>

2/11/10

These messages were sent while you were offline.

9:01 AM Ivan: Hi Will, please try this: <http://hickory.com/forums/123456789>

9:02 AM I can't activate seeking on my windows 7 even with older build, probably WMP has cached some info about sir3em server. Try this build and check if seeking works.



Ivan Dyachkoff <ivan.dyachkoff@gmail.com>

2/11/10

9:40 AM me: Hey Ivan, is the current release version of sir3em snapshot in source?

9:41 AM I think I have a better solution for this server issue, it is still giving issues... I found something but did not want to bother you with it. I will send an email in a few moments with some info.

9:47 AM Ivan: ok



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Chat with Ivan Dyachkoff

Ivan Dyachkoff <ivan.dyachkoff@gmail.com>



3:20 PM me: Could you give likely time when we able to know if Jetty helps us? Just curious after local tests here.

4:07 PM ivan: It seems like Jetty should work with Tracertip. I worked with Jetty integration today and will continue working tomorrow.

4:12 PM me: Brian thanks



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EXHIBIT 3C

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477 209 152  
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Chat with Ivan Dyachkoff

Ivan Dyachkoff <ivan.dyachkoff@gmail.com>

9:50 AM ivan: I have replaced my simple http server by Jetty as you requested.

9:51 AM me: for some reason it is not reacting as running jetty "start.jar" and testing files from root folder byte ranges not responding

9:52 AM ivan: where did you find start.jar?

me: when you download jetty from their site

9:53 AM ivan: how you start it

9:54 AM me: you can download jetty 7 and place media in webapps>root and test the server by starting start.jar it defaults at localhost:8080

me: though our solution uses other than 8080 from what I remember

ivan: yes our solution uses 9898

me: yes good

ivan: you can try your WMV files in that root folder then run start.jar to see how jetty itself works great.

me: I did this in Win 7 not XP

ivan: I do not know why byte ranges not responding. My handler creates de.schlichtherbe.io.InputFileStream and other stuff is out of my control

me: I tried, it works ok

me: interesting

me: seeking?

ivan: when client (WMP in our case) asks for resource server looking for appropriate handler, and asks that handler for InputStream to access the data.

me: I played older .s3 from release version I did not create a new file, could this be it, I didn't think so

ivan: though WMP asks for the localhost address?

me: there is standard FileResource and ResourceHandler which operates with FileInputSteam

ivan: I added TruezipResource and TruezipHandler which operates with de.schlichtherbe.io.FileInputSteam

me: so we are not just sending http://localhost:9898/028266.Y3892312

ivan: other work was to correctly initialize resources

me: your HTTP server version is fast quick and snappy

ivan: yes WMP make request similar to your example

me: this one works, but slower than even testing jetty directly

ivan: jetty directly does not need to decrypt data

me: that could be it

ivan: is it possible to "mount" our container as a HD

me: the container is mounted to the server like a hard drive or folder resource

me: if there is a way to not on-the-fly decrypt, but to "mount" the s3 like a disc image

ivan: if Jetty is a server, then there must be a way to mount our file system as one of the root folder

me: not on-the-fly decrypt! means we have to place decrypted data somewhere

EXHIBIT 5C

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### Chat with Ivan Dyachkoff

Ivan Dyachkoff <ivan.dyachkoff@gmail.com>

12:45 PM me: Hey Ivan, we need to assure that the current release version of STRAEM files work with new build so I guess this means making the next version STRAEM file higher version so current release version open it.  
12:46 PM maybe this is just adding 2 versions of http server, current for released files and new server for next version.

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# EXHIBIT 6C

# Provisional conversion to USPTO patent draft

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Repost Job Edit Job & Settings Share

Time Left: Closed Budget: Less than \$500  
 Posted: Thu, Feb 18, 2010 Fixed Price Job  
 Location: Anywhere Start: Immediately  
 W9 Not Required My Team (1)  
 Invite Only (2 invited)

I have a filed provisional patent application that needs a conversion to a USPTO non-provisional ready application draft. Application needs any necessary additional disclosure according to 3 provided figures and an actual product reduced to practice. Maximum claims drafts will be required.

Job ID: 19189532

**Desired Skills**  
 Intellectual Property

[Less Detail](#)

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India | Rate: \$15/hr | Legal <sup>1</sup> | 1 job | \$450 Earnings | 4.7 | Portfolio

**\$500.00** Delivery within 2 weeks Expand Proposal

**EXHIBIT 7C**  
 (also see Subsection 7C  
 below for more evidence).

Back

Elance (ET) 8:53 am

# Convert info in internal document to press release

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Writing & Translation > Press Releases

Repost Job Edit Job & Settings Share

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 Location: Anywhere  
 Start: Immediately  
 My Team: (1)

Budget: Less than \$500  
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Hi,

I need info in an internal marketing document converted to a mainstream press release. The full points of the product is in this document, but we need some structured magic for a real press release. Please see file attached.

Job ID: 19189800

STR3EM\_Marketing.pdf

**Desired Skills**  
 Press Release, Copywriting

[Less Detail](#)

[Add to Job Description](#)

Proposals (1)

- 1 North America

All Proposals (1) Hidden Declined Invited (1)

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## Words by Melissa & Associates

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**EXHIBIT 8C**  
 (also see Subsection 8C  
 below for more evidence).





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Chat with Ivan Dyachkoff



Ivan Dyachkoff <ivan.dyachkoff@gmail.com>

10:10 AM

7:24 AM me: Hey Ivan, would like to get a scoop on sticem progress for this week



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EXHIBIT 10C-a

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Chat with Ivan Dyachkoff

Ivan Dyachkoff <ivan.dyachkoff@gmail.com>

2:56 PM Ivan: Hi Will, no-encryption version of sticem will be ready tomorrow.  
 3:02 PM me: cool thanks

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new build

1 box x

Ivan Dyachkov <id@dyachovs@gmail.com>

to: me

Hi Will,

STR3EM with no encryption is ready: <http://kx2k6kxk1.s22n05.11355m.safelink.zig>



William G. Blanchard of LAMBDA Cast Ltd. <isaac@lambdacast.com>

to: Alex, Ivan

There are some performance issues with this build but it does work somewhat initially.

The seeking is sluggish (I have no idea how this could be now no encryption is on container) but after waiting some time seeking will work.

Then on multi asset containers, after 1 full playback, on second full playback attempt, the first video plays for 1/2 second then skips to the next. No matter what I do with closing the app the file still has corrupt playback this way. My question is how is the app "remembering" to glitch playback of a half second on the first video?

Then when pressing "stop", does not reset the playback list as the release version, it stops then when you press play again continues from the place where stopped.

This release is not stable yet for release but I will say my faith is dying as things seem to break all over the place when trying to upgrade the stable version we have.

The stable release version we have (without http byte ranges) that is in one of the branches in source?

Thanks

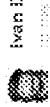
-Will

EXHIBIT 11C

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Chat with Ivan Dyachkoff

Ivan Dyachkoff <ivan.dyachkoff@gmail.com>



2:30 AM me: Hey Ivan, can you define the amount of time spent on "server" and "binary" task, in relation to the Pre-paid \$1000 sent with last bill balance? Most of my issue right now is not extending past affords allocating tasks to the most important area where we need.

2:31 AM The sources of STR3EM will be used as part of a licensing strategy of a patent property I have, this is why there are so many code parts and versions to give licensee options to use as examples, so you understanding of why so many requests for different things

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Chat with ivan.dyachkoff@gmail.com

ivan.dyachkoff@gmail.com <ivan.dyachkoff@gmail.com>

me

9:02 AM me: Could you get me a version of the current Crypto branch with the updated KK engine of the truezip version?  
 9:05 AM meaning once the truezip last additions are done, making a Crypto branch version with the surrounding app as found in truezip. The crypto version would be named "STREAM Pro".  
 9:11 AM Would be nice if Crypto files could be placed in generic zip container just to bundle files together also.

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# EXHIBIT 13C-a

Chat with [ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)

[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com) <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

4:04 PM ivan: should we keep compatibility with previous s13 container version?  
me: In which version you mena?  
ivan: the last one which was released with http 1.0  
me: I mean which build moving forward you are referencing for compat?  
ivan: the current version I'm working on now, the same http 1.0 server but with new features  
me: oh yes, this must work with released s13, but the browser only stuff should prob have its own extension, like s13b or something matter of fact  
no need for that  
just make it compatible with older s13 and version up the new one  
user can just download updated app to open up version file  
ivan: ok  
me: if the new version s13 is tied played on older app then app will tell user that app version is not correct. We will just announce on the website of version 1.2  
ivan: ok  
me: I am thinking with crypto part, we should integrate it into standard distribution as we talked before by just embedding the folder in. Once this update is done and paid for, would like to just clamp c  
ivan: ok

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# EXHIBIT 13C-b

Chat with [ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)

 [ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com) <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

3:32 PM ivan: ok

3:33 PM me: was you able to get mac webkit working from before? it was Safari right?

3:34 PM ivan: I did not test mac webkit

3:36 PM me: ok, last quick question.. any possibility to make a cocoa web panel (which uses safari) that we could pass URL to it from stream app? Meaning open this simple cocoa browser with a command wi

3:37 PM i am asking this because I would like to get a browser on my mac version

3:38 PM ivan: I will check if it possible tomorrow

3:38 PM me: I will research this also, but for now, we want to complete current task, and that child button thing.. then we square time at that point

3:38 PM ivan: ok

3:38 PM me: I will likely find some info on the Mac browser thing

3:38 PM thank

3:50 PM me: There is another thing needed for rounding out things: we need a "Verification" action after creating KVs.. so when KK are uploaded to devpay and list is created, just show "Verifying KV #' then st

3:52 PM courter: while the app checks KK in list with KK at devpay. This is important for some people.

3:52 PM thank

3:52 PM thanks (I'm speeding today).

3:52 PM ivan: ok

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# EXHIBIT 14C



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Chat with [ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)

**ivan.dyachkoff@gmail.com** <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

8:49 AM me: Let's give Browser only it's own extension, .sby sorry. .3ew Because this file will be the only version compatible with possible Mac player only.

8:55 AM Ivan. ok

9:46 AM me: im sorry, i need one more LPR. i need flag "FILEID", which would push through the str3em file id (i think dxkey is what the internal name for it) this is for a reason i will explain later

9:47 AM well i will tell you now... We need a PHP script that can check dxkey for KK this will be done like last

9:48 AM Ivan: dxkey is user's identifier me: much later ok then it's not dxkey, its the field we need Ivan: do you mean uid which is unique for each str3em? me: like the identifier used with the "Make Child" request that id's a str3em with dxkey kk folders yes for uid push uid with flag FILEID in ut Ivan. ok

10:03 AM me: we need a simple button at the bottom right of KK manager panel called "Find File ID" which will allow user to pick str3em file and then simply display the uid in a pop up field that is copyable, son coming to me the little things.

10:29 AM me: as with creating KK with "Find File ID" only the account that created the str3em file can see the uid.

10:31 AM Ivan: don't understand. Where it can see the uid? Application does not show uid anywhere

10:38 AM me: wrote this a few posts up "we need a simple button at the bottom right of KK manager panel called "Find File ID" which will allow user to pick str3em file and then simply display the uid in a pop up copyable. sorry.. It's all coming to me the little things."

10:41 AM Ivan: ok

10:55 AM Ivan. I sent a question on email

11:02 AM me. ok

11:07 AM answered

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EXHIBIT 15C

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Chat with ivan.dyachkoff@gmail.com

ivan.dyachkoff@gmail.com <ivan.dyachkoff@gmail.com>

2:29 PM me: I figured out the mac solution in terms of what we will do

2:30 PM easy

2:31 PM since we only using browser only.. we will just send a "open <http://XXXXXX.com/XXXXX> and just let the content provider handle auth on server side

2:32 PM I am tired of Mac obtuse policies. Thanks it. Thanks that command will just open the user's default Mac browser

2:44 PM me: still researching this. so ignore my babble

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**ivan.dyachkoff@gmail.com** <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

1:01 PM me: Quick question ven. Could you create a Kix engine with F8 credentials and exact devpay function in PHP? one day other languages too?

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**ivan.dyachkoff@gmail.com** <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

2:55 PM ivan: Hi Will! Do you need a Java library or it can be any other server solution?  
 me: I am consulting you on it  
 you tell me  
 2:59 PM ivan: ok. Our team is moving now to Ruby on Rails specialization and I am learning RoR little by little within last 4 months. I can make this solution based on rails.  
 me: yeah, I just need something that can happen on a server solution for a web service to auth, using our KK and FB solution as we do with STR3EM container  
 then when they use a STR3EM container, matched with the same UID, same access is granted.  
 3:02 PM ivan: Ok, we can discuss this in more details when current tasks are finished. I will send a build today for http version.  
 me: ok then I will need that crypto adjust after this then we speak on ruby  
 thanks  
 3:03 PM ivan: ok

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# EXHIBIT 18C

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Chat with ivan.dyachkoff@gmail.com

ivan.dyachkoff@gmail.com <ivan.dyachkoff@gmail.com>  
2:53 PM me: how long you think it would take to test adding unzip filter to our crypto to hold all files in 1 generic zip with .sep extension (these are 2 crypto files, meta and wrapped single wmv in 1 container.  
3:13 PM yeah, wrap me up these hours on this... I will not need a kassmaster until we get crypto in and label as SFF3EM 2.0  
3:36 PM I also sent crypto into in email

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# EXHIBIT 19C

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[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com) <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

12:23 PM ivan: having problems getting motherboard serial. But I was able to get serial number for all logical drives in the system.

12:30 PM me: ok lets use that

ivan: ok

me: we just need 1 if evernot found, then we just ask for FBHD and log new drive

ivan: yes

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Chat with ivan.dyachikov@gmail.com

3/17/10

ivan.dyachikov@gmail.com <ivan.dyachikov@gmail.com>

2:52 AM me: I am catching same issue on other machine... on first machine I can see when the action window pop up on the 2nd machine, this window does not show....

2:53 AM ivan: application now writes more information in log. Please send strsem.log

2:55 AM me: on original redeem computer, the write metadata action happens, but on other machines, that action, oh ok nothing in log that's new

me: do you use new build?

me: new jar yes

i will double check

ok im getting access denied on jar copy hold on

3:03 AM yeah double checked and same

ivan: please send the log anyway

me: I have an idea on what we would do....

3:04 AM i am thinking about just placing the strsem FB login component as a windows task bar process.. simple "sign in" and "sign out" that would cure everything

3:05 AM when strsem installs, it places a de icon in the task bar and app calls that task bar app for sign in.. when user signs in, the task bar app stays signed in with the users FBID and remembers this even w windows start.. user can manually sign out and sign in with another credential.. easy?

this would remove the need for any machine ID which could give problems with the crazy custom computers out here.

3:10 AM ivan: I did not work with windows 7 taskbar yet. This variant can take 12-16 hours. Isn't it too much for small feature? Please send me log file. I'm sure this is only minor issue.

3:16 AM me: catching javaw.exe hang issues sent

3:17 AM ivan: what xx did you use?

3:19 AM me: PV293MAULCJHSSMNE

3:21 AM

3:34 AM ivan: please make the test again with new build: <http://kashovsk.com/S133EM.jar>

3:35 AM i've added extended logging

3:38 AM me: lok

3:48 AM me: I will need to pay for that fb taskbar solution.. this is not working as we need it.. we could just get the other thing done with this time

3:49 AM its running a process near th etime in lower right of windows tool bar

i will send ref a bit later

ivan: ok... but please send the log file

me: ok

ok sent.

ivan: you just used another facebook account

me: nope

ivan: that is why 'Access denied'

me: no..

EXHIBIT 21C

after:2010/1/27 before:2010/3/25

More

Thanks


-Will

**Stephanie Pettinati** <stephanie@outcastpr.com>

Hi Will - Thanks for clarifying this. This is in fact powered by Facebook Connect so I've made some revisions to the approved press release attached here to reflect that language.

Please accept the changes and let me know if you have any questions.

Thanks,  
Stephanie

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**The STRSEM Team** <business@strsem.com>

Thanks, we will ensure all related creatives reflect Facebook Connect

-Will

On Fri, Mar 12, 2010 at 8:30 PM, Stephanie Pettinati

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EXHIBIT 22C



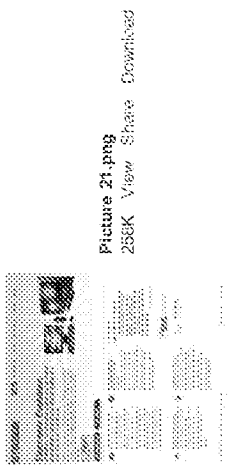
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Preview of STRSEM 2.0 front page

William G. Blanchard Owner of The STRSEM Team <will@strsem.com>  
 to: [redacted]  
 Hi White,  
 Find attached a screenshot of the final STRSEM 2.0 site redesign.  
 This will go live around April 3rd (tentative date).



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[ivan.dyachikov@gmail.com](mailto:ivan.dyachikov@gmail.com) <[ivan.dyachikov@gmail.com](mailto:ivan.dyachikov@gmail.com)>

11:08 AM **ivan:** Hi Will. Quick report about progress

11:11 AM **av:** files worked with our directshow solution with no changes in code. Next i tried to play mov, mp4 (container for .h264) and mpeg files. After a lot of testing I've found that they will not work.

11:14 AM **Next:** i returned back to MediaFoundation with a hope that I've missed something. But conclusion was the same: this can work only with wmv and mpeg1 files. Other media types requires custom forms so, we have only av and wmv files support in our directshow solution. Is this OK?

11:37 AM **me:** thats fine, av and WMV is A-OK!

11:38 AM **thanks**

11:38 AM **WMV** is the savior of the solution... VC-1 is simply the best codec in my opinion. Just wanted to try MPEG 4, but no big loss... Any idea what codec the AVI file are in that are working, MS-MPEG4?

11:38 AM **ivan:** yes

11:38 AM **me:** I also found a solution to our FB auth requirement, this will be called the "SIF3EM User Manager". I have refs already, I will send them after cryop

11:42 AM **ivan:** ok

11:43 AM **me:** yes, ok that is all ok, mpeg4 av and WMV is just fine. is it possible to double or even triple the dual buffer config?

11:43 AM **ivan:** what do you mean? increase buffer size?

11:43 AM **me:** the buffer that takes decrypted bytes into the player

11:43 AM **yes** buffer size of decrypt

11:44 AM **ivan:** yes of course

11:44 AM **me:** lets try 3K more

11:44 AM **ivan:** ok

11:54 AM **me:** hold on, media foundation works with WMV? with our decryption?

12:01 PM **me:** Not to switch up, but good to know for any possible future adjustments when MS decides to stop DS support.

12:38 PM **ivan:** yes it can work

12:39 PM **me:** are there any advantages? it seems the same at this point...

12:39 PM **ivan:** I do not see any advantages

12:39 PM **me:** ok

we will just keep that in the code base just as a future failsafe following MS decisions with DS.

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# EXHIBIT 24C

Google

after:2010/1/27 before:2010/3/25

Stop IRS Wage Garnishment Tax Attorneys, EAs, CPAs. - Tax-Tiger.com/WageGarnishments - Free Qualification, A+ BBB Rating

More

Move to inbox

Chat with ivan.dyachkoff@gmail.com

ivan.dyachkoff@gmail.com <ivan.dyachkoff@gmail.com>

12:36 PM me: how's your eta on testable build? thanks.

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Least account &

EXHIBIT 25C-a

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after:2010/1/27 before:2010/3/25

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Stop IRS Wage Garnishment Tax Attorneys, EAs, CPAs. - Tax-Tiger.com/WageGarnishments - Free Qualification, A+ BBB Rating

Chat with ivan.dyachkoff@gmail.com

ivan.dyachkoff@gmail.com <ivan.dyachkoff@gmail.com>

4:48 PM ivan: it will be ready tomorrow

4:49 PM me: ok thanks

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Last account s

EXHIBIT 25C-b

delay 402K 1

Ivan Dyachkoff <id1y@opzef@gmail.com>  
to: me  
Hi Will,  
I have some problems playing files from the "pro" version.  
New build will be ready tomorrow.

William G. Blanchard of LAMBcast Ltd. <w.g.blanchard@gmail.com>  
to: me  
ok  
2010/3/18 Ivan Dyachkoff <id1y@opzef@gmail.com>

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Last account e

EXHIBIT 26C

new build

to: me

Hi Will,

by this build: <http://codebox.com/SITE/LAMBcast10.212>

Please try only simple cases: add one wmv or av file and add /pro flag. I did not test other cases: yet.

WMP probably will not start playing automatically, in that case just press "Play" button. Also, I have noticed that some files works ok, and some does not play. I've made a lot of tests but still not sure what is the reason.

William G. Blanchard of LAMBcast Ltd. <sa.cs.2c@lambcast.com>

to: me

We need the autoplay for sure because that was the issue with last crypto version.

Certain WMV encodes will not work, so we suggest only encodes from Windows Media Encoder and Expressions Encoder 3 are used.

2010/3/19 Nen Dyachkov <n.dyachkov@lambcast.com>

William G. Blanchard of LAMBcast Ltd. <sa.cs.2c@lambcast.com>

to: me

on /pro - authoring stream message is missing.

William G. Blanchard of LAMBcast Ltd. <sa.cs.2c@lambcast.com>

to: me

Yes seems we will need testing... its playing but stopping short and when streamer focused attention about also

3/19/10

3/19/10

3/19/10

3/19/10

EXHIBIT 27C



**Electronic Filing Receipt**

<b>EFS ID:</b>	7251023
<b>Application Number:</b>	12728218
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4966
<b>Title of Invention:</b>	PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM  <b>EXHIBIT 29C</b>
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	
<b>Receipt Date:</b>	21-MAR-2010
<b>Filing Date:</b>	
<b>Time Stamp:</b>	01:07:13
<b>Application Type:</b>	Utility under 35 USC 111(a)

**Payment information:**

Submitted with Payment	no
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**File Listing:**

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	str3em_oath.pdf	805994 <small>(sha1:1124070751e9d69f9e0d0c2d6881b6cc)</small>	no	4

**Warnings:**



2	Filed (SB/08)	str3em_ids.pdf	no	2
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Warnings:

Information:

# EXHIBIT 29C

This is not an USPTO supplied IDS fillable form

3		str3em_patent.pdf	588202	yes	42
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### Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	25
Claims	26	34
Abstract	35	35
Drawings-only black and white line drawings	36	42

Warnings:

Information:

4	Fee Worksheet (PTO-875)	fee-info.pdf	41287	no	2
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Warnings:

Information:

**Total Files Size (in bytes):** 1724829

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

# EXHIBITS SUBSECTION 7C

## PROOF OF DILIGENCE

---

Exhibits of this subsection support further evidence of attorney diligence covering critical dates period February 19, 2010 to March 20, 2010, the day before filing of parent case - U.S non-provisional patent application 12/728,218 – Copies of the documents submitted to skilled USPTO artisan are submitted in this section and was relied in part with instruction manual information resulting from co-active engineering diligence found at [www.str3em.com/instructions](http://www.str3em.com/instructions) - note: screenshots of product manual information does not have time stamp information but submitted to show the totality of information relied upon to support attorney diligence of reduction to constructive practice on March 21, 2010.

## Provisional conversion to USPTO patent draft

Elance (ET) 10:38 am

### Workroom

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### Applications



View All

### Messages



Add Attachment

Post Message

Sender Message | Attachments Date/Time

Filter Messages

#### Message Filter

From 02/01/2010 To 03/22/2010

Clear Filters

**Hitesh C.** Hi William,  
  
Thanks for providing an encouraging feedback and releasing the payment.

Mar 20, 2010  
11:58 am

It was a pleasure working for you and please let us know in case you need any assistance in filing.

Regards,  
Rohit

**william g.** Thanks Rohit,  
  
I will accept this work as it is good for our filing.  
  
I will close this job and release the funds.

Mar 19, 2010  
1:42 pm

Thanks for this great work  
  
-Will

**Hitesh C.** Hi William,  
  
Thanks for your feedback.  
  
We have made the figures (our engineers have created them in AUTOCAD).  
  
Please review them and let us know if they are fine now.  
  
Regards,  
Rohit

Mar 19, 2010  
1:30 pm

Digital\_Rights\_Management\_-\_March\_19\_.pdf

**william g.** I am thinking the "encrypted digital media" is ok.  
  
Can we just get the update on figures and I feel we are ok.  
  
Thanks  
  
-Will

Mar 19, 2010  
7:04 am

**william g.** Hi Rohit,  
  
Figures 3, 4, and 5 needs adjustment for aspect ratio and text size readability requirement as per USPTO rules.  
  
I attached a zip with the original BMP of the 3 images so they

Mar 19, 2010  
6:47 am

### People Add

#### In Workroom

william ... Actions  
superecd

#### Not in Workroom

Hitesh C.  
patentsolutions  
last login 229 days ago

### Recent Files

PDMA\_S\_conversion.doc  
PDMA\_S.pdf  
12728218\_4.pdf  
Continuation\_Application\_...  
Continuation\_Application\_...

View All | Upload New File

### Workroom Email Address (?)

E19130081-WR@workroom.elance.com

### Notification Settings (?)

Thanks

-Will

patent\_figures.zip

william g.

Hi Rohit,

Mar 19, 2010  
6:33 am

Things look great, only 1 change. We want to keep a broad range on this, so the language:

"encrypted digital media"

should be just

"digital media" in wording in claims and abstract.

"digital media" is taught in the specification that it can be encrypted or non-encrypted, so we should leave that phrase a bit broad in claims and abstract... Only on claims where decryption is defined should we narrow there.

Thanks .

-Will

Hitesh C.

Hi William,

Mar 19, 2010  
5:18 am

Please find attached the first draft of the complete patent application.

Please review the same and provide your feedback. We will incorporate any suggestions/changes you want us to incorporate in the document.

Regards,  
Rohit

On Sat, Mar 13, 2010 at 1:08 AM, Elance Workroom <E19195091-WR@workroom.elance.com> wrote:

>

Digital\_Rights\_Management\_-\_March\_19\_.pdf

Regular\_Patent\_Application\_-\_Digita\_.doc

william g.

Thank you for the update. I will look at the documents and respond if there is any need.

Mar 12, 2010  
2:38 pm

As for claims, I think we should work within the 6/33 we have as I can afford to file this.

Thanks .

-Will

Hitesh C.

Hi William,

Mar 12, 2010  
10:37 am

We are working on the specification and will send you the complete patent application by next Friday (March 19, 2010). Meanwhile, please let us know in case you have any feedback on the claims which we sent you on March 10.

Regards,  
Rohit

Hitesh C.

Hi William,

Mar 10, 2010  
1:51 pm

Sorry for the late reply. Please find attach the second draft of claims. The claims have gone some major changes after our discussion and additional information provided by you. There are total 39 claims (6 independent and 33 dependent claims).

One thing we would like to know if you are looking at some specific number of claims for the patent. Normally, 3 independent claims and 17 dependent claims are allowed within the filing fee. And it costs around 110 USD for each extra independent and 26 USD for each extra dependent (for small

EWS-002569

Further, once we finalize the claims we will send you the complete patent specification within a week of it.

Please let us know in case you have any query/comment.

Regards,  
Rohit

Claims\_-\_DRM\_-\_March\_10\_2010.doc

william g.	Hi Rohit,  We should set a new deliverable date. Please advise  Thanks,  -Will	Mar 03, 2010 3:46 pm
william g.	Hi Rohit,  Sorry, I have a correction to the Unique_Identifier.doc in wording which was corrected in the "revB" document attached. Please use this one.  thanks  -Will  Unique_Identifier_revB.doc	Mar 04, 2010 12:04 pm
william g.	Hi Rohit,  Please have the team add this brief additional disclosure in specification and claims following up our Skype conference yesterday.  Very happy so far.  thanks.  -Will  Unique_Identifier_.doc	Mar 04, 2010 11:52 am
william g.	Hi Rohit,  Mytel: (212) 372-0293  Skype is: lambcast	Mar 02, 2010 6:08 pm
Hitesh C.	Hi William,  Thanks for the feedback.  Further, we would like to talk to you to discuss the invention (our team has some queries regarding it).  Please let us know a suitable time (preferably your morning time tomorrow) and contact number so that we can discuss the invention.  Regards, Rohit	Mar 02, 2010 2:56 pm
william g.	Hi Rohit, The claims so far look really good and is in line with what I am looking for. I look forward to seeing the system claims and final work. Please make as many claims as possible. This is top level work so far, thanks  I forgot to add the 3rd drawing explanation in my original disclosure, but here is a brief explanation of all three for your confirmation:  FIG. 1 shows a flow chart giving an overview of the process of digital media personalization by way of an enabler using an apparatus or otherwise known as an application in which facilitates digital media files. Here the apparatus interacts with all communicative parts required to fulfill the actions of the	Mar 01, 2010 1:30 pm

303 - is the networking card in which the MAC address is queried for optional metadata branding process and referenced. 305 - represent the database element used to read/write and store the tokens for processes of the invention. 304, 306, and 308 represent internet connections. 307 is the GUI to the membership API in which the electronic ID is collected and sent back to 301 apparatus. 309 - is the database connected to the web service membership in which the user's electronic ID is queried from

FIG. 2 shows a flow chart giving an overview of the process of an access request made by an enabler and subsequently checks communicative parts to cross-reference information stored in the metadata of the digital media asset which has been previously handled by the process of FIG. 1. The figure numbers are similar parts to Fig 1 explanation above.

FIG. 3 shows a flow chart giving an overview of the process of an authorization of a machine or device made to work with this kind of digital media file by connecting to the authentication API membership, or loading a previously constructed key file made from another machine collecting information from the API membership. The figure numbers are similar to parts of Fig 1 except: 501, 502, and 503 which represent the GUI of the machine or device which require authentication for media playback. 507 represents the internal memory of the machine or device so authorizations can be saved for media access.

Hitesh C.

Hi William,

Mar 01, 2010  
11:16 am

Thanks for the message.

We will incorporate the suggested feature.

Meanwhile, please find attached a first draft of claims drafted by our team. Please note these are only method claims. We will draft the corresponding system claims once this is finalized. Please provide your feedback on the first draft.

Further, can you please provide a brief explanation of the three figures included in the disclosure (in your language) if it can be beneficial to the team to confirm our understanding.

Please let us know in case you have any comments/query.

Regards,  
Prerna

Claims\_-\_First\_draft\_-\_March\_1\_2010.doc

william g.

Hi Rohit,

Feb 27, 2010  
12:58 pm

I just realized we need to disclose the ability to display a "membership" user's name on a playback screen as practiced in my str3em application here:  
[http://www.str3em.com/About\\_Contents#Screener\\_...](http://www.str3em.com/About_Contents#Screener_...)

Need this small detail disclosed and claimed also, please let me know any requirements or further scope for this if needed. Thanks..

Hitesh C.

Hi William,

Feb 19, 2010  
2:08 pm

Thanks for awarding us the project.

We will go through all the documents and let you know in case we have any query

Regards,  
Prerna

-----> william g.

Here is the provisional number and claims the priority date:

Feb 19, 2010  
1:52 pm

USPTO provisional 61303292

Priority date: 2/10/10

ATTENTION EXAMINER

EWS-002571

Homepage: <http://www.str3em.com/Home>

System in provisional in product  
[http://www.str3em.com/User\\_Instructions#Playing...](http://www.str3em.com/User_Instructions#Playing...)

I added an additional marketing document for any useful information which can be gathered.

