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COMPOSE

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Yvette Boykin

Lizzette Grecia

Chat with ivan.dyachkoff@gmail.com

ivan.dyachkoff@gmail.com <ivan.dyachkoff@gmail.com> 3/18/10

11:08 AM Ivan: Hi Will. Quick report about progress
11:11 AM avi files worked with our directshow solution with no changes to 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 format parsers.
so, we have only avi and wmv files support in our directshow solution. is this OK?

22 minute

11:37 AM me: thats fine, avi and WMV is A-OK!
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 toss... Any idea what codec the AVI file are in that are working, MS-MPEG4?
11:39 AM Ivan: yes
me: I also found a solution to our FB auth requirement, this will be called the "STR3EM User Manager", I have refs already, I will send them after cryop
Ivan: ok
me: yes ok that is all ok, mpeg4 avi and WMV is just fine.
11:42 AM Is it possible to doubel or even tripple the dual buffer config?
Ivan: what do you mean? Increase buffer size?
11:43 AM me: the buffer that takes decrypted bytes into the player
yes buffer size of decrypt
Ivan: yes of course
me: lets try 3X more
for the blu-ray level vids
11:44 AM Ivan: ok

8 minute

11:54 AM me: hold on, media foundation works with WMV?
with our decryption?

7 minute

12:01 PM me: Not to switch up, but good to know for any possible future adjustments when MS decides to stop DS support.

36 minute

12:38 PM Ivan: yes it can work
me: are there any advantages? it seems the same at this point...
12:39 PM Ivan: I do not see any advantages
me: ok
we will just keep that in the code base just as a future failsafe following MS decisions with DS.

Click here to Reply or Forward

EXHIBIT 24C

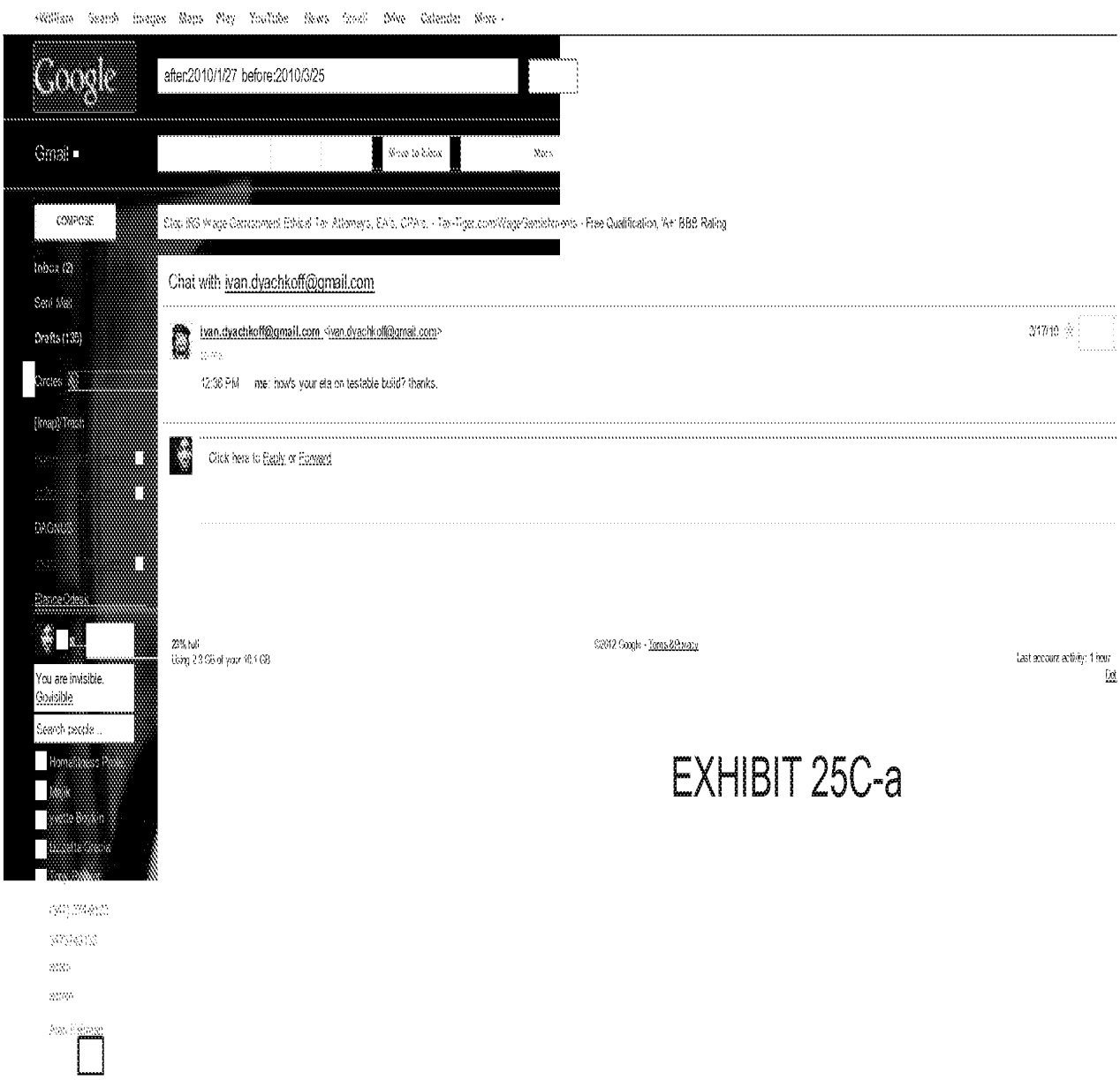


EXHIBIT 25C-a

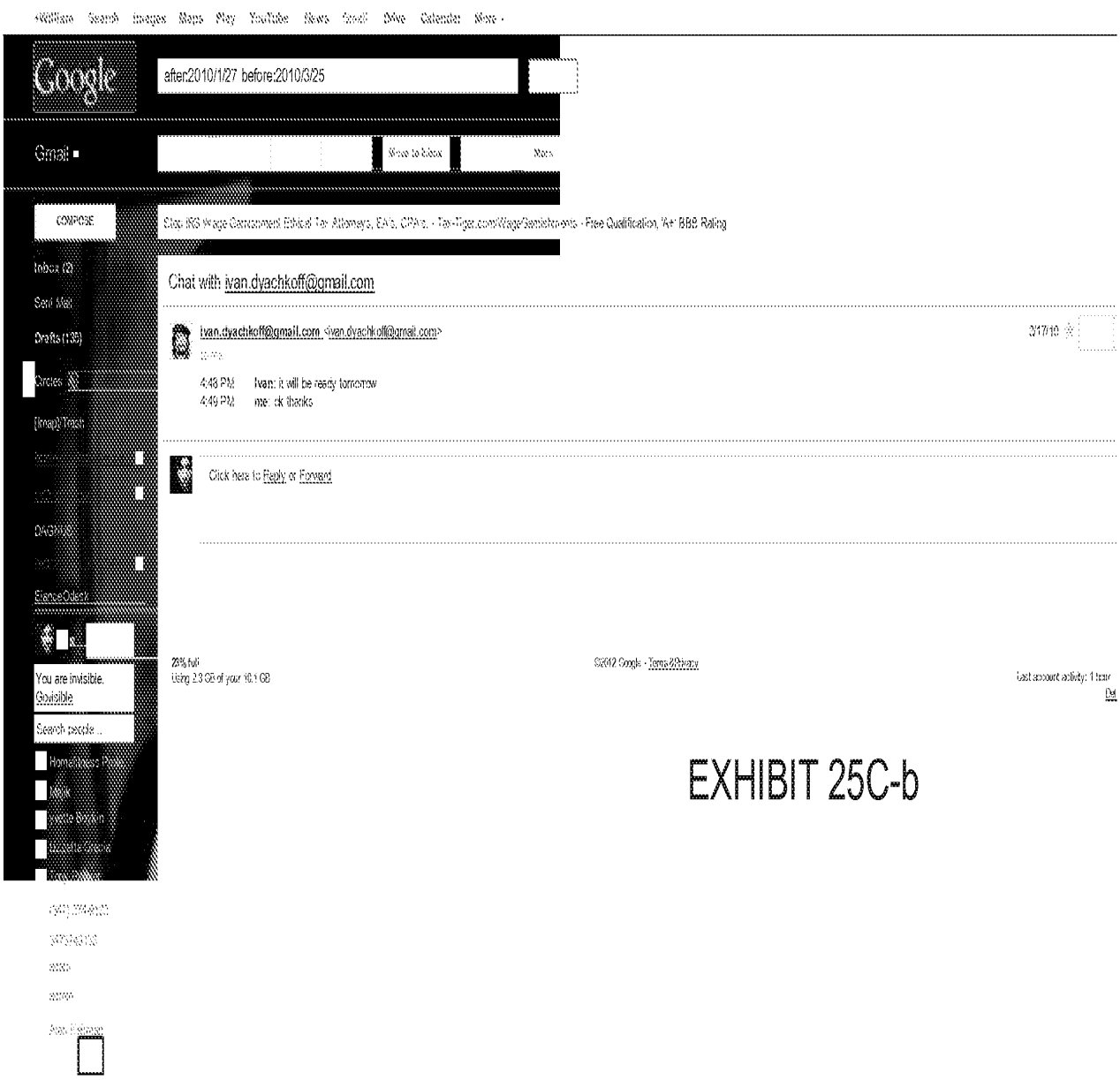
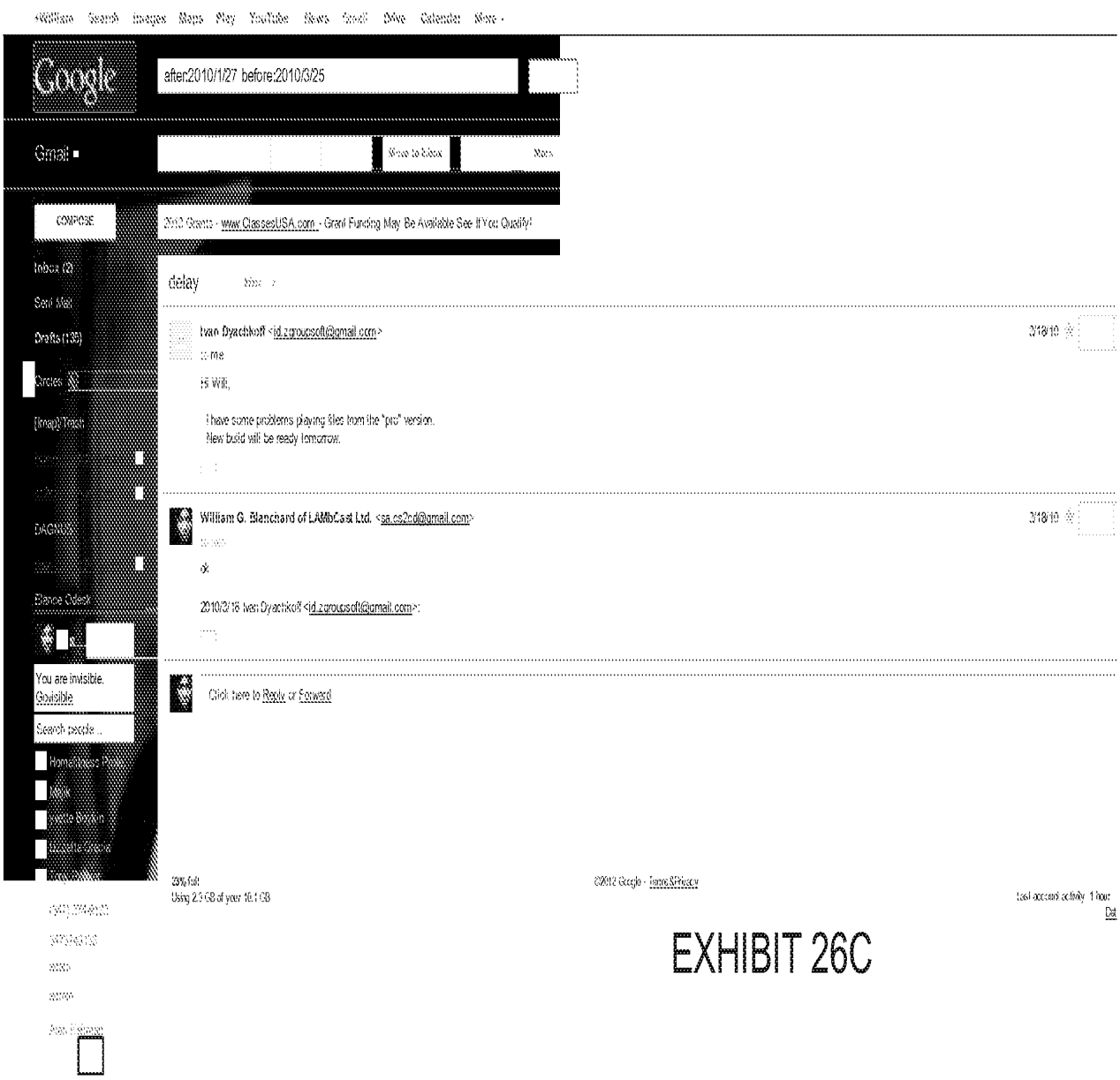


EXHIBIT 25C-b



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Elizabeth Greene

Tony Chavez

(347) 274-6123

(347) 243-1123

Alan Feldman

delay

Inbox

Ivan Dyachkoff <id.zgroupsoft@gmail.com> 2/18/10

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. <sa.cs2nd@gmail.com> 2/18/10

to me

ok

2010/2/18 Ivan Dyachkoff <id.zgroupsoft@gmail.com>:

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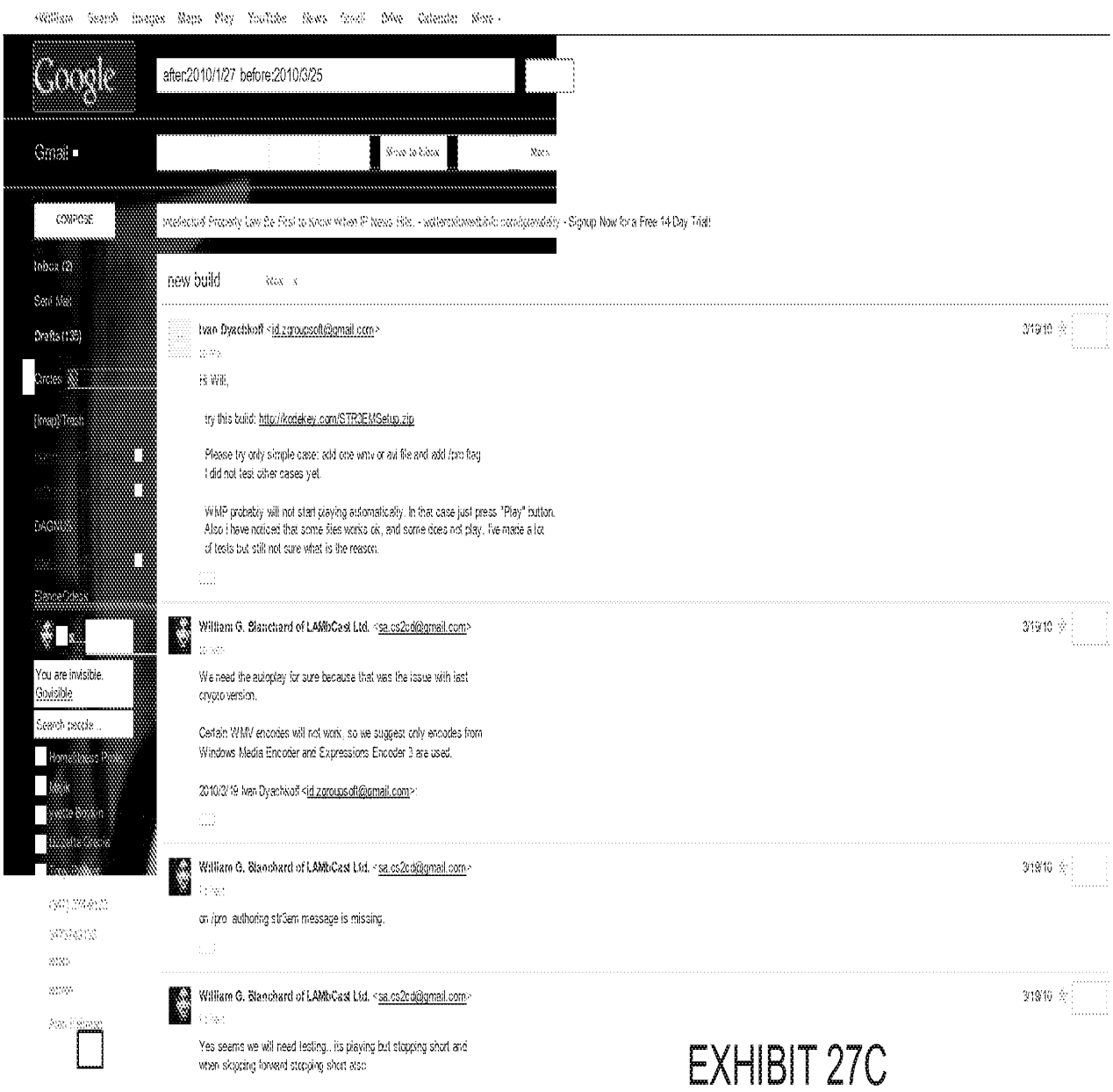

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Zoroastrian

(347) 274-6123

(347)743-1133

Alan Feinman

new build

Inbox x

Ivan Dyachkoff <id.zgroupsoft@gmail.com> 3/19/10

to me

Hi Will,

try this build: http://kodekey.com/STR3EMSetup.zip

Please try only simple case: add one wmv or avi 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.cs2cd@gmail.com> 3/19/10

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 Ivan Dyachkoff <id.zgroupsoft@gmail.com>:

William G. Blanchard of LAMbCast Ltd. <sa.cs2cd@gmail.com> 3/19/10

to me

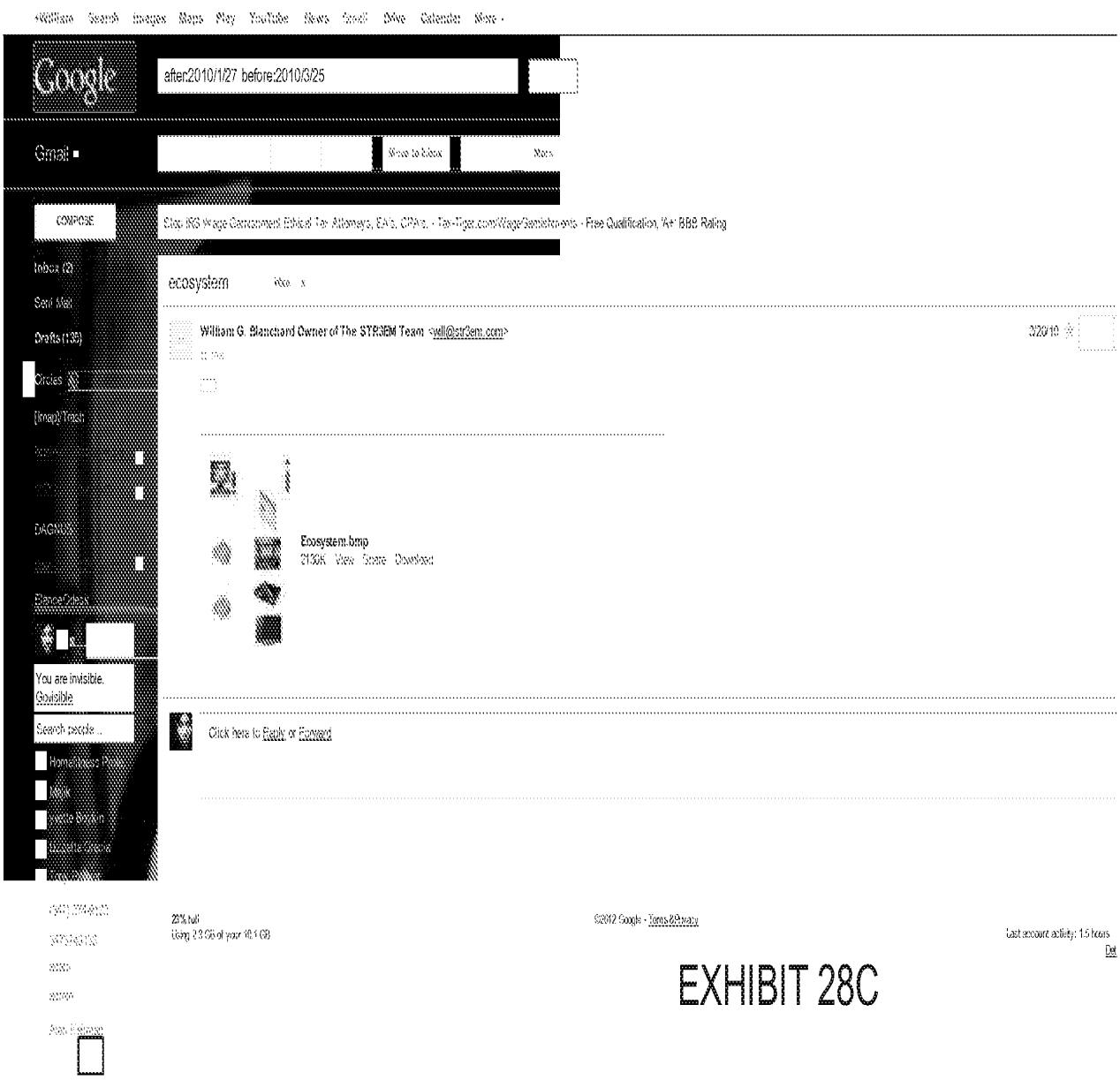
on /pro authoring str3em message is missing.

William G. Blanchard of LAMbCast Ltd. <sa.cs2cd@gmail.com> 3/19/10

to me

Yes seems we will need testing.. its playing but stopping short and
when skipping forward stopping short also

EXHIBIT 27C



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COMPOSE

Stop IRS Wage Garnishment Ethical Tax Attorneys, EA's, CPA's. - Tax-Tiger.com/WageGarnishments - Free Qualification, 'A+' BBB Rating

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Kyrie Boykin

Bizzette Grand

Ecosystem

William G. Blanchard Owner of The STR3EM Team <will@str3em.com>

2/20/10

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EXHIBIT 28C

Electronic Acknowledgement Receipt

EFS ID:	7251023
Application Number:	12728213
International Application Number:	
Confirmation Number:	4966
Title of Invention:	PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM EXHIBIT 29C
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70568
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	23-MAR-2010
Filing Date:	
Time Stamp:	01:07:13
Application Type:	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	Oath or Declaration filed	srdem_oath.pdf	805994 [illegible]	no	4

Warnings:	
Information:	

2	Information Disclosure Statement (IDS) Filed (SB/08)	str3em_ids.pdf	289346	no	2
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3		str3em_patent.pdf	588202	yes	42

EXHIBIT 29C

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	41267	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1724829		

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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 - 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.

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MY ELANCE HIRE FIND WORK MANAGE RESOURCES Contractors Go Post Your Job

Provisional conversion to USPTO patent draft

Elance (ET) 10:38 am

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Work View ™

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Terms & Milestones

Proposals

Alerts

Team

More

Applications

View All

Add Attachment

Post Message

Sender Message 1Attachments Date/Time

Filter Messages

Message Filter

From 02/01/2010 To 03/22/2010 Clear Filters

Hitesh C. Hi William, Mar 20, 2010 11:58 am

Thanks for providing an encouraging feedback and releasing the payment.

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, Mar 19, 2010 1:42 pm

I will accept this work as it is good for our filing.

I will close this job and release the funds.

Thanks for this great work.

-Will

Hitesh C. Hi William, Mar 19, 2010 1:30 pm

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

Digital_Rights_Managemet_-_March_19_.pdf

william g. I a thinking the "encrypted digital media" is ok. Mar 19, 2010 7:04 am

Can we just get the update on figures and I feel we are ok

Thanks

-Will

william g. Hi Rohit, Mar 19, 2010 6:47 am

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 can be inserted into the PDF at proper aspect ratio.

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Hitesh C.

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EWS-002754

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_Managemet_-_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 2:36 pm

As for claims, I think we should work within the 5/33 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 (5 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 entity)

EWS-002755

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 Rahit. Mar 09, 2010 3:46 pm

We should set a new deliverable date. Please advise.

Thanks,

-Will

william g. Hi Rahit. Mar 04, 2010 12:04 pm

Sorry, I have a correction to the Unique_Identifier doc in wording which was corrected in the "rev8" document attached. Please use this one.

thanks

-Will

Unique_Identifier_rev8.doc

william g. Hi Rahit. Mar 04, 2010 11:52 am

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

william g. Hi Rohit. Mar 02, 2010 6:06 pm

My tel: (212) 372-0293

Skype is: lambcast

Hitesh C. Hi William, Mar 02, 2010 2:56 pm

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

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. Mar 01, 2010 1:30 pm

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 invention. 301 - is the GUI of the apparatus for entering the

EWS-002756

Token. 302 - is the read/writable metadata of the digital media. 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,

Prema

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_...

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 2:09 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,
Prema

---> william g. Here is the provisional number and claims the priority date: Feb 19, 2010 1:52 pm <----

USPTO provisional 61303292

Priority date: 2/19/10

ATTENTION EXAMINER

william g. Product in which this is reduced to practice: Feb 19, 2010

EWS-002757

11:49 am

Homepage: http://www.str3em.com/Home

System in provisional in product:
http://www.str3em.com/User_Instructions#Playing...

I added an additional marketing document for any useful information which can be gathered.

KKPROVISIONAL.pdf

KKProvisional.doc

STR3EM_Marketing.pdf

All times are in EST (UTC-05:00)

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MY ELANCE HIRE FIND WORK MANAGE RESOURCES Contractors Go Post Your Job

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PDMAS_conversion.doc Uploaded Jan 14, 2011 - 11:09 am by williamg.	160 KB	Options
PDMAS.pdf Uploaded Jan 14, 2011 - 11:00 am by williamg.	160 KB	Options
12728218_4.pdf Uploaded Jan 03, 2011 - 04:30 pm by williamg.	507 KB	Options
Continuation_Application_... Uploaded Aug 19, 2010 - 04:13 am by Hitesh C.	125 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 19, 2010 - 06:47 am by williamg.	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_rev8.doc Uploaded Mar 04, 2010 - 12:04 pm by williamg.	16 KB	Options
Unique_identifier_.doc Uploaded Mar 04, 2010 - 11:52 am by williamg	15 KB	Options
Claims_-_First_draft_-_March_1... Uploaded Mar 01, 2010 - 11:14 am by Hitesh C.	37 KB	Options
STR3EM_Marketing.pdf Uploaded Feb 19, 2010 - 11:45 am by williamg.	2.7 MB	Options
KKProvisional.doc Uploaded Feb 19, 2010 - 11:45 am by williamg.	276 KB	Options
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EWS-002759

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 will 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 loosing 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 my 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 Facbeook "Friends.areFriends" API command.