KKPROVISIONAL.pdf

KKPrvisional.doc

STR3EM\_Marketing.pdf

All times are in EST (UTC-05:00)

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EWS-002572

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## Provisional conversion to USPTO patent draft

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5.5 MB of 500 MB for this workroom

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File Name	Uploaded	Size	Options
PDMAS_conversion.doc	Uploaded Jan 14, 2011 - 11:00 am by willam.g.	160 KB	Options ▾
PDMAS.pdf	Uploaded Jan 14, 2011 - 11:00 am by willam.g.	160 KB	Options ▾
12728216_4.pdf	Uploaded Jan 03, 2011 - 04:30 pm by willam.g.	507 KB	Options ▾
Continuation_Application_...	Uploaded Aug 19, 2010 - 04:13 am by Hitesh C.	126 KB	Options ▾
Continuation_Application_...	Uploaded Aug 19, 2010 - 04:12 am by Hitesh C.	141 KB	Options ▾
Ⓢ Digital_Rights_Managemet_...	Uploaded Mar 19, 2010 - 01:30 pm by Hitesh C.	395 KB	Options ▾
patent_figures.zip	Uploaded Mar 10, 2010 - 06:47 am by willam.g.	123 KB	Options ▾
Regular_Patent_Application_...	Uploaded Mar 19, 2010 - 05:18 am by Hitesh C.	138 KB	Options ▾
Claims_-_DRM_-_March_10_2010...	Uploaded Mar 10, 2010 - 01:51 pm by Hitesh C.	54 KB	Options ▾
Unique_Identifier_revB.doc	Uploaded Mar 04, 2010 - 12:04 pm by willam.g.	16 KB	Options ▾
Unique_Identifier_.doc	Uploaded Mar 04, 2010 - 11:02 am by willam.g.	15 KB	Options ▾
Claims_-_First_draft_-_March_1...	Uploaded Mar 01, 2010 - 11:14 am by Hitesh C.	37 KB	Options ▾
STRJEM_Marketing.pdf	Uploaded Feb 16, 2010 - 11:48 am by willam.g.	2.7 MB	Options ▾
KKPrvisional.doc	Uploaded Feb 19, 2010 - 11:45 am by willam.g.	276 KB	Options ▾
KKPROVISIONAL.pdf	Uploaded Feb 19, 2010 - 11:45 am by willam.g.	265 KB	Options ▾

(15 results)



# **PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM**

**INVENTOR: WILLIAM GRECIA**

## Abstract

The invention is an apparatus that facilitates access to encrypted digital media to accept verification and authentication from an excelsior enabler using at least one token and at least one electronic identification. The said at least one electronic identification could be a device serial number, a networking MAC address, or a membership ID reference from a web service. Access to the product is also managed with a plurality of secondary enablers using the said at least one electronic identification reference. In one embodiment, the invention is a process that in accordance with said apparatus is used to handle writable metadata of encrypted digital media to identify and manage requests from a plurality of said enablers. In a second embodiment, the invention may include a plurality of support tokens to satisfy authenticity requests which may include an alternative version of the said at least one verification token. In yet another embodiment, said apparatus can require additional status requirements from said plurality of said enablers relationship with said web service before allowing decrypted access. In a third embodiment, the said at least one verification token and said plurality of support tokens can host using a HTTP PUT calculation scheme to pay royalties to the apparatus

provider.

## BACKGROUND OF THE INVENTION

### 1. Field of the Invention

The invention presented in this document relates to the field of digital rights management schemes used by creators of electronic products to protect commercial intellectual property copyrights privy to illegal copying using computerized devices. The invention contained here teaches a more personal system of digital rights management in which the electronic ID as part of a web service membership can be used to manage access rights across a plurality of devices. The invention is particularly useful for giving users the freedom to use products outside of the device in which the product was acquired and extend unlimited interoperability with other compatible devices.

### 2. Description of Related Art

Digital rights management (DRM) is a generic term for access control technologies that can be used by hardware manufacturers, publishers, copyright holders and individuals to impose limitations on the usage of digital content and devices. The term is used to describe any technology that inhibits uses (legitimate or otherwise) of digital content that were not desired or foreseen by the content provider. The term generally doesn't

refer to other forms of copy protection that can be circumvented without modifying the file or device, such as serial numbers or key files. It can also refer to restrictions associated with specific instances of digital works or devices.

Consumer entertainment industries are in the transition of delivering products on physical media such as CD and DVD to Internet delivered systems. The Compact Disc, introduced to the public in 1982, was initially designed as a proprietary system offering strict media to player compatibility. As the popularity of home computers and CD-ROM drives rose, so did the availability of CD ripping applications to make local copies of music to be enjoyed without the use of the disc. After a while, users found ways to share digital versions of music in the form of MP3 files that could be easily shared with family and friends over the Internet. The DVD format introduced in 1997 included a new apparatus for optical discs technology with embedded copy protection schemes also recognized as an early form of DRM. With internet delivered music and video files, DRM schemes has been developed to lock acquired media to specific machines and most times limiting playback rights to a single machine or among a limited number of multiple machines regardless if the model number is the same or not. Writing the machine device ID to the metadata of the media file, then cross referencing with a trusted clearinghouse according to pre-set rules does this.

DRM systems employed by DVD and CD technologies consisted of

scrambling (also known as encryption) disc sectors in a pattern to which hardware developed to unscramble (also known as decryption) said disc sectors are required for playback. DRM systems built into operating systems such as Microsoft Windows Vista block viewing of media when an unsigned software application is running to prevent unauthorized copying of a media asset during playback. DRM used in computer games such as SecuROM and Steam are used to limit the amount of times a user can install a game on a machine. DRM schemes for e-books include embedding credit card information and other personal information inside the metadata area of a delivered file format and restricting the compatibility of the file with a limited number of reader devices and computer applications.

In a typical DRM system, a product is encrypted using Symmetric block ciphers such as DES and AES to provide high levels of security. Ciphers known as asymmetric or public key/private key systems are used to manage access to encrypted products. In asymmetric systems the key used to encrypt a product is not the same as that used to decrypt it. If a product has been encrypted using one key of a pair it cannot be decrypted even by someone else who has that key. Only the matching key of the pair can be used for decryption. After receiving an authorization token from a first-use action are usually triggers to decrypt block ciphers in most DRM systems. Use rights and restrictions are established during this first-use action with the corresponding hosting device of a DRM protected product.

Examples of such prior DRM art include Hurtado (U.S. Pat. No. 6,611,812) who described a digital rights management system, where upon request to access digital content, encryption and decryption keys are exchanged and managed with use of an authenticity clearing house. Other examples include Alve (U.S. Pat. No. 7,568,111) who teaches a DRM and Tuoriniemi (U.S. Pat. No. 20090164776) who described a management scheme to control access to electronic content by recording use across a plurality of trustworthy devices that has been granted permission to work within the scheme.

DRM schemes have proven unpopular with consumers and rights organizations that oppose the complications with compatibility across machines manufactured by different companies. Reasons given to DRM opposition range from limited device playback restrictions to the loss of fair-use which defines the freedom to share media products with family members.

Prior art DRM methods rely on content providers to maintain computer servers to receive and send session authorization keys to client computers with an Internet connection. Usually rights are given from the server for an amount of time or amount of access actions before a requirement to reconnect with the server is required for reauthorization. At times, content providers will discontinue servers or even go out of business some years after DRM encrypted content was sold to consumers causing the ability

to access files to terminate.

A solution is needed to give consumers the unlimited interoperability between devices and "fair use" sharing partners for an infinite time frame while protecting commercial digital media from unlicensed distribution to sustain long-term return of investments.

#### BRIEF SUMMARY OF THE INVENTION

The current state of DRM measures are not satisfactory because unavoidable issues can arise such as hardware failure or property theft that could lead to a paying customer losing the right to recover purchased products. The current metadata writable DRM measures do not offer a way to provide unlimited interoperability between unlimited machines because this theory goes against the very reason why traditional DRM exist.

The invention describes an improvement on prior art DRM methods in which allows unlimited interoperability of digital media between unlimited machines with management of end-user access to said digital media.

In one embodiment, the invention is a process of an apparatus which in accordance with an embodiment, another apparatus, tangible computer medium, or associated methods (herein referred to as The App) is used to: handle at least one branding

action which could include post read and write requests of at least one writable metadata as part of at least one digital media asset to identify and manage requests from at least one excelsior enabler, and can further identify and manage requests from a plurality of connected second enablers; with at least one token and at least one electronic identification reference received from said at least one excelsior enabler utilizing at least one membership. Here, controlled by the said at least one excelsior enabler, The App will proceed to receive the said at least one token to verify the authenticity of said branding action and further requests; then establish at least one connection with at least one programmable communications console of the said at least one membership to request and receive the said at least one electronic identification reference; and could request and receive other data information from said at least one membership. The method then involves sending and receiving variable data information from The App to the said at least one membership to verify a preexisting said at least one branding action of said at least one writable metadata as part of said at least one digital media asset; or to establish permission or denial to execute said at least one branding action or said post read and write requests of said at least one writable metadata. To do this, controlled by the said at least one excelsior enabler. The App may establish at least one connection, which is usually through the Internet, with a programmable communications console, which is usually a combination of an API protocol and graphic user interface (GUI) as part of a web service. In addition, the

said at least one excelsior enabler provides reestablished credentials to the programmable communications console as part of the said at least one membership, in which The App is facilitating and monitoring, to authenticate the data communications session used to send and receive data requests between the said at least one membership and The App.

## BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 shows a flow chart giving an overview of the process of digital media personalization by way of an enabler using an apparatus or otherwise known as an application in which facilitates digital media files. Here the apparatus interacts with all communicative parts required to fulfill the actions of the invention.

FIG. 2 shows a flow chart giving an overview of the process of an access request made by an enabler and subsequently checks communicative parts to cross-reference information stored in the metadata of the digital media asset which has been previously handled by the process of FIG. 1.

## DETAILED DESCRIPTION OF THE INVENTION

Traditional digital rights management (DRM) schemes are defined as authentication components added to digital files that have been encrypted from public access. Encryption schemes are



not DRM methods but DRM systems are implemented to use an additional layer of authentication in which permission is granted for access to the cipher key required to decrypt files for access. A computer server is established to host decryption keys and to accept authentication keys from Internet connected client computers running client software in which handles the encrypted files. The server can administer different authorization keys back to the client computer that can grant different sets of rules and a time frame granted before the client is required to connect with the server to reauthorize access permissions. In some cases content can terminate access after a set amount of time, or the process can break if the provider of the DRM server ever cease to offer services.

Encrypted digital files as referred to in this document can comprise: video files, audio files, container formats, documents, metadata as part of video game software and other computer based apparatus in which processed data is facilitated.

The novelty of the invention is in the interest of providing infinite access rights of legally acquired at least one encrypted digital media asset to the content acquirer, explained in this document as the excelsior enabler, and optionally to their recognized friends and family, explained in this document as a plurality of secondary enablers. To explain further, the excelsior and secondary enablers defined could be human beings or computerized mechanisms programmed to process steps of the

invention as would normally be done manually by a human being. In addition to said enablers, an apparatus used alone or in accordance with an embodiment, another apparatus, tangible computer medium, or associated methods with a connection are needed (herein referred to as The App). To deliver the requirements of the invention, communicative and connected elements comprise: verification, authentication, electronic ID metadata branding, additional technical branding, and cross-referencing. The connection handling the communicative actions of the invention will usually be the Internet and can also be an internal apparatus cooperative. The App can further be defined as a Windows OS, Apple OS, Linux OS, and other operating systems hosting software running on a machine or device with a capable CPU, memory, and data storage. The App can be even further defined as a system on a chip (SOC), embedded silicon, flash memory, programmable circuits, cloud computing and runtimes, and other systems of automated processes.

The digital media assets used in this system are encrypted usually with an AES cipher and decryption keys are usually stored encoded, no encoded, encrypted, or no encrypted as part of the apparatus or as part of a connection usually an Internet server. As explained earlier, the system we will discuss will work as a front-end to encrypted files as an authorization agent for decrypted access.

The verification element of this invention is facilitated by at least

one token handled by at least one excelsior enabler. A token can be a structured or random password, e-mail address associated with a e-commerce payment system (such as PayPal, Amazon Payments, and other credit card services) used to make an authorization payment, or other redeemable instruments of trade for access rights of digital media. Usually, an identifier for said digital media is stored in a database with another database of a list of associated tokens for cross-reference identification to use with the said verification element. The said database of a list of associated tokens can be comprised of Instant Payment Notification (IPN) received from successful financial e-commerce transactions that includes the identifier for said digital media; import of CSV password lists, and manually created reference phrases. For this discussion, the said structured or random password example will be used as reference. Said structured or random passwords can be devised in encoded schemes to flag the apparatus of permission type such as: 1) Purchases can start a password sequence with "P" following a random number, so further example would be "PSJD42349MFJDF". 2) Rentals can start or end a password sequence with "R" plus (+) the number of days a rental is allowed, for example "R7" included in "R7SJDHFG58473" flagging a seven day rental. 3) Memberships can start or end a password sequence with "M" plus (+) optionally the length of months valid for example "M11DFJGH34KF" would flag an eleven-month membership period. The tokens of this invention could be stored in a relational database such as MySQL or Oracle but will teach a more robust

and long-term method. Cloud storage systems such as Amazon's Web Services Simple Storage Solution, or also known as S3, provides a highly available worldwide replicated infrastructure. In addition to S3, monetization offerings such as DevPay offer developers the opportunity to make money from applications developed to use the services. The verification element defined in this disclosure will reference to said S3 and DevPay services for example purposes only as many options such as FTP, SimpleDB, solid state storage and others can be used to host the token hosting needed for the verification element of this invention. The term "verification element" used in explanation of the at least one token required for this invention is because the token represents permission from the content provider to grant access rights to the excelsior enabler and thereafter the plurality of secondary enablers. To set up the verification element the content provider can manually or automatically generate a single or a plurality of structured or random password in which will represent the token. By using public or private access of S3 as part of an apparatus, the content provider can create empty text files giving each the name of the passwords generated. Because S3 is associated with a highly available worldwide infrastructure, to check this password token can be done by simply constructing a HTTP request from the apparatus and triggering follow up actions based on either a 200 HTTP response, which means OK at which point the next action can happen, or a 400 HTTP response which means ERROR at which point the verification process is voided. An additional token can be used to provide a flag to the

apparatus that the verification element has been fulfilled for a initial verification token. Creating an alternate version of the first token by appending a reference to the end, for example, does this: "M11DFJGH34KF\_user@str3em.com\_01\_01\_11". In this example, it is defined that the eleven month authorized membership token was verified by a user@str3em.com on January 1, 2011. By providing a second token, the first token becomes locked to ownership by the excelsior enabler preventing unauthorized users from reusing the first token without providing the authentication associated with the alternative referenced second token. In the interest of providers of the apparatus delivering this invention, this document will teach a method of a HTTP PUT calculation scheme for automatic royalty billing and administration for the token element used in the invention. Amazon's DevPay allow developers to attach monetary charges to data services of S3 offered as an embedded component of said apparatus. By using the "PUT" requests parameter, tokens generated by the apparatus are monitored, calculated, and charged to clients of said apparatus provider. For example: the default charge measure for DevPay is \$0.05 for every 1000 PUT request. By changing the amount to \$1.00 for every 1000 PUT requests, the apparatus provider is paid a \$0.10 royalty for each token created. Content providers using a connected apparatus like DevPay to deliver and manage digital media distribution do not need to have restrictions on the tokens created as with prior art DRM key providers as DevPay is charged on a pay-as-you-need model on a monthly basis. As a novelty to the apparatus

provider, if a content provider fails to pay royalties due, the DevPay hosting will automatically deny token access to all related media products in distribution and restore this verification element when royalties are paid in full. This relieves the need of physical reprimand as with prior art DRM in which delinquent accounts are subject to human auditing processes.

The authentication element of this invention is at least handled first by the said at least one excelsior enabler with a connection to a membership. In this disclosure, the connection is equal to the Internet and the membership is equal to a web service. Further, the web service must be available for two way data exchange to complete the authentication process of this invention. Data exchange with a web service is usually facilitated with a programmable communications console, at most times, will be an Applications Programmable Interface (API). An API is a set of routines, data structures, object classes, and/or protocols provided by libraries and/or operating system services in order to support the building of applications. An API may be language-dependent: that is, available only in a particular programming language, using the particular syntax and elements of the programming language to make the API convenient to use in this particular context. Alternatively an API may be language-independent: that is, written in a way that means it can be called from several programming languages (typically an assembly/C-level interface). This is a desired feature for a service-style API that is not bound to a particular process or system and is

available as a remote procedure call. A more detailed description of API that can be used for an apparatus can be found in the book, "Professional Web APIs with PHP: eBay, Google, Paypal, Amazon, FedEx plus Web Feeds", by Paul Reinheimer, Wrox publishers (2006). A program apparatus, scripts, often calls these APIs or sections of code residing on user computerized devices. For example, a web browser running on a user computer, cell phone, or other device can download a section of JavaScript or other code from a web server, and then use this code to in turn interact with the API of a remote Internet server system as desired. A Graphic User Interface (GUI) can be installed for human interaction or processes can be preprogrammed in a programmable script such as PHP, ASP.Net, Java, Ruby on Rails and others. The authentication element of the invention is usually embedded as a process of the apparatus but could be linked dynamically. In this document, the embedded version using a GUI will be used as reference. The web service equipped with the API is usually a well-known membership themed application in which the users must use an authentic identification. Some example includes Facebook in which as a rule, members are required to use their legal name identities. A reference number or name with the Facebook Platform API represents this information. Other verified web services in which real member names are required such as the LinkedIn API and the PayPal API and even others could be used, but for this discussion, Facebook will be used only as an example of how the authentication element of the invention is utilized. The Facebook

API system, as well as others, operates based on an access authentication system called from a connected apparatus (which is usually an Internet powered desktop or browser based application) with an API Key, an Application Secret Key and could also include an Application ID. For example, the Facebook API Application Keys required to establish a data exchange session with said connected apparatus might look like:

API Key

37a925fc5ee9b4752af981b9a30e9a73gh

Application Secret

f2a2d92ef395cce88eb0261d4b4gsa782

Application ID

51920566446

Said collective API keys are usually embedded in the source code of the apparatus, or stored on a remote Internet server, and could be included in the said encrypted digital media metadata and inserted on-the-fly into calls made to the said API from the said connected apparatus. This allows dynamic API connection of said apparatus using keys issued to individual content providers so in the event of a reprimand of a single said individual content provider by the API provider, the collective said individual content providers and said enablers of said connected apparatus are not affected.



Upon an access request of said digital media, the said excelsior enabler interacts with the apparatus, usually a software or web application, to enter membership credentials in a GUI front-end connected to said API. Said membership credentials are usually comprised of a login element comprising a name, phrase, or e-mail address, and a secret password. Said credentials can be generated by the enabler or automatically generated by the web service. Once the enabler authenticates their identity with said membership, the apparatus facilitating the data communication can request relevant information to fulfill the process chain of the invention. For example, Facebook API Platform defines members as ID numbers, so if a member's real name is John Doe, then Facebook API ID (also programmatically known as the FBID) would be 39485678. Once the enabler successfully sign in to the GUI element then the apparatus will query the API for at least one electronic identification reference, in this discussion is the FBID. The FBID is received to the permanent or temporary memory of the apparatus to sustain the branding and cross-referencing requirements of the invention. Additional information can be requested according to membership status or connected "friends" of said enabler. Additional information can be made required for successful authentication and includes: a minimum amount of total friends, a minimum amount of female friends, a minimum amount of male friends, a minimum amount of available pictures, a minimum age limit and other custom rules can be defined by the apparatus. An example of how this would

work is a content provider can define a minimum of 32 Facebook friends are required to access an encrypted digital media asset offered for sale or promotion. This is achieved by the apparatus handling a access request in which the enabler has not yet acquired access rights by executing and parsing information returned by the Facebook "Friends.get" API command.

XML return example of the Facebook "Friends.get" API command where a plurality of FBID are returned to the apparatus for parsing additional information as may be required to satisfy said successful authentication:

```
<?xml version="1.0" encoding="UTF-8"?>
<friends_get_response xmlns="http://api.facebook.com/1.0/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://api.facebook.com/1.0/
http://api.facebook.com/1.0/facebook.xsd" list="true">
  <uid>222333</uid>
  <uid>1240079</uid>
</friends_get_response>
```

When authenticating a compatible device or machine which may not have access to a connection for said authentication element, a key file or part of said metadata thereof could be made on another connected compatible device or machine and allow said enabler to execute said Friends.get API command to collect and store the complete list of a plurality of FBID to said key file or said metadata thereof. Said compatible device or machine which

may not have access to a connection for said authentication element with an embedded interaction console, usually a user GUI, can request and load said key file or part of said metadata thereof to save said complete list of a plurality of electronic identification references, in this discussion is reference as said FBID, to storage or metadata as part of said compatible device or machine. This step ensures the cross-referencing element requirement of the invention can take place in the event the said connection for the said authentication element is not present in the said compatible device or machine.

Another example is a content provider can allow shared access to friends of the excelsior enabler after a time period, like for example, 90 days. After the said 90 day period, when media access is requested using said authentication element by a plurality of secondary enablers, which are usually friends and family of the excelsior enabler, the FBID of the excelsior enabler is cross-referenced with the FBID of the requesting secondary enabler by way of said apparatus ability to execute the Facebook "Friends.areFriends" API command.

XML return example of the Facebook "Friends.areFriends" API command where FBID 2223322 and 2222333 are friends and FBID 1240077 and 1240079 are not friends:

```
<?xml version="1.0" encoding="UTF-8"?>
<friends_areFriends_response
xmlns=http://api.facebook.com/1.0/
```

```
xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance
xsi:schemaLocation="http://api.facebook.com/1.0/
http://api.facebook.com/1.0/facebook.xsd" list="true">
<friend_info>
<uid1>222332</uid1> <uid2>222333</uid2>
<are_friends>1</are_friends>
</friend_info>
<friend_info>
<uid1>1240077</uid1> <uid2>1240079</uid2>
<are_friends>0</are_friends>
</friend_info>
</friends_areFriends_response>
```

Such usability can be important to sustain "fair use" rights of consumers of said digital media to emulate usability found with physical media products such as CD and DVD that can be loaned to friends and family after an inception grace period.

Once the information of the verification and authentication elements is acquired, the apparatus handles the next process of writing said information to said digital media metadata and can include additional information gathered from components of The App. Components of The App can include MAC address from a networking card, CRC checksum of an embedded file or circuit, SOC identifier, embedded serial number, OS version, web browser version, and many other identifiable components as part of The App. For this discussion, the MAC address from a

networking card as part of The App will be used as reference of a secondary electronic identification reference. In computer networking, a Media Access Control address (MAC address) is a unique identifier assigned to most network adapters or network interface cards (NICs) by the manufacturer for identification, and used in the Media Access Control protocol sub-layer. If assigned by the manufacturer, a MAC address usually encodes the manufacturer's registered identification number. It may also be known as an Ethernet Hardware Address (EHA), hardware address, adapter address, or physical address. The novelty of embedding the MAC address along with the FBID of said excelsior enabler is to provide a plurality of electronic identification references in which cross-referencing actions can allow more rapid access to be granted with less interaction from an enabler. For example, to retrieve the FBID from Facebook to cross-reference with the FBID stored in said digital media metadata requires the enabler to possibly physically need to enter their login and password credentials to the GUI connected to the apparatus. It may be possible that web browser cookies allow automatic Facebook login by storing an active session key, but the session key is not guaranteed to be active at the time of an access request. While said enabler may not have an issue executing another authentication command, several remote operations could exist to control authentication and access requests separately from each other. The apparatus can execute a programmable retrieval command, usually a GET command, to locate and retrieve the MAC address from an attached or

connected networking card. After the FBID is acquired, the MAC address is also acquired to write said a plurality of electronic identifications to the metadata of said at least one encrypted digital media asset by; obtaining the decryption key to decrypt said encrypted digital media asset which is usually stored encoded, no encoded, encrypted, or no encrypted as part of the apparatus or as part of a connected source, usually an Internet server with an encrypted HTTPS protocol. A plurality of MAC addresses can be stored along with the FBID of the excelsior enabler to manage access rights across a plurality of devices. To understand metadata and the uses, metadata is defined simply as to "describe other data". It provides information about certain item's content. For example, an image may include metadata that describes how large the picture is, the color depth, the image resolution, when the image was created, and other data. A text document's metadata may contain information about how long the document is, who the author is, when the document was written, and a short summary of the document. Web pages often include metadata in the form of Meta tags. Description and keywords Meta tags are commonly used to describe the Web page's content. Most search engines use this data when adding pages to their search index. In the invention, the FBID and MAC addresses are written to the said digital media asset metadata to prepare for the instant or delayed cross-referencing element of the invention. The same process of writing said information to the said digital media metadata is true with secondary enablers allowing the same benefits of cross-referencing.

Cross-referencing, the last element of the invention is used to verify access rights of an enabler of a pre or post personalized encrypted digital media asset. Once an enabler executes an action for access request, the apparatus will obtain said decryption key to first seek the MAC address record. If the MAC address is found, then a cross-reference process is executed by comparing the MAC address retrieved from the metadata of the said digital media file with the MAC address retrieved from the networking card connected to the apparatus or The App. If the comparison action proves to be true, then access rights are granted to the enabler. If the comparison fails, then the apparatus can either ask the enabler to participate in communication with the said authentication element of the invention, or could deny further interactivity with said enabler. In this discussion, the apparatus requires the enabler to participate in communication with the said authentication element to provide credentials to establish a cross-reference comparison with the FBID retrieved from said metadata and the FBID retrieved from the Facebook API. If the comparison action proves to be true, then access rights is granted to the excelsior enabler and the current MAC address of the networking card as part of The App is appended to the metadata of said encrypted digital media asset and access rights is granted to the excelsior enabler. If the said FBID cross-reference fails, then the apparatus can either ask the potential secondary enabler to participate in communication with the said authentication element of the invention, or could deny

further interactivity with said potential secondary enabler. In this discussion, the apparatus requires the potential secondary enabler to participate in communication with the said authentication element to provide credentials to establish a cross-reference comparison with the FBID retrieved from said metadata and the FBID retrieved from the Facebook "Friends.areFriends" API command to determine if the said potential secondary enabler identity is true or false. Said determination is in accordance to any possible access grace periods set by the content provider of the said encrypted digital media asset. If the comparison action proves to be true, then access rights is granted to the secondary enabler and the current MAC address of the networking card as part of The App and the FBID retrieved are appended to the established metadata information of the said encrypted digital media asset and access rights can be granted to a plurality of secondary enablers; unlimited interoperability between devices and "fair use" sharing partners for an infinite time frame while protecting commercial digital media from unlicensed distribution to sustain long-term return of investments is achieved.