XML return example of the Facebeook "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

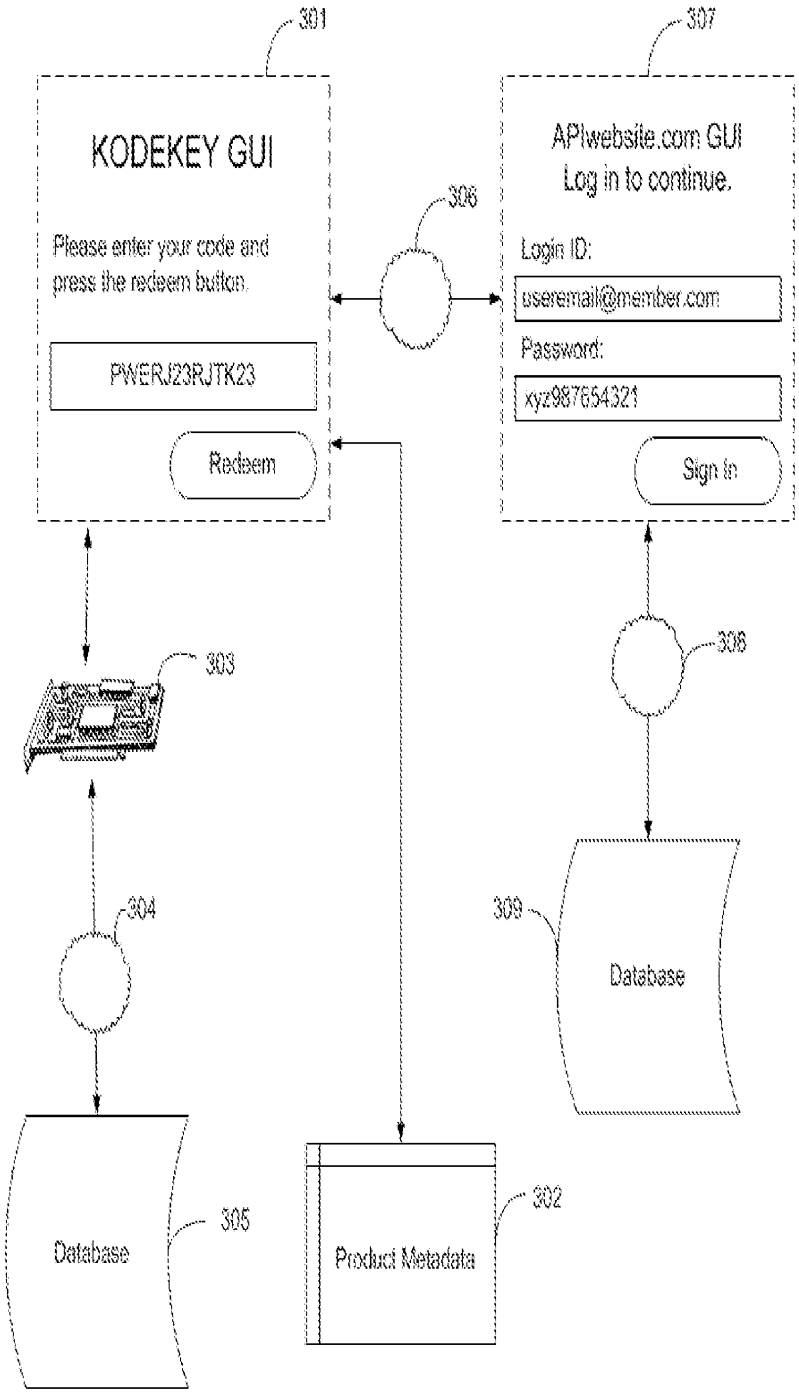

301
KODEKEY GUI
Please enter your code and press the redeem button.
PWERJ23RJTK23
Redeem
306
307
APIwebsite.com GUI
Log in to continue.
Login ID:
useremail@member.com
Password:
xyz987654321
Sign In
303
304
305
Database
302
Product Metadata
306
309
Database

Figure 2

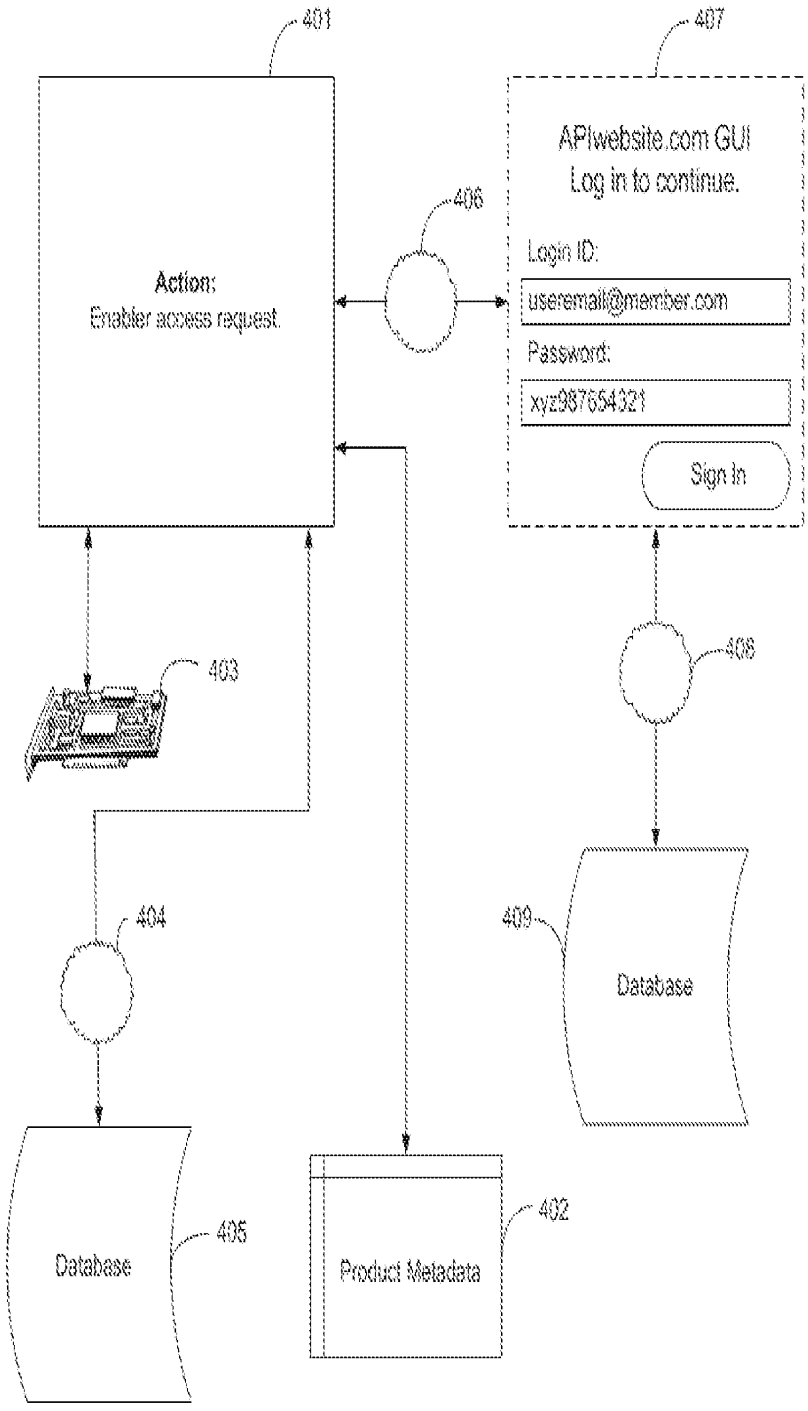
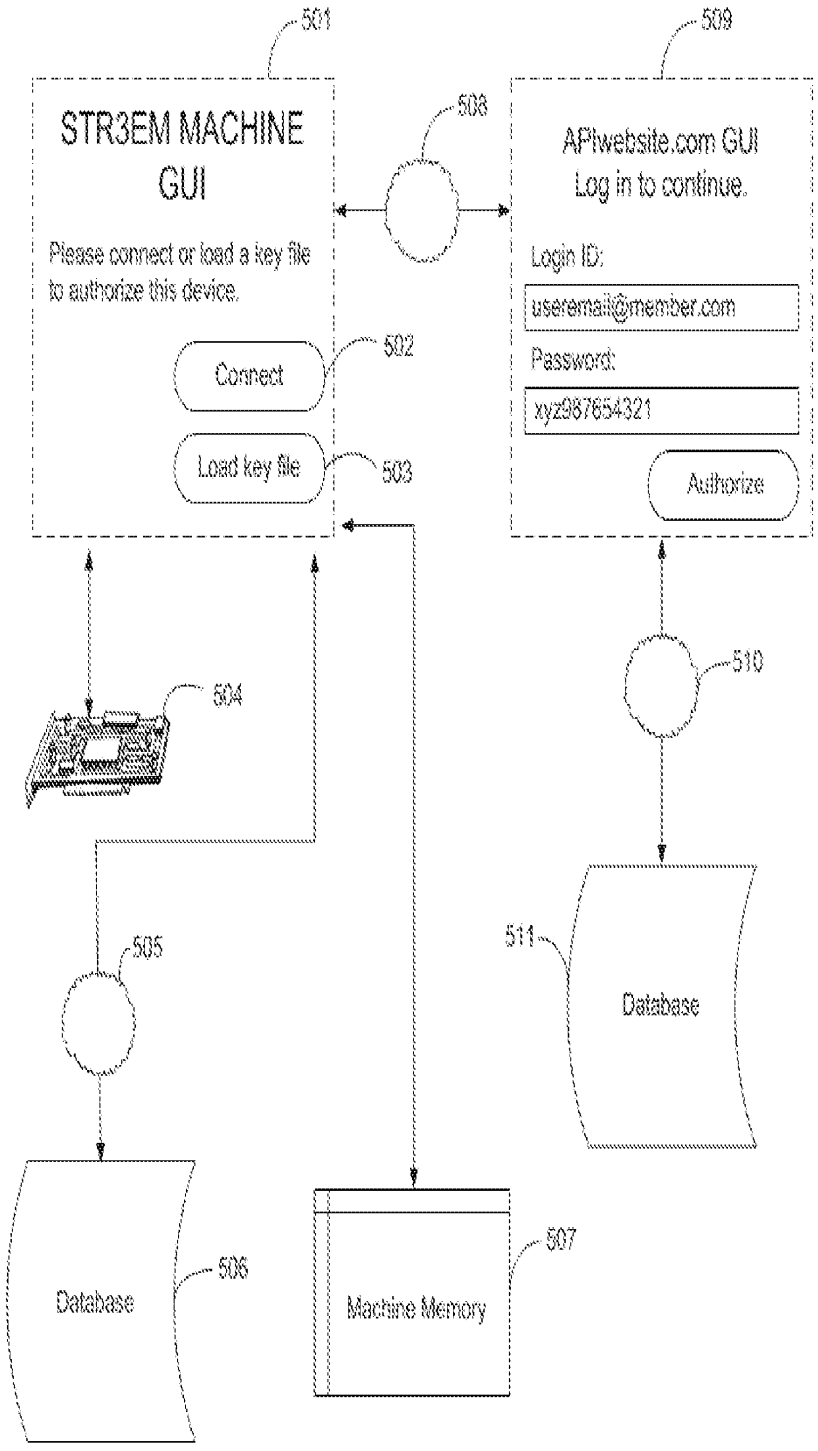
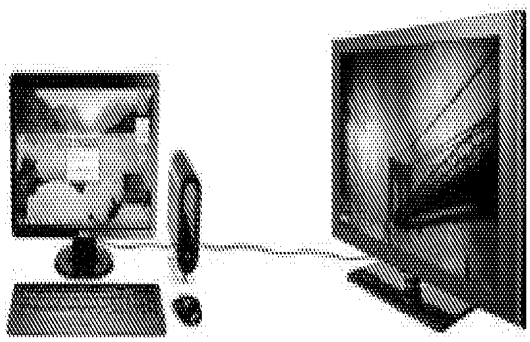

401
407
APIwebsite.com GUI
Log in to continue.
406
Action:
Enabler access request.
Login ID:
useremail@member.com
Password:
xyz987654321
Sign In
403
408
404
409
Database
Database
405
Product Metadata
402

Figure 3


501
509
STR3EM MACHINE GUI
Please connect or load a key file to authorize this device.
508
APIwebsite.com GUI
Log in to continue.
Login ID:
useremail@member.com
Password:
xyz987654321
Connect
502
Load key file
503
Authorize
504
510
505
511
Database
Database
506
Machine Memory
507

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).

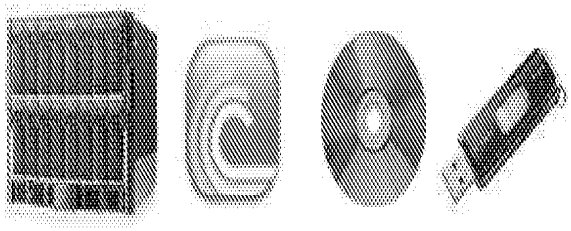
Client demographics range from the motion picture industry, television, pay-per-view, music industry, and higher learning institutions. For government and corporate clients, STR3EM is available in a variety of classified level AES 256-bit encrypted versions.