Figure 1

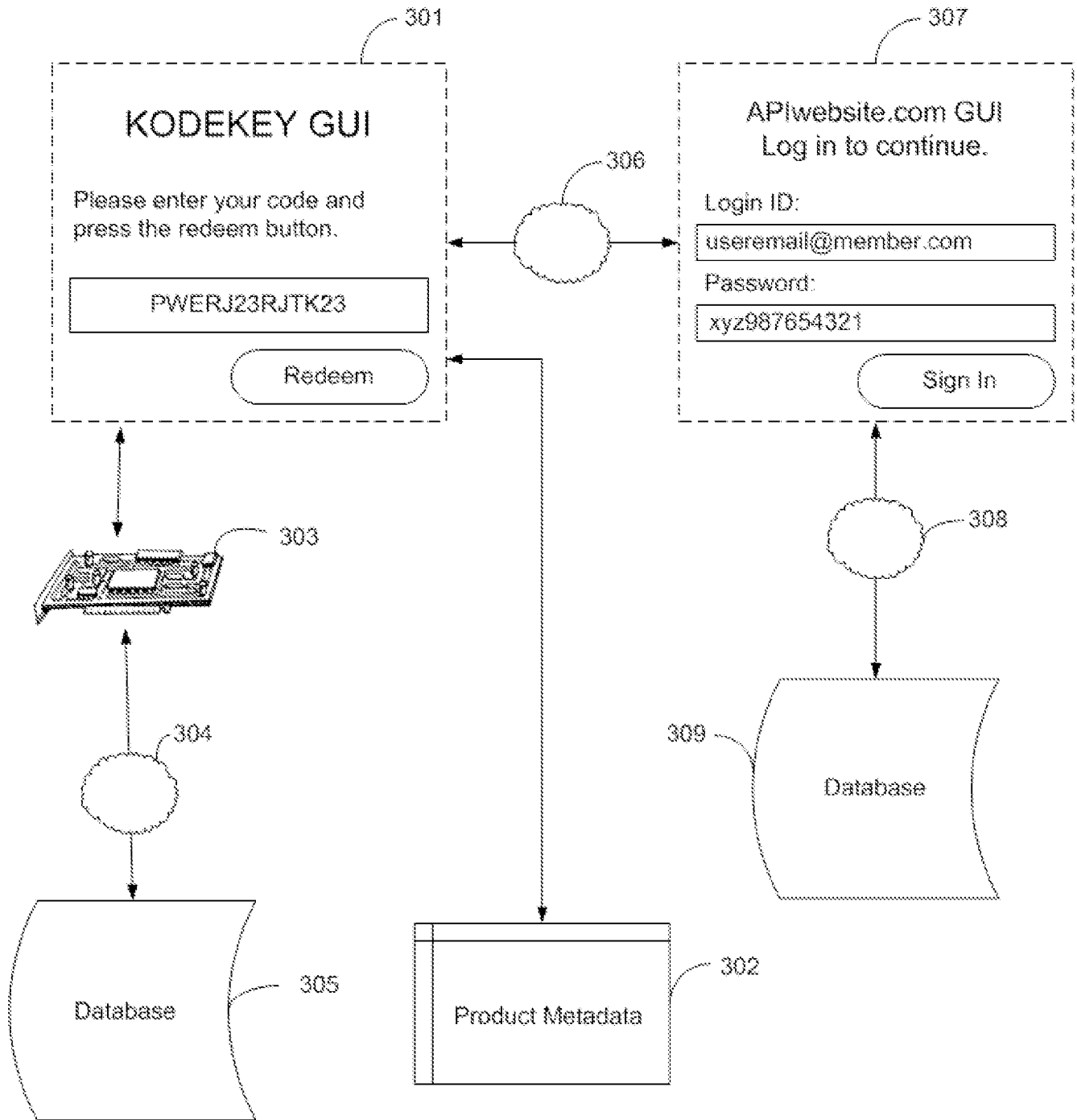


Figure 2

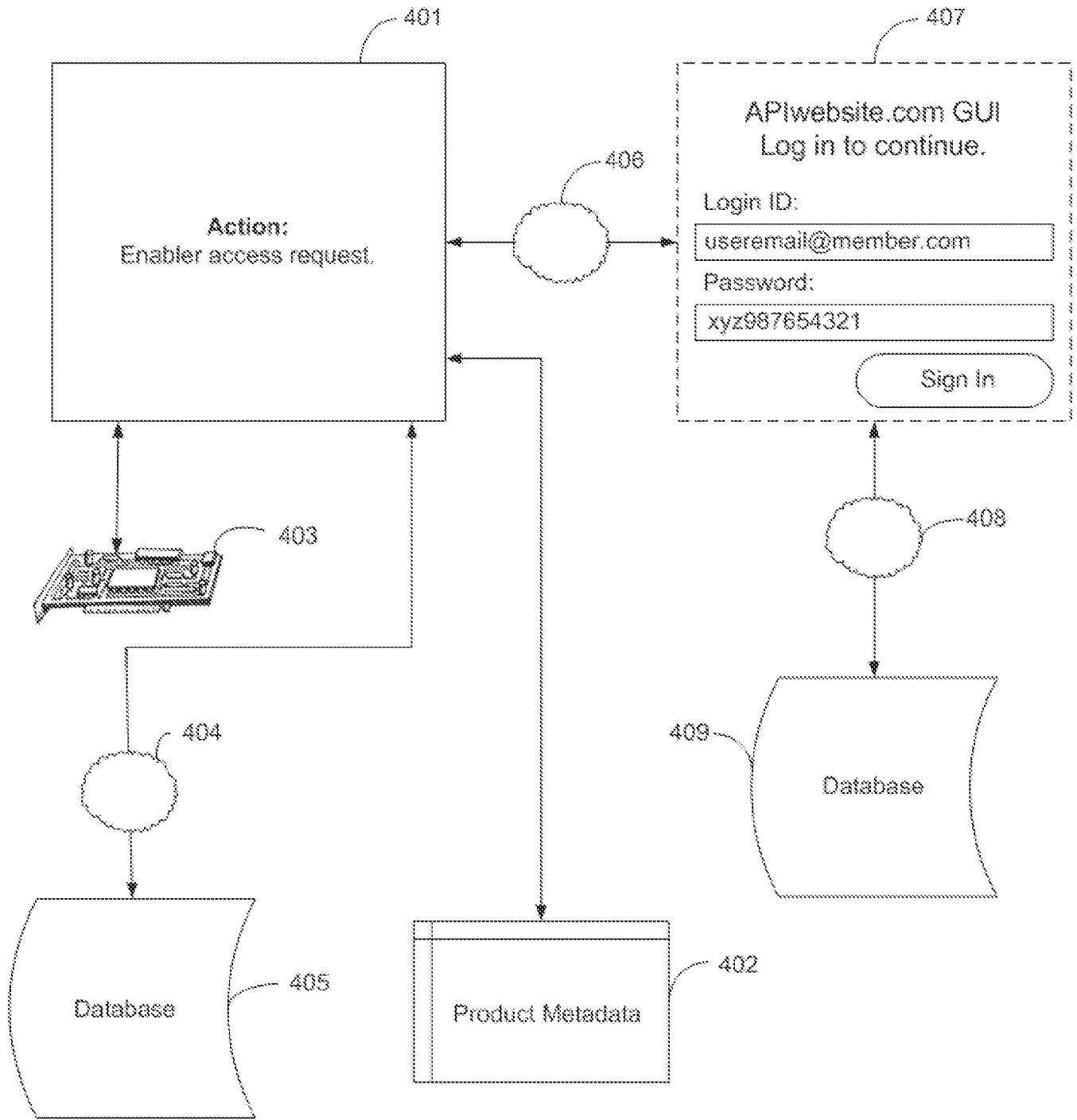
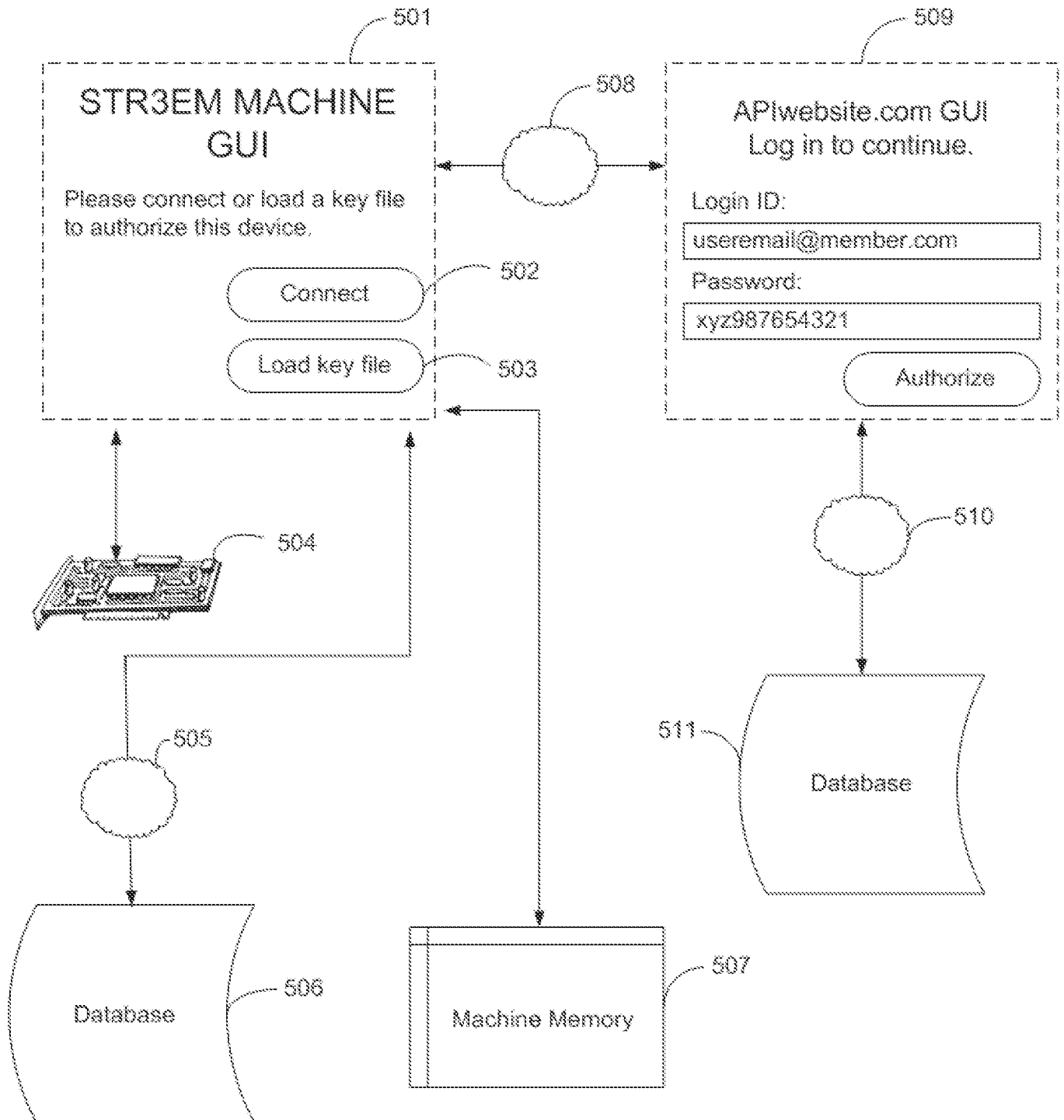
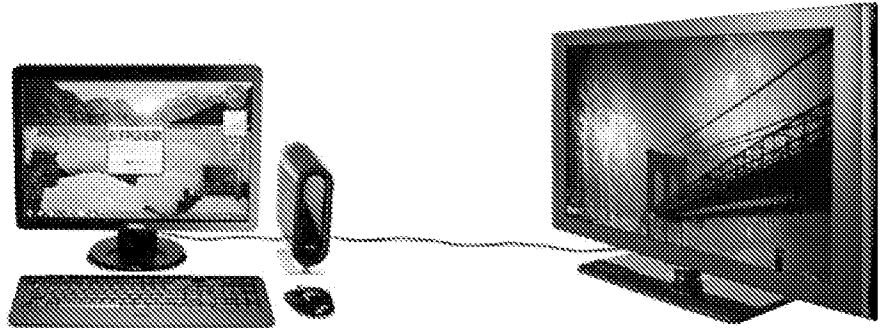


Figure 3



## Continuing the tradition of optical disc technology to the future of digital delivery.

STR3EM is a proprietary electronic container format that can deliver multiple media assets as a presentation sequence similar to a CD or DVD. Playback can be a mix of media stored inside the container and assets streamed from the internet (HTTP, HTTPS, MMS, RTSP).



The STR3EM Middleware Platform provides an infrastructure for content providers to deliver products to consumers through a distributed application which converts a home computer into a retail entertainment machine. Using a new patent privileged digital rights management system called Personalized Digital Media, consumers can use files on any compatible machine by simply logging in with an electronic ID (such as Facebook).

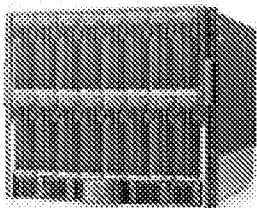
Client demographics range from the motion picture industry, television, pay-per-view, music industry, and higher learning institutions. For government and corporate clients, STR3EM is available in a variety of classified level AES 256-bit encrypted versions.

The STR3EM code-base is constructed using the cross-platform Java programming language and can be customized to work with any machine running the Java Virtual Machine (JVM) runtime. Examples of popular operating systems offering a JVM are Microsoft Windows, Apple Mac, Blu-ray Disc Players, Google Android, and Linux. STR3EM is currently available on the Microsoft Windows platform giving content providers an installed user-base of over 1 billion compatible machines worldwide. Set-top-box and custom machines designed to play STR3EM media offers a great opportunity for licensing with hardware manufactures.

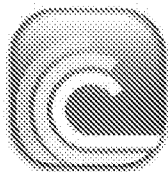
Commercial product inventories are managed with the KodeKey Password System allowing content providers to sell "units" to resellers similar to physical optical media. KodeKey provides access management to STR3EM products by facilitating three types of retail products: 1) Purchase-to-own, 2) 1-7 day rentals, and 3) Memberships.

Automated licensing and royalty payments for content providers worldwide are paid monthly with a credit card through a partnership with Amazon Web Services. Strict royalty enforcement is built in to the STR3EM system by automatically blocking and restoring KodeKey server access to content providers that fail to pay their monthly royalty balance.

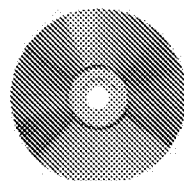
### Compatible format distribution methods:



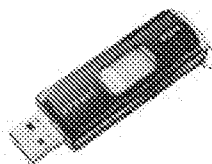
Web Servers and CDN



Bittorrent



Optical Media



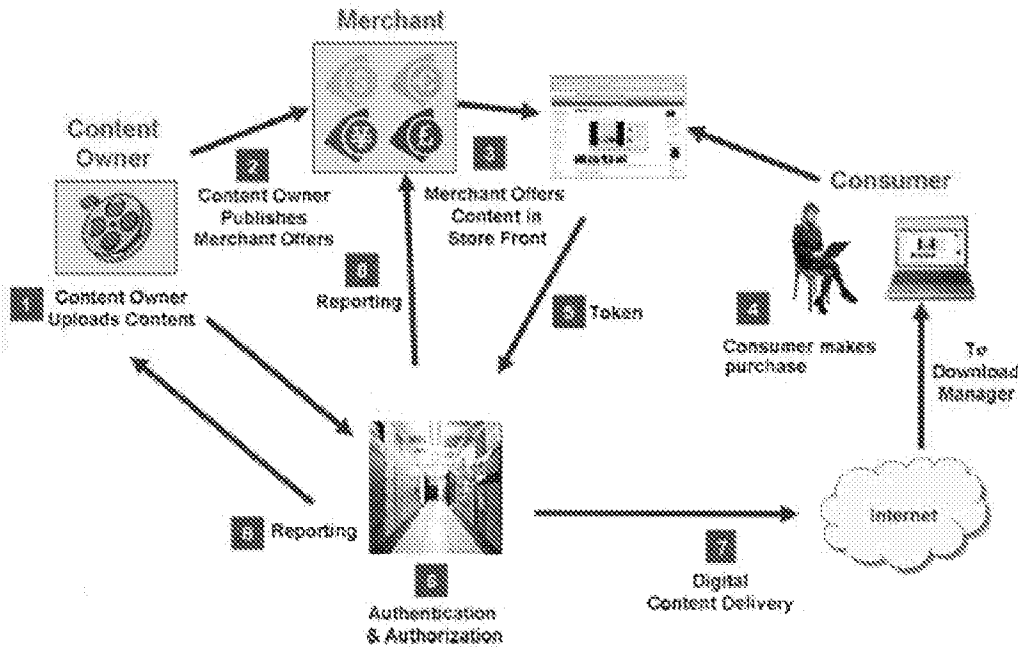
Flash Media

Format Power Points
★1 billion+ compatible machines
★New licensing opportunities
★Patentable digital rights system
★Patentable format infrastructure
★Built-in automated royalty system
★Follows tradition of optical media



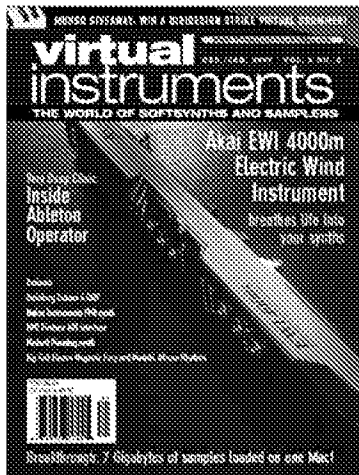
igital delivery with the buying power of physical media.

odeKey joins the retail business model of physical media with the power of digital delivery. Content providers can control unit inventories of STR3EM products by generating and selling password lists to retailers. Kodekeys can be voided by a content owner any time.



Variable data printing products compatible with KodeKey distribution:

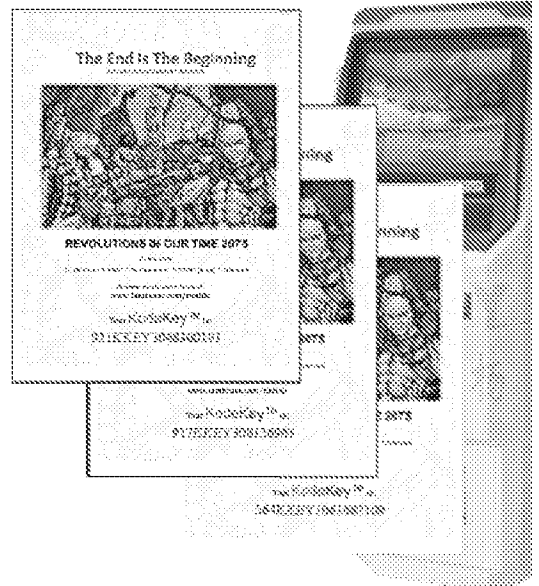
Magazines and newspapers



Retail cards and hangers



Paper printing in-store kiosks



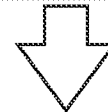
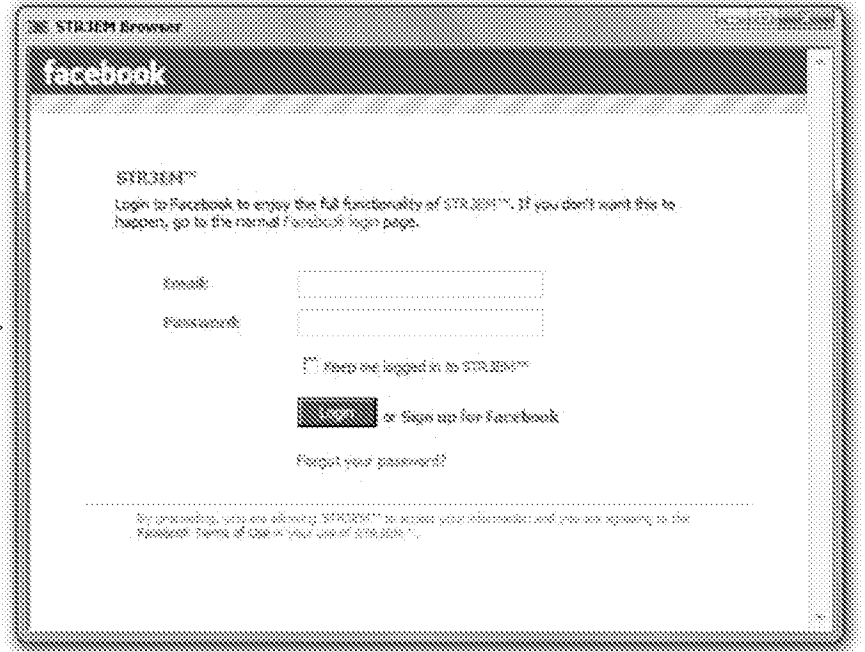
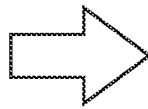
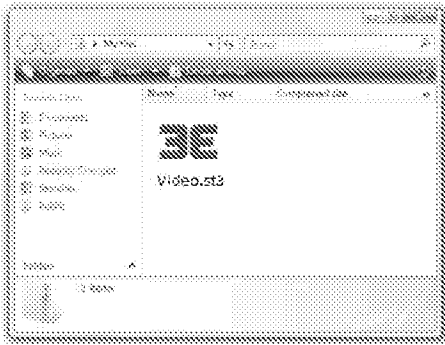
# Patent Privileged: Personalized Digital Media

Products redeemed with a KodeKey are branded with an electronic ID from Facebook. Users can access their STR3EM files on any compatible machine without restrictions. Users can share files with their Facebook friends after 90 days just as they would with a CD or DVD.



## Step 2 - users sign-in to Facebook or auto with cookie.

### Step 1 - users open files

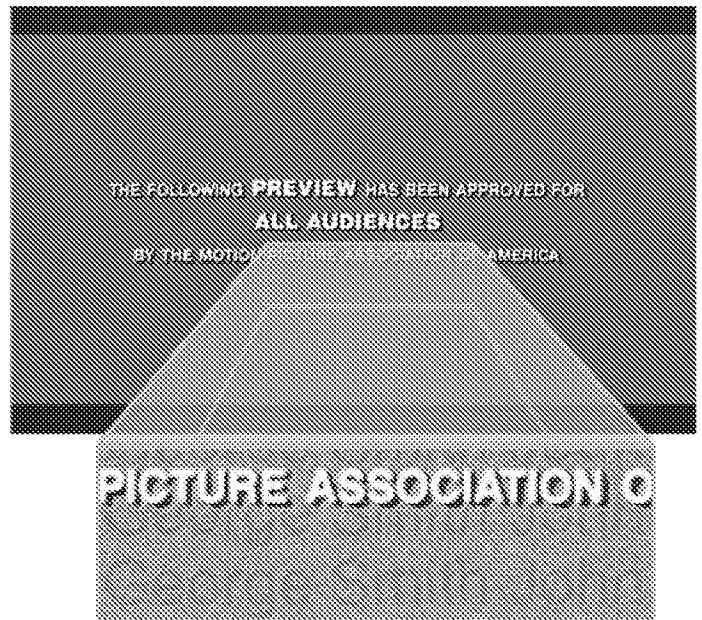


### Step 3 - files open and play instantly on any machine that accepts STR3EM media.



## SCREENER Mode

Screeener Mode provides a secure playback environment for sensitive and classified video. Only friends listed in the content provider's Facebook account can access STR3EM files in Screeener Mode. Upon playback, the user's name is watermarked on the video window and only a single mouse click to the top or bottom of the video window can close it. Screeener Mode will only operate in full screen view and users are encouraged to auto hide the task bar to gain full view. All keyboard functions are disabled while in Screeener Mode.



# KKEYCERT

Password Certificate  
1,344,000-bit



For highly sensitive material, we offer an option to create super strong 1,344,000-bit key certificates.

Users are required to load a KKEYCERT before material can be accessed after entering a Master Password or KodeKey Password. A unique certificate can be generated with each new STR3EM created.

## IP Preview

The personalized digital media IP has been reduced to practice in the STR3EM Windows application since December 2009 on Cnet's download.com. Patent documentation is currently in draft and this property has until December 2, 2011 to file any PCT patent applications under the 1 year rights rule. The next 3 pages will show the 3 figures associated with a current patent draft.

Figure 1 - personalized digital rights management component as part of an encrypted media asset scheme with writable metadata. Figure 1 represents a redemption and branding sequence.

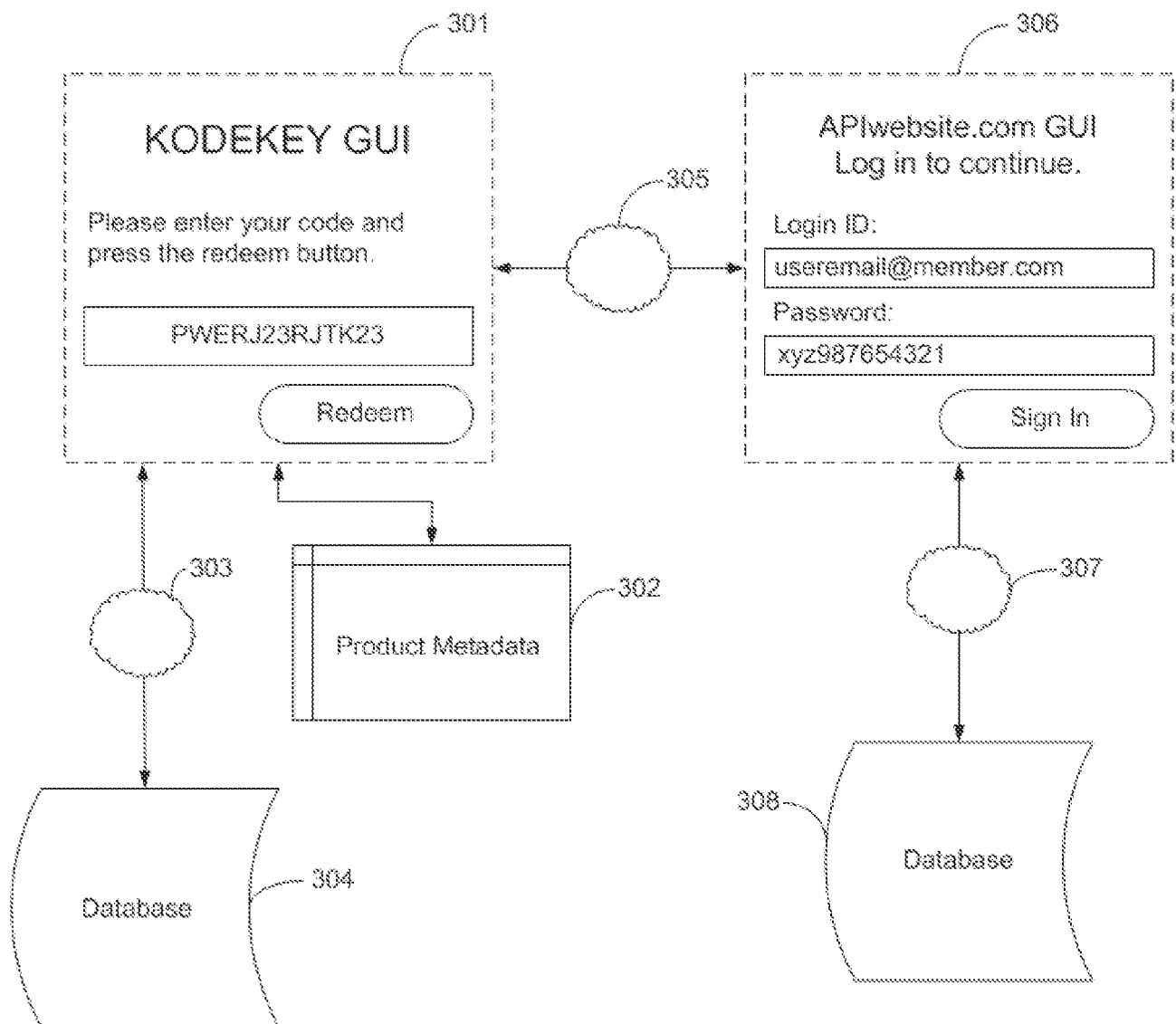




Figure 2 - personalized digital rights management component as part of an encrypted media asset scheme with writable metadata. Figure 2 represents an open request in which an authorization sequence action is executed of a file in which the redemption and branding scheme has taken place.

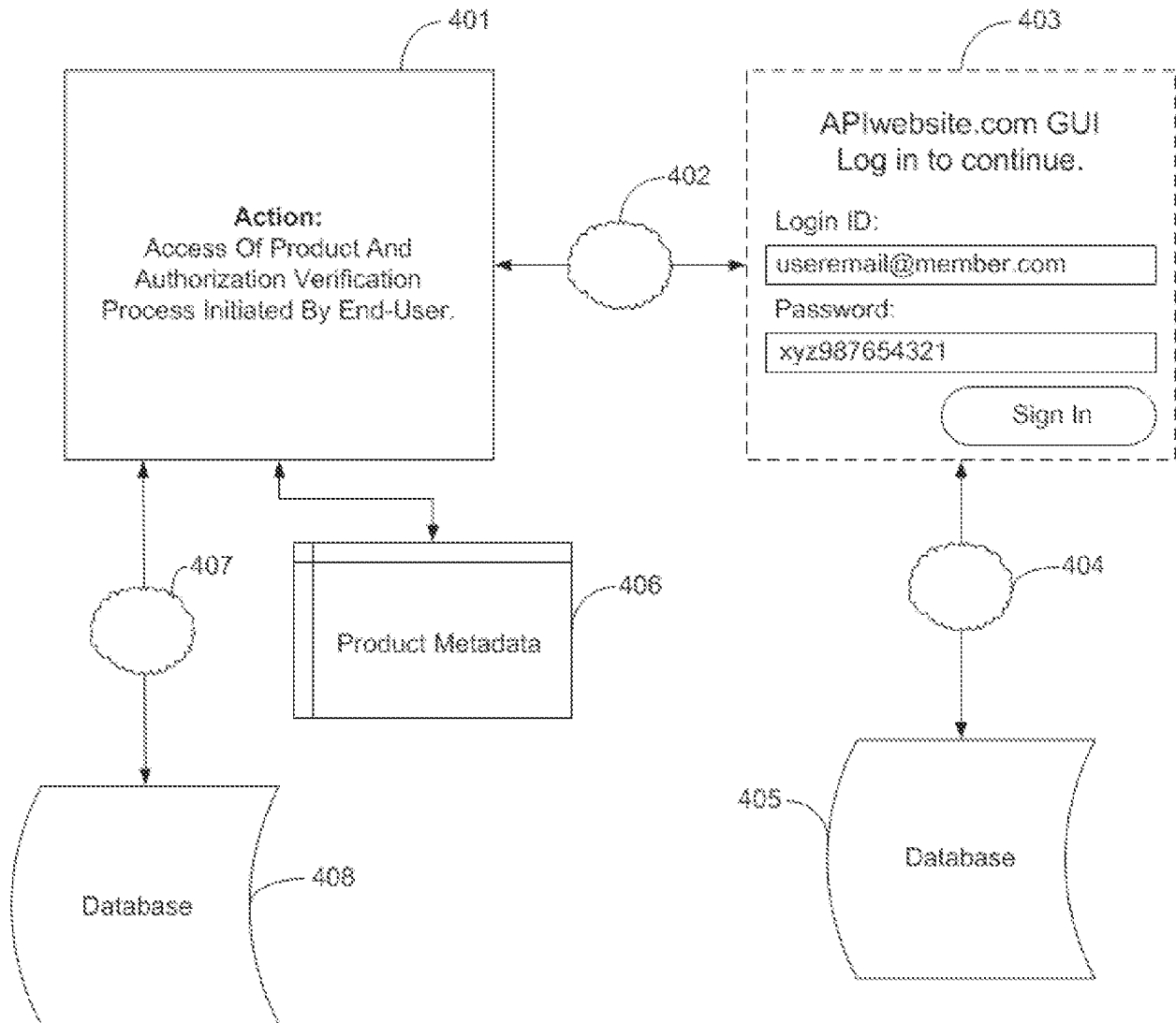
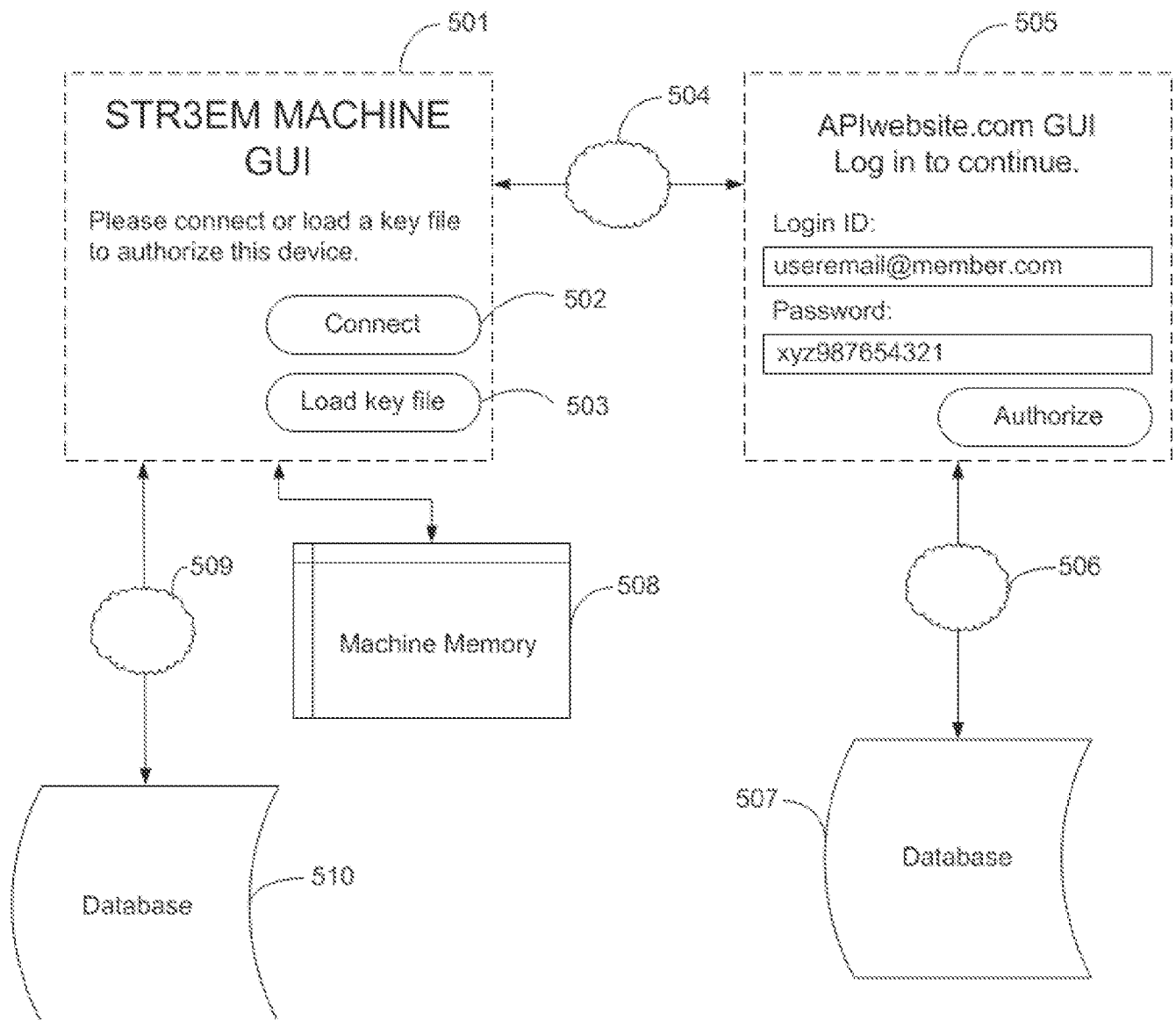


Figure 3 - personalized digital rights management component as part of a compatible machine with writable static memory. Figure 3 represents an authorization sequence action in which a machine is authorized to accept a personalized digital media file. Traditional DRM methods embed an authorization key inside a circuit of compatible machines at the time of manufacturing, here, our method requires authorization by an end-user according to their electronic ID.







## Installation

### Thank you for choosing STR3EM

STR3EM is designed for the Windows 7 operating system and also compatible with Vista, and XP.

Mac OS X users can use Bootcamp.

#### RECOMMENDED SYSTEM CONFIGURATION:

Operating System: Windows XP and up (32 or 64-bit)

Processor: Intel i3 (and above)

Memory: 4GB

Video: Intel Graphics Media Accelerator HD (and above)

### Installation

Download and install the free STR3EM application from our homepage at [www.str3em.com](http://www.str3em.com)

Java and the Haali Media Splitter applications are required. If you don't have these components already installed on your PC, then please select the "Yes" options to install Java and the Haali Media Splitter during the STR3EM application installation.

Some providers may offer optional AC3 and DTS audio tracks. If you want to access them, please install the AC3Filter application at <http://ac3filter.net/>

CoreCodec CoreAVC is required for Vista and XP to play 1080p files:  
<http://corecodec.com/products/coreavc>

### IMPORTANT!

STR3EM is designed for clean installs with the default multimedia codecs in Windows 7.

For XP and Vista users: the CCCP codec pack may work but is not part of the official configuration of the STR3EM system. We suggest investing in CoreAVC.

The K-Lite codec pack should never be used on a STR3EM system.