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

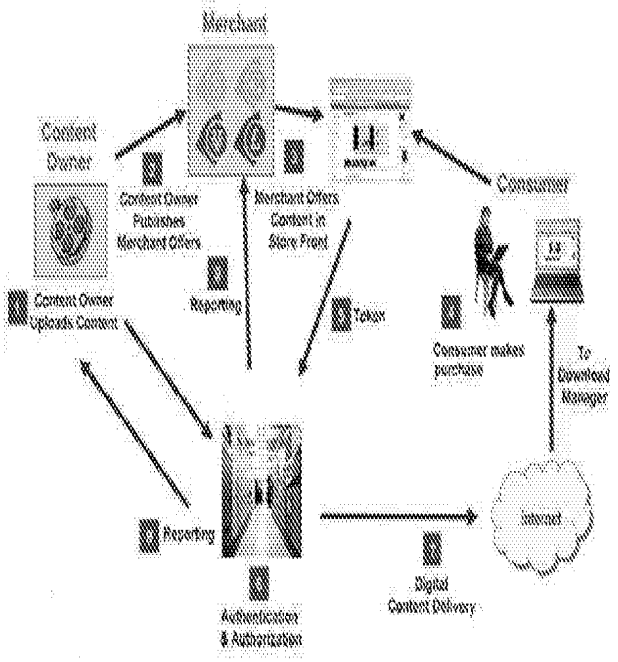
Format Power Points

* 1 billion+ compatible machines
* New licensing opportunities
* Patentable digital rights system
* Patentable format infrastructure
* Built-in automated royalty system
* Follows tradition of optical media

KodeKey

Digital delivery with the buying power of physical media.

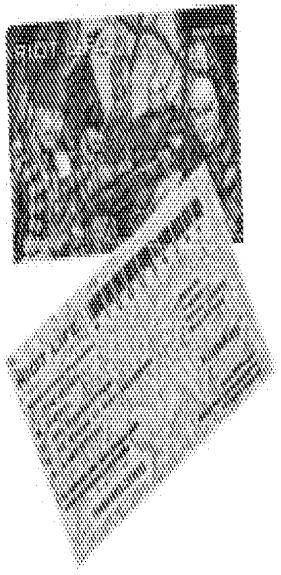
KodeKey joins the retail business model of physical media with the power of digital delivery. Content providers can control unit inventories of STR3EM products by generating and selling password lists to retailers. Kodekeys can be voided by a content owner at any time.



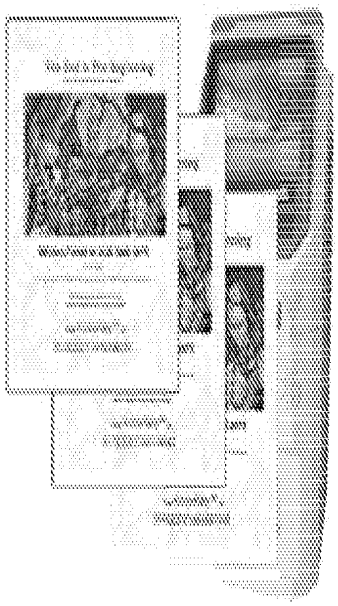
Variable data printing products compatible with KodeKey distribution:

Magazines and newspapers

Retail cards and hangers



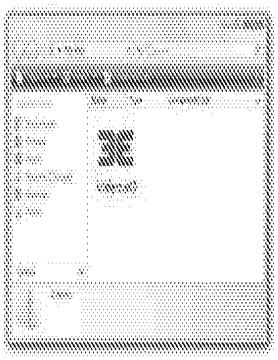
Paper printing in-store kiosks



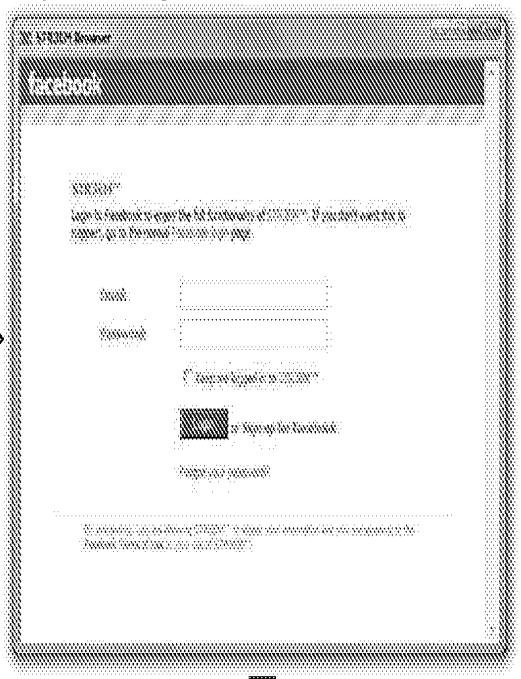
Patent Privileged: Personalized Digital Media

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 1 - users open files



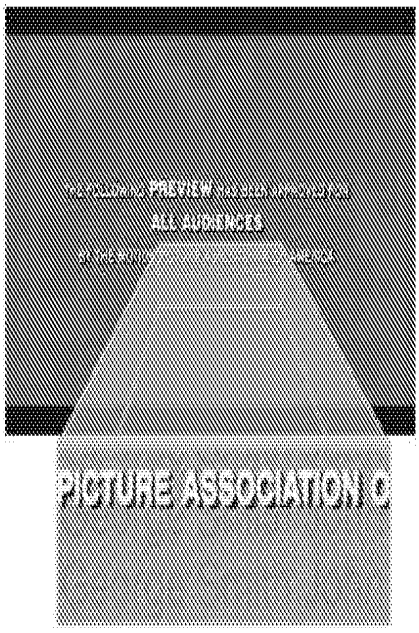
Step 2 - users sign-in to Facebook or auto with cookie.

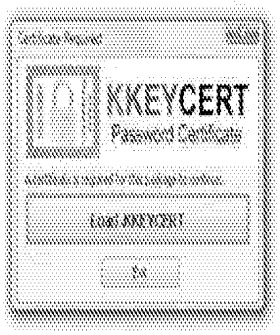


Step 3 - files open and play instantly on any machine that accepts STR3EM media.

SCREENER Mode

Screener 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 Screener 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. Screener 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 Screener Mode.





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 CnetÂs download.com. Patent documentation is currently in draft and this property has until December 2, 2011 to f le any PCT patent applications under the 1 year rights rule. The next 3 pages will show the 3 f gures 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.

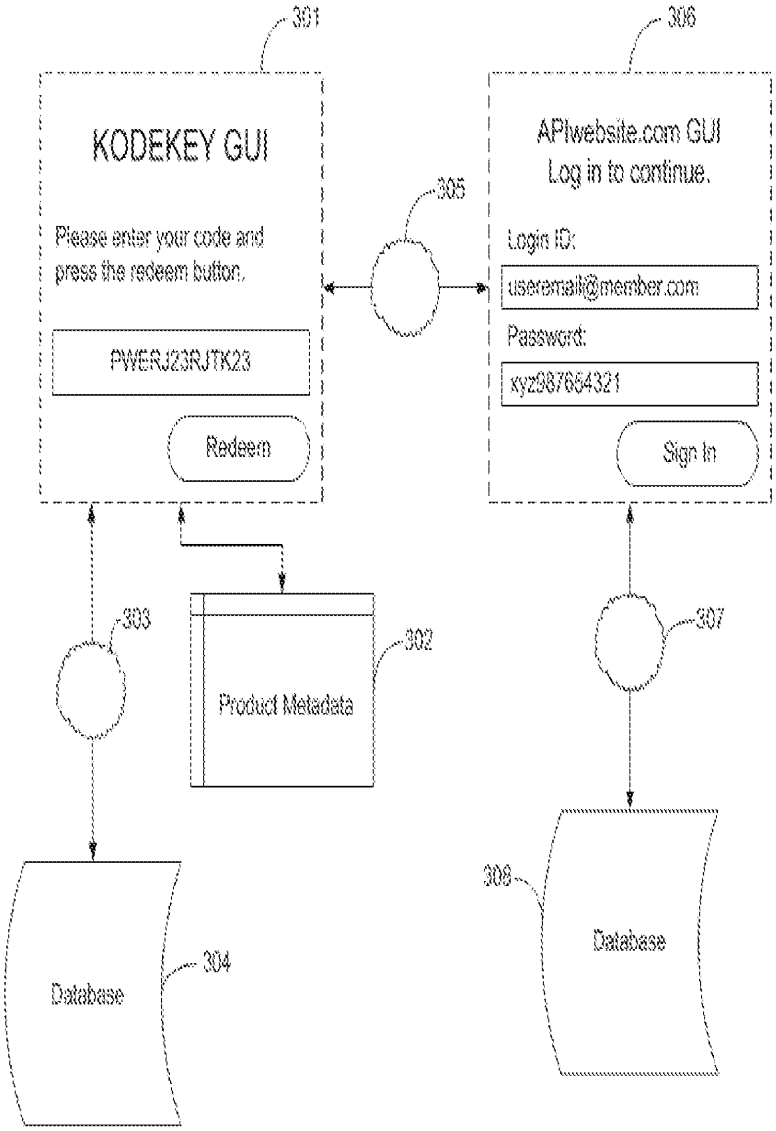


Figure 2 - personalized digital rights management component as part of an encrypted media asset scheme with writable metadata. Figure 2 represents an open request in which an authorization sequence action is executed of a file in which the redemption and branding scheme has taken place.

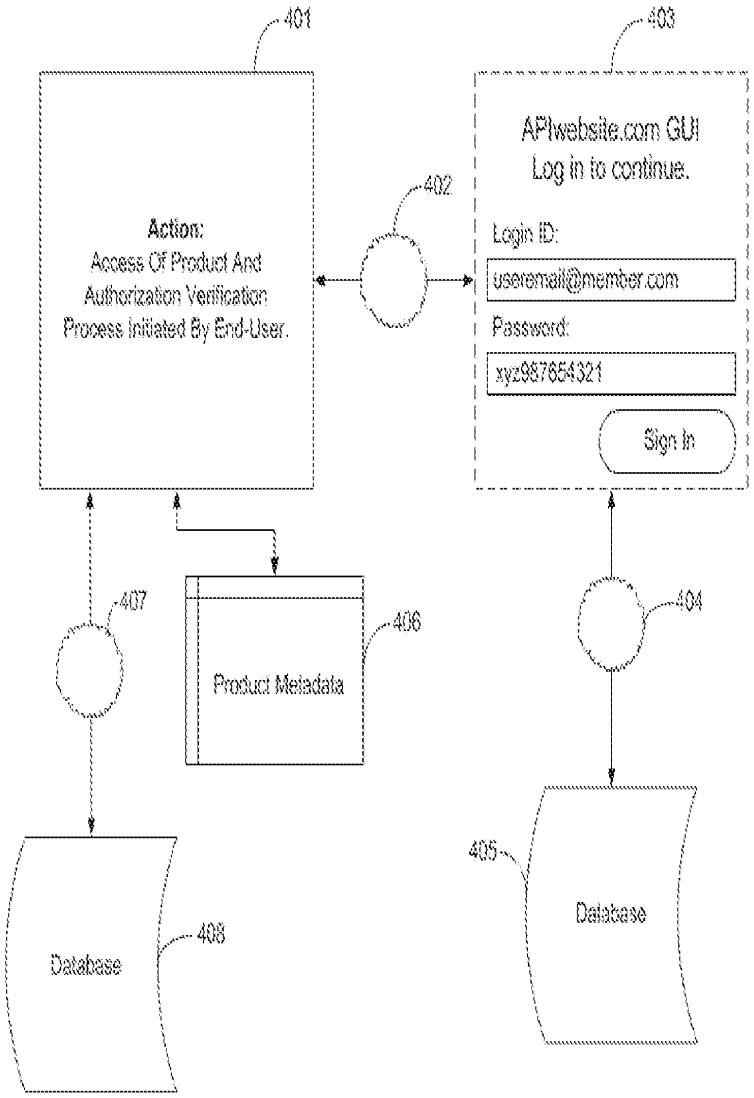
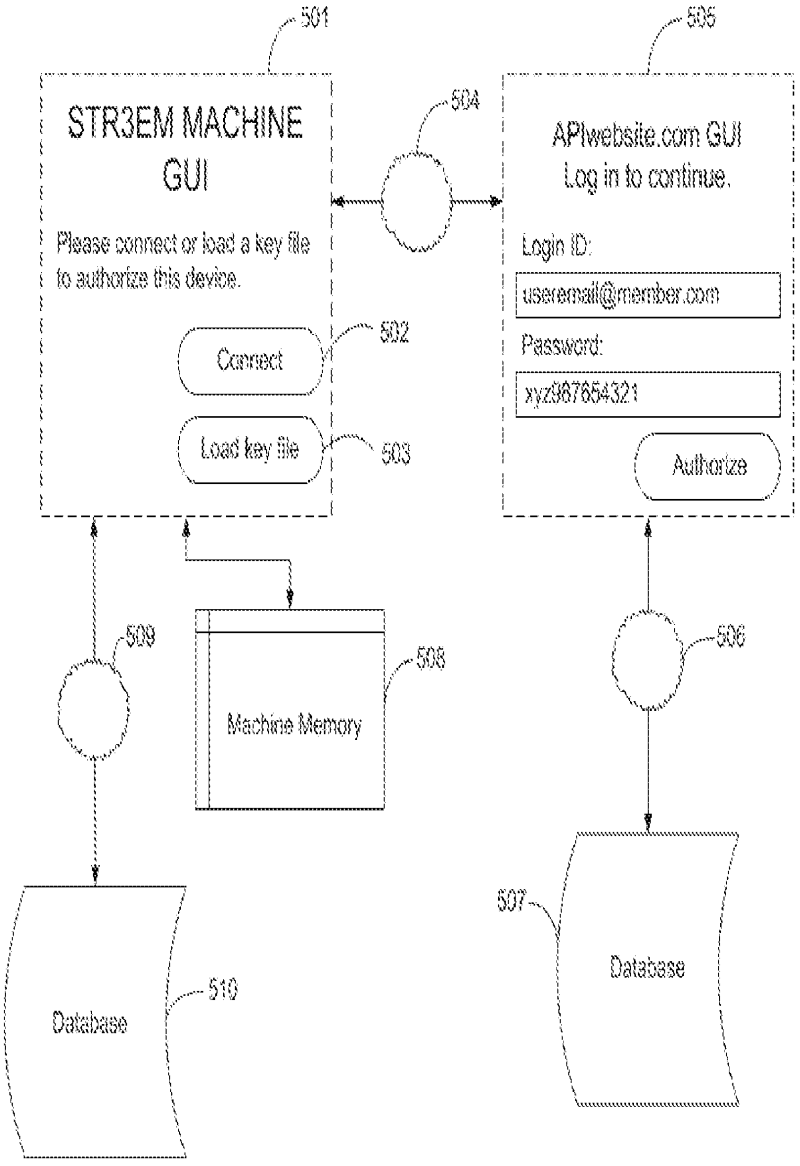
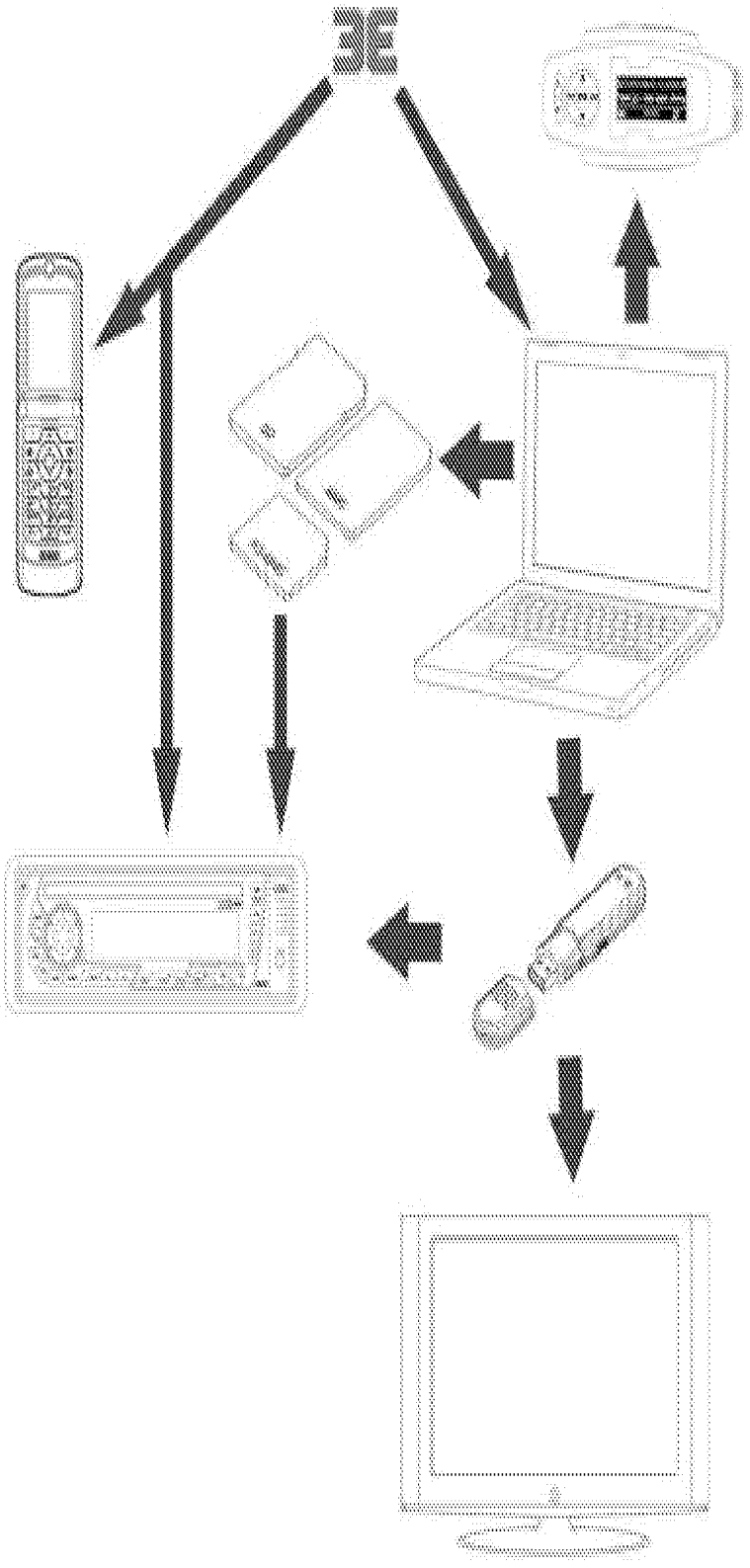


Figure 3 - personalized digital rights management component as part of a compatible machine with writable static memory. Figure 3 represents an authorization sequence action in which a machine is authorized to accept a personalized digital media file. Traditional DRM methods embed an authorization key 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



Installation

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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 wwwstr3em.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 wwwfacebook.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.

To manage your machine authorizations:

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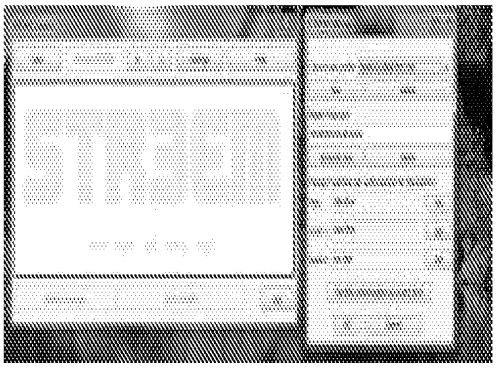
Step 1 - Open the STR3EM application and press the "Settings" button.



Step 2 - Press the "Set" button next to the user slot you wish to set a machine authorization for.

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

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PC to TV Guide

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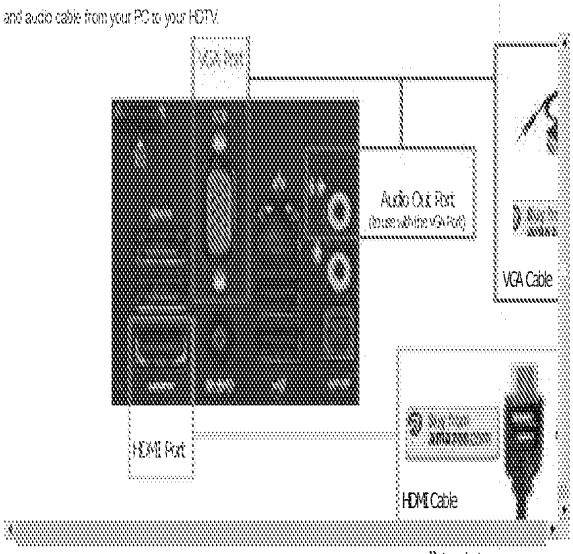
Most Windows 7 PCs sold in the market today come ready to connect to a HDTV with an HDMI port. All computers come with a VGA port that can be connected to either a dedicated computer monitor or a HDTV. Connecting a PC to a television is becoming more popular due to smaller machine designs and HDTV friendly 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

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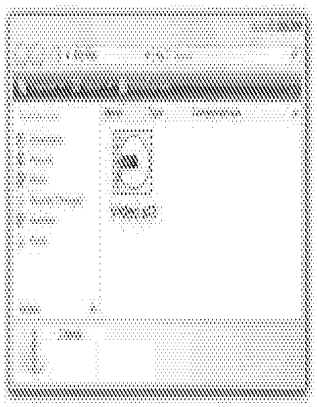
Playing STR3EM Files

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.

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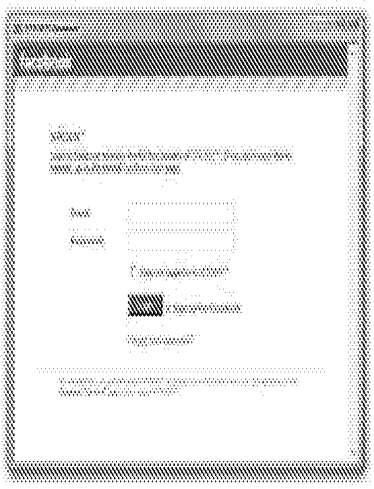
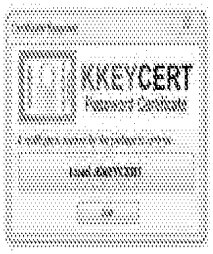
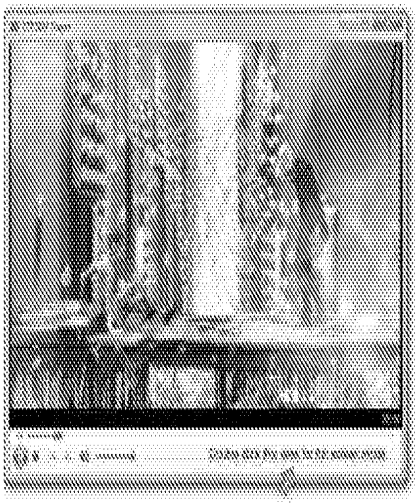


Step 3 - if required, load the KKEYCERT file given to you by your content provider.



Step 4- Playback will begin once the required steps are complete



Machine Authorization Management

CLICK HERE to learn more about machine authorizations.

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To manage your machine authorizations:

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

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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 asset is instantly seek ready. HTTP and HTTPS asset 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

Pre-mastering of a disc-at-once style single WAV with cue sheet track times multiplexed using MKV

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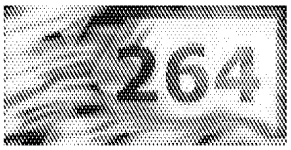
Toolnix and the MKVMerge GUI. http://www.bunkus.org/videotools/mkvtoolnix/

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:

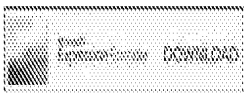
X264



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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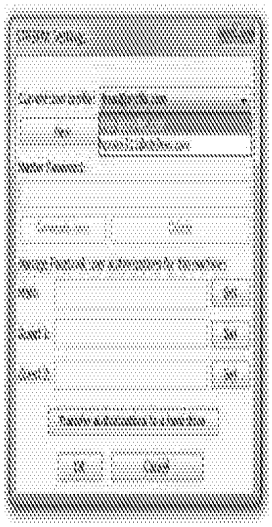
Before You Get Started



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 STR3EMVersion2.)

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:

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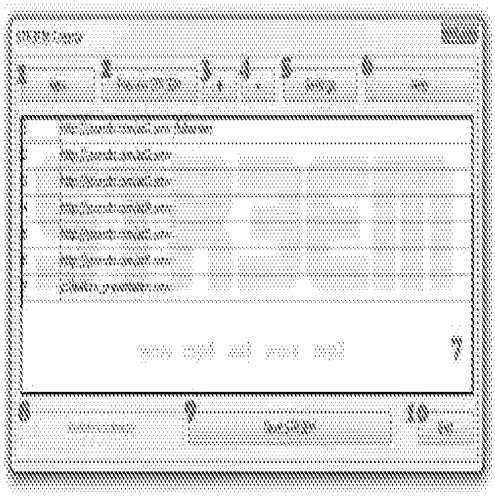

First, determine how many play items will make up your STR3EM file.

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 #5 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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STR3EM Version 2 (Pro)

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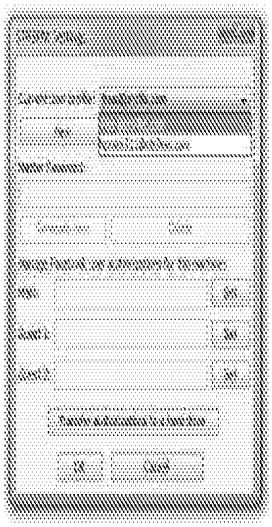
Before You Get Started



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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

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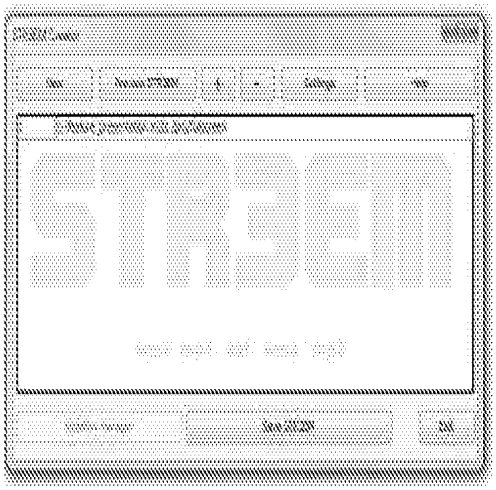
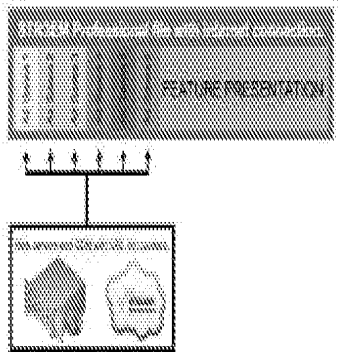
With the /fullscreen flag



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 /pre flag. If you are using the /fullscreen flag, then it must be placed on the very first asset track. Example

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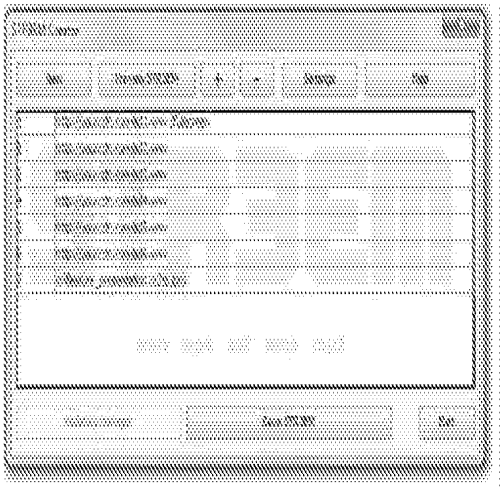

Go To Step 2 - The STR3EM Options Panel

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Options Panel

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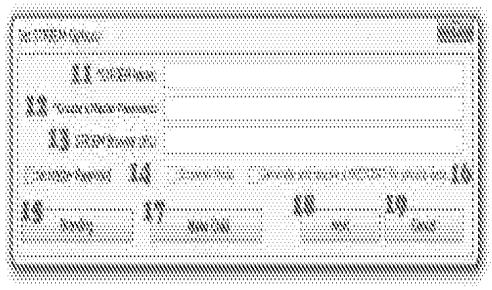
Authoring STR3EM Files Step 2 - The STR3EM Options Panel

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 manger 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.