Any other "media splitters" other than Haali should not be used on the same machine with STR3EM.

Please note: we do not support systems with unofficial configurations and assume you can uninstall any conflicting codec packs or splitters that may cause any problems with playback performance of STR3EM files.

### About KodeKeys (feature no longer active for Windows version)

Files may be free to play or require a KodeKey.

If you are using a KodeKey to activate a product:

User authorization with Facebook Connect is required to use most KodeKey products. You can also set a one-time authorization for your machine or sign in as a guest on another user's machine (see section below: Set Machine Authorization). To verify legitimate users, STR3EM requires a minimum friend count of 17. If you do not have a Facebook account, please visit [www.facebook.com](http://www.facebook.com) to start a new account with the minimum requirements before proceeding.

### How To Set A Machine Authorization

#### (feature no longer active for Windows version)

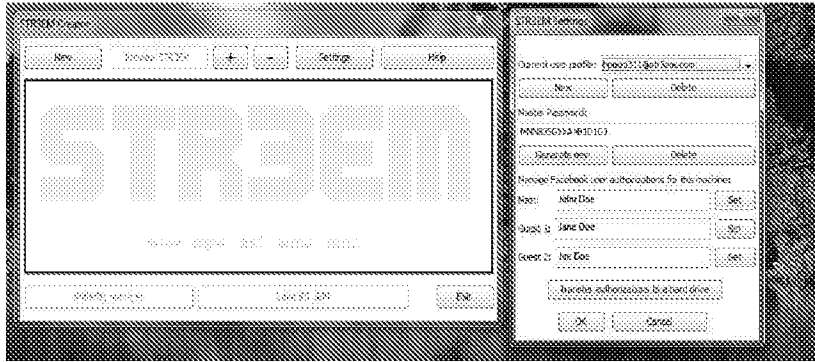
When you redeem a Purchase, Rental, or Membership KodeKey, STR3EM may ask you to log in to Facebook to authorize playback of your file. To skip this requirement every time you redeem and play a file, you can create an authorization for your machine. STR3EM also allows up to 2 additional users to authorize a machine (users must be listed as Facebook friends in the main user's account at the time of each play request). This is useful for family members that want to share purchased files. This is also required if you plan to create files in Screener Mode.

Search our website.

Google Custom Search

Google search

Step 1 – Open the STR3EM application and press the "Settings" button.



Step 2 – Press the "Set" button next to the user slot you wish to set a machine authorization for:

Main – This should be the main user of the machine. An Internet connection is only required once to set the machine and does not require a connection to watch files purchased to this user. Rentals and Membership files will still require an Internet connection.

Guest 1 and 2 – Must be Facebook friends of the Main user in order for an authorization to be set. An internet connect is required to verify that users are still listed as Facebook friends to play files using these authorizations. If users are no longer friends, the Facebook Connect panel will be displayed for a manual log in required to play files from these users.

STR3EM allows you to travel with your library on USB storage devices and play them on guest machines. Press the "Transfer authorizations to a hard drive" button and select a hard drive you would like to authorize. This drive must also contain copies of your STR3EM files (they can even be in folders).

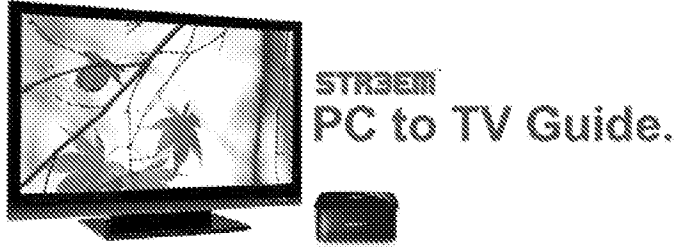
**[CLICK HERE For Playback Instructions](#)**

[Return to top](#)

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## PC to TV Guide

Search our website.

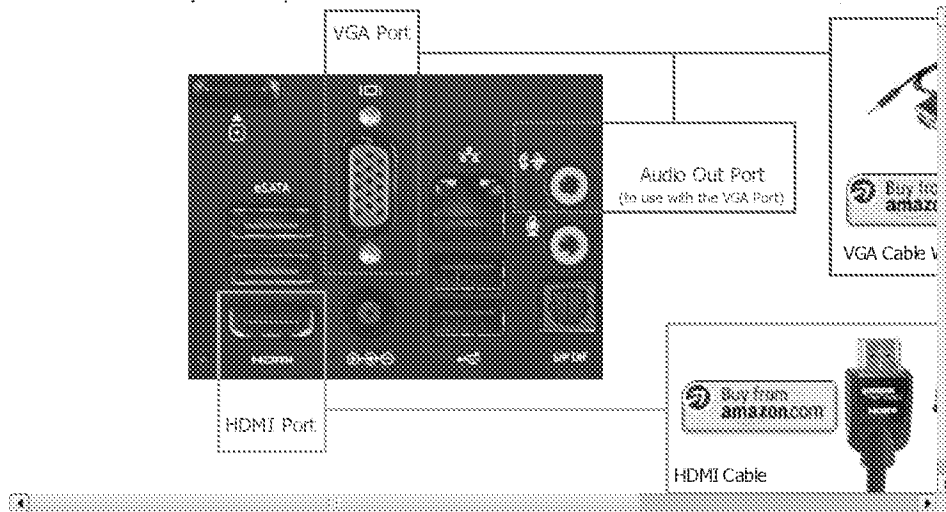
Most Windows 7 PCs sold in the market today come ready to connect to a HDTV with an HDMI port. All computers come with a VGA port that can be connected to either a dedicated computer monitor or a HDTV. Connecting a PC to a television is becoming more popular due to smaller machine designs and HDTV friendly streaming services such as Netflix, Hulu, and YouTube.

### About PC to TV Connectors

Your PC will have 1 or 2 of the following connectors. Find an available connection on your HDTV and decide which configuration is best for you:

HDMI is a digital connector for video and audio and gives the best optimum quality for HD. Connect a HDMI cable from your PC to your HDTV.

VGA is an analog video-only connector and comes with all PCs. You will need to connect a VGA and audio cable from your PC to your HDTV.



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## Playing Files

### Playing STR3EM Files

Note: for the best user experience, close a playing file before opening another file.

Step 1 -- Open the STR3EM file.

If it's free then the STR3EM Player will open and start playback (step 4).

If your file requires a KodeKey then please see the next step (2a).



Step 2a- If required, enter a purchase, rental, or membership KodeKey in the Access Panel. An Internet connection is required according to the list below:

- 1) Purchase KodeKey -- an Internet connection is required only once to authorize a file.
- 2) Rental KodeKey -- an internet connection is required each time a file is played.
- 3) Membership KodeKey -- an Internet connection is required each time a file is played

(NOTE: The picture banner in the Access Panel may be linked to a web page.)

Enter the full KodeKey with dashes and press play.

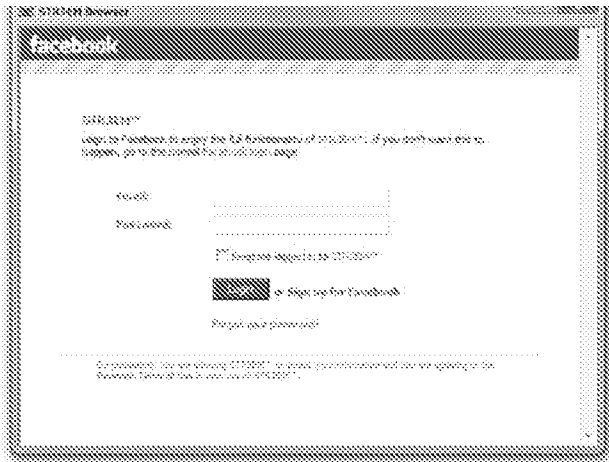


Step 2b- if required, sign in with a Facebook account that has a minimum of 17 friends. To skip this step, please set a machine authorization.

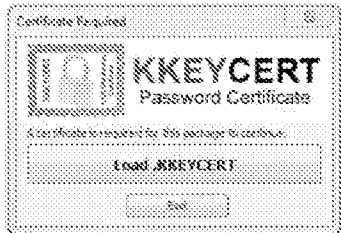
Search our website.

Google Desktop Search

Google search



Step 3 -- If required, load the KKEYCERT file given to you by your content provider.



Step 4- Playback will begin once the required steps are complete.



## Machine Authorization Management

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Step 1 -- Open the STR3EM application and press the "Settings" button.



Step 2 -- Press the "Set" button next to the user slot you wish to set a machine authorization for.

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## Media Assets

### STR3EM Version 1

*Local and Internet assets are presented in a progressive playback method.*

.st3 and .wiki files can deliver a playlist mix of unlimited local and remote streaming assets:

WMV 480p up to 2400mbps (best for backwards compatibility with XP and Vista).

WMV 480p up to 2400mbps encrypted with Windows Media Digital Rights Management.

H.264 (MOV or MP4 with AAC audio) 480p up to 2400mbps.

MPEG-1 MPG

WAV 16-bit 44.1Khz.

WAV 24-bit 96Khz.

WMA up to lossless profile.

MP3 up to 320Kbps.

WVX Windows Media streaming file.

Web protocols

HTTP, HTTPS, MMS, and RTSP.

### STR3EM Version 2 (Pro)

*Local, MMS, and RTSP assets instantly seek ready. HTTP and HTTPS assets are presented in a progressive method.*

.3em and .3ev can deliver an unlimited list of remote streaming assets preceding a single local asset:

STR3EM File Extension -- .3em

Codec: H.264/AVC

Accepted Containers: M2TS, MP4, MKV, and MOV

Resolution: 480p, 720p, 1080p.

Content providers can deliver H.264 up to 192Mbps. Content providers are responsible for making consumer friendly delivery decisions.

Subtitles are not compatible and breaks playback of MKV and M2TS source files and should not be included at this time.

Audio encoding:

AAC 5.1 and stereo (mandatory and supported by default in Windows 7)

PCM stereo (optional replacement for mandatory)

AC3 (should follow AAC tracks in MKV or M2TS)

DTS (should follow AAC tracks in MKV or M2TS)

Multi-language tracks in M2TS and MKV are compatible.

Pre-show web protocols

WMV, MOV, or MP4 through HTTP, HTTPS, MMS, and RTSP.

### STR3EM Audio

STR3EM File Extension -- .3ea

Codec: PCM WAV 16-bit 44.1Khz and 24-bit 96Khz

Accepted Container: MKA

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Pre-show web protocols

WMV, MOV, or MP4 through HTTP, HTTPS, MMS, and RTSP.

The following list of encoders are verified to produce compliant STR3EM media assets:

X.264



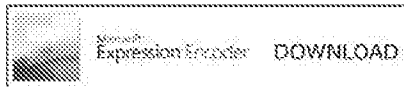
Sonic Solutions CineVision



PEGASYS TMPGEnc



Microsoft Expressions Encoder



Exact Audio Copy (EAC) – CD Master importing for STR3EM authoring



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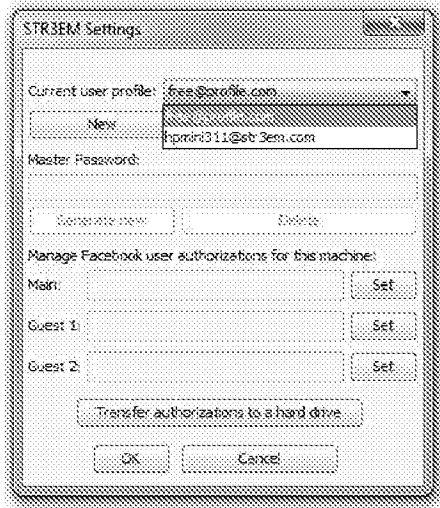
## STR3EM Version 1

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### Before You Get Started



### Press the Settings button in the STR3EM Creator

#### to see the current user profile.

STR3EM can be used for free under the default profile named: free@profile.com. Make sure you use this profile when you want to create free promotional or password protected STR3EM files. STR3EM version 2 files are limited to 1GB in size without a KodeKey license. Once you get a KodeKey license, you can come back to the free profile and create version 2 files larger than 1GB.

When you get a KodeKey license, you will see the email address you used to sign up with in the user profile menu. KodeKey profiles cannot create manually entered password protected files. To create manually created password protected files after getting a KodeKey license, you must go to the setting panel and switch back to the free@profile.com user profile. You can also do this while authoring a STR3EM file.

### Authoring STR3EM Version 1 Files Step 1 – The STR3EM Creator

(Please Note: Version 1 is designed to deliver Internet URL playlist. For premium large file HD video and audio delivery see [STR3EM Version 2](#).)

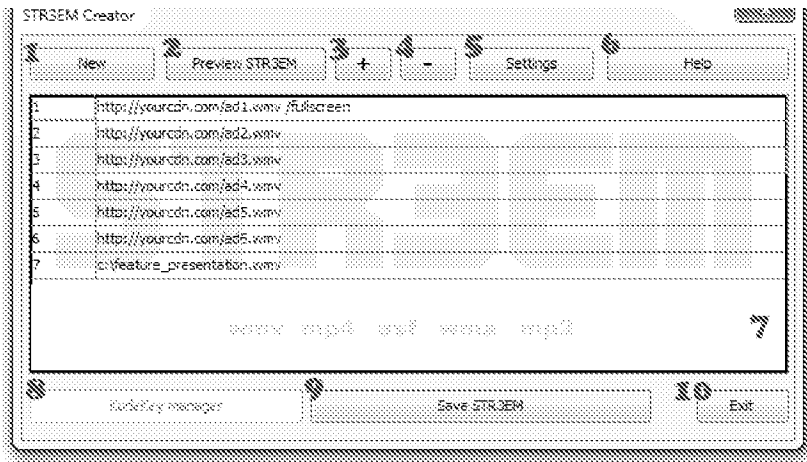
STR3EM Version 1 can accept a mix of HTTPS 1.1 URLs of WMV, WMA, WAV, MOV, or MP3 files for a playback sequence.

HTTPS 1.1 servers such as Amazon's CloudFront allow instant seeking of streaming video and audio in the STR3EM player.

STR3EM version 1 can also accept local files from your hard drive in the playlist for progressive playback.

Version 1 also accepts encrypted media files that can be processed by Windows Media Player.

#### CREATE A STR3EM FILE IN A FEW EASY STEPS:



First, determine how many play items will make up your STR3EM file

Next, press button #3 to add the necessary tracks needed to host your files and URL links.

In section #7, copy and paste URLs or right click on your mouse and select "Add media file" to include files inside your STR3EM file. You can click on a track number in the left column with your mouse and delete it with button #4.

To preview your STR3EM, press button #2 at any time.

When you are done, press button #9 to open the STR3EM options panel and save your file. You can press button #6 for help at any time and press button #10 to exit the application at any time.

Buttons #5 and #8 are reserved for KodeKey License users and more information can be found at: <http://str3em.com/kodekeys/>

#### ACTION FLAGS

STR3EM allows 4 action flags to be added at the end of tracks in the playlist section (#7):

- > Start in full screen mode – add **/fullscreen** to the end of the first track only in the playlist (with a space).
- > Example: c:\yourfile.wmv /fullscreen
- > Skip to video side with "V" key – add **/video** to the end of the desired track you wish to flag as the start of video programming (with a space).

Example: c:\yourfile.wmv /video

Flags can be used together for example: c:\yourfile.wmv /video/fullscreen (Note: the full screen flag should always be last).

- > Skip to audio side with "A" key – add **/audio** to the end of the desired track you wish to flag as the start of audio programming (with a space).

Example: c:\song\_track1.wav /audio

Because STR3EM can hold an unlimited amount of audio and video assets together in a single file, using the /video and /audio tags can be useful to give users an easy shortcut to toggle access between a sequence of movies by pressing the "V" key and a sequence of audio (like a CD soundtrack) by pressing the "A" key. STR3EM will play files back in the order programmed if the shortcuts are never used.

- > Time-out play items – add brackets [ and ] within the file name of a local asset and STR3EM will play it back with seek, forward and back controls disabled. This is similar to start items contained on a DVD before the main feature. Example of a flagged file name is: c:\yourfile[ad1].wmv

Please note: the time-out flag does not work with URL links.

## Go To Step 2 – The STR3EM Options Panel

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EWS-002618

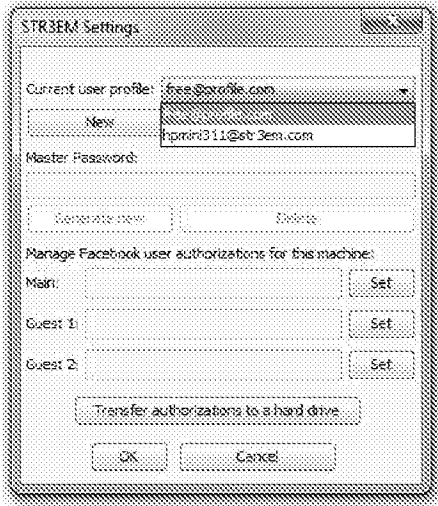


# STR3EM Version 2 (Pro)

Search our website.



## Before You Get Started



**Press the Settings button in the STR3EM Creator to see the current user profile.**

STR3EM can be used for free under the default profile named: free@profile.com. Make sure you use this profile when you want to create free promotional or password protected STR3EM files. STR3EM version 2 files are limited to 1GB in size without a KodeKey license. Once you get a KodeKey license, you can come back to the free profile and create version 2 files larger than 1GB.

When you get a KodeKey license, you will see the email address you used to sign up with in the user profile menu. KodeKey profiles cannot create manually entered password protected files. To create manually created password protected files after getting a KodeKey license, you must go to the setting panel and switch back to the free@profile.com user profile. You can also do this while authoring a STR3EM file.

## STR3EM PROFESSIONAL

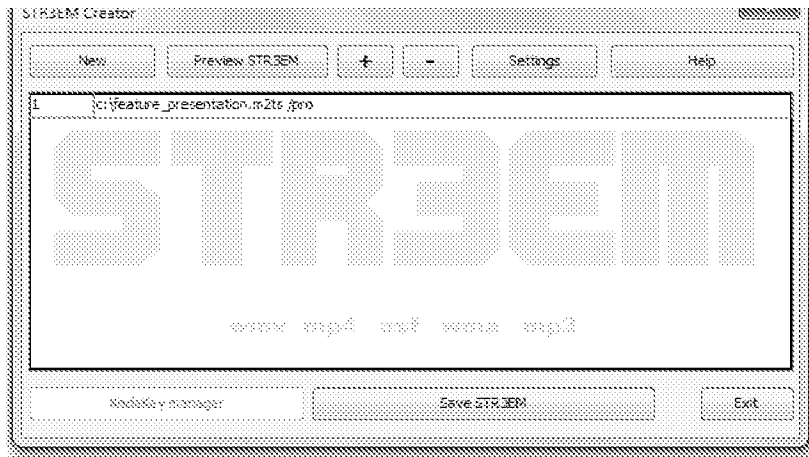
STR3EM Version 2 delivers premium HD video or audio with instant playback seeking. Version 2 should be used for commercial offerings

Accepted Containers: M2TS, MKA, MKV, MP4, and MOV

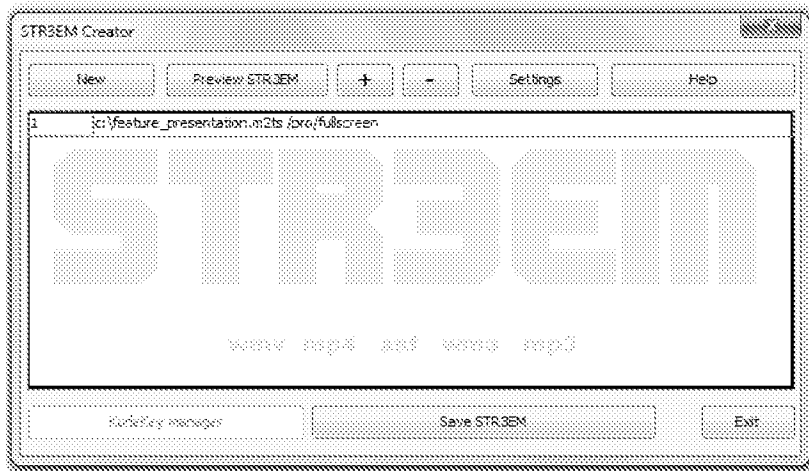
Please see our full-accepted asset specifications [HERE](#).

Insert a local media file and place the tag (with a space) /pro behind it. This should be placed before the /fullscreen flag. Example:

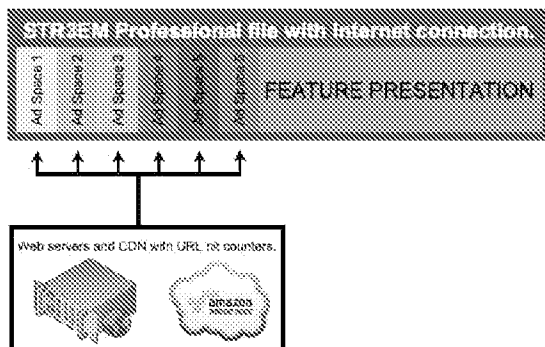
```
c:\feature_presentation.m2ts /pro
```



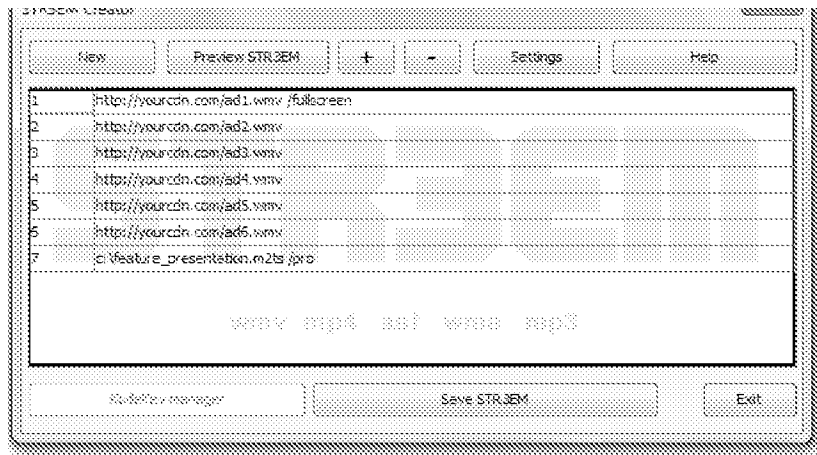
With the /fullscreen flag



Advanced: with pre-show content



You can also deliver internet streaming pre-show content before a feature presentation. Pre-show content can be WMV, MOV, MP3, or WAV. All internet links must reside before the asset with the /pro flag. If you are using the /fullscreen flag, then it must be placed on the very first asset track. Example:



## Go To Step 2 – The STR3EM Options Panel

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## Options Panel

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[Change search](#)

### Authoring STR3EM Files Step 2 – The STR3EM Options Panel

Once you press the "Save STR3EM" button in the STR3EM Creator, you can set your options for the file.

#### Step 1 – Required – Enter the name of the file (field #11):

Enter the name of your STR3EM file in field #11. Please note: STR3EM will not play any files if the name has been changed from the original authoring title

#### Step 2 – Optional (see field #14) – Password protection (field #12):

If you are using the free mode of STR3EM then enter a password in field #12 needed for access.

If you are using a KodeKey License profile, then a Membership KodeKey will be generated for you when you create your first file to use as the Master Password for all of your KodeKey powered files. You can delete and generate a new key in the setting panel at any time. If you do not have the minimum 17 friends Facebook requirement, then you will need to generate a non-Facebook Membership Key in the KodeKey manager panel.

#### Step 3 – Optional - STR3EM Browser (field #13):

If you want to use the STR3EM Browser, enter a URL in field #13. If you link to a Wikipedia.org page, STR3EM will create a .wiki file (not if using Pro mode). Use field #13 to also enter push parameters to a STR3EM Ecosystem network.

[CLICK HERE for more information about sync parameters](#)

#### Step 4 – Optional - Password bypass (field #14):

If you want to bypass the STR3EMAccess Panel, check box #14. Content providers can use this for open distributions, demos, or invoke their own access rights when using DRM encoded Windows Media assets (not if using Pro mode).

#### Step 5 – Optional - Custom branding (field #15):

Press button #15 if you would like to brand the STR3EMAccess Panel with a customized banner and panel header message.

[CLICK HERE for more information about branding](#)

#### Step 6 – Optional - Screener Mode and KKEYCERT flags (field #16):

Selection #16 are reserved for KodeKey License users to flag a file for Screener Mode and KKEYCERT.

[CLICK HERE for more information about Screener Mode](#)

[CLICK HERE for more information about KKEYCERT](#)

#### Step 7 – Optional - Child container (field #17):

Press button #17 if you want to create a "child" file with the same product ID and KodeKey assignments as a previously created STR3EM file. You will be asked to select the "parent" STR3EM file you wish to clone the product ID for.

[CLICK HERE for more information about making Child files](#)

Press button #19 to start the distilling process and save the STR3EM file to your hard drive. You can cancel and close the STR3EM Options Panel at any time by pressing button #19.

When you are done creating your STR3EM file, the STR3EM Creator will clear the playlist to create a new file or you can exit the application.

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## KodeKey Manager

**NOTE:** this feature is now deprecated for use with STR3EM for Windows file formats. Developers and content providers should now use our DAGNUS PaaS API.

**KODEKEY IS INTENDED FOR PROFESSIONAL USERS ONLY. YOU ARE RESPONSIBLE FOR KEEPING UNAUTHORIZED USERS FROM MAKING KODEKEYS ON YOUR SYSTEMS.**

### Activate your KodeKey Rights Locker through Amazon Web Services

Press the "Settings" button in the STR3EM Creator to access the settings panel.

Press the "New" button.

Enter your activation code given to you after you signed up.

Enter a reference email address.

Save your activation code and reference email address in a safe place to activate other computers to use your KodeKey Locker.

The screenshot shows a dialog box titled "STR3EM registration" with a "Close" button in the top right corner. The main content area features the STR3EM logo and the heading "New User Activation". Below this, there are two tabs: "1. Activation" (selected) and "2. Enterprise". Under the "1. Activation" tab, the heading is "Step 1. Service Activation". The instructions read: "Please enter your activation code and a reference e-mail address." There are two input fields: "Enter Your Activation Code:" with a "Sign Up" button to its right, and "\* Enter a reference e-mail address (personal or workgroup):". Below the second field is a note: "\* Required fields". At the bottom of the dialog are "Cancel" and "OK" buttons.

### Activating Additional Machines

Administrators can copy the registry settings of an authorized computer by running regedit and searching for "devpay".

To activate additional computers by generating a new activation key from Amazon, you must log in to [www.amazon.com/dp-applications](http://www.amazon.com/dp-applications) and follow these 3 steps:

Step 1: Press the "Application Activation" tab

Step 2: Press the "Generate Key" link and copy it

Step 3: (IMPORTANT!) click the "Go to Application" link to finalize registration of the temporary activation key

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Quick Desktop Search

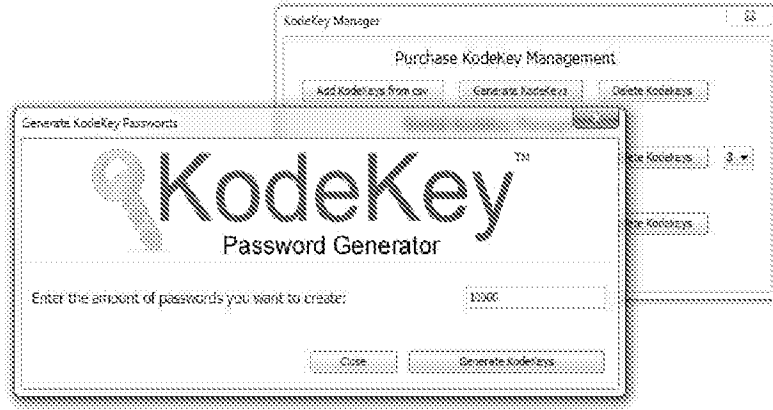
Google search



Press the "Delete KodeKeys" button to select the STR3EM file you want to delete KodeKeys for, and then select the CSV list of KodeKeys you want to void.

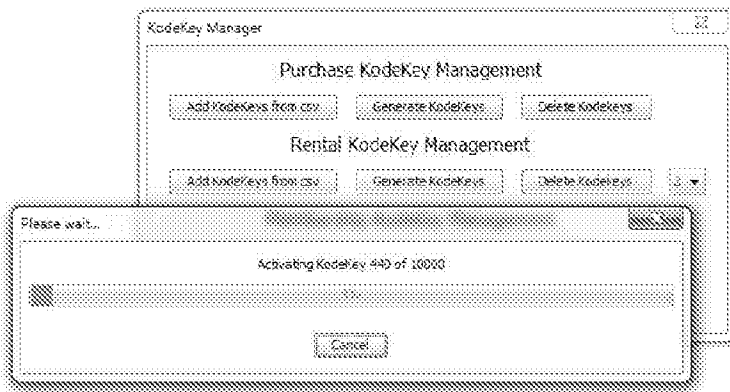
Press the "Add KodeKeys from csv" button to select the STR3EM file you want to import KodeKeys for, and then select a CSV list of KodeKeys that were previously generated for the same or different STR3EM file. This function is useful for offering multiple files as part of a single purchase or replacement.

## Creating and Activating KodeKeys



*PLEASE NOTE: KodeKey activation time average 200K per hour with a 2Mbps upload broadband connection. If your connection is interrupted during the KodeKey activation process, you can reload the CSV file created on your computer to start the process again. You will not be charged double for KodeKeys already activated to your Locker. If you are making a large unit order (like 1 million or more KodeKeys at once) then the application may seem frozen while it creates keys. It is not, please do not interrupt the computer or STR3EM application while KodeKeys are being created to the CSV file.*

Enter the amount of keys you wish to create and press the "Generate KodeKeys" button. Select a location on your hard drive to save the CSV file. It is recommended that you give each list a custom folder and name to gain good management habits. Remember, generating KodeKeys are similar to manufacturing inventory of a physical product and the same proper management practices should be exercised with KodeKeys.



The KodeKey activation monitor will display while keys are added to your server. Do not interrupt the activation process to ensure that all keys are activated. The monitor will verify all keys once activation is complete then close.

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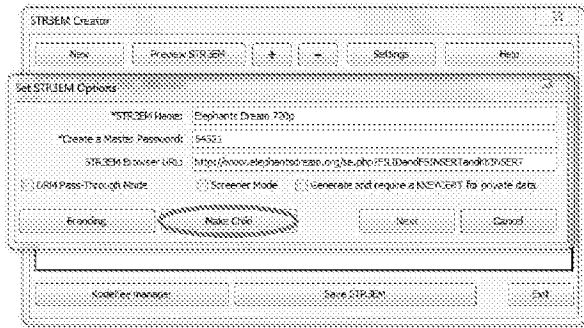


## Child Containers

# STR3EM ECOSYSTEM

Create multiple container and certificate files with the same File ID (also known as Product ID).

When creating a new STR3EM container or certificate file, select the 'Make Child' button and choose a previously created file. The File ID will be copied to the new file created when you press the Next button. Users with KodeKey access to previously made files will have access to child files also. This is useful for content providers distributing STR3EM containers and certificate files for STR3EM SDK applications.



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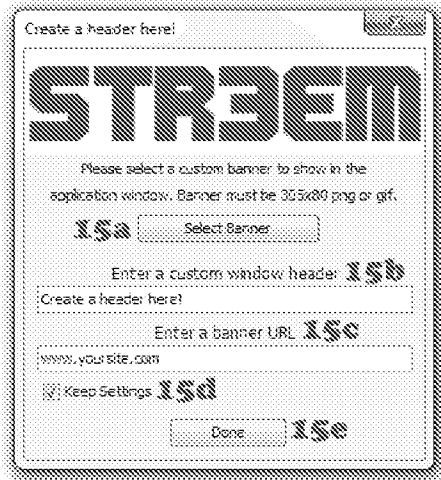
Search input field with placeholder text 'Click to search' and a search button.

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## Branding

Clicking the "Branding" button in the STR3EM Options Panel will open the Branding Panel.



Click button #15a to load a 305X80 pixel PNG, GIF, or Animated GIF file.

Enter a custom header for the Access Panel in field #15b.

Enter a clickable banner URL in field #15c.

If you would like to keep your setting and apply them to every STR3EM file you create, then check box #15d.

When you are done with configuring the Access Panel, press button #15e to return to the STR3EM Options Panel.

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[Click to search](#)



### Ecosystem Sync Parameters

# STR3EM ECOSYSTEM

STR3EM can send URL sync parameters to a web server or a STR3EM Ecosystem powered network.

Using the following flags will push the relevant data parameters in a URL:

**FILEID** - pushes the File ID also known as the Ecosystem Product ID.

**FBINSERT**- pushes the Facebook User ID.

**KKINSERT**- pushes the KodeKey used to redeem the product.

**IMPORTANT:** all 3 parameters must be in **ALL CAPS**.

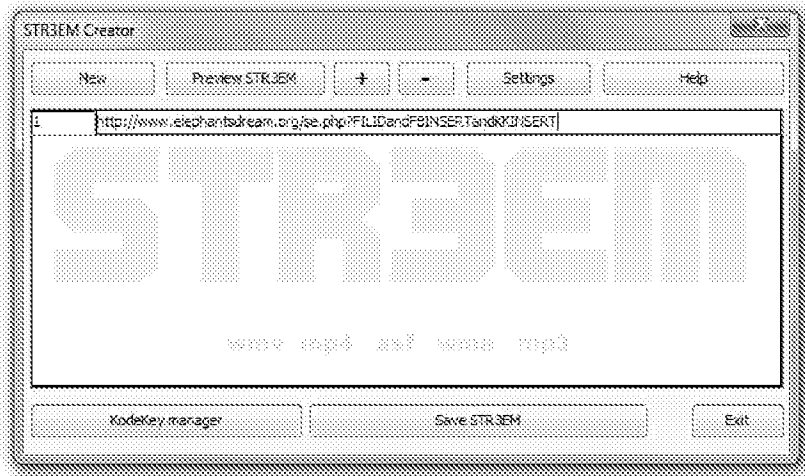
Example:

`http://www.elephantsdream.org/se.php?FILEIDandFBINSERTandKKINSERT`

**NOTE:** you can also use the STR3EM URL push to send an EIDR DOI to a server for sync with 3rd party ecosystems.

In this example, the parameters are sent using the word "and" as a separator. System administrators can configure their capturing scripts in any way. The STR3EM application will insert the appropriate parameters based on the table above. STR3EM Ecosystem network builders should use the same method outlined here to sync parameters to the host node of the network.

### In the STR3EM Creator for Browser Only Mode:



### In the Options Panel for the STR3EM Browser:

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Google search





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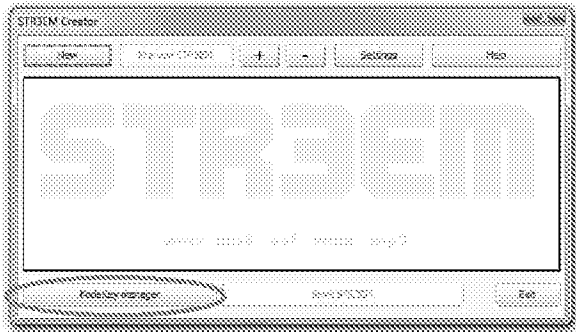
## Find File ID (Product ID)

Search our website.

# STR3EM ECOSYSTEM

Use the File ID of a STR3EM file as the Product ID sync parameter of a STR3EM Ecosystem network. A Kodekey license is required to use this feature.

### Step 1



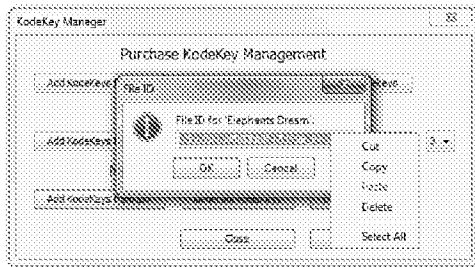
Open the STR3EM application and select the KodeKey Manager.

### Step 2



Select the Find File ID button and choose a STR3EM file created under your registered account.

### Step 3



Copy the File ID and sync it with the Product ID database of your STR3EM Ecosystem network.

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# EXHIBITS SUBSECTION 8C

## **PROOF OF DILIGENCE**

---

Exhibits of this subsection support further evidence of diligence covering critical dates period February 18, 2010 to March 5, 2010, with the preparation of a press release converted from the same information document published for retrieval for the skilled USPTO artisan of Exhibit Subsection 7C. Document presented and received are submitted within this section.

## Convert info in internal document to press release

Elance (ET) 3:24 pm

### Workroom

### Messages

Messages

Payments

Files

Work View™

Status Reports

Terms & Milestones

Proposals

Alerts

Team

More

### Applications



View All

Add Attachment

Post Message

Sender Message | Attachments Date/Time

Filter Messages

Melissa R. My pleasure! Thanks so much. Mar 05, 2010 8:55 pm

william g. This is absolutely great. I will flag as complete and leave a great feedback. Mar 05, 2010 5:19 pm

Melissa R. Hi William, Mar 05, 2010 4:41 pm

I've attached the press release for your review . please let me know if this is what you had in mind, or if any edits/additions are needed.

Best regards,  
Melissa

STR3EM\_PR.doc

william g. Yes, will@str3em.com Feb 19, 2010 11:31 pm

Thanks.

Melissa R. I just entered my bid and time frame. Feb 19, 2010 11:01 pm

Can you please send me your direct email address, just in case Elance is ever unavailable?

Thanks,  
Melissa

william g. Yes, thanks. When you place the bid I will fund the award and fund the escrow account. Feb 19, 2010 10:53 pm

Melissa R. Hi Will, Feb 19, 2010 10:48 pm

Thanks for the info. To compose a thorough, polished press release of 700 words, my fee would be \$125. This includes all necessary research and revisions. Is this within your budget for this project?

Best,  
Melissa

william g. Yes I am handling distribution. I would need it in enough length to get all the relevant information in there and if need be I can edit it per news source for any length issues. Please let me know the scope on writing your piece based on the document and how the product succeeds CD and DVD with it's approach. Feb 19, 2010 9:17 am

I think up to 700 words is healthy for my needs.

Thanks

-Will

People Add

### In Workroom

william ...  
superecd

### Not in Workroom

Melissa ...  
Words\_by\_Melissa  
last login 9 hours ago

### Recent Files

STR3EM\_PR.doc  
STR3EM\_Marketing.pdf

View All | Upload New File

### Workroom Email Address [?]

ET3164073-WR@w orkroom.elance

### Notification Settings [?]

Melissa R. Hello,

Feb 19, 2010  
7:27 am

Thanks for the invitation. I'd be happy to convert your marketing document into a press release. Do you have a target length in mind for the release?

Also, just to confirm, my bid would cover only the writing of the piece, and not distribution.

Best regards,  
Melissa

All times are in EST (UTC-05:00)

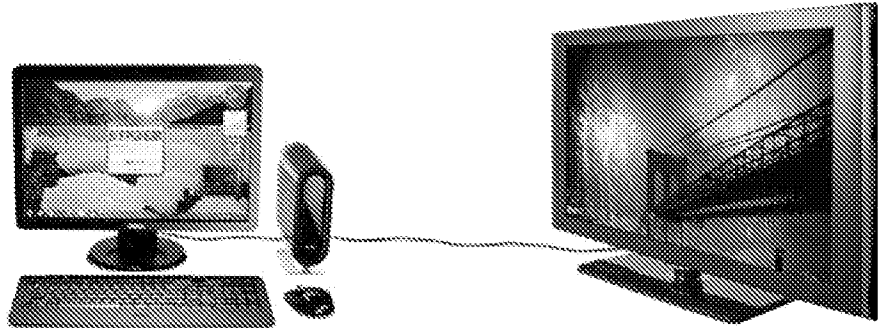
---

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EWS-002634

## Continuing the tradition of optical disc technology to the future of digital delivery.

STR3EM is a proprietary electronic container format that can deliver multiple media assets as a presentation sequence similar to a CD or DVD. Playback can be a mix of media stored inside the container and assets streamed from the internet (HTTP, HTTPS, MMS, RTSP).



The STR3EM Middleware Platform provides an infrastructure for content providers to deliver products to consumers through a distributed application which converts a home computer into a retail entertainment machine. Using a new patent privileged digital rights management system called Personalized Digital Media, consumers can use files on any compatible machine by simply logging in with an electronic ID (such as Facebook).

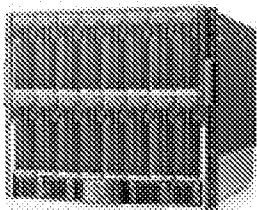
Client demographics range from the motion picture industry, television, pay-per-view, music industry, and higher learning institutions. For government and corporate clients, STR3EM is available in a variety of classified level AES 256-bit encrypted versions.

The STR3EM code-base is constructed using the cross-platform Java programming language and can be customized to work with any machine running the Java Virtual Machine (JVM) runtime. Examples of popular operating systems offering a JVM are Microsoft Windows, Apple Mac, Blu-ray Disc Players, Google Android, and Linux. STR3EM is currently available on the Microsoft Windows platform giving content providers an installed user-base of over 1 billion compatible machines worldwide. Set-top-box and custom machines designed to play STR3EM media offers a great opportunity for licensing with hardware manufactures.

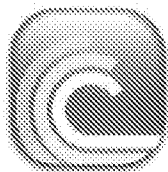
Commercial product inventories are managed with the KodeKey Password System allowing content providers to sell "units" to resellers similar to physical optical media. KodeKey provides access management to STR3EM products by facilitating three types of retail products: 1) Purchase-to-own, 2) 1-7 day rentals, and 3) Memberships.

Automated licensing and royalty payments for content providers worldwide are paid monthly with a credit card through a partnership with Amazon Web Services. Strict royalty enforcement is built in to the STR3EM system by automatically blocking and restoring KodeKey server access to content providers that fail to pay their monthly royalty balance.

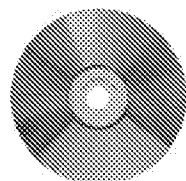
### Compatible format distribution methods:



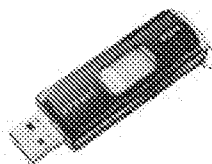
Web Servers and CDN



Bittorrent



Optical Media



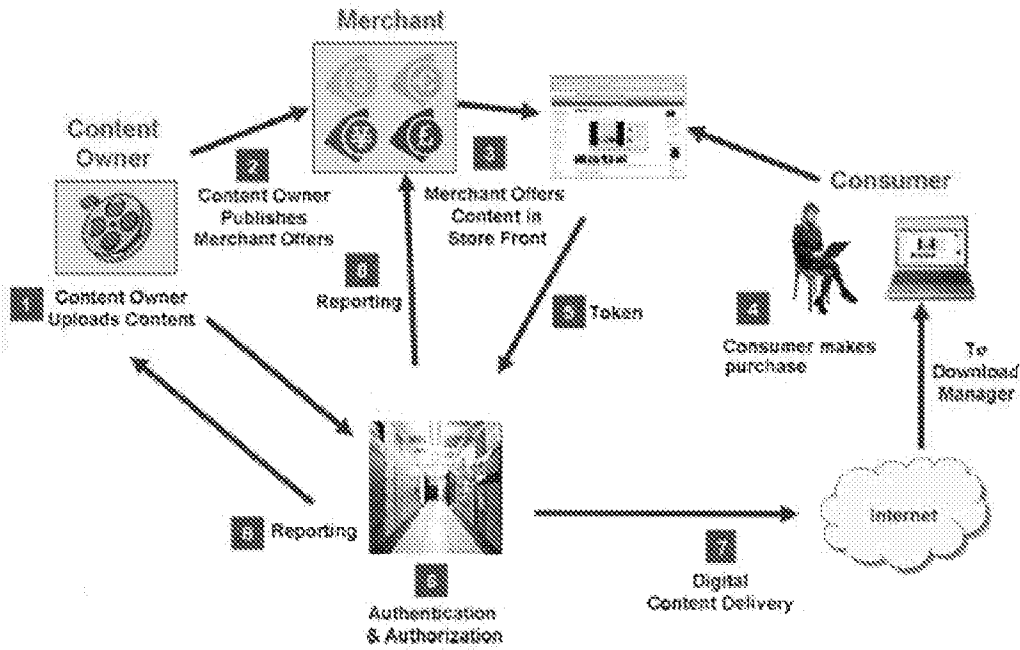
Flash Media

Format Power Points
★1 billion+ compatible machines
★New licensing opportunities
★Patentable digital rights system
★Patentable format infrastructure
★Built-in automated royalty system
★Follows tradition of optical media



igital delivery with the buying power of physical media.

odeKey joins the retail business model of physical media with the power of digital delivery. Content providers can control unit inventories of STR3EM products by generating and selling password lists to retailers. Kodekeys can be voided by a content owner any time.

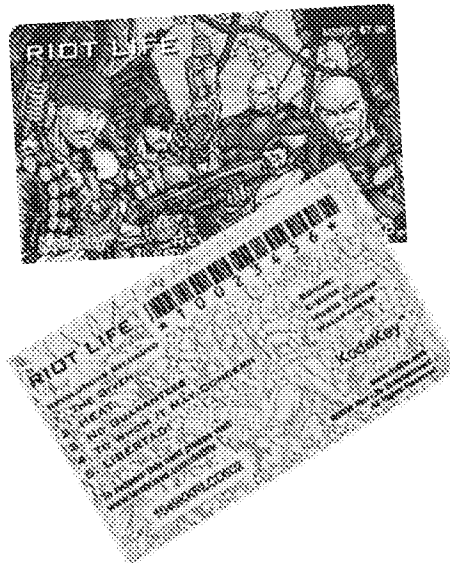


Variable data printing products compatible with KodeKey distribution:

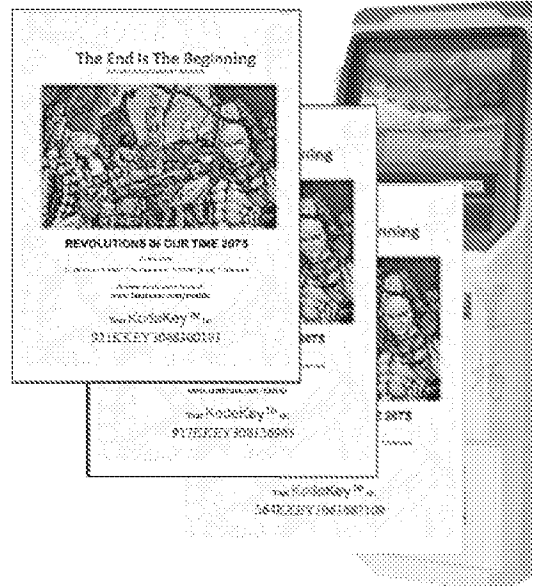
Magazines and newspapers



Retail cards and hangers



Paper printing in-store kiosks



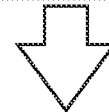
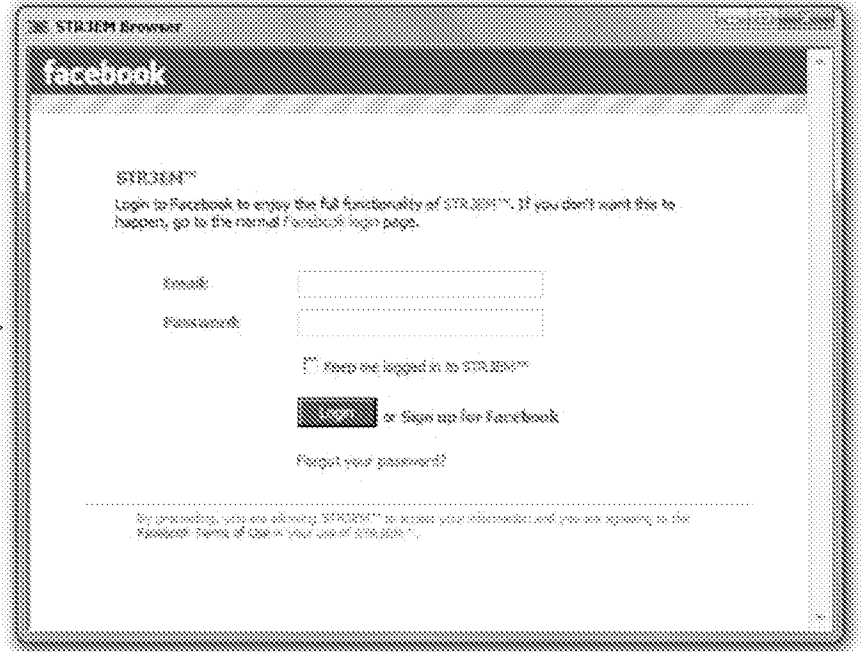
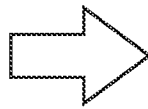
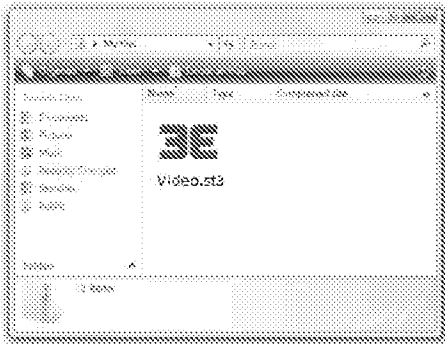
# Patent Privileged: Personalized Digital Media

Products redeemed with a KodeKey are branded with an electronic ID from Facebook. Users can access their STR3EM files on any compatible machine without restrictions. Users can share files with their Facebook friends after 90 days just as they would with a CD or DVD.



## Step 2 - users sign-in to Facebook or auto with cookie.

### Step 1 - users open files



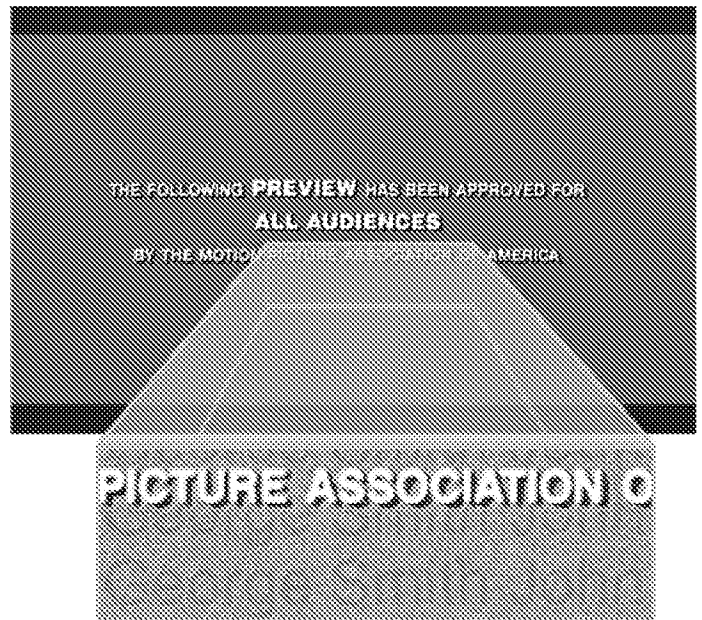
### Step 3 - files open and play instantly on any machine that accepts STR3EM media.





## SCREENER Mode

Screeener Mode provides a secure playback environment for sensitive and classified video. Only friends listed in the content provider's Facebook account can access STR3EM files in Screeener Mode. Upon playback, the user's name is watermarked on the video window and only a single mouse click to the top or bottom of the video window can close it. Screeener Mode will only operate in full screen view and users are encouraged to auto hide the task bar to gain full view. All keyboard functions are disabled while in Screeener Mode.



# KKEYCERT

Password Certificate  
1,344,000-bit



For highly sensitive material, we offer an option to create super strong 1,344,000-bit key certificates.

Users are required to load a KKEYCERT before material can be accessed after entering a Master Password or KodeKey Password. A unique certificate can be generated with each new STR3EM created.

## IP Preview

The personalized digital media IP has been reduced to practice in the STR3EM Windows application since December 2009 on Cnet's download.com. Patent documentation is currently in draft and this property has until December 2, 2011 to file any PCT patent applications under the 1 year rights rule. The next 3 pages will show the 3 figures associated with a current patent draft.

Figure 1 - personalized digital rights management component as part of an encrypted media asset scheme with writable metadata. Figure 1 represents a redemption and branding sequence.

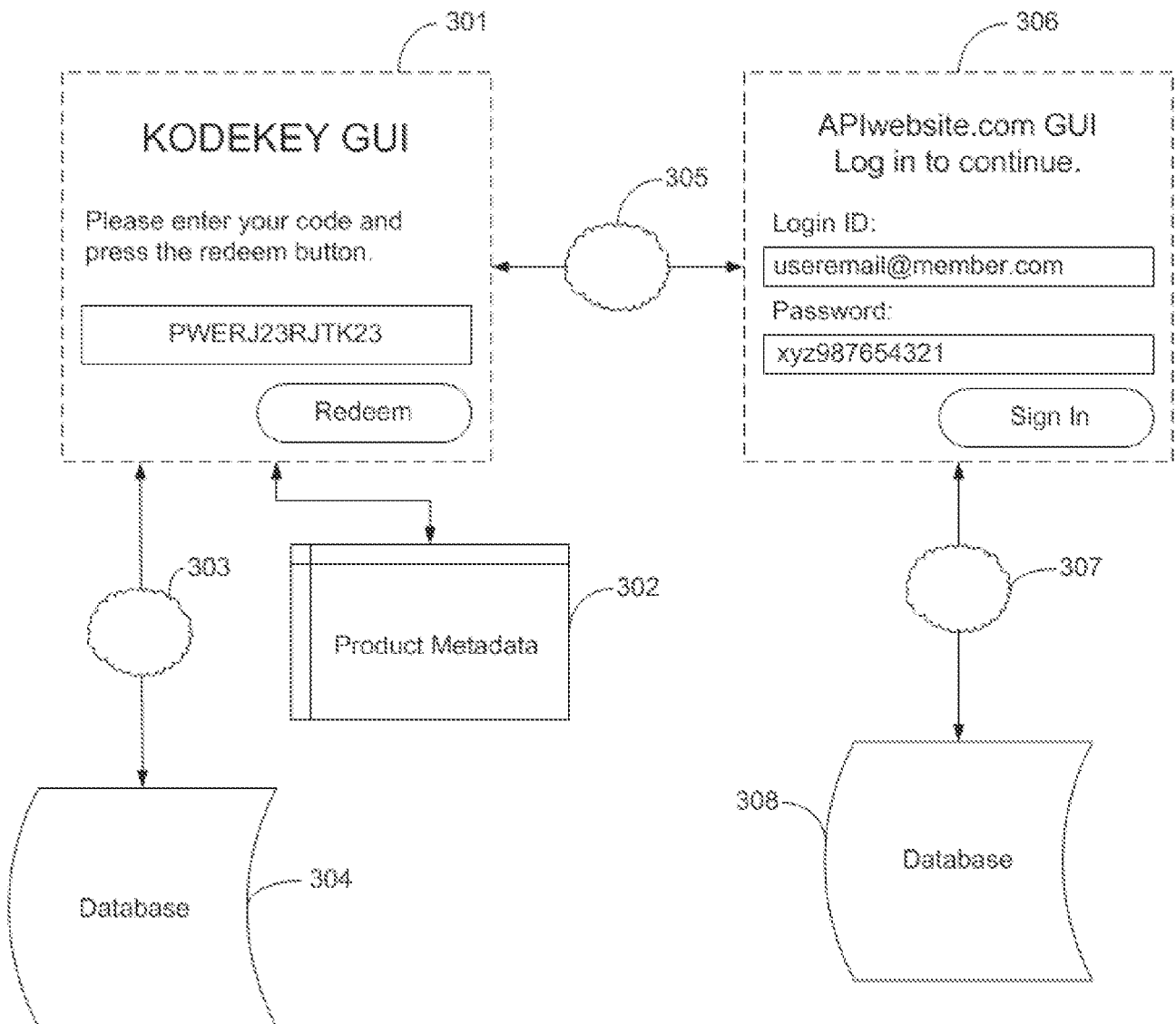


Figure 2 - personalized digital rights management component as part of an encrypted media asset scheme with writable metadata. Figure 2 represents an open request in which an authorization sequence action is executed of a file in which the redemption and branding scheme has taken place.

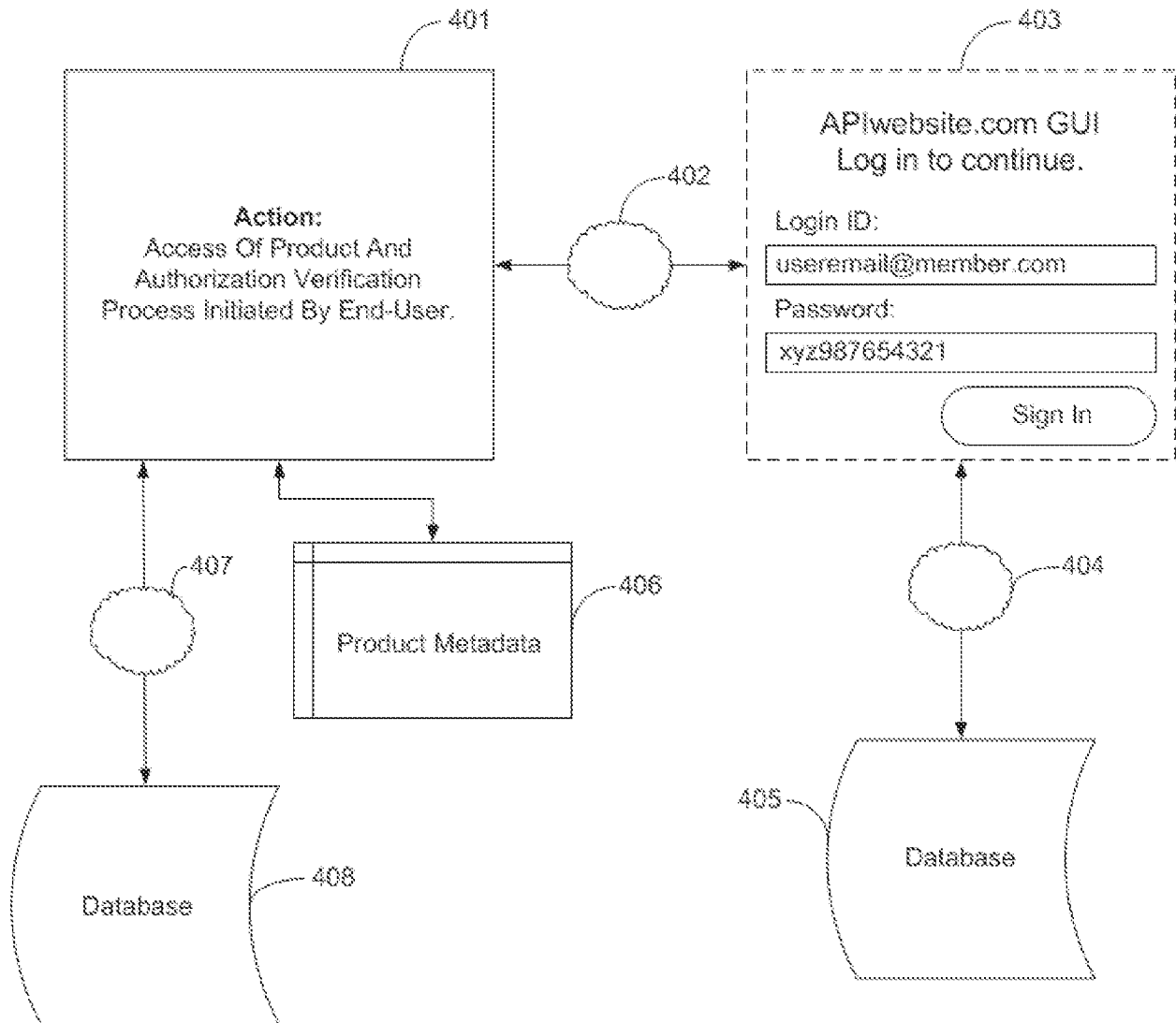
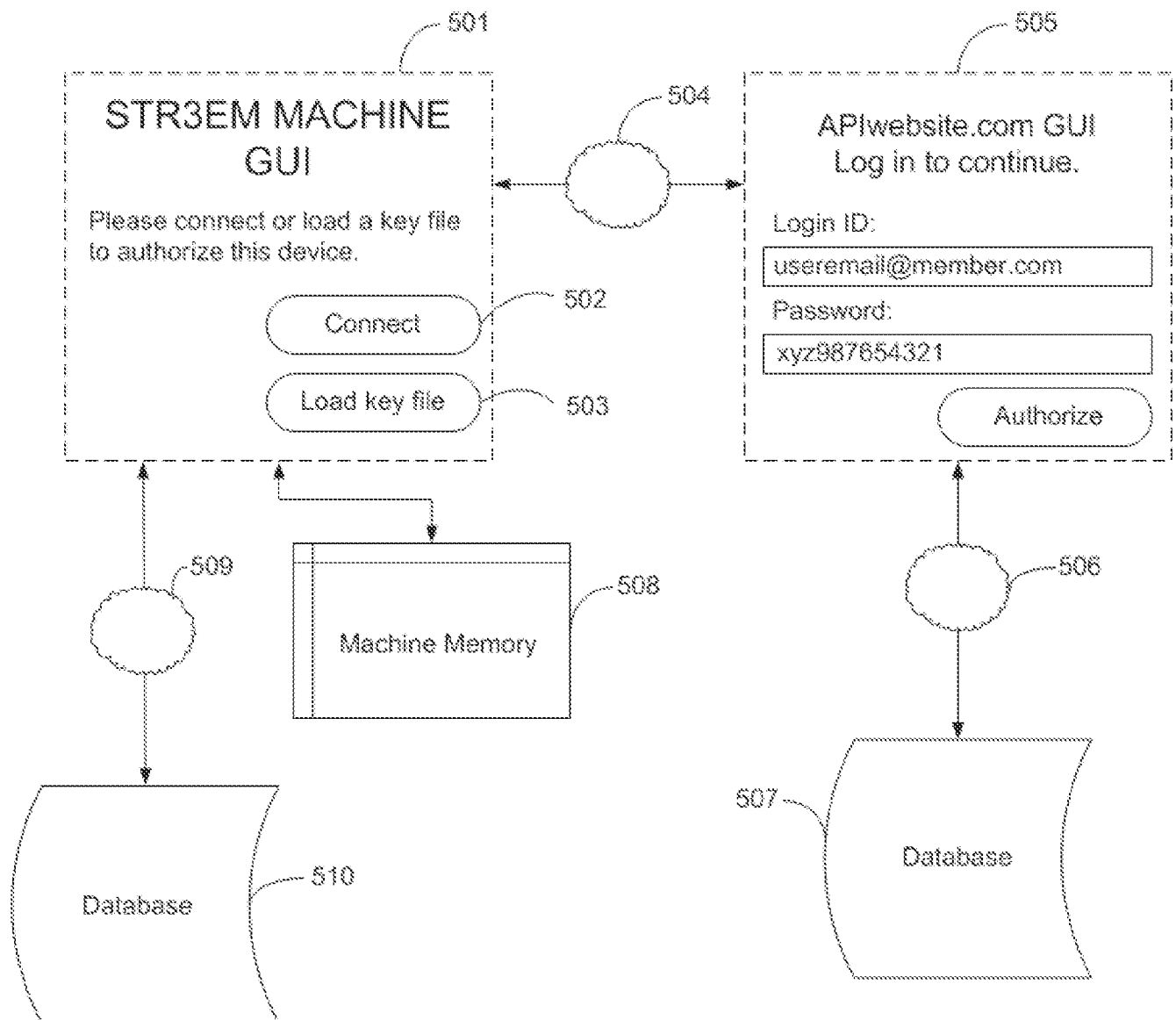
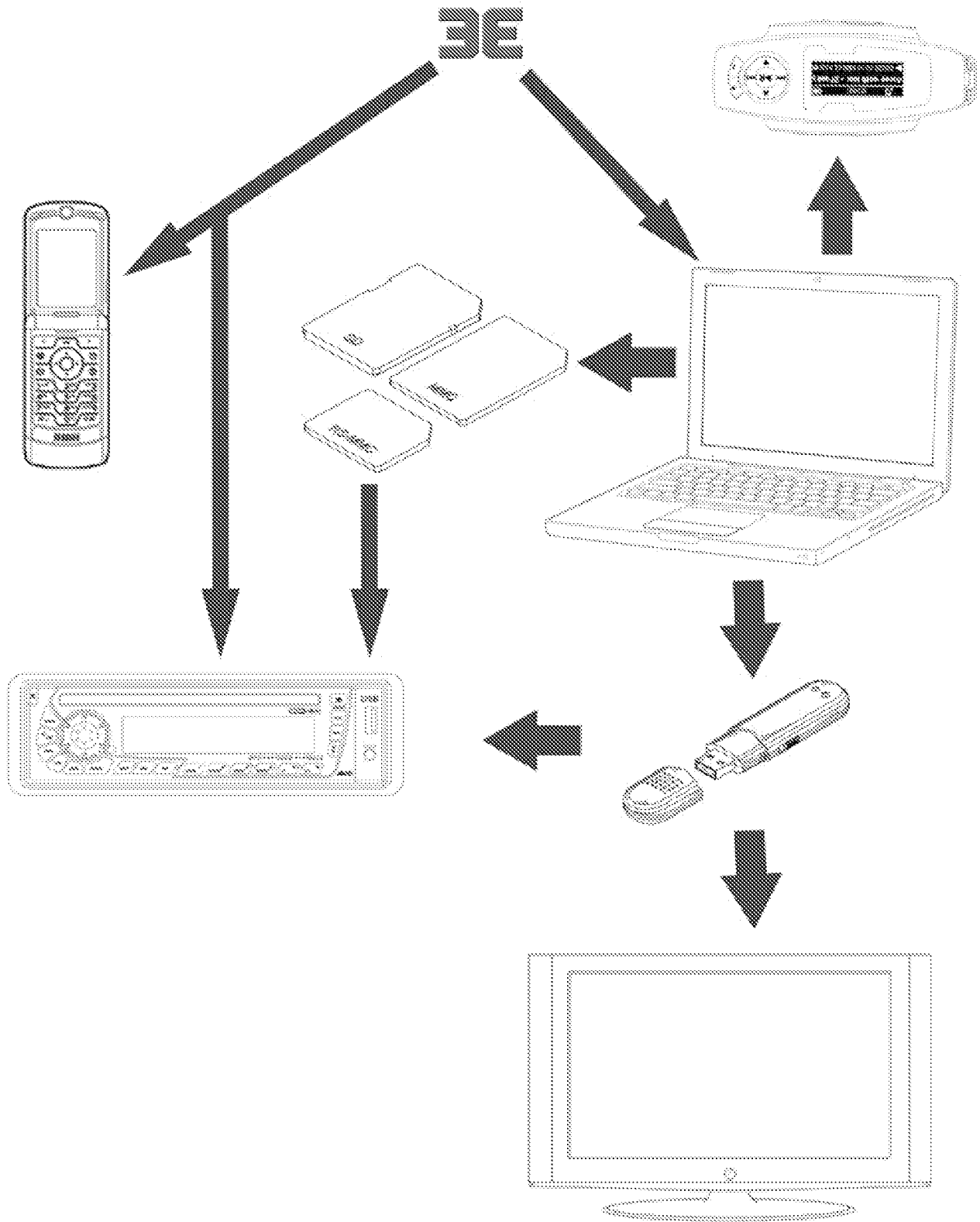


Figure 3 - personalized digital rights management component as part of a compatible machine with writable static memory. Figure 3 represents an authorization sequence action in which a machine is authorized to accept a personalized digital media file. Traditional DRM methods embed an authorization key inside a circuit of compatible machines at the time of manufacturing, here, our method requires authorization by an end-user according to their electronic ID.