CLICKHEREformore informationaboutsvrnparameters

Step 4 - Optional - Password bypass (field #14):

If you want to bypass the STR3EM Access 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 STR3EM Access Panel with a customized banner and panel header message.

CLICKHEREformore informationaboutbranding

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.

CLICKHEREformore informationaboutScreenerMode

CLICKHEREformore informationaboutKKEYCERT **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.

CLICKHEREformore informationaboutmakingChildfiles

Step 7 - Required - Start authoring (field #18):

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Press button #18 to start the authoring 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 #18.

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 depreciated 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.

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 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.

Search our website.

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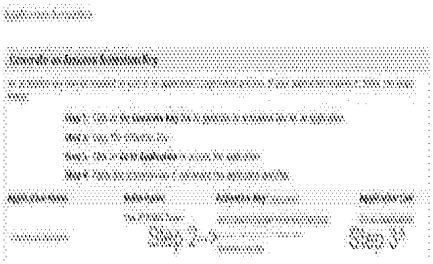
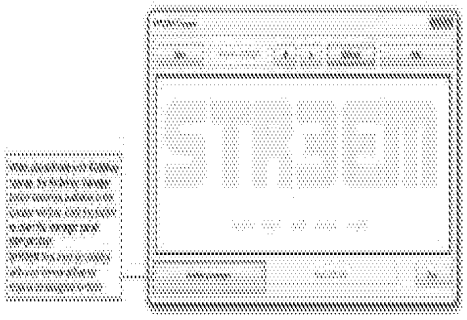


You must use the same email address first registered with your KodeKey Rights Locker. If you use a different email address, then a new rights locker cloud is created under your billing account. KodeKey management is not possible with different email accounts under the same billing account. Best practice is to keep a KodeKey Rights Locker account under a single email username for your fleet of workstations.

KodeKey Management Instructions

IMPORTANT: only use KodeKeys generated by the STR3EM application. Passwords generated outside of the STR3EM application will not work and you will be charged for any non-formatted keys imported to your account.



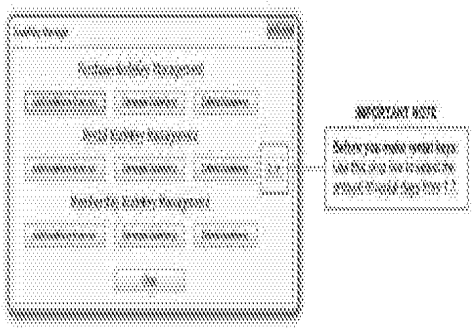
KODEKEY TYPES

There are 3 types of KodeKeys:

Purchase - purchase keys will grant ownership rights to the buyer.

Rental KodeKeys - rental keys will grant temporary access rights to the buyer for a period of 1 to 7 days. After the rental period is over, the buyer can use another KodeKey. A version of rental KodeKey without Facebook is also available but does not provide access control.

Membership KodeKeys - membership keys grant access to all STR3EM files created under a license account. Memberships can be voided at any time by using the "Delete KodeKeys" button with a CSV file listing the keys for termination. Buyers with voided keys will no longer have access to files under the license and will see the STR3EM Access Panel when they open files. In such event, the user can use another available KodeKey type. Voided membership keys can be reinstated by using the "Add KodeKeys from csv" button with a CSV file listing previously used keys. In such event, the buyer will regain access to all STR3EM files under a license account. A version of membership KodeKey without Facebook is also available and reserved for the Operator KodeKey requirement of our DAGNUS authentication server.



KODEKEY MANAGEMENT ACTION BUTTONS

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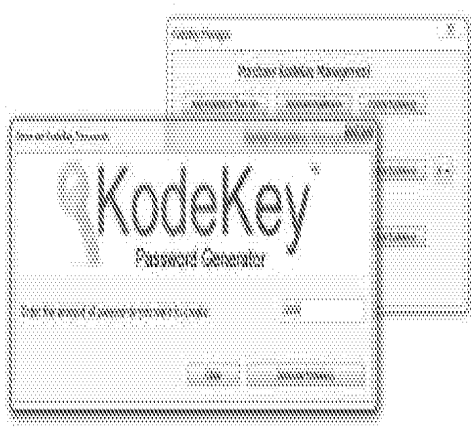
Press the "Generate KodeKeys" button to select the STR3EM file you want to generate keys for.

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.

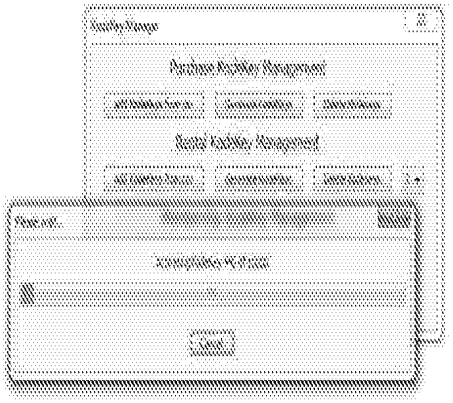
Press the "Add KodeKeys from csv" button to select the STR3EM file you want to import KodeKeys for, and then select a CSV list of KodeKeys that were previously generated for the same or different STR3EM file. This function is useful for offering multiple files as part of a single purchase or replacement.

Creating and Activating KodeKeys



PLEASE NOTE: KodeKey activation runs average 20GB per hour with a 5Mbps 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 License. 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

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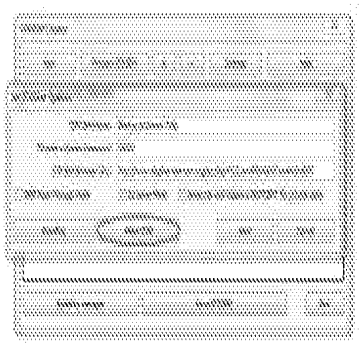
STR3EM ECOSYSTEM

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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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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Ecosystem Sync Parameters

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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?**FILID**and**FBINSERT**and**KKINSERT**

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:

EWS-002815

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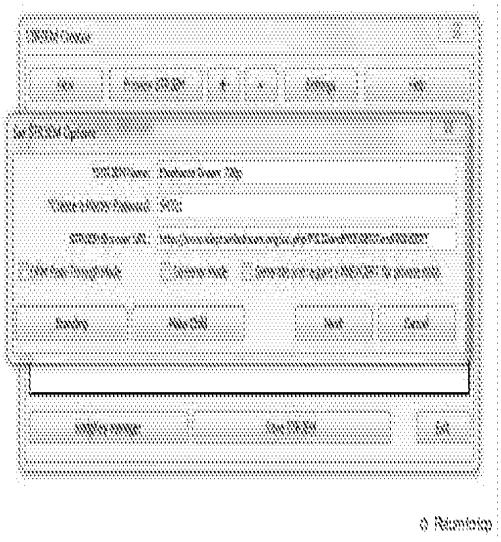

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Find File ID (Product ID)

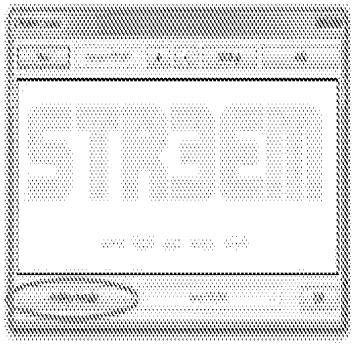
Search our website.

Google search

STR3EM ECOSYSTEM

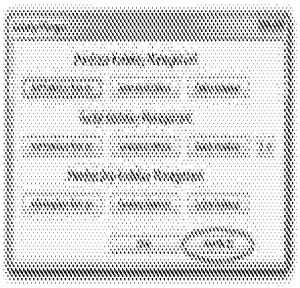
Use the File ID of a STR3EM file as the Product ID sync parameter of a STR3EM Ecosystem network. A Kodekey license is required to use this feature.

Step 1



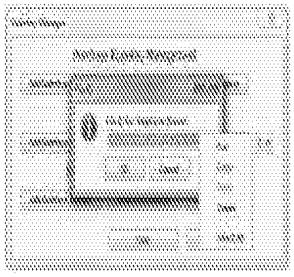
Open the STR3EM application and select the KodeKey Manager

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.

superseed 1Xbox 1Help

MY ELANCE HIRE FIND WORK MANAGE RESOURCES Contractors Go Post Your Job

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 1Attachments	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, 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	Mar 05, 2010 4:41 pm
william g.	Yes, will@str3em.com Thanks.	Feb 19, 2010 11:31 pm
Melissa R.	I just entered my bid and time frame. Can you please send me your direct email address, just in case Elance is ever unavailable? Thanks, Melissa	Feb 19, 2010 11:01 pm
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, 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	Feb 19, 2010 10:48 pm
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 its approach. I think up to 700 words is healthy for my needs Thanks -Will	Feb 19, 2010 9:17 am

People Add

In Workroom

william ...

superseed

Not In Workroom

Melissa ...

Words_by_Melissa
last login 9 hours ago

Recent Files

STR3EM_PR.doc

STR3EM_Marketing.pdf

View All 1Upload New File

Workroom Email Address [?]

[illegible]

Notification Settings [?]

EWS-002819

Melissa R.	Hello, 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	Feb 19, 2010 7:27 am

All times are in EST (UTC-05:00)

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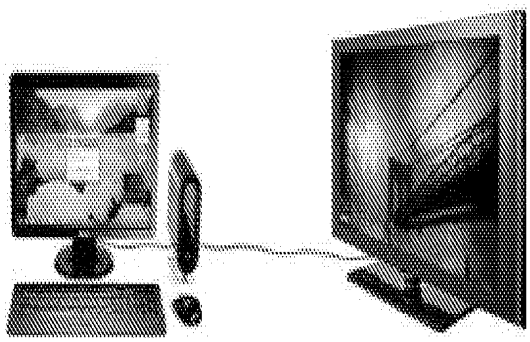
Continuing the tradition of optical disc technology to the future of digital delivery.

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).

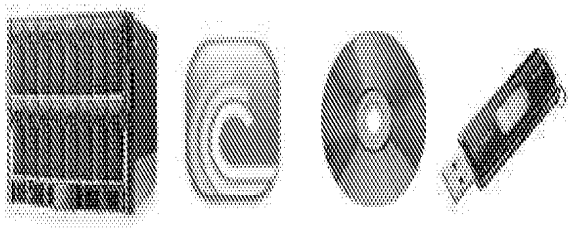
Client demographics range from the motion picture industry, television, pay-per-view, music industry, and higher learning institutions. For government and corporate clients, STR3EM is available in a variety of classified level AES 256-bit encrypted versions.

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

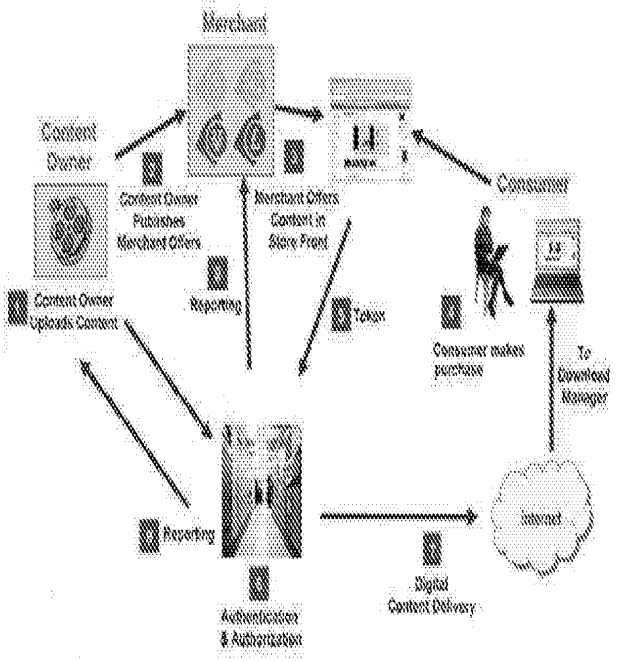
Format Power Points

* 1 billion+ compatible machines
* New licensing opportunities
* Patentable digital rights system
* Patentable format infrastructure
* Built-in automated royalty system
* Follows tradition of optical media

KodeKey

Digital delivery with the buying power of physical media.

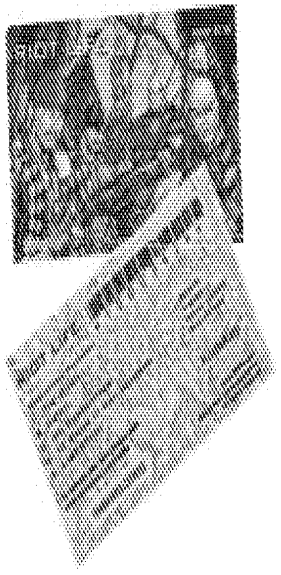
KodeKey joins the retail business model of physical media with the power of digital delivery. Content providers can control unit inventories of STR3EM products by generating and selling password lists to retailers. Kodekeys can be voided by a content owner at any time.