# Consumer Electronics Development Outlook



## **Next Generation Digital Delivery STR3EM Replaces DVD and Blu-Ray**

*STR3EM's installed user base of over 1 billion machines worldwide presents exciting opportunities for content providers*

STR3EM, a proprietary electronic container utilizing the Windows 7 platform, presents exciting opportunities for global content providers. Designed to work with any machine running the Java Virtual Machine (JVM) and currently available on Microsoft Windows, STR3EM nets a distribution platform of over 1 billion compatible machines worldwide.

Following in the tradition of optical media, STR3EM features a built-in automated royalty system, as well as a patentable digital rights system and format infrastructure. In addition, an influx of set-top-box and custom machines designed to play STR3EM media presents expanded opportunities for licensing with hardware manufacturers.

Utilizing an application that converts a home computer into a retail entertainment machine, STR3EM allows content owners to distribute video and music products in a single file, offering a quality and presentation sequence similar to a retail CD or DVD. Consumers can access files on any compatible machine simply by logging in with an electronic ID.

Compatible format distribution methods include:

- Web Servers and CDN
- Bittorrent
- Optical Media
- Flash Media

In addition to a patented commercial streaming file format with applications in the motion picture and music industries, television, pay-per-view, and higher education, STR3EM is available in a variety of classified level AES 256-bit encrypted versions to protect classified data for governments and corporations.

A KodeKey Password System allows content providers to control unit inventories by generating and selling password lists to retailers, and presents the opportunity to sell "units" of physical optical disc product. KodeKey provides strict royalty enforcement, with billing and cancellation managed completely by Amazon Web Services. This solution provides access management to STR3EM products by facilitating three types of retail products:

- 1) Purchase-to-own
- 2) 1-7 day rentals
- 3) Memberships

Variable data printing products that are compatible with KodeKey distribution include magazines and newspapers, retail cards and hangers, and paper printing in-store kiosks.

Products redeemed with a KodeKey are branded with an electronic ID from Facebook. Like CDs and DVDs, they can be shared with Facebook friends after 90 days. For sensitive and classified video, a Screener Mode provides a secure playback environment by only providing access only to friends listed in the content provider's Facebook account. Upon playback, the user's name is watermarked on the video window, and only a single mouse click to the top or bottom of the video window can close it. Screener Mode disables all keyboard functions and will only operate in full-screen view.

For highly sensitive material, STR3EM offers super-strong 1,344,000-bit key certificates. With KKEYCERT Password Certificates, users are required to load a KKEYCERT before material can be accessed after entering a Master Password. With each new STR3EM created, a unique certificate can be generated.

Since December 2009, CNET's download.com has reduced to practice the personalized digital media IP in the STR3EM Windows application. Patent documentation is currently in draft, and this property has until December 2, 2011 to file any patent applications. The current patent draft includes personalized digital rights management as part of an encrypted media asset scheme with writable data, and personalized digital rights management as part of a compatible machine with writable static memory. For a diagram of each authorization sequence, please visit [www.str3em.com](http://www.str3em.com).

### **About STR3EM**

STR3EM offers a proprietary, format-free electronic container for use by anyone in the world. The premier delivery platform provides content owners with flexibility in controlling content delivery, and provides consumers with state-of-the-art presentation. The parent company, LAMbCast Ltd, is privately held and headquartered in New York, USA. To learn more, visit [www.str3em.com](http://www.str3em.com).

###

# Additional Validation Requested

## **VALIDATION REQUESTED FROM HOST OF EVIDENCE**

---

Applicant submits a screen copy of a request sent to Mr. Jon Vincent, Elance Performance Supervisor, for a letter of validation of evidence submitted as part of this 1.131 submission. Documents received by the application after the filing of this declaration shall be appended by way of a letter transmittal through EFS-Web.



To: Elance Help Center

From: william.greca

Re: [Elance Help Center] Re: Need Legal Records (ticket #685948)

December 13, 2012, 12:57 PM

Hi Jon:

Thanks for the prompt reply for help..

Can I get a letter from Elance that verifies the information from page 41 to the end of the PDF attached is authentic and unmodified from my account "superecd" from archived job messages and files uploaded so I can submit with an 1.131 affidavit with my patent application.

I can accept said validation letter through email as I need to file this asap thanks if you can.

Bid IDs needed for validation as per the document are 1) 19194073, and 2) 19194091

From: Elance Help Center <support@elance.com>

To: superecd <cs.2cd@yahoo.com>

Sent: Friday, December 14, 2012 5:12 PM

Subject: [Elance Help Center] Re: Need Legal Records (ticket #685948)

Hi Jon, In reply to your above this has been added to the ticket #685948

Ticket #685948: Need Legal Records

Jon, Dec 14 02:12 pm (PST):

Good afternoon,

My name is Jon Vincent and I manage the Performance Process at Elance; we understand you are seeking written documentation corroborating that a project transpired and was paid for on the Elance platform. In order to facilitate that request we need an explanation of what is required, etc and we will make every appropriate effort to comply.

Jon Vincent

Elance Performance Supervisor

Anne, Dec 14 11:59 am (PST):

Agent Created

This email is a service from Elance Help Center

Attention To The Commissioner Of Patents:

TRANSMITTAL LETTER 12-16-2010

Applicant is resubmitting the 1.131 declaration submitted on 12/15/2012 with the copy submitted today 12/16/2012 to correct sizing issues and offer a better version for reading clarity from the EFS conversion.

/William grecia/

William Grecia

Applicant Pro Se

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	14480479
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	16-DEC-2012
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	14:01:27
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Rule 130, 131 or 132 Affidavits	1131MACconv2.pdf	12535924 <small>42ae574ca5c9249864ed1ecc65ce3ca368028ec0</small>	no	169

### Warnings:

### Information:

EWS-002648

2	Transmittal Letter	trasmit12162012e.pdf	37409 8223b5aef4ea392efc3565a4f4a48e356f83 c575	no	1
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**Warnings:**

**Information:**

<b>Total Files Size (in bytes):</b>	12573333
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**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		13397517	
	Filing Date		2012-02-15	
	First Named Inventor	William Grecia		
	Art Unit	2494		
	Examiner Name	TRAN, TRI MINH		
	Attorney Docket Number			

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20120130903		2012-03-24	Dorsey; Jack	
	2	20120095916		2012-04-19	Dorsey; Jack	
	3	20120095906		2012-04-19	Dorsey; Jack	
	4	20120095871		2012-04-19	Dorsey; Jack	
	5	20120310828		2012-12-06	Hu; Qilin	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	13397517
Filing Date	2012-02-15
First Named Inventor	William Grecia
Art Unit	2494
Examiner Name	TRAN, TRI MINH
Attorney Docket Number	

6	20120296741		2012-11-22	DYKES; Robert	
7	20120290376		2012-11-15	Dryer; Trevor D.	
8	20120041829		2012-02-16	Rothschild; Keith Alan	
9	20120173333		2012-07-05	Berger; Richard	
10	20120173625		2012-07-05	Berger; Richard	

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**FOREIGN PATENT DOCUMENTS**

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Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> ;	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
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**NON-PATENT LITERATURE DOCUMENTS**

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1		<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button [Add](#)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	13397517
Filing Date	2012-02-15
First Named Inventor	William Grecia
Art Unit	2494
Examiner Name	TRAN, TRI MINH
Attorney Docket Number	

**EXAMINER SIGNATURE**

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	13397517
Filing Date	2012-02-15
First Named Inventor	William Grecia
Art Unit	2494
Examiner Name	TRAN, TRI MINH
Attorney Docket Number	

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/william grecia/	Date (YYYY-MM-DD)	2012-12-16
Name/Print	William Grecia	Registration Number	70984

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**



## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	14480623
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	16-DEC-2012
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	18:32:05
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	ids_12-16-2012.pdf	612444 <small>f559af26842a2441a4f3159dfbf22493040db e9e</small>	no	5

### Warnings:

### Information:

EWS-002655

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number	13397517
	Filing Date	2012-02-15
	First Named Inventor	William Grecia
	Art Unit	2494
	Examiner Name	TRAN, TRI MINH
	Attorney Docket Number	

U.S.PATENTS							Remove
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	
	1	8280959		2012-10-02	Zuckerberg; Mark		
	2	8250145		2012-08-21	Zuckerberg; Mark		
If you wish to add additional U.S. Patent citation information please click the Add button.							Add
U.S.PATENT APPLICATION PUBLICATIONS							Remove
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	
	1	20120166333		2012-06-28	von Behren; Rob		
	2	20120173431		2012-07-05	Ritchie; Ben		
	3	20120255033		2012-10-04	Dwivedi; Sanjeev		
	4	20120191553		2012-07-26	Sathe; Nikhil S		

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	13397517
Filing Date	2012-02-15
First Named Inventor	William Grecia
Art Unit	2494
Examiner Name	TRAN, TRI MINH
Attorney Docket Number	

5	20110320345		2011-12-29	Taveau; Sebastien	
6	20110313898		2011-12-22	Singhal; Nitesh	
7	20120150727		2012-06-14	Nuzzi; Frank Anthony	
8	20120079095		2012-03-29	Evans; Ethan	
9	20120079126		2012-03-29	Evans; Ethan	
10	20120079276		2012-03-29	Evans; Ethan	
11	20120079606		2012-03-29	Evans; Ethan	
12	20120254340		2012-10-04	Velummylum; Piragash	
13	20110208695		2011-08-25	Anand; Siddharth	

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Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> ;	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		13397517	
	Filing Date		2012-02-15	
	First Named Inventor	William Grecia		
	Art Unit		2494	
	Examiner Name	TRAN, TRI MINH		
	Attorney Docket Number			

	1							<input type="checkbox"/>
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**NON-PATENT LITERATURE DOCUMENTS**

**Remove**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1		<input type="checkbox"/>

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**EXAMINER SIGNATURE**

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	13397517
Filing Date	2012-02-15
First Named Inventor	William Grecia
Art Unit	2494
Examiner Name	TRAN, TRI MINH
Attorney Docket Number	

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/william grecia/	Date (YYYY-MM-DD)	2012-12-15
Name/Print	William Grecia	Registration Number	70984

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	14479999
<b>Application Number:</b>	13397517
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	6106
<b>Title of Invention:</b>	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
<b>First Named Inventor/Applicant Name:</b>	William Grecia
<b>Customer Number:</b>	70984
<b>Filer:</b>	William Grecia
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	B7-1
<b>Receipt Date:</b>	15-DEC-2012
<b>Filing Date:</b>	15-FEB-2012
<b>Time Stamp:</b>	12:26:58
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	RCE_IDS-g.pdf	612687 <small>1ab06959fe40fd9dce6b4b04d1b4156b53e9ce80</small>	no	5

### Warnings:

### Information:

EWS-002662

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:  
William Grecia  
Application No.: 13/397,517  
Filed: February 15, 2012  
For: PERSONALIZED DIGITAL MEDIA  
ACCESS SYSTEM (PDMAS)

Examiner: Tran, Tri Minh  
Art Unit: 2494  
CNF# 6106

Assistant Commissioner for Patents  
P. O. Box 1450  
Alexandria VA, 22313-1450

DECLARATION UNDER 37 CFR Section 1.131

Sir:

I, William Grecia, declare that I am the inventor for the above-identified patent application and that I conceived and practiced proper diligence in the United States the invention claimed in the above-identified patent application prior to February 23, 2010, the filing date for the cited U.S. provisional patent application No. 61/307,196 to Baiya. Attached Exhibits A-C are copies of evidence supporting this declaration by way of inventor's own U.S. provisional patent application No. 61/303,292 filed on February 10, 2010 and computer screen copies of evidence of daily diligence covering the critical dates of February 10, 2010 to March 21, 2010, with March 21, 2010 being the date of constructive reduction to practice with the filing of my parent case, U.S. patent application No. 12/728,218, for which the above-identified case claims the priority benefit date.

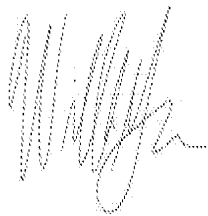
Pursuant to this conception and proper diligence, I actually reduced to constructive practice in the United States, the invention claimed in the above-identified patent application approximately

11 months and 2 days (or 339 days) prior to February 23, 2011, the filing date and reduction to constructive practice of the cited Baiya non-provisional patent application.

Exhibits A-C, which relate to the aforementioned conception, proper diligence, and constructive reduction to practice, correspond to the invention disclosed and claimed in the above-identified patent application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully Submitted,  
William Grecia (Inventor)

A handwritten signature in black ink, appearing to read "William Grecia", is positioned below the typed name. The signature is fluid and cursive.

# EXHIBIT A

## CONTINUING ENGINEERING DILIGENCE

---

Exhibit A is a screenshot of the applicant's STR3EM software project published on Cnet's download.com with a publication time stamp of December 9, 2009. Continuing engineering diligence was in progress to update STR3EM software to 2.0 moving into the date of February 10, 2010 when said diligence formed the necessary knowledge of the invention to move to conception with the written disclosure submitted to the USPTO as a provisional application on February 10, 2010, the beginning date for which proof of diligence is being provided.



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# STR3EM specifications

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**DVD Software** [General](#)

**Video Capture Software** [Publisher LAMCast](#)

**Video Software** [Publisher web site <http://www.str3em.com/>](#)

**Video Editing Software** [R release date December 09, 2009 November 20, 2010](#)

**Video Players** [Date added](#)

**Video Publishing & Streaming** [Version 2.3.2](#)

**Category**

**Category** [Video Software](#)

**Subcategory** [Video Players](#)

## System requirements

**Operating systems** [Windows 7, Windows 2003, Windows Vista, Windows XP, Windows Server 2008](#)

**Additional requirements** [Java Runtime Environment 1.6, Haaal Media Splitter, AC3Filter](#)

## Download information

**File size** [11.64 MB](#)

**File name** [STR3EM-Setup\\_2.3.2.zip](#)

## Popularity

**Total Downloads** [3,468](#)

**Downloads last week** [14](#)

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**License model** [Free](#)

**Limitations** [Not available](#)

**Price** [Not available](#)



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EXHIBIT A

# EXHIBIT B

## CONCEPTION ESTABLISHED WITH PROVISIONAL FILING OF #61/303,292

---

Exhibit B is a copy of the EFS Filing receipt dated February 10, 2010 for U.S. provisional application 61/303,292. - See: MPEP 2138.04 SECTION IV - 35 U.S.C. 102(g)



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office  
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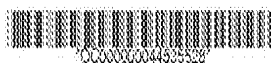
APPLICATION NUMBER	CLASS & FILING DATE	PRE-ART KEY	REL. PRIORITY	APP. CHECKSUM	TOT. CLAIMS	IND. CLAIMS
61/303,292	02/10/2010		135			

CONFIRMATION NO. 4747

UPDATED FILING RECEIPT

70904

The STREAM Team  
2885 Sanford Ave SW #13209  
Grandville, MI 49418



Date Mailed: 11/18/2010

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

Applicant(s)

William Gracia, Brooklyn, NY;

Power of Attorney: None

If Required, Foreign Filing License Granted: 03/03/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/303,292**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

\*\* SMALL ENTITY \*\*

Title

EXHIBIT B

PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process simplifies the filing of patent applications on the same invention in member countries, but does not result in a grant of "an international



patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopilakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-989-HALT (1-866-999-4158).

**LICENSE FOR FOREIGN FILING UNDER      EXHIBIT B**  
**Title 35, United States Code, Section 184**

**Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

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Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

## EXHIBIT B

To: cs20d@yahoo.com,sa.cs20d@gmail.com,hally5@aol.com  
From: PAIR\_eOfficeAction@uspto.gov  
Cc: PAIR\_eOfficeAction@uspto.gov  
Subject: Private PAIR Correspondence Notification for Customer Number 70984

Nov 18, 2010 05:49:13 AM

Dear PAIR Customer:

## EXHIBIT B

The STRSEM Team  
2885 Sanford Ave SW #13208  
Grandville, MI 49418  
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 70984, have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

#### Disclaimer:

The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No
61303292	APP FILE REC	11/18/2010	

To view your correspondence online or update your email addresses, please visit us anytime at <https://portal.uspto.gov/secure/myportal/privatepair>.

If you have any questions, please email the Electronic Business Center (EBC) at [EBC@uspto.gov](mailto:EBC@uspto.gov) with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 8:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice.

UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

EWS-002672

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**PROVISIONAL APPLICATION FOR PATENT COVER SHEET - Page 1 of 2**

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.50(a).

Express Mail Label No. \_\_\_\_\_

INVENTOR(S)		
Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)
William	Gracia	Brooklyn, NY
Additional inventors are being named on the _____ separately numbered sheets attached hereto.		
<b>TITLE OF THE INVENTION (500 characters max):</b>		
PERSONLIZED DIGITAL MEDIA ACCESS SYSTEM		
<b>EXHIBIT B</b>		
Direct all correspondence to: <b>CORRESPONDENCE ADDRESS</b>		
<input checked="" type="checkbox"/> The address corresponding to Customer Number: <span style="border: 1px solid black; padding: 2px;">70984</span>		
OR		
<input type="checkbox"/> Firm or Individual Name		
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City	State	Zip
Country	Telephone	Email
<b>ENCLOSED APPLICATION PARTS (check all that apply):</b>		
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.26.		
<input type="checkbox"/> CD(s). Number of CD's _____		
<input checked="" type="checkbox"/> Drawing(s). Number of Sheets <u>3</u>		
<input type="checkbox"/> Other (specify) _____		
<input checked="" type="checkbox"/> Specification (e.g. description of the invention). Number of Pages <u>24</u>		
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Page 2 of 2

PTO/SR/16 (12-98)

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SIGNATURE: /William Grecia/ Date: 03/05/2010

TYPED or PRINTED NAME: William Grecia REGISTRATION NO.: \_\_\_\_\_  
(if appropriate)

TELEPHONE: (212) 372-0293 Docket Number: \_\_\_\_\_

EXHIBIT B

EWS-002674

# EXHIBIT B

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Application Number:	61303292			
Filing Date:	10-Feb-2010			
Title of Invention:	PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM  <b>EXHIBIT B</b>			
First Named Inventor/Applicant Name:	William Grecla			
Filer:	William Grecla			
Attorney Docket Number:				
Filed as Small Entity				
<b>Provisional Filing Fees</b>				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous Filing:				
Late provisional filing fee/covers sheet	2052	1	25	25
Petition:				
Patent Appeals and Interference:				
Post-Allowance and Post-Issuance:				
Extension of Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				25

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## Electronic Acknowledgement Receipt

EPS ID:	7176539
Application Number:	61303292
International Application Number:	
Confirmation Number:	4747
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM  <b>EXHIBIT B</b>
First Named Inventor/Applicant Name:	William Grecla
Customer Number:	70964
Filer:	William Grecla
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	10-MAR-2010
Filing Date:	16-FEB-2010
Time Stamp:	08:04:03
Application Type:	Provisional

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EWS-002678

1	Provisional Cover Sheet (SB16)	sb0016.pdf	273758	no	3
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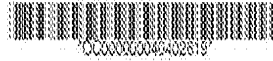
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APPLICATION NUMBER	CLASS & FILING DATE	PRE-ART UNIT	REL. PRIORITY	APPL. CHECKLIST NO.	TOTAL CLAIMS	IND. CLAIMS
61/303,292	02/10/2010		110			

CONFIRMATION NO. 4747

FILING RECEIPT

70904  
William Grecia  
932 East 79th Street  
Brooklyn, NY 11236



Date Mailed: 03/05/2010

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Applicant(s)

William Grecia, Residence Not Provided;

Power of Attorney: None

If Required, Foreign Filing License Granted: 03/03/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/303,292**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

\*\* SMALL ENTITY \*\*

Title

PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM

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PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

EWS-002685



## PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM

INVENTOR: WILLIAM GRECIA

Abstract

## EXHIBIT B

The invention is an apparatus that facilitates access to encrypted digital media to accept verification and authentication from an excelsior enabler using at least one token and at least one electronic identification. The said at least one electronic identification could be a device serial number, a networking MAC address, or a membership ID reference from a web service. Access to the product is also managed with a plurality of secondary enablers using the said at least one electronic identification reference. In one embodiment, the invention is a process that in accordance with said apparatus is used to handle writable metadata of encrypted digital media to identify and manage requests from a plurality of said enablers. In a second embodiment, the invention may include a plurality of support tokens to satisfy authenticity requests which may include an alternative version of the said at least one verification token. In yet another embodiment, said apparatus can require additional status requirements from said plurality of said enablers relationship with said web service before allowing decrypted access. In a third embodiment, the said at least one verification token and said plurality of support tokens can host using a HTTP PUT calculation scheme to pay royalties to the apparatus

provider.

## BACKGROUND OF THE INVENTION

# EXHIBIT B

### 1. Field of the Invention

The invention presented in this document relates to the field of digital rights management schemes used by creators of electronic products to protect commercial intellectual property copyrights privy to illegal copying using computerized devices. The invention contained here teaches a more personal system of digital rights management in which the electronic ID as part of a web service membership can be used to manage access rights across a plurality of devices. The invention is particularly useful for giving users the freedom to use products outside of the device in which the product was acquired and extend unlimited interoperability with other compatible devices.

### 2. Description of Related Art

Digital rights management (DRM) is a generic term for access control technologies that can be used by hardware manufacturers, publishers, copyright holders and individuals to impose limitations on the usage of digital content and devices. The term is used to describe any technology that inhibits uses (legitimate or otherwise) of digital content that were not desired or foreseen by the content provider. The term generally doesn't

refer to other forms of copy protection that can be circumvented without modifying the file or device, such as serial numbers or key files. It can also refer to restrictions associated with specific instances of digital works or devices.

## EXHIBIT B

Consumer entertainment industries are in the transition of delivering products on physical media such as CD and DVD to Internet delivered systems. The Compact Disc, introduced to the public in 1982, was initially designed as a proprietary system offering strict media to player compatibility. As the popularity of home computers and CD-ROM drives rose, so did the availability of CD ripping applications to make local copies of music to be enjoyed without the use of the disc. After a while, users found ways to share digital versions of music in the form of MP3 files that could be easily shared with family and friends over the Internet. The DVD format introduced in 1997 included a new apparatus for optical discs technology with embedded copy protection schemes also recognized as an early form of DRM. With internet delivered music and video files, DRM schemes has been developed to lock acquired media to specific machines and most times limiting playback rights to a single machine or among a limited number of multiple machines regardless if the model number is the same or not. Writing the machine device ID to the metadata of the media file, then cross referencing with a trusted clearinghouse according to pre-set rules does this.

DRM systems employed by DVD and CD technologies consisted of

## EXHIBIT B

scrambling (also known as encryption) disc sectors in a pattern to which hardware developed to unscramble (also known as decryption) said disc sectors are required for playback. DRM systems built into operating systems such as Microsoft Windows Vista block viewing of media when an unsigned software application is running to prevent unauthorized copying of a media asset during playback. DRM used in computer games such as SecuROM and Steam are used to limit the amount of times a user can install a game on a machine. DRM schemes for e-books include embedding credit card information and other personal information inside the metadata area of a delivered file format and restricting the compatibility of the file with a limited number of reader devices and computer applications.

In a typical DRM system, a product is encrypted using Symmetric block ciphers such as DES and AES to provide high levels of security. Ciphers known as asymmetric or public key/private key systems are used to manage access to encrypted products. In asymmetric systems the key used to encrypt a product is not the same as that used to decrypt it. If a product has been encrypted using one key of a pair it cannot be decrypted even by someone else who has that key. Only the matching key of the pair can be used for decryption. After receiving an authorization token from a first-use action are usually triggers to decrypt block ciphers in most DRM systems. Use rights and restrictions are established during this first-use action with the corresponding hosting device of a DRM protected product.

Examples of such prior DRM art include Hurtado (U.S. Pat. No. 6,611,812) who described a digital rights management system, where upon request to access digital content, encryption and decryption keys are exchanged and managed with use of an authenticity clearing house. Other examples include Alve (U.S. Pat. No. 7,568,111) who teaches a DRM and Tuoriniemi (U.S. Pat. No. 20090164776) who described a management scheme to control access to electronic content by recording use across a plurality of trustworthy devices that has been granted permission to work within the scheme.

## EXHIBIT B

DRM schemes have proven unpopular with consumers and rights organizations that oppose the complications with compatibility across machines manufactured by different companies. Reasons given to DRM opposition range from limited device playback restrictions to the loss of fair-use which defines the freedom to share media products with family members.

Prior art DRM methods rely on content providers to maintain computer servers to receive and send session authorization keys to client computers with an Internet connection. Usually rights are given from the server for an amount of time or amount of access actions before a requirement to reconnect with the server is required for reauthorization. At times, content providers will discontinue servers or even go out of business some years after DRM encrypted content was sold to consumers causing the ability

to access files to terminate.

A solution is needed to give consumers the unlimited interoperability between devices and "fair use" sharing partners for an infinite time frame while protecting commercial digital media from unlicensed distribution to sustain long-term return of investments.

## BRIEF SUMMARY OF THE INVENTION      **EXHIBIT B**

The current state of DRM measures are not satisfactory because unavoidable issues can arise such as hardware failure or property theft that could lead to a paying customer losing the right to recover purchased products. The current metadata writable DRM measures do not offer a way to provide unlimited interoperability between unlimited machines because this theory goes against the very reason why traditional DRM exist.

The invention describes an improvement on prior art DRM methods in which allows unlimited interoperability of digital media between unlimited machines with management of end-user access to said digital media.

In one embodiment, the invention is a process of an apparatus which in accordance with an embodiment, another apparatus, tangible computer medium, or associated methods (herein referred to as The App) is used to: handle at least one branding

## EXHIBIT B

action which could include post read and write requests of at least one writable metadata as part of at least one digital media asset to identify and manage requests from at least one excelsior enabler, and can further identify and manage requests from a plurality of connected second enablers; with at least one token and at least one electronic identification reference received from said at least one excelsior enabler utilizing at least one membership. Here, controlled by the said at least one excelsior enabler, The App will proceed to receive the said at least one token to verify the authenticity of said branding action and further requests; then establish at least one connection with at least one programmable communications console of the said at least one membership to request and receive the said at least one electronic identification reference; and could request and receive other data information from said at least one membership. The method then involves sending and receiving variable data information from The App to the said at least one membership to verify a preexisting said at least one branding action of said at least one writable metadata as part of said at least one digital media asset; or to establish permission or denial to execute said at least one branding action or said post read and write requests of said at least one writable metadata. To do this, controlled by the said at least one excelsior enabler. The App may establish at least one connection, which is usually through the Internet, with a programmable communications console, which is usually a combination of an API protocol and graphic user interface (GUI) as part of a web service. In addition, the

said at least one excelsior enabler provides reestablished credentials to the programmable communications console as part of the said at least one membership, in which The App is facilitating and monitoring, to authenticate the data communications session used to send and receive data requests between the said at least one membership and The App.

## BRIEF DESCRIPTION OF THE DRAWINGS **EXHIBIT B**

FIG. 1 shows a flow chart giving an overview of the process of digital media personalization by way of an enabler using an apparatus or otherwise known as an application in which facilitates digital media files. Here the apparatus interacts with all communicative parts required to fulfill the actions of the invention.

FIG. 2 shows a flow chart giving an overview of the process of an access request made by an enabler and subsequently checks communicative parts to cross-reference information stored in the metadata of the digital media asset which has been previously handled by the process of FIG. 1.

## DETAILED DESCRIPTION OF THE INVENTION

Traditional digital rights management (DRM) schemes are defined as authentication components added to digital files that have been encrypted from public access. Encryption schemes are



not DRM methods but DRM systems are implemented to use an additional layer of authentication in which permission is granted for access to the cipher key required to decrypt files for access. A computer server is established to host decryption keys and to accept authentication keys from Internet connected client computers running client software in which handles the encrypted files. The server can administer different authorization keys back to the client computer that can grant different sets of rules and a time frame granted before the client is required to connect with the server to reauthorize access permissions. In some cases content can terminate access after a set amount of time, or the process can break if the provider of the DRM server ever cease to offer services.

## EXHIBIT B

Encrypted digital files as referred to in this document can comprise: video files, audio files, container formats, documents, metadata as part of video game software and other computer based apparatus in which processed data is facilitated.

The novelty of the invention is in the interest of providing infinite access rights of legally acquired at least one encrypted digital media asset to the content acquirer, explained in this document as the excelsior enabler, and optionally to their recognized friends and family, explained in this document as a plurality of secondary enablers. To explain further, the excelsior and secondary enablers defined could be human beings or computerized mechanisms programmed to process steps of the

invention as would normally be done manually by a human being. In addition to said enablers, an apparatus used alone or in accordance with an embodiment, another apparatus, tangible computer medium, or associated methods with a connection are needed (herein referred to as The App). To deliver the requirements of the invention, communicative and connected elements comprise: verification, authentication, electronic ID metadata branding, additional technical branding, and cross-referencing. The connection handling the communicative actions of the invention will usually be the Internet and can also be an internal apparatus cooperative. The App can further be defined as a Windows OS, Apple OS, Linux OS, and other operating systems hosting software running on a machine or device with a capable CPU, memory, and data storage. The App can be even further defined as a system on a chip (SOC), embedded silicon, flash memory, programmable circuits, cloud computing and runtimes, and other systems of automated processes.

## EXHIBIT B

The digital media assets used in this system are encrypted usually with an AES cipher and decryption keys are usually stored encoded, no encoded, encrypted, or no encrypted as part of the apparatus or as part of a connection usually an Internet server. As explained earlier, the system we will discuss will work as a front-end to encrypted files as an authorization agent for decrypted access.

The verification element of this invention is facilitated by at least

## EXHIBIT B

one token handled by at least one excelsior enabler. A token can be a structured or random password, e-mail address associated with a e-commerce payment system (such as PayPal, Amazon Payments, and other credit card services) used to make an authorization payment, or other redeemable instruments of trade for access rights of digital media. Usually, an identifier for said digital media is stored in a database with another database of a list of associated tokens for cross-reference identification to use with the said verification element. The said database of a list of associated tokens can be comprised of Instant Payment Notification (IPN) received from successful financial e-commerce transactions that includes the identifier for said digital media; import of CSV password lists, and manually created reference phrases. For this discussion, the said structured or random password example will be used as reference. Said structured or random passwords can be devised in encoded schemes to flag the apparatus of permission type such as: 1) Purchases can start a password sequence with "P" following a random number, so further example would be "PS1D42349MFJDF". 2) Rentals can start or end a password sequence with "R" plus (+) the number of days a rental is allowed, for example "R7" included in "R7S1DHFG58473" flagging a seven day rental. 3) Memberships can start or end a password sequence with "M" plus (+) optionally the length of months valid for example "M11DFJGH34KF" would flag an eleven-month membership period. The tokens of this invention could be stored in a relational database such as MySQL or Oracle but will teach a more robust

## EXHIBIT 8

and long-term method. Cloud storage systems such as Amazon's Web Services Simple Storage Solution, or also known as S3, provides a highly available worldwide replicated infrastructure. In addition to S3, monetization offerings such as DevPay offer developers the opportunity to make money from applications developed to use the services. The verification element defined in this disclosure will reference to said S3 and DevPay services for example purposes only as many options such as FTP, SimpleDB, solid state storage and others can be used to host the token hosting needed for the verification element of this invention. The term "verification element" used in explanation of the at least one token required for this invention is because the token represents permission from the content provider to grant access rights to the excelsior enabler and thereafter the plurality of secondary enablers. To set up the verification element the content provider can manually or automatically generate a single or a plurality of structured or random password in which will represent the token. By using public or private access of S3 as part of an apparatus, the content provider can create empty text files giving each the name of the passwords generated. Because S3 is associated with a highly available worldwide infrastructure, to check this password token can be done by simply constructing a HTTP request from the apparatus and triggering follow up actions based on either a 200 HTTP response, which means OK at which point the next action can happen, or a 400 HTTP response which means ERROR at which point the verification process is voided. An additional token can be used to provide a flag to the

## EXHIBIT 8

apparatus that the verification element has been fulfilled for a initial verification token. Creating an alternate version of the first token by appending a reference to the end, for example, does this: "M11DFJGH34KF\_user@str3em.com\_01\_01\_11". In this example, it is defined that the eleven month authorized membership token was verified by a user@str3em.com on January 1, 2011. By providing a second token, the first token becomes locked to ownership by the excelsior enabler preventing unauthorized users from reusing the first token without providing the authentication associated with the alternative referenced second token. In the interest of providers of the apparatus delivering this invention, this document will teach a method of a HTTP PUT calculation scheme for automatic royalty billing and administration for the token element used in the invention.

Amazon's DevPay allow developers to attach monetary charges to data services of 53 offered as an embedded component of said apparatus. By using the "PUT" requests parameter, tokens generated by the apparatus are monitored, calculated, and charged to clients of said apparatus provider. For example: the default charge measure for DevPay is \$0.05 for every 1000 PUT request. By changing the amount to \$1.00 for every 1000 PUT requests, the apparatus provider is paid a \$0.10 royalty for each token created. Content providers using a connected apparatus like DevPay to deliver and manage digital media distribution do not need to have restrictions on the tokens created as with prior art DRM key providers as DevPay is charged on a pay-as-you need model on a monthly basis. As a novelty to the apparatus

## EXHIBIT B

provider, if a content provider fails to pay royalties due, the DevPay hosting will automatically deny token access to all related media products in distribution and restore this verification element when royalties are paid in full. This relieves the need of physical reprimand as with prior art DRM in which delinquent accounts are subject to human auditing processes.

The authentication element of this invention is at least handled first by the said at least one excelsior enabler with a connection to a membership. In this disclosure, the connection is equal to the Internet and the membership is equal to a web service. Further, the web service must be available for two way data exchange to complete the authentication process of this invention. Data exchange with a web service is usually facilitated with a programmable communications console, at most times, will be an Applications Programmable Interface (API). An API is a set of routines, data structures, object classes, and/or protocols provided by libraries and/or operating system services in order to support the building of applications. An API may be language-dependent: that is, available only in a particular programming language, using the particular syntax and elements of the programming language to make the API convenient to use in this particular context. Alternatively an API may be language-independent: that is, written in a way that means it can be called from several programming languages (typically an assembly/C-level interface). This is a desired feature for a service-style API that is not bound to a particular process or system and is

## EXHIBIT B

available as a remote procedure call. A more detailed description of API that can be used for an apparatus can be found in the book, "Professional Web APIs with PHP: eBay, Google, Paypal, Amazon, FedEx plus Web Feeds", by Paul Reinheimer, Wrox publishers (2006). A program apparatus, scripts, often calls these APIs or sections of code residing on user computerized devices. For example, a web browser running on a user computer, cell phone, or other device can download a section of JavaScript or other code from a web server, and then use this code to in turn interact with the API of a remote Internet server system as desired. A Graphic User Interface (GUI) can be installed for human interaction or processes can be preprogrammed in a programmable script such as PHP, ASP.Net, Java, Ruby on Rails and others. The authentication element of the invention is usually embedded as a process of the apparatus but could be linked dynamically. In this document, the embedded version using a GUI will be used as reference. The web service equipped with the API is usually a well-known membership themed application in which the users must use an authentic identification. Some example includes Facebook in which as a rule, members are required to use their legal name identities. A reference number or name with the Facebook Platform API represents this information. Other verified web services in which real member names are required such as the LinkedIn API and the PayPal API and even others could be used, but for this discussion, Facebook will be used only as an example of how the authentication element of the invention is utilized. The Facebook

API system, as well as others, operates based on an access authentication system called from a connected apparatus (which is usually an Internet powered desktop or browser based application) with an API Key, an Application Secret Key and could also include an Application ID. For example, the Facebook API Application Keys required to establish a data exchange session with said connected apparatus might look like:

## EXHIBIT B

API Key

37a925fc5ee9b4752af981b9a30e9a73gh

Application Secret

f2a2d92ef395cce88eb0261d4b4gsa782

Application ID

51920566446

Said collective API keys are usually embedded in the source code of the apparatus, or stored on a remote Internet server, and could be included in the said encrypted digital media metadata and inserted on-the-fly into calls made to the said API from the said connected apparatus. This allows dynamic API connection of said apparatus using keys issued to individual content providers so in the event of a reprimand of a single said individual content provider by the API provider, the collective said individual content providers and said enablers of said connected apparatus are not affected.



## EXHIBIT B

Upon an access request of said digital media, the said excelsior enabler interacts with the apparatus, usually a software or web application, to enter membership credentials in a GUI front-end connected to said API. Said membership credentials are usually comprised of a login element comprising a name, phrase, or e-mail address, and a secret password. Said credentials can be generated by the enabler or automatically generated by the web service. Once the enabler authenticates their identity with said membership, the apparatus facilitating the data communication can request relevant information to fulfill the process chain of the invention. For example, Facebook API Platform defines members as ID numbers, so if a member's real name is John Doe, then Facebook API ID (also programmatically known as the FBID) would be 39485678. Once the enabler successfully sign in to the GUI element then the apparatus will query the API for at least one electronic identification reference, in this discussion is the FBID. The FBID is received to the permanent or temporary memory of the apparatus to sustain the branding and cross-referencing requirements of the invention. Additional information can be requested according to membership status or connected "friends" of said enabler. Additional information can be made required for successful authentication and includes: a minimum amount of total friends, a minimum amount of female friends, a minimum amount of male friends, a minimum amount of available pictures, a minimum age limit and other custom rules can be defined by the apparatus. An example of how this would

work is a content provider can define a minimum of 32 Facebook friends are required to access an encrypted digital media asset offered for sale or promotion. This is achieved by the apparatus handling a access request in which the enabler has not yet acquired access rights by executing and parsing information returned by the Facebook "Friends.get" API command.

XML return example of the Facebook "Friends.get" API command where a plurality of FBID are returned to the apparatus for parsing additional information as may be required to satisfy said successful authentication:

## EXHIBIT B

```
<?xml version="1.0" encoding="UTF-8"?>
<friends_get_response xmlns="http://api.facebook.com/1.0/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://api.facebook.com/1.0/
http://api.facebook.com/1.0/facebook.xsd" list="true">
  <uid>222333</uid>
  <uid>1240079</uid>
</friends_get_response>
```

When authenticating a compatible device or machine which may not have access to a connection for said authentication element, a key file or part of said metadata thereof could be made on another connected compatible device or machine and allow said enabler to execute said Friends.get API command to collect and store the complete list of a plurality of FBID to said key file or said metadata thereof. Said compatible device or machine which

may not have access to a connection for said authentication element with an embedded interaction console, usually a user GUI, can request and load said key file or part of said metadata thereof to save said complete list of a plurality of electronic identification references, in this discussion is reference as said FBID, to storage or metadata as part of said compatible device or machine. This step ensures the cross-referencing element requirement of the invention can take place in the event the said connection for the said authentication element is not present in the said compatible device or machine.

## EXHIBIT B

Another example is a content provider can allow shared access to friends of the excelsior enabler after a time period, like for example, 90 days. After the said 90 day period, when media access is requested using said authentication element by a plurality of secondary enablers, which are usually friends and family of the excelsior enabler, the FBID of the excelsior enabler is cross-referenced with the FBID of the requesting secondary enabler by way of said apparatus ability to execute the Facebook "Friends.areFriends" API command.

XML return example of the Facebook "Friends.areFriends" API command where FBID 2223322 and 2222333 are friends and FBID 1240077 and 1240079 are not friends:

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<friends_areFriends_response
```