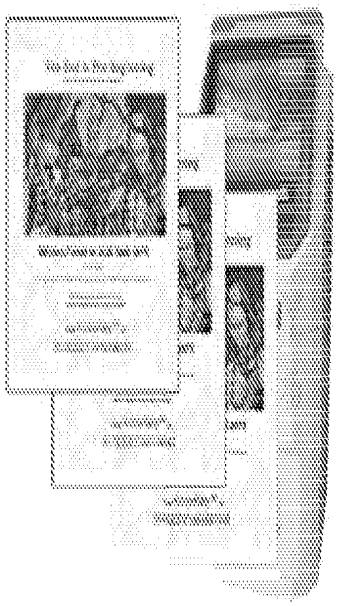
Variable data printing products compatible with KodeKey distribution:

Magazines and newspapers

Retail cards and hangers



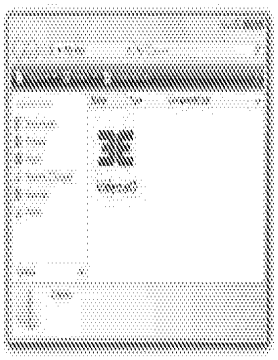
Paper printing in-store kiosks



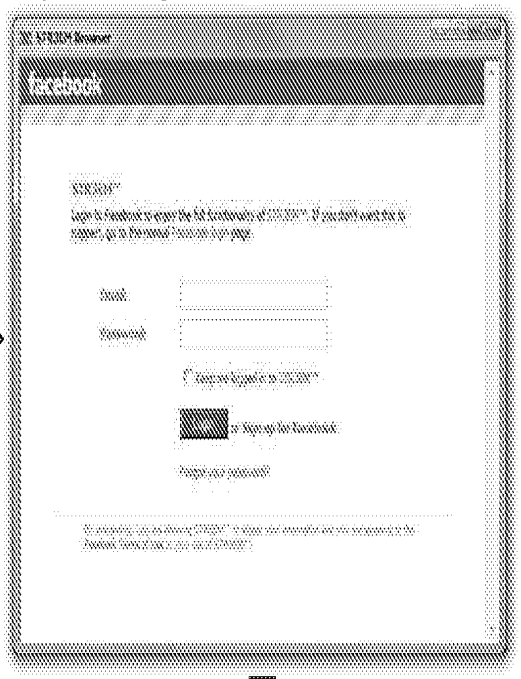
Patent Privileged: Personalized Digital Media

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 1 - users open files



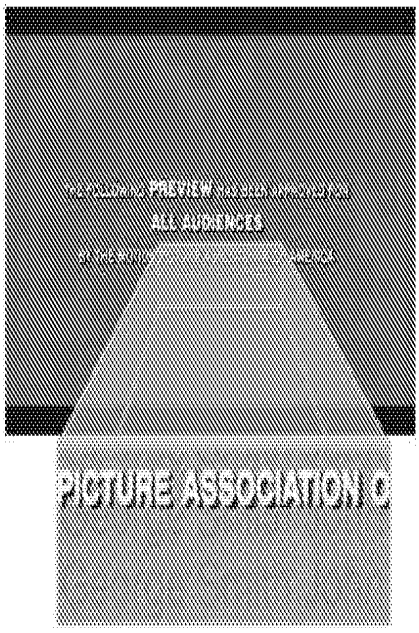
Step 2 - users sign-in to Facebook or auto with cookie.

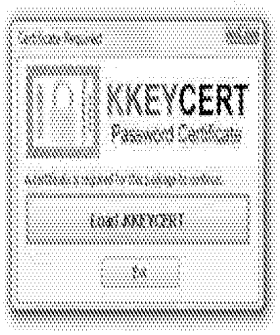


Step 3 - files open and play instantly on any machine that accepts STR3EM media.

SCREENER Mode

Screener 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 Screener 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. Screener 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 Screener Mode.





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 CnetÂs download.com. Patent documentation is currently in draft and this property has until December 2, 2011 to f le any PCT patent applications under the 1 year rights rule. The next 3 pages will show the 3 f gures 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.

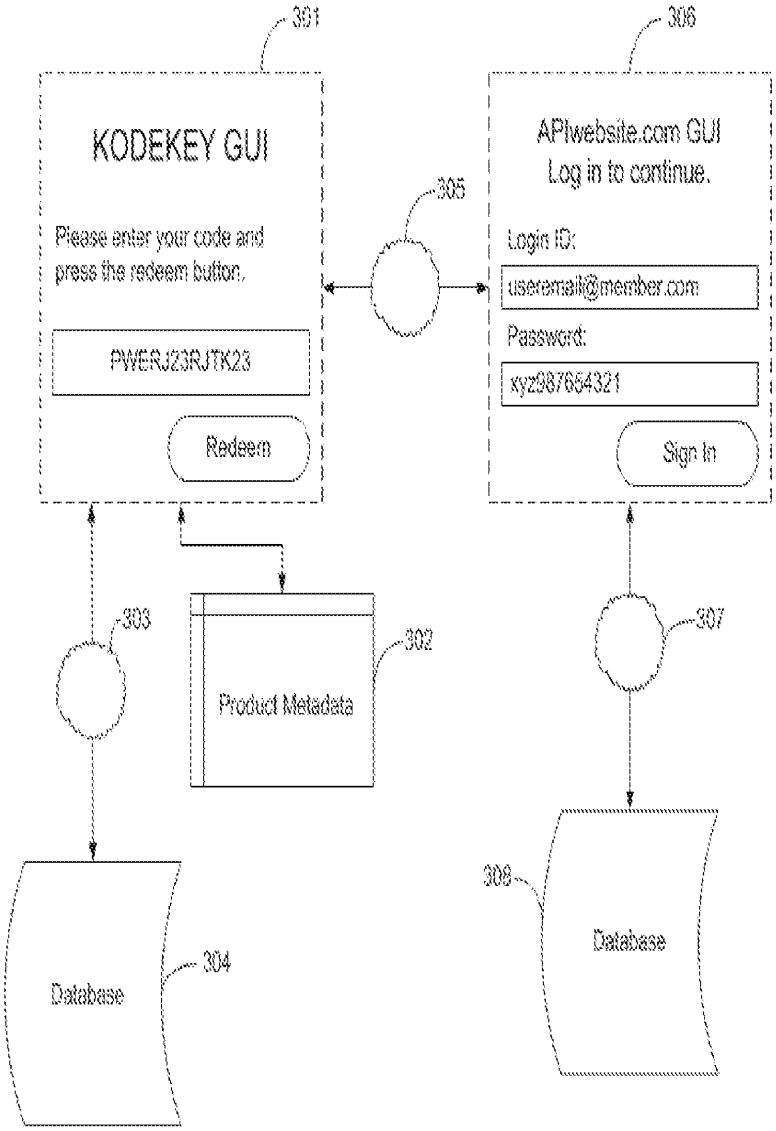


Figure 2 - personalized digital rights management component as part of an encrypted media asset scheme with writable metadata. Figure 2 represents an open request in which an authorization sequence action is executed of a file in which the redemption and branding scheme has taken place.

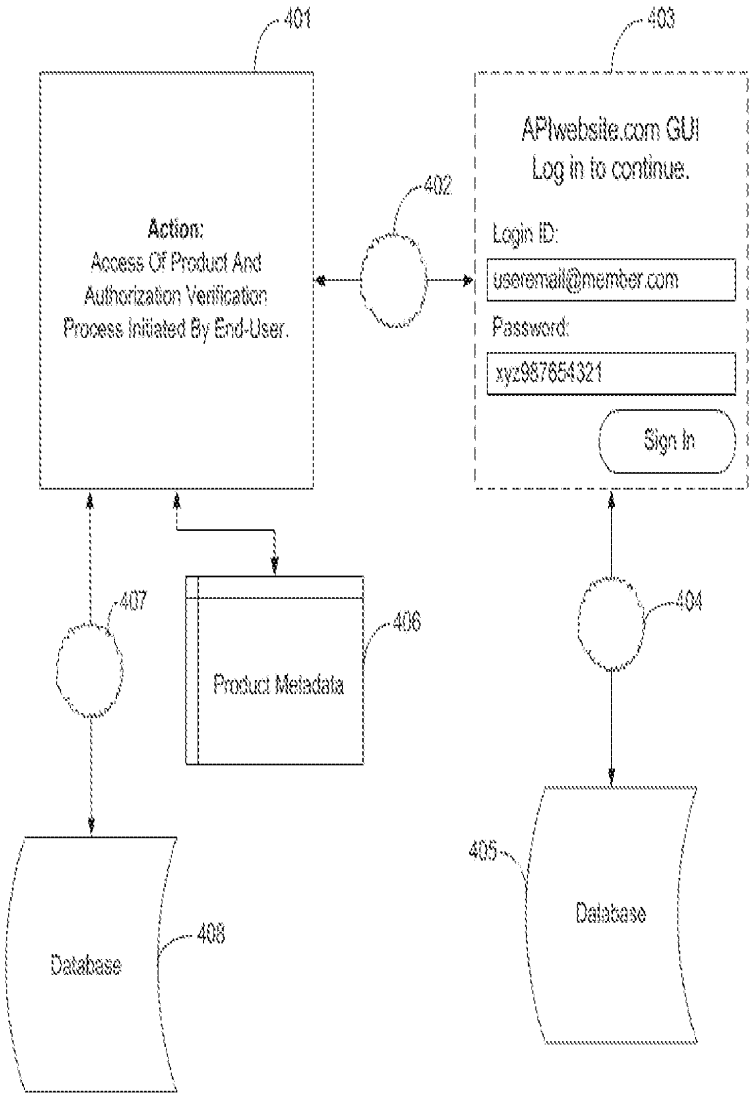
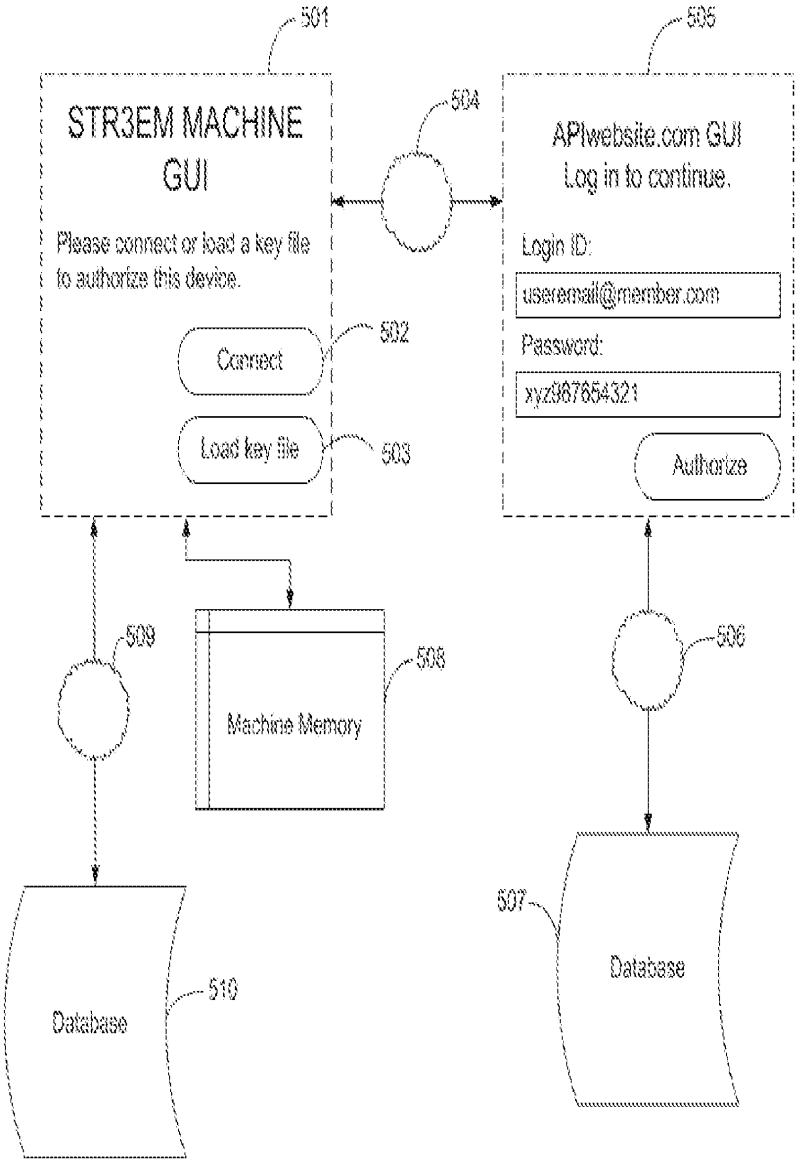
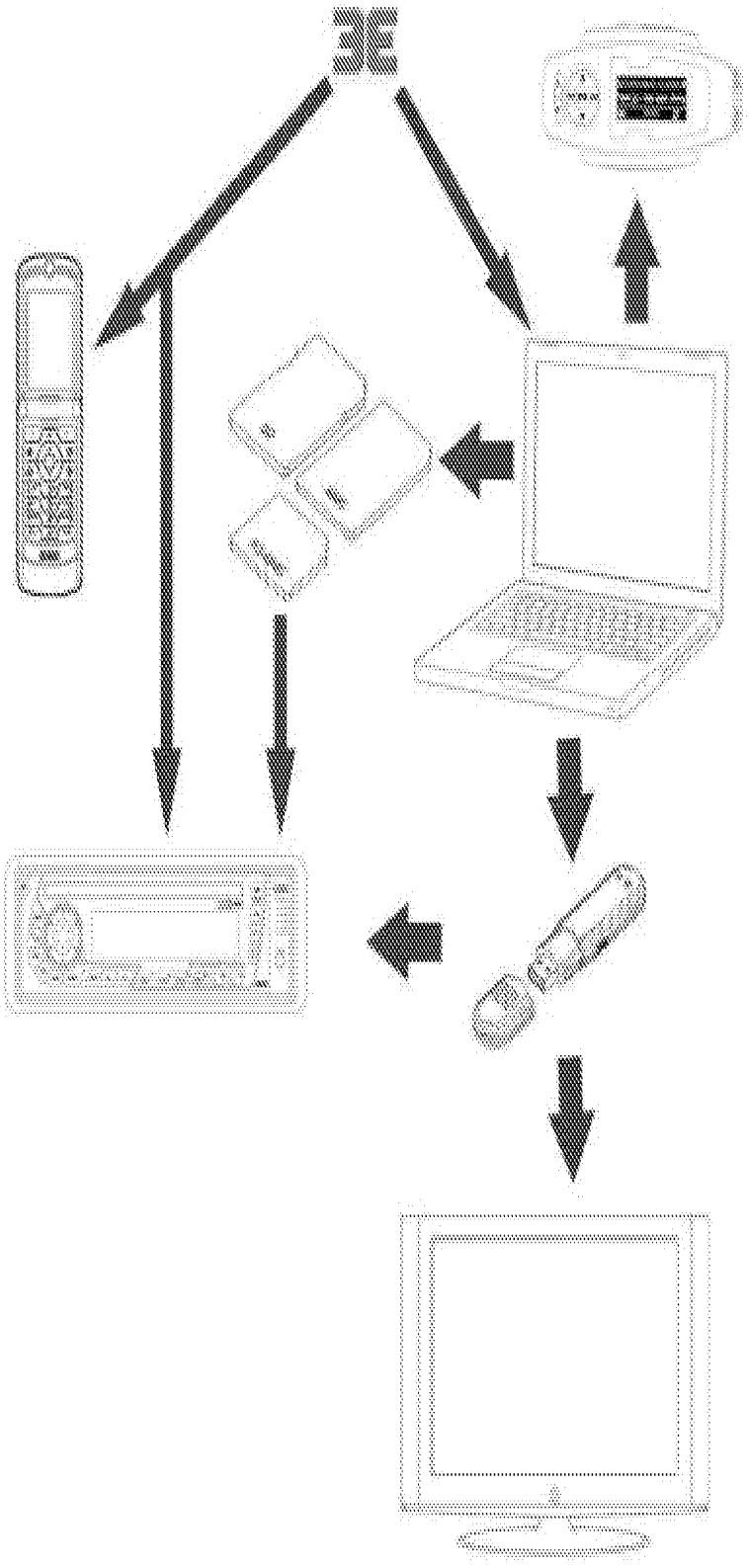