```
xmlns=http://api.facebook.com/1.0/
```

```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance
xsi:schemaLocation="http://api.facebook.com/1.0/
http://api.facebook.com/1.0/facebook.xsd" list="true">
<friend_info>
<uid1>222332</uid1> <uid2>222333</uid2>
<are_friends>1</are_friends>
</friend_info>
<friend_info>
<uid1>1240077</uid1> <uid2>1240079</uid2>
<are_friends>0</are_friends>
</friend_info>
</friends_areFriends_response>
```

## EXHIBIT B

Such usability can be important to sustain "fair use" rights of consumers of said digital media to emulate usability found with physical media products such as CD and DVD that can be loaned to friends and family after an inception grace period.

Once the information of the verification and authentication elements is acquired, the apparatus handles the next process of writing said information to said digital media metadata and can include additional information gathered from components of The App. Components of The App can include MAC address from a networking card, CRC checksum of an embedded file or circuit, SOC identifier, embedded serial number, OS version, web browser version, and many other identifiable components as part of The App. For this discussion, the MAC address from a

## EXHIBIT B

networking card as part of The App will be used as reference of a secondary electronic identification reference. In computer networking, a Media Access Control address (MAC address) is a unique identifier assigned to most network adapters or network interface cards (NICs) by the manufacturer for identification, and used in the Media Access Control protocol sub-layer. If assigned by the manufacturer, a MAC address usually encodes the manufacturer's registered identification number. It may also be known as an Ethernet Hardware Address (EHA), hardware address, adapter address, or physical address. The novelty of embedding the MAC address along with the FBID of said excelsior enabler is to provide a plurality of electronic identification references in which cross-referencing actions can allow more rapid access to be granted with less interaction from an enabler. For example, to retrieve the FBID from Facebook to cross-reference with the FBID stored in said digital media metadata requires the enabler to possibly physically need to enter their login and password credentials to the GUI connected to the apparatus. It may be possible that web browser cookies allow automatic Facebook login by storing an active session key, but the session key is not guaranteed to be active at the time of an access request. While said enabler may not have an issue executing another authentication command, several remote operations could exist to control authentication and access requests separately from each other. The apparatus can execute a programmable retrieval command, usually a GET command, to locate and retrieve the MAC address from an attached or

## EXHIBIT B

connected networking card. After the FBID is acquired, the MAC address is also acquired to write said a plurality of electronic identifications to the metadata of said at least one encrypted digital media asset by; obtaining the decryption key to decrypt said encrypted digital media asset which is usually stored encoded, no encoded, encrypted, or no encrypted as part of the apparatus or as part of a connected source, usually an Internet server with an encrypted HTTPS protocol. A plurality of MAC addresses can be stored along with the FBID of the excelsior enabler to manage access rights across a plurality of devices. To understand metadata and the uses, metadata is defined simply as to "describe other data". It provides information about certain item's content. For example, an image may include metadata that describes how large the picture is, the color depth, the image resolution, when the image was created, and other data. A text document's metadata may contain information about how long the document is, who the author is, when the document was written, and a short summary of the document. Web pages often include metadata in the form of Meta tags. Description and keywords Meta tags are commonly used to describe the Web page's content. Most search engines use this data when adding pages to their search index. In the invention, the FBID and MAC addresses are written to the said digital media asset metadata to prepare for the instant or delayed cross-referencing element of the invention. The same process of writing said information to the said digital media metadata is true with secondary enablers allowing the same benefits of cross-referencing.

## EXHIBIT B

Cross-referencing, the last element of the invention is used to verify access rights of an enabler of a pre or post personalized encrypted digital media asset. Once an enabler executes an action for access request, the apparatus will obtain said decryption key to first seek the MAC address record. If the MAC address is found, then a cross-reference process is executed by comparing the MAC address retrieved from the metadata of the said digital media file with the MAC address retrieved from the networking card connected to the apparatus or The App. If the comparison action proves to be true, then access rights are granted to the enabler. If the comparison fails, then the apparatus can either ask the enabler to participate in communication with the said authentication element of the invention, or could deny further interactivity with said enabler. In this discussion, the apparatus requires the enabler to participate in communication with the said authentication element to provide credentials to establish a cross-reference comparison with the FBID retrieved from said metadata and the FBID retrieved from the Facebook API. If the comparison action proves to be true, then access rights is granted to the excelsior enabler and the current MAC address of the networking card as part of The App is appended to the metadata of said encrypted digital media asset and access rights is granted to the excelsior enabler. If the said FBID cross-reference fails, then the apparatus can either ask the potential secondary enabler to participate in communication with the said authentication element of the invention, or could deny

## EXHIBIT B

further interactivity with said potential secondary enabler. In this discussion, the apparatus requires the potential secondary enabler to participate in communication with the said authentication element to provide credentials to establish a cross-reference comparison with the FBID retrieved from said metadata and the FBID retrieved from the Facebook "Friends.areFriends" API command to determine if the said potential secondary enabler identity is true or false. Said determination is in accordance to any possible access grace periods set by the content provider of the said encrypted digital media asset. If the comparison action proves to be true, then access rights is granted to the secondary enabler and the current MAC address of the networking card as part of The App and the FBID retrieved are appended to the established metadata information of the said encrypted digital media asset and access rights can be granted to a plurality of secondary enablers; unlimited interoperability between devices and "fair use" sharing partners for an infinite time frame while protecting commercial digital media from unlicensed distribution to sustain long-term return of investments is achieved.



Figure 1

# EXHIBIT B

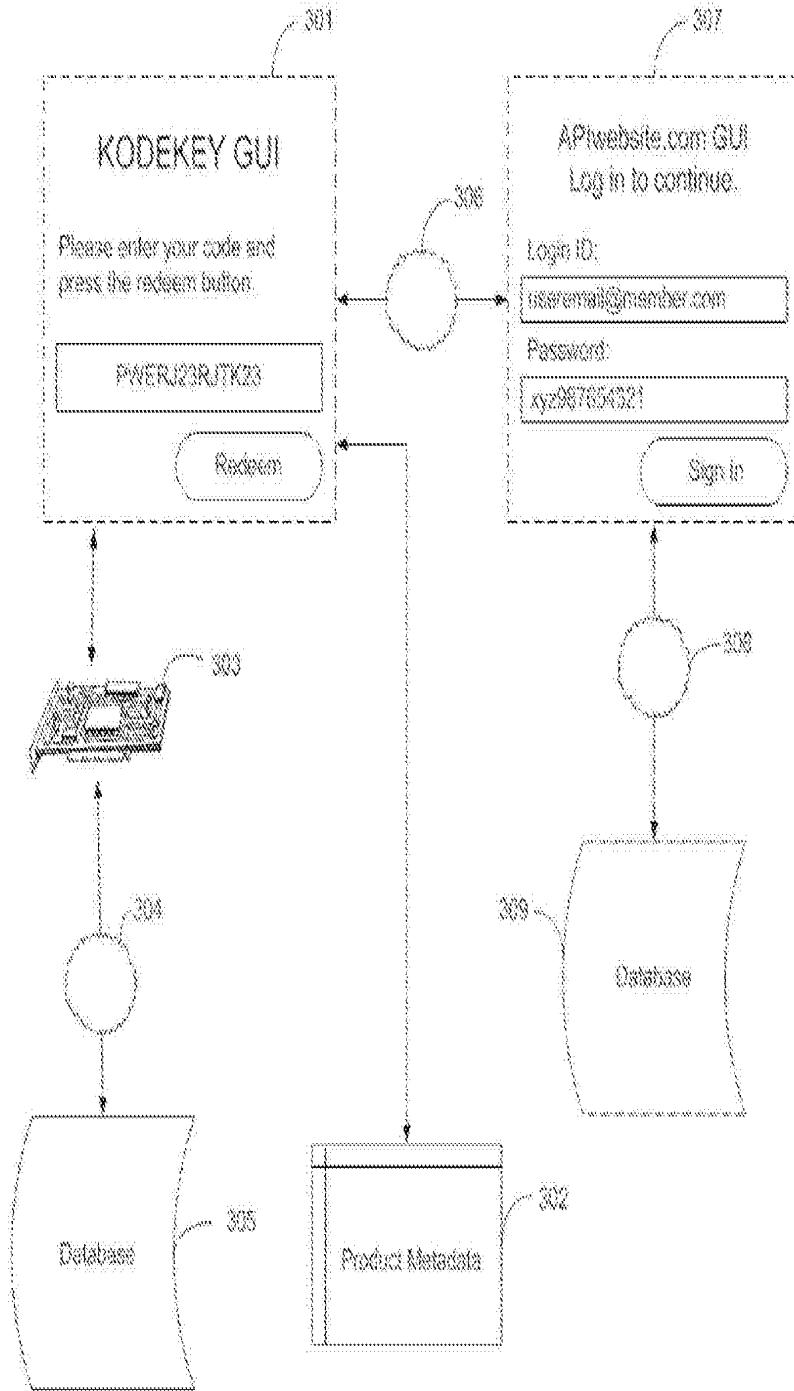


Figure 2

# EXHIBIT B

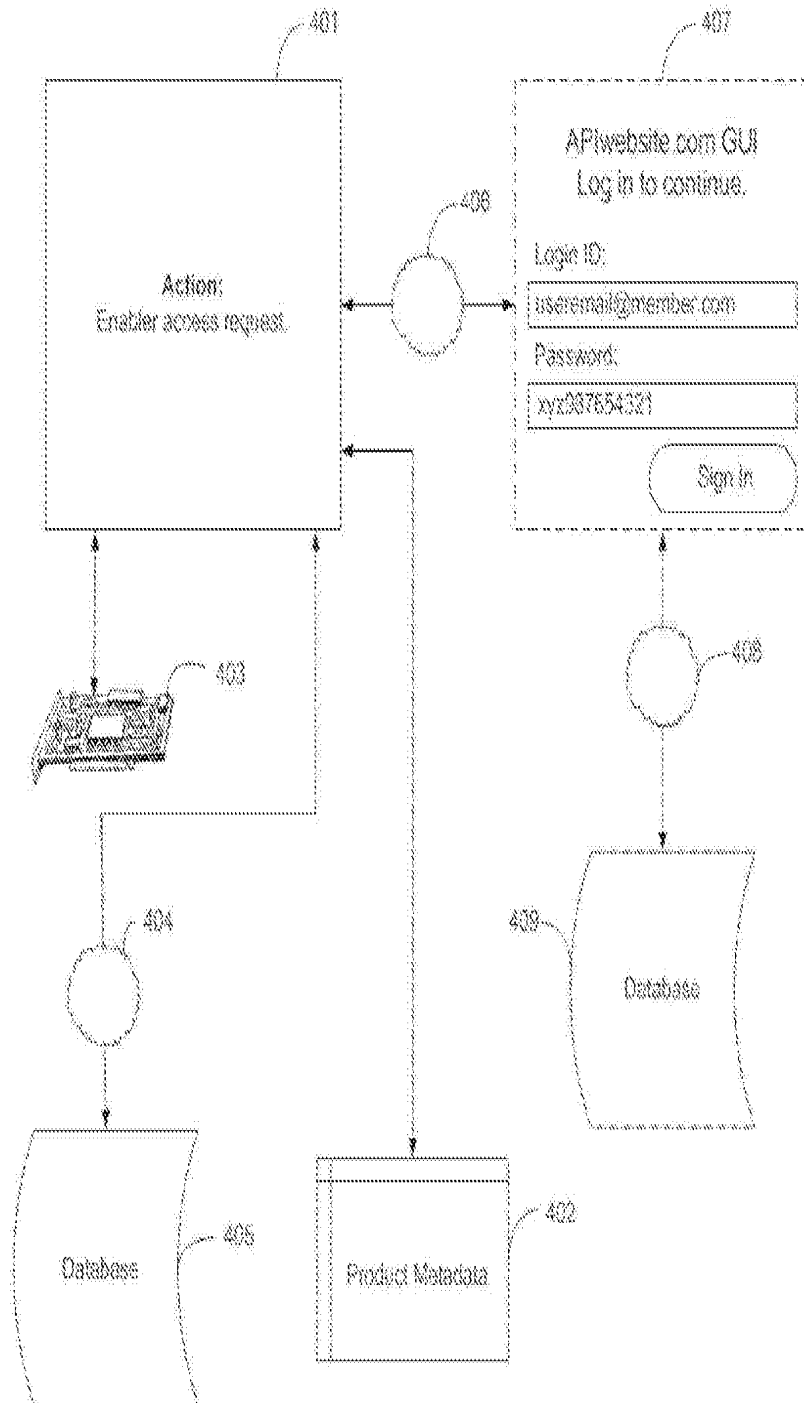
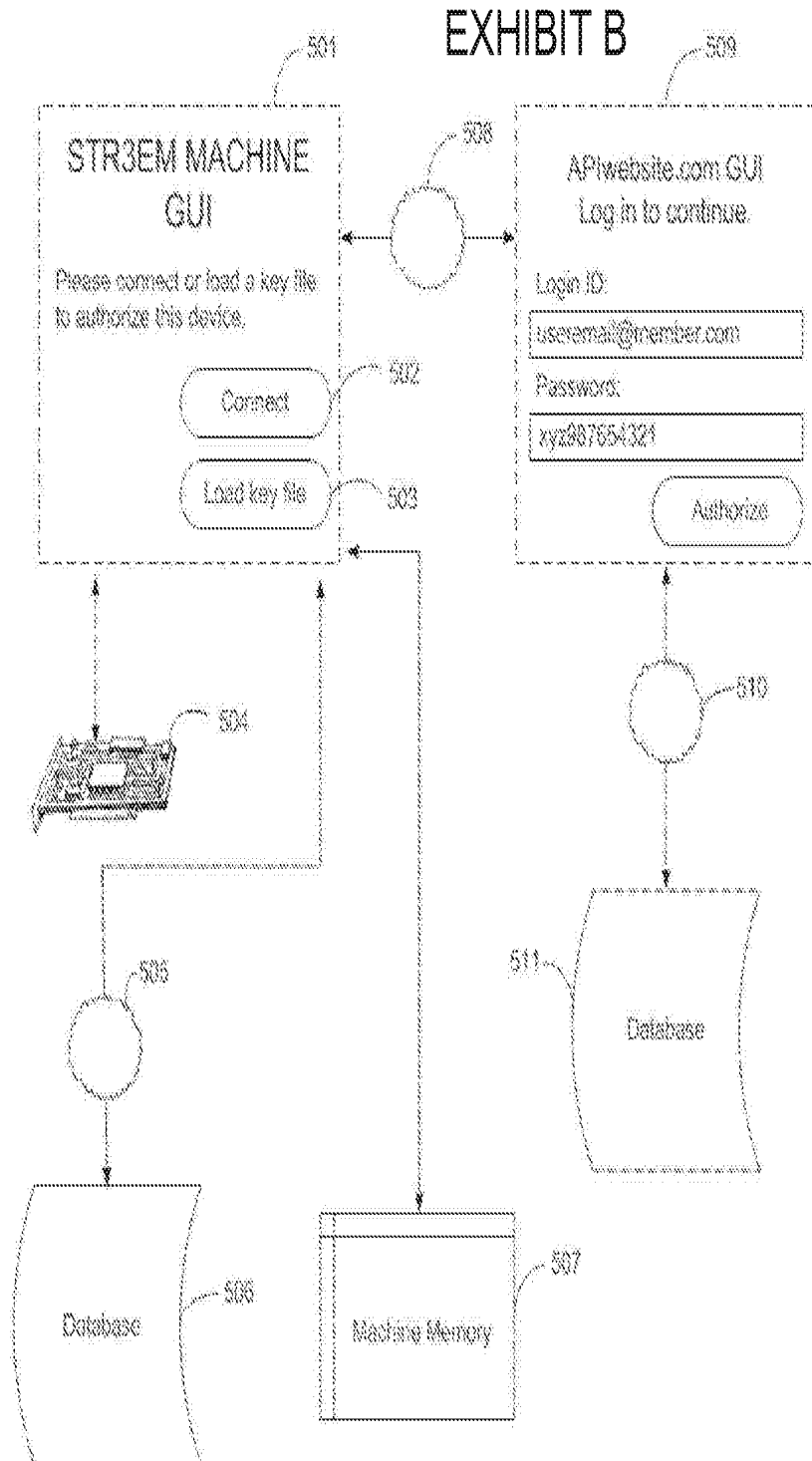


Figure 3



**Electronic Patent Application Fee Transmittal**

Application Number:				
Filing Date:				
Title of Invention:	<b>EXHIBIT B</b>  PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM			
First Named Inventor/Applicant Name:	William Grecla			
Filer:	William Grecla			
Attorney Docket Number:				
Filed as Small Entity				
<b>Provisional Filing Fees</b>				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Provisional Application filing fee	2015	1	110	110
Pages:				
Claims:				
Miscellaneous Filing:				
Petition:				
Patent Appeals and Interference:				
Post-Allowance and Post-Issuance:				
Extension of Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				110

## EXHIBIT B

## Electronic Acknowledgement Receipt

EPS ID:	6688825
Application Number:	61303292
International Application Number:	
Confirmation Number:	4747
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM  <b>EXHIBIT B</b>
First Named Inventor/Applicant Name:	William Grecla
Customer Number:	70964
Filer:	William Grecla
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	10-FEB-2010
Filing Date:	
Time Stamp:	22:29:46
Application Type:	Provisional

### Payment information:

Submitted with Payment:	yes
Payment Type:	Credit Card
Payment was successfully received in BAM:	\$119
BAM confirmation Number:	11795
Deposit Account:	
Authorized User:	

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part (.zip)	Pages ((if appl.))
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EWS-002715

1		NONPROVISIONAL.pdf	271384	yes	27
Multipart Description/PDF files in .zip description					
		Document Description	Start	End	
		Specification	1	24	
		Drawings-only black and white line drawings	25	27	
Warnings:			<b>EXHIBIT B</b>		
Information:					
2	Fee Worksheet (FTC-875)	fee-info.pdf	28952	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			300546		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u>  If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u>  If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DQ/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u>  If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

# EXHIBITS C

## PROOF OF DILIGENCE

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C Exhibits are computer screen copies of engineering and attorney diligence evidence submitted in chronological order covering each business and non-business day between the critical dates of February 10, 2010 and March 21, 2010, the latter being the date reduced to constructive practice with the filing of parent case - U.S non-provisional patent application 12/728,218 -- continuing diligence after the critical dates with a request for early publication on April 6, 2010 and the actual public publication at the USPTO on July 22, 2010.



# EXHIBIT C TABLE OF DILIGENT EVENTS

Daily diligence evidence outline of critical time period from 2/10/2010 to 3/21/2010

**Wednesday - 2/10/2010** – [engineering diligence: exhibit 1c] [Conception: exhibit b] – Applicant submits U.S. provisional patent application 61/032,292 and discusses an update (version 2.0) to the ongoing STRSEM software codebase in testing focusing in exhibit 1c on an adjustment to the application internal HTTP webserver.

**Thursday - 2/11/2010** - [engineering diligence: exhibit 2c] – Applicant receives update application build for testing a HTTP 1.1 compliant (Jetty) webserver upgrade and communicates with his programmer.

**Friday – 2/12/2010** - [engineering diligence: exhibit 3c] – Applicant discusses testing results with his programmer and establishes work will continue over the weekend.

**Saturday – 2/13/2010** - [engineering diligence: reliant on exhibit 3c] - Applicant test current build with Jetty and takes notes and programmer works further on Jetty integration.

**Sunday – 2/14/2010** - [engineering diligence: reliant on exhibit 3c] - Applicant continues to test current build with Jetty and takes notes and programmer works further on Jetty integration.

**Monday – 2/15/2010** - [engineering diligence: exhibit 4c] – Applicant receives update on weekend work done by the programmer, tests are done on the Windows 7 platform further testing implications caused by the change in the internal server system.

**Tuesday – 2/16/2010** - [engineering diligence: exhibit 5c] – Further testing and contact between Applicant and his programmer discussing issues with Jetty webserver integration.

**Wednesday – 2/17/2010** - [engineering diligence: exhibit 6c] – Applicant continues to test build and make notes and sends a message to his programmer with the idea of adding 2 different HTTP server types.

**Thursday – 2/18/2010** – [attorney diligence: initiated – see exhibit 7c] [standard diligence: initiated – see exhibit 8c] – Applicant established 2 jobs on elance.com to convert his provisional application to a non-provisional and convert an internal marketing document into a press release.

**Friday – 2/19/2010 to Saturday 3/20/2010** - [attorney diligence: begins and continues every day until critical end date 3/20/2010 – see EXHIBITS SUBSECTION 7C for evidence] [standard diligence: begins – see EXHIBITS SUBSECTION 8C] [engineering diligence: continues on from 2/19/2010 through critical end date 3/21/2010 – see EXHIBIT 9C to 29C for evidence] Applicant awards both Elance jobs to providers and publishes documents for both providers to retrieve. See: MPEP 2138.06 “Reasonable Diligence” paragraph 5 - DILIGENCE REQUIRED IN PREPARING AND FILING PATENT APPLICATION – in part quote: “The diligence of attorney in preparing and filing patent application inures to the benefit of the inventor.”

**Sunday – 3/21/2010** – [Constructive Reduction to Practice] – Applicant files parent case 12/728,218

**Note To Examiner:** Please observe Applicant’s instructions to USPTO artisan within EXHIBITS SUBSECTION 7C – page 4 of 5 of Elance message board screen copy markup label “ATTENTION EXAMINER” made February 19, 2010 1:52PM – quote: “Here is the provisional number and claims the

priority date : USPTO provisional 61303292 Priority date: 2/10/10 – Applicant submits this evidence to remove any possible incorrect assumptions that he attempted to purposely hide 61/303,292 as the request was made to the USPTO artisan hired to draft a compliant non-provisional application from information provided to him by the applicant and received and filed to the USPTO by the Applicant. In a sense of urgency to file 12/728,218 applicant did not notice the priority date missing from the specification as adding such a priority date is considered standard practice among professional USPTO practitioners.



after:2010/1/27 before:2010/3/25

William Search & Share

Gmail

Show to inbox Show

3/27 of many

COMPONS

Gift of Balleton Dancing - [www.letsdanceballetroomnj.com](http://www.letsdanceballetroomnj.com) - Give the gift of balleton dance lessons. Great for couples & singles

Why this ad?

Inbox (2)

Sent Mail

Drafts (139)

Circles

imap/Trash

Google+ (1)

Google+ (1)

DAGNUS

Google+ (1)

Elance - Great!

Google+ (1)

You are invisible.

Google+

Search people...

Horatio Jones

Malk

Yvette Boykin

Lizette Grand

Tony Palmer

00:00:00



### Chat with Ivan Dyachkoff



Ivan Dyachkoff [ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)

2/10/10

2:59 PM Ivan: Hi Will, Ill try to finish new version today.  
3:00 PM me: Just want to get a feel for the server... I dont expect you to get to the other request before establishing server fix



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Using 2.3 GB of your 10.1 GB

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Last account activity: 22 minutes ago  
[Details](#)

Ivan Dyachkoff

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And my credit score jumped 203 pts  
[PamelaCreech.com](http://PamelaCreech.com)

Gifted Patent Attorneys  
\$4700 Quality Patents.  
Stanford Professionals  
[www.patent-attorney.tv](http://www.patent-attorney.tv)

More about...

Server >  
Request Server >  
Get Server >  
Server for You >

# EXHIBIT 1C



after:2010/1/27 before:2010/2/25

Gmail

Write to inbox

COMPOSE

Uninstallable - Affordable Elegance - Tablecloths, Chair Covers, Napkins, Quetzals, & Runners - Free Shipping On Orders Over \$60

Inbox (2)

Sent Mail

Drafts (13)

Circles

[imap] Trash

[imap] Spam

[imap] All Mail

IMAP Sync

Mail

Phone Calls

Calendar

Contacts

Search people

Home

Work

Mobile

Settings

Account

Help

Feedback

Sign out

Account

Account

Account

Account

Account

Account

Account

Account

Account

Account

Account

Account

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Account

Account

### Chat with Ivan Dyachkoff

Ivan Dyachkoff <ivan.dyachkoff@gmail.com>

2/11/10



10:10

These messages were sent while you were offline.

9:01 AM Ivan: Hi Will, please try this: <http://kodekey.com/STRSEM.jar>

9:02 AM I can't activate seeking on my windows 7 even with older build, probably WMP has cached some info about strSem server. Try this build and check if seeking works

Ivan Dyachkoff <ivan.dyachkoff@gmail.com>

2/11/10



10:10

9:40 AM me: Hey Ivan, is the current release version of strSem snapshot in source?

9:41 AM I think I have a better solution for this server issue, it is still giving issues. I found something but did not want to bother you with it. I will send an email in a few moments with some info.

9:47 AM Ivan: OK



Click here to [Reply](#) or [Forward](#)

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Last accessed activity: 18 minutes [\[x\]](#)

# EXHIBIT 2C



after:2010/1/27 before:2010/2/25

Gmail

Write to block

COMPOSE

Unreadable!sh - Affordable Elegance - Tablecloths, Chair Covers, Napkins, Overtops, & Runners Free Shipping On Orders Over \$60

Inbox (2)

Sent Mail

Drafts (13)

Circles

[imap] Trash

[imap] Spam

[imap] All Mail

[imap] Sent Mail

[imap] Drafts

[imap] Deleted Items

[imap] Archive

[imap] Chats

[imap] Unreadable!sh

[imap] Unreadable!sh

[imap] Unreadable!sh

[imap] Unreadable!sh

[imap] Unreadable!sh

[imap] Unreadable!sh

[imap] Unreadable!sh

[imap] Unreadable!sh

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[imap] Unreadable!sh

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[imap] Unreadable!sh

[imap] Unreadable!sh

### Chat with Ivan Dyachkoff



Ivan Dyachkoff <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

2/12/10

10:10

me: Could you give likely time when we able to know if Jetly helps us?  
Just curious after local tests here

Ivan: It seems like Jetly should work with Truezip. I worked with Jetly integration today and will continue working tomorrow.

me: man thanks



Click here to [Reply](#) or [Forward](#)

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Last accessed activity: 34 minutes



# EXHIBIT 3C



after:2010/1/27 before:2010/2/25

Gmail

Write to block

More

COMPOSE

Unavailable - Affordable Elegance - Tablecloths, Chair Covers, Napkins, Overtops, & Runners - Free Shipping On Orders Over \$69

Inbox (2)

Sent Mail

Drafts (13)

Circles

[imap] Trash

Spam

Spam

Spam

Spam

Spam

Spam

Spam

Spam

Spam

Spam

Spam

Spam

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Spam

### Chat with Ivan Dyachkoff



Ivan Dyachkoff <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

2/19/10

10:10

4:57 PM

Ivan: Hi Will, just finished a set of changes in Jelly to make it handle truezip containers. WMP is connected to Jelly server and plays wmv file from encrypted container on my working PC with XP. Tomorrow I'll test it on Win7 and if it works OK I'll complete Jelly integration into the STREAM application.

4:58 PM

me: yes ok cool... there are some test I need to do because maybe more formats are working on windows 7 because of server change. thanks for update.



[Click here to Reply or Forward](#)

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Last accessed activity: 37 minutes [Data](#)

# EXHIBIT 4C



after:2010/1/27 before:2010/2/25

Gmail

Write to block

COMPOSE

Unreadable - Affordable Elegance - Tablecloths, Chair Covers, Napkins, Overtops, & Runners - Free Shipping On Orders Over \$69

Inbox (2)

Sent Mail

Drafts (13)

Circles

[imap] Trash

[imap] Spam

[imap] Deleted

[imap] Archived

[imap] All Mail

Change Desktop

Home

You are invisible.

Go visible

Search people...

Home

Mail

Write to block

Unreadable

2/10/10

2/10/10

2/10/10

2/10/10

View all images

### Chat with Ivan Dyachkov

Ivan Dyachkov <ivan.dyachkov@gmail.com>

2/10/10

10:00

9:50 AM Ivan: I have replaced my simple http server by Jetty as you requested

9:51 AM me: for some reason it is not reacting as running jetty "start.jar" and testing files from root folder  
byte ranges not responding

9:52 AM Ivan: where did you find start.jar?  
me: when you download jetty  
from their site  
it's how you start it

9:53 AM you can download jetty 7 and place media in webapps-root and test the server by starting start.jar  
it defaults at localhost:8080

9:54 AM though our solution uses other than 8080  
from what I remember

Ivan: yes our solution uses 8080

9:55 AM me: yes good

9:56 AM you can try your WWW files in that root folder then run start.jar to see how jetty itself works great. I  
did this on Win7 not XP

Ivan: I do not know why byte ranges not responding. My handler creates de.scribchere.io.InputStream and other stuff is out of my control  
I tried, it works ok

me: interesting  
seeking?

9:57 AM Ivan: when client (WMP in our case) asks for resource server looking for appropriate handler, and asks that handler for InputStream to access the data

9:58 AM me: I played older s33 from release version I did not create a new file, could this be it, I didn't think so

9:59 AM I though WMP asks for the localhost address?

Ivan: there is standard FileResource and ResourceHandler which operates with FileInputStream  
I added TruncatResource and TruncatHandler which operates with de.scribchere.io.InputStream

me: so we are not just sending <http://localhost:8080/XXXXXXXXXXXXX/XXXXXXXX>

Ivan: other work was to correctly initialize resources

me: your HTTP server version is fast quick and snappy

Ivan: yes WMP make request similar to your example

me: this one works, but slower than even testing jetty directly

Ivan: jetty directly does not need to decrypt data  
me: that would be it

10:02 AM is it possible to "mount" our container as a HD  
Ivan: ?

me: the container is mounted to the server like a hard drive or folder resource

10:03 AM is there a way to not on-line-by decrypt, but to "mount" the s33 like a disc image  
if Jetty is a server, then there must be a way to mount our file system as one of the root folder

Ivan: not on-the-fly decrypt means we have to place decrypted data somewhere

EXHIBIT 5C



after:2010/1/27 before:2010/2/25

Gmail

Write to block

More

COMPOSE

Stucci - Stucci for the Holidays - Give the Gift of Gucci this Holiday Shop Stucci.com with Free Shipping & Free Gift Wrap. Learn More

Inbox (2)

Sent Mail

Drafts (1/3)

Circles

[imap] Trash

[imap] Spam

[imap] All Mail

IMAP Sync

POP

Google Calendar

Google Photos

Google Drive

Google Maps

Google News

Google Scholar

Google Books

Google Play

Google Assistant

Google Home

Google Lens

Google Translate

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

Google Assistant

### Chat with Ivan Dyachkoff

Ivan Dyachkoff <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

2/17/10

12:46 PM

me: Hey Ivan, we need to assure that the current release version of STRZEM files work with new build so I guess this means making the next version STRZEM file higher version so current release version can not open it.

12:48 PM

maybe this is just adding 2 versions of help server, current for released files and new server for next version.



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Last account activity: 5 minutes  
[IM](#)

# EXHIBIT 6C



MY ELANCE HIRE FIND WORK MANAGE RESOURCES

Jobs [ ] To Post your job

Back

Elance (ET) 8:08 pm

# Provisional conversion to USPTO patent draft

Help

Legal > Patent, Copyright and Trademarks

Repost Job Edit Job & Settings Share

Time Left: Closed Budget: Less than \$500  
 Posted: Thu, Feb 13, 2010 Fixed Price Job  
 Location: Anywhere Start: Immediately  
 W9 Not Required My Team (1)  
 Invite Only (2 invited)

I have a filed provisional patent application that needs a conversion to a USPTO non-provisional ready application draft. Application needs any necessary additional disclosure according to 3 provided figures and an actual product reduced to practice. Maximum claims drafts will be required.

Job ID: 19189502

**Desired Skills**  
 Intellectual Property

[Less Detail](#)

Add to Job Description

Job Details  
 Privacy & Settings  
 My Team  
 History

Proposals (1)  
1 India/Southern Asia

All Proposals (1) Hidden Declined Invited (2)

Filter By: All Proposals Sort By: Submit Date (Latest) View: Expanded

**Patent Solutions** Rate Proposal

India 1Rate: \$15/hr 1Legal 1 11job 1\$450 Earnings 1 4.7 1 Portfolio

**\$500.00** Delivery within 2 weeks [Expand Proposal](#)

## EXHIBIT 7C (also see Subsection 7C below for more evidence).

BY ELANCE HIRE FIND WORK MANAGE RESOURCES Jobs  To Post your job

Back [Elance (ET)] 8:53 am

# Convert info in internal document to press release

Help

Writing & Translation > Press Release

Repost Job Edit Job & Settings Share

Time Left: Closed Budget: Less than \$500  
 Posted: Thu, Feb 16, 2012 Fixed Price Job  
 Location: Anywhere Guaranteed with Elance Escrow  
 Start: Immediately U.S. freelancers must have W9  
 Hi, My Team (1) Invite Only (1 invited)

I need info in an internal marketing document converted to a mainstream press release. The full points of the product is in this document, but we need some structured magic for a real press release. Please see file attached.

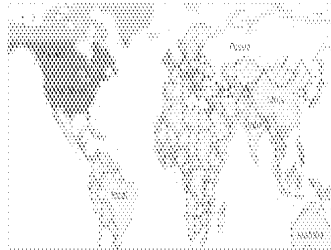
Job ID: 19189800

[SIRSEM\\_Marketing.pdf](#)

**Desired Skills**  
 Press Release, Copywriting

[Less Detail](#)

Add to Job Description




### Proposals (1)

- 1 North America

All Proposals (1) Hidden Declined Invited (1)

Filter By: All Proposals Sort By: Submit Date (Latest) View: Expanded

 **Words by Melissa & Associates** Rate Proposal

United States 1 Rate: \$32/hr 1 Writing & Translation 9 1138 jobs 1\$46,889 Earnings 1 4.9 1 Portfolio

**\$125.00** Delivery within 2 weeks [Expand Proposal](#)

## EXHIBIT 8C

(also see Subsection 8C below for more evidence).



after:2010/1/27 before:2010/2/25

Gmail

Write to block

More

COMPOSE

Stucci - Stucci for the Holidays - Give the Gift of Gucci this Holiday Shop Stucci.com with Free Shipping & Free Gift Wrap. Learn More

Inbox (2)

Sent Mail

Drafts (13)

Circles

[imap] Trash

[imap] Spam

[imap] All Mail

DISABLED

Spam

Finance Center

Calendar

Google

You are invisible.  
Available

Search people...

Home

Work

Google Scholar

Google Books

Google Maps

Google News

Google

Google

Account Settings

### Chat with Ivan Dyachkoff



Ivan Dyachkoff <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

2/19/10

11:00 AM

me: Once this part of st3em is done (server, + MAC adjust and browser parts) we will want to do Android player (full extractor no creator). Android is built around Java so will need quote for you to get latest Android SDK and port st3em. There is another smaller separate PC app needed to build a "Auln" file from FB. Funds needed for the Android port



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# EXHIBIT 9C



after:2010/1/27 before:2010/2/25

Gmail

Write to block

COMPOSE

Stucci - Gucci for the Holidays - Give the Gift of Gucci this Holiday Shop Gucci.com with Free Shipping & Free Gift Wrap. Learn More

Inbox (2)

Sent Mail

Drafts (1/3)

Circles

(imap) Trash

Spam

Chats

PAID

Star

Place Check

Account

Settings

You are invisible.  
[Go visible](#)

Search people...

Home

Work

Circle Group

Account

### Chat with Ivan Dyachkoff



Ivan Dyachkoff <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

2/22/10

7:24 AM

me: Hey Ivan, would like to get a scope on stream progress for this week.



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[Log out](#)

# EXHIBIT 10C-a

1/20/2012 10:45:00

1/20/2012 10:45:00

1/20/2012

1/20/2012

1/20/2012 10:45:00





after:2010/1/27 before:2010/2/25

Gmail

Write to block

COMPOSE

Stucci - Stucci for the Holidays - Give the Gift of Gucci this Holiday Shop Gucci.com with Free Shipping & Free Gift Wrap. Learn More

Inbox (2)

Sent Mail

Drafts (1/3)

Circles

[imap] Trash

Spam

Chats

Calendar

Tasks

Finance Center

Google

You are invisible.  
Available

Search people...

Home

Work

Google Scholar

Google Books

### Chat with Ivan Dyachkoff



Ivan Dyachkoff <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

2/22/10

10:16

2:58 PM Ivan: Hi Will, no-encryption version of strGem will be ready tomorrow.  
3:02 PM me: cool thanks



Click here to Reply or Forward

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Last account activity: 12 minutes  
[Log out](#)

# EXHIBIT 10C-b

1/27/2010 10:16 AM

1/27/2010 10:16 AM

1/27/2010

1/27/2010

1/27/2010 10:16 AM





after:2010/1/27 before:2010/2/25

Gmail

Write to block

COMPOSE

Stucci - Stucci for the Holidays - Give the Gift of Stucci this Holiday Shop Stucci.com with Free Shipping & Free Gift Wrap. Learn More

Inbox (2)

Sent Mail

Drafts (13)

Circles

[img] Trash

[img] Spam

[img] All Mail

IMAP Sync

Labels

Change Desktop

You are invisible.

Available

Search people...

Home

Work

Account

1/27/2010

1/27/2010

1/27/2010

1/27/2010

1/27/2010

new build

1/27/2010

Ivan Dyachkov <id.dyachov@gmail.com>

2/23/10

to me

Hi Will,

STR2EM with no encryption is ready: <http://kodekey.com/STR2EMSetup.zip>

[img]

William G. Blanchard of LAMM-Cast Ltd. <sa.0c2c0@gmail.com>

2/23/10

Hi Alex,

There are some performance issues with this build but it does work somewhat initially.

The seeking is sluggish (I have no idea how this could be now no encryption is on container) but after waiting some time seeking will work.

Then on multi-asset containers, after 1 full playback, on second full playback attempt, the first video plays for 1/2 second then skips to the next. No matter what I do with closing the app the file still has corrupt playback this way. My question is how is the app "remembering" to glitch playback of a half second on the first video?

Then when pressing "stop" does not reset the playback list as the release version, it stops then when you press play again continues from the place where stopped.

This release is not stable yet for release but I will say my faith is dying as things seem to break all over the place when trying to upgrade the stable version we have.

The stable release version we have (without http byte ranges) that is in one of the branches in source?

Thanks

Will

EXHIBIT 11C









after:2010/1/27 before:2010/3/25

Gmail

Write to inbox

More

COMPOSE

50 Groups™ - 50 Men's Sales - Men's Designer Clothing Up to 50% Off. Join 50h Today!

Inbox (2)

Sent Mail

Drafts (13)

Circles

(img) Trash

Spam

Spam

Spam

Spam

Spam

Spam

You are invisible.

Available

Search people...

Spam

Spam

Spam

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Spam

Spam

Chat with [ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)



[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com) <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

3:21:10

10:10

4:04 PM Ivan: should we keep compatibility with previous st2 container version?

me: in which version you mean?

4:05 PM Ivan: the last one which was released

with http 1.0

4:06 PM me: I mean which build moving forward you are referencing for compat?

Ivan: the current version I'm working on now, the same http 1.0 server but with new features

4:07 PM me: oh yes, this must work with released st3, but the browser only stuff should prob have its own extention, like st2 or something

matter of fact

4:08 PM me: no need for that

just make it compatible with older st3 and version up the new one

user can just download updated app to open up version file

4:09 PM Ivan: ok

4:10 PM me: if the new version st3 is tried played on older app then app will tell user that app version is not correct. We will just announce on the website of version 1.2

Ivan: ok

5 minute

4:16 PM me: I'm thinking with crypto part, we should integrate it into standard distribution as we talked before by just embedding the folder in. Once this update is done and paid for, would like to just clamp down on what we will do with crypto, so much work and \$\$\$ went into that... we minds well use it. lol I do have the \$\$\$ to pay now for these updates, so don't get nervous.

Ivan: ok



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EXHIBIT 13C-b

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EWS-002734



after:2010/1/27 before:2010/3/25

Gmail

Write to Inbox

COMPOSE

5th Grade™ - 5th Grade Sales - Men's Designer Clothing Up to 50% off. Join 5th Today!

Inbox (2)

Sent Mail

Drafts (1/3)

Circles

[img] Trash

[img]

[img]

ADDITIONAL

[img]

Change Check

[img]

[img]

You are invisible.

Available

Search people...

[img]

[img]

[img]

[img]

[img]

[img]

[img]

Account Overview

[img]

Chat with [ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)



[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com) <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

3/2/10

10:10

3:32 PM Ivan: ok

3:33 PM me: was you able to get mac webkit working from before? it was Safari right?

3:34 PM Ivan: I did not test mac webkit

3:36 PM me: ok, last quick question.. any possibility to make a cocoa web panel (which uses safari) that we could pass URL to it from stream app? Meaning open this simple cocoa browser with a command with url from stream attached

3:37 PM I am asking this because I would like to get a browser any mac version

Ivan: I will check if it possible tomorrow

3:38 PM me: I will research this also, but for now, we want to complete current task, and that child button thing.. then we square time at that point

Ivan: ok

me: I will likely find some info on the Mac browser thing.

thx

3:50 PM me: There is another thing needed for rounding out things: we need a "verification" action after creating KKs.. so when KK are uploaded to devpay and list is created, just show "Verifying KK #" then show the counter while the app checks KK in list with KK at devpay. This is important for some people.

thx

(thx's (I'm speeding today).

3:52 PM Ivan: ok



[Click here to Reply or Forward](#)

10/10/2010 10:10 AM

10/10/2010 10:10 AM

10/10/2010 10:10 AM

10/10/2010 10:10 AM

10/10/2010 10:10 AM

10/10/2010 10:10 AM

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Last account activity: 43 minutes  
[DL](#)

EXHIBIT 14C

EWS-002735



after:2010/1/27 before:2010/3/25

Gmail

Write to inbox

COMPOSE

NET bank - Free Checking - Enjoy NO monthly service charge. Learn More

Inbox (2)

Sent Mail

Drafts (13)

Circles

[img] Trash

[img] Spam

[img] Unread

IMAP

POP

Change Desktop

[img] [img]

You are invisible. [Visible](#)

Search people...

Home

Work

Private Browser

Private Window

Private Window

Private Window

Private Window

Private Window

Private Window

### Chat with [ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)



[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com) <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

3:41:10

10:00

me: Let's give Browser only it's own extension, stw  
sorry, .3ew  
Because this file will be the only version compatible with possible Mac player only.

5 minute

3:55 AM Ivan: ok

30 minute

me: in sorry, i need one more URL insert flag "FILEID" which would push through the str3em file id (i think dkey is what the internal name for it)  
this is for a reason i will explain later

well i will tell you now... We need a PHP script that can check dkey for KK  
this will be done like last

Ivan: dkey is user's identifier

me: much later

ok then it's not dkey, its the fileid we need

Ivan: do you mean uid which is unique for each str3em?

me: like the identifier used with the "Make Child" request that id's a str3em with dkey/ kk folders

yes

Ivan: uid

me: push uid with flag FILEID in url

Ivan: ok

10 minute

me: we need a simple button at the bottom right of KK manager panel called "Find File ID" which will allow user to pick str3em file and then simply display the uid in a pop up field that is copyable. sorry... it's all coming to me the little things.

20 minute

me: as with creating KK with "Find File ID" only the account that created the str3em file can see the uid.

Ivan: don't understand. Where it can see the uid? Application does not show uid anywhere

5 minute

me: wrote this a few posts up "we need a simple button at the bottom right of KK manager panel called "Find File ID" which will allow user to pick str3em file and then simply display the uid in a pop up field that is copyable. sorry... it's all coming to me the little things."

Ivan: ok

10 minute

Ivan: I sent a question on email

7 minute

me: ok

answered



[Click here to Reply or Forward](#)

# EXHIBIT 15C



Google

after:2010/1/27 before:2010/3/25

Gmail

Write to inbox

COMPOSE

State Farm - Save Up To \$680 - You can save \$480 on auto insurance with State Farm®. Get A Quote

Inbox (2)

Sent Mail

Drafts (1/3)

Circles

(imap) Trash

Spam

Chats

Calendar

Tasks

Place Check

Settings

Help

You are invisible.

Visible

Search people ..

Home

Work

Circle Group

Circle Group

Circle Group

Circle Group

Circle Group

Circle Group

Circle Group

Chat with [ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)



[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com) <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

3:01:10

10:10

1:01 PM me: Quick question ivan. Could you create a KW engine with FB credentials and exact deupay function in PHP? one day other languages too?



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Using 2.3 GB of your 10.4 GB

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Last account activity: 52 minutes

EXHIBIT 17C



after:2010/1/27 before:2010/3/25

Gmail

Write to block

COMPOSE

NET bank - Free Checking - Enjoy NO monthly service charge\*. Learn More

Inbox (2)

Sent Mail

Drafts (1/3)

Circles

[imap] Trash

Spam

Spam

Spam

Spam

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Spam

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Spam

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Chat with [ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)



[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com) <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

3/8/10

10:10

2:58 PM Ivan: Hi Will! Do you need a Java library or it can be any other serversolution?

me: I am consulting you on it

you tell me

2:58 PM Ivan: ok. Our team is moving now to Ruby on Rails specialization and I am learning RoR little by little within last 4 months. I can make this solution based on rails.

3:00 PM me: yeah, i just need something that can happen on a server solution for a web service to auth using our PK and FB solution as we do with STRSEM container. then when they use a STRSEM container, matched with the same UID, same access is granted

3:02 PM Ivan: OK, we can discuss this in more details when current tasks are finished. I will send a build today for http version.

3:02 PM me: ok then I will need that crypto adjust after this then we speak on ruby

thanks

Ivan: ok



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Home

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Private Storage

Account Settings

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Last account activity: 36 minutes



EXHIBIT 18C



after:2010/1/27 before:2010/3/25

Gmail

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COMPOSE

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Inbox (2)

Sent Mail

Drafts (1/3)

Circles

[Empty] Trash

[Empty] Spam

[Empty] All Mail

[Empty] Chats

[Empty] Settings

[Empty] Labels

[Empty] Accounts

[Empty] Mobile

[Empty] Security

[Empty] Help

[Empty] About

[Empty] Privacy

[Empty] Terms

[Empty] Feedback

[Empty] Sign out

[Empty] Account info

[Empty] Account settings

[Empty] Account recovery

[Empty] Account security

[Empty] Account sharing

[Empty] Account sync

[Empty] Account sync settings

[Empty] Account sync settings

[Empty] Account sync settings

[Empty] Account sync settings

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Chat with [ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)

[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com) <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)> 3:10

2:53 PM me: how long you think it would take to test adding unzip filter to our crypto to hold all files in 1 generic zip with .3ep extension (these are 2 crypto files, meta and wrapped single wmv in 1 container.  
3:13 PM yeah, wrap me up these hours on this.. i will not need a klaszmaster until we get crypto in and label as STR3EM 2.0  
3:26 PM i also sent crypto info in email

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[IM](#)

EXHIBIT 19C



after:2010/1/27 before:2010/3/25

Gmail

Write to block

COMPOSE

State Farm - Save Up To \$680 - You can save \$480 on auto insurance with State Farm®. Get A Quote

Inbox (2)

Sent Mail

Drafts (13)

Circles

(imap) Trash

Spam

Chats

IMAP

Mail

Phone Calls

Calendar

You are invisible.

Available

Search people...

Home

Work

Private Spaces

Account Settings

Chat with [ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)



[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com) <[ivan.dyachkoff@gmail.com](mailto:ivan.dyachkoff@gmail.com)>

3/10/10

10:10

12:23 PM Ivan: having problems getting motherboard serial. But I was able to get serial number for all logical drives in the system.

7 minute

12:30 PM me: ok lets use that

Ivan: ok

me: we just need 1

12:31 PM if ewsmid based, then we just ask for FBIID and log new drive

Ivan: yes



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EXHIBIT 20C

1/27/2010 10:10:10

1/27/2010 10:10:10

1/27/2010

1/27/2010

1/27/2010







after:2010/1/27 before:2010/3/25

Gmail

Write to block

COMPOSE

State Farm - Save Up To \$800 - You can save \$480 on auto insurance with State Farm®. Get A Quote

Inbox (2)

Sent Mail

Drafts (13)

Circles

[imap] Trash

DAEMON

Change Desktop

You are invisible. Available

Search people...

Homebrew

log

write daemon

write daemon

1/27/2010

1/27/2010

1/27/2010

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3/13/10

10:10

2:52 AM me: i am catching some issue on other machine. on first machine I can see when the action window pop up... on the 2nd machine, this window does not show...

2:53 AM Ivan: application now writes more information in log. Please send strSem.log

me: on original redeem computer, the write metadata action happens, but on other machines, that action, or at

2:56 AM nothing in log thats new

Ivan: do you use new build?

me: new jar yes

I will double check

2:59 AM ok im getting access denied on jar copy hold on

3:00 AM yeah double checked and same

Ivan: please send the log anyway

me: I have an idea on what we would do...

3:04 AM I am thinking about just placing the strSem FB login component as a windows task bar process... simple "sign in" and "sign out"

that would cure everything

3:06 AM when strSem installs, it places a .ico in the task bar and app calls that task bar app for sign in... when user signs in, the task bar app stays signed in with the users FBID and remembers this even when

windows start... user can manually sign out and sign in with another credential... easy?

this would remove the need for any machine ID which could give problems with the crazy custom computers out here.

3:10 AM Ivan: I did not work with windows 7 taskbar yet. This variant can take 1.2-18 hours. Isnt it too much for small feature? Please send me log file. Im sure this is only minor issue.

8 mins

3:16 AM me: catching javaw.exe hang issues

3:17 AM sent

3:19 AM Ivan: what kb did you use?

3:21 AM me: P\25M\A\U\G\H\S\A\H\2

13 mins

3:34 AM Ivan: please make the test again with new build: <http://kcodekey.com/STRSEM.jar>

3:35 AM fire added extended logging

3:38 AM me: lol

10 mins

3:40 AM me: I will need to pay for that fb facebook solution. this is not working as we need it... we could just get the other thing done with this time

3:40 AM its running a process near the time in lower right of windows task bar

I will send ref a bit later

Ivan: ok... but please send the log file

me: ok

3:52 AM ok sent

3:53 AM Ivan: you just used another facebook account

me: nope

Ivan: that is why "Access denied"

me: no.

EXHIBIT 21C



after:2010/1/27 before:2010/3/25

Gmail

Write to block

More

COMPOSE

Inbox (2)

Sent Mail

Drafts (1/3)

Circles (0)

[imap] Trash

Spam

Unread

IMAP Sync

IMAP Sync

Change Outlook

Block

You are invisible.

Go visible

Search people...

Block

Account Settings

Google Account

Google Account

Account Settings

Account Settings

Account Settings

Block

Block

Account Settings



Thanks

-Will

...

Stephanie Pettinait <stephanie@culicastpr.com>

3/12/10

Hi Will, Thanks

Hi Will - Thanks for clarifying this. This is in fact powered by Facebook Connect so I've made some revisions to the approved press release attached here to reflect that language.

Please accept the changes and let me know if you have any questions.

Thanks,  
Stephanie

...

STEPSEM PP PB EDITS.doc

20K View Download

The STRSEM Team <business@strsem.com>

3/12/10

Hi Will,

Thanks, we will ensure all related creatives reflect Facebook Connect.

-Will

On Fri, Mar 12, 2010 at 8:30 PM, Stephanie Pettinait

...

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EXHIBIT 22C



after:2010/1/27 before:2010/3/25

Gmail

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COMPOSE

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Inbox (2)

Sent Mail

Drafts (13)

Circles

[img] Trash

[img]

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DRAFTS

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### Preview of STRSEM 2.0 front page

William G. Blanchard Owner of The STRSEM Team <will@strsem.com>

3/14/10

to: mikes

Hi Mike,

Find attached a screenshot of the final STRSEM 2.0 site redesign

This will go live around April 3rd (tentative date).

[img]



Picture 21.png  
256K view Share Download

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1/20/10 10:45:25

1/20/10 10:45:25

1/20/10

1/20/10

1/20/10 10:45:25



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# EXHIBIT 23C