Figure 3 - personalized digital rights management component as part of a compatible machine with writable static memory. Figure 3 represents an authorization sequence action in which a machine is authorized to accept a personalized digital media file. Traditional DRM methods embed an authorization key 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.

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.

###

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 grecia

Re: [Elance Help Center] Re: Need Legal Records (ticket #685948)

December 1[illegible]7 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 unedited from my account "supereed" 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 forvalidation as per the document are 1) 19196078 and 2) 19195093

From: Elance Help Center <support@elance.com>
To: supereed <sr2ad@yahoo.com>
Sent: Friday, December 14, 2012 5:12PM
Subject: [Elance Help Center] Re: Need Legal Records (ticket #685948)

[illegible]

Jon, Dec 14 02:12pm (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

[illegible]

Electronic Acknowledgement Receipt

EFS ID:	14480246
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	15-DEC-2012
Filing Date:	15-FEB-2012
Time Stamp:	23:25:14
Application Type:	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	Rule 130, 131 or 132 Affidavits	1311WORK4.pdf	23634764 af002b606dbf42f3774958a682b5df65e6dc57c0	no	169

Warnings:	
Information:	

Total Files Size (in bytes):	23634764

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.

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
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.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	13/397,517	Filing Date	2012-02-15	Docket Number (if applicable)		Art Unit	2494
First Named Inventor	William Grecia			Examiner Name	Tran, Tri Minh		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☐ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No _____

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
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.

Signature of Registered U.S. Patent Practitioner			
Signature	/william grecia/	Date (YYYY-MM-DD)	2012-12-13
Name	William Grecia	Registration Number	70984

This collection of information is required by 37 CFR 1.114. 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 1.11 and 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, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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.

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
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.

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
Attorney Docket Number	

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	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[1]	Publication 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. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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[5]

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
	Attorney Docket Number	

	1	61/303,292 Abandoned USPTO Provisional Application (evidence to overcome examiner's last rejection in accordance with MPEP 2142)	☐

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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] 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
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)	2012-12-13
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

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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).

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Electronic Patent Application Fee Transmittal

Application Number:	13397517
Filing Date:	15-Feb-2012
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Filer:	William Grecia
Attorney Docket Number:	B7-1

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
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($)
Miscellaneous:				
Request for continued examination	2801	1	465	465
		Total in USD ($)		**465**

Electronic Acknowledgement Receipt

EFS ID:	14457785
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	13-DEC-2012
Filing Date:	15-FEB-2012
Time Stamp:	12:06:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$465
RAM confirmation Number	12541
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

EWS-002844

1	Request for Continued Examination (RCE)	sb0030e_fill.pdf	797676 83f1baa74ad08a5222b6b5ba729a48a34a7e4913	no	3
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	tran_IDS.pdf	612197 34bc9d32ae884f7bba242589be3a15b168a95bc8	no	4
Warnings:					
Information:					

A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.

3	Non Patent Literature	61303292.pdf	1637255 5dcb3176f4b67fb3162182316a99e99ad7cae9e5	no	48
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30475 e256b160b35c77c9a2774e7bfd5f7395d50a4446	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	3077603		

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.

<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.

<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/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.

<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.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
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 displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
13/397,517	02/15/2012	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☒ RATE ($)	SMALL ENTITY ☒ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 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).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	12/13/2012	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 30	Minus	** 30	= 0	X $31 =	0	OR	X $ =	
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $125 =	0	OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)	OR	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/PATSY ZIMMERMAN/

This collection of information is required by 37 CFR 1.16. 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, 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 and select option 2.

Attention To The Commissioner Of Patents:

Applicant wishes to make of record additional statements made within e-mails to Examiner and Supervisor Examiner within the interest of compact prosecution of communications under the After Final Consideration Pilot (AFCP) extended to December 15, 2012 and further in accordance with all of MPEP 2142 in part which state:

"When an applicant submits evidence, whether in the specification as originally filed or in reply to a rejection, the examiner must reconsider the patentability of the claimed invention. The decision on patentability must be made based upon consideration of all the evidence, including the evidence submitted by the examiner and the evidence submitted by the applicant. A decision to make or maintain a rejection in the face of all the evidence must show that it was based on the totality of the evidence. Facts established by rebuttal evidence must be evaluated along with the facts on which the conclusion of obviousness was reached, not against the conclusion itself. *In re Eli Lilly & Co.*, 902 F.2d 943, 14 USPQ2d 1741 (Fed. Cir. 1990)."

MPEP 706.02 Rejection on Prior Art [R-9]

(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 the 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; or

61/307,196 was not published.

According to 35 U.S.C. 103(a) the last rejection within the Final Office Action for 13/397,517 was issued in error:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102, 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 negatived by the manner in which the invention was made:

61/307,196 was not made public until November 24, 2011 the publication of now abandoned 20110288946 (filed February 23, 2011)

Applicant's parent case (20100185868) was filed on March 21, 2010 and first published publically July 22, 2010 - There is no way possible that 61/307,196 would have been known to a person having ordinary skill because it wasn't public information, nor does the applicant of 61/307,196 at the time of filing makes any suggestions to or document the examiner's cited references. According to the facts presented, it would have been absolutely impossible for

anyone associated with the cited art or exposure to thereof to have been able to teach applicant's Invention at the time of parent filing.

Let applicant statements be of record within the USPTO e-mail records in the pursuit of Compact Prosecution under the AFCP (to avoid unnecessary RCE or appeal filings to make same argument) extended to December 15, 2012 as facts supporting 13/397,517 condition for immediate allowance of all claims without further delays.

/william grecia/

William Grecia

Applicant Pro Se

Electronic Acknowledgement Receipt

EFS ID:	14417538
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	07-DEC-2012
Filing Date:	15-FEB-2012
Time Stamp:	18:55:46
Application Type:	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	addstate.pdf	219133 d877838ce82d0956b40eb7bb8c505cd48a66e563	no	2

Warnings:	
Information:	

Total Files Size (in bytes):	219133

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

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Examiner: Tran, Tri Minh
William Grecia	Art Unit: 2494
Application No.: 13/397,517	CNF# 6106
Filed: February 15, 2012	**RESPONSE AFTER FINAL**
For: PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)	

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).

Response

In response to Examiner's single and final cited art reference found after an additional 18 pages of search results, after the initial 14 pages of search results included with the mailing of the First Office Action mailed on May 31, 2012, totaling an extensive and thorough 32 pages of search results along with Applicant's extensive diligence in IDS submissions, Examiner's count of total references cited while in prosecution of the Applicant's Invention are a total of eight (8) [Seven (7) with First Office Action and one (1) with Final Office Action].

Examiner replaced a major citation within the First Office Action with expired Provisional Application #61/307,196 filed on February 23, 2010, and later filed as U.S. Patent Application 13/033,278 now abandoned, along with restating subject matter and citations exerted argued and overcome by the Applicant from the First Office Action.

Applicant respectfully requests some time allotted to the Examiner under the AFCP for the opportunity to overcome the Examiner's very last major cited reference preventing a Notice Of Allowance from being issued in this case.

To overcome 61/307,196, Applicant respectfully submits and swears to his own expired Provisional Application #61/303,292 filed on February 10, 2010, named PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM copied directly from Private PAIR and as a document accessible to the USPTO and their Examiners as evidence proving "conception" in accordance to CFR §1.116 section (e). Applicant submits 61/307,196 as an accessory to IDS documents previously filed and verified as being checked by the Examiner (by way of his signature) disclosing references to public use of the Invention before the filing date at the www.str3em.com website owned by the Inventor along with other publicly published information such as press releases and a product page for STR3EM hosted on Amazon Web Services website.

Statement To Why Evidence Was Not Presented Earlier

Applicant did not claim the benefit of 61/307,196 within with current or parent cases because applicant (within reason of the law) decided to rely on the pre-AIA first-to-invent rule that gave the Applicant time to perfect his working Invention as to submit the highest quality specification and set of claims as so demonstrated. 61/307,196 was filed as a safety document to time-stamp development of the Non-Provisional version of the application as to have proof of conception of the Invention for USPTO Examiners that may require such evidence needed to overcome any possible art submitted from companies, competitors, or individuals using or observing his products offered at www.str3em.com to possibly draft their own overnight Provisional Applications as placeholders for future prosecution.

In Closing

No additional amendments to the claims are being made, suggested or further considered necessary by the Applicant in response as the quality of the claims and the Invention has proven to establish novelty over the Examiner's already 32 pages of search results.

Applicant requests a Notice Of Allowance on all claims based on the merits of the facts presented in this case to preserve the integrity of the Invention as originally conceived and commercially reduced to practice.

Respectfully Submitted

William Grecia (Inventor)

Electronic Acknowledgement Receipt

EFS ID:	14313430
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	27-NOV-2012
Filing Date:	15-FEB-2012
Time Stamp:	12:09:36
Application Type:	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	Amendment After Final	RESPONSETOFINAL.pdf	1139318 fbe08d3d90934f444966367dbb06ebfa38b78633	no	30

Warnings:	
Information:	

Total Files Size (in bytes):	1139318

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

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Examiner: Tran, Tri Minh
William Grecia	Art Unit: 2494
Application No.: 13/397,517	CNF# 6106
Filed: February 15, 2012	**RESPONSE AFTER FINAL**
For: PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)	

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

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Examiner replaced a major citation within the First Office Action with expired Provisional Application #61/307,196 filed on February 23, 2010, and later filed as U.S. Patent Application 13/033,278 now abandoned, along with restating subject matter and citations exerted argued and overcome by the Applicant from the First Office Action.

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To overcome 61/307,196, Applicant respectfully submits and swears to his own expired Provisional Application #61/303,292 filed on February 10, 2010, named PERSONILIZED DIGITAL MEDIA ACCESS SYSTEM copied directly from Private PAIR and as a document accessible to the USPTO and their Examiners as evidence proving "conception" in accordance to CFR §1.116 section (e). Applicant submits 61/303,292 as an accessory to IDS documents previously filed and verified as being checked by the Examiner (by way of his signature) disclosing references to public use of the Invention before the filing date at the www.str3em.com website owned by the Inventor along with other publicly published information such as press releases and a product page for STR3EM hosted on Amazon Web Services website.

Statement To Why Evidence Was Not Presented Earlier

Applicant did not claim the benefit of 61/303,292 within with current or parent cases because applicant (within reason of the law) decided to rely on the pre-AIA first-to-invent rule that gave the Applicant time to perfect his working Invention as to submit the highest quality specification and set of claims as so demonstrated. 61/303,292 was filed as a safety document to time-stamp development of the Non-Provisional version of the application as to have proof of conception of the Invention for USPTO Examiners that may require such evidence needed to overcome any possible art submitted from companies, competitors, or individuals using or observing his products offered at www.str3em.com to possibly draft their own overnight Provisional Applications as placeholders for future prosecution.

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Applicant requests a Notice Of Allowance on all claims based on the merits of the facts presented in this case to preserve the integrity of the Invention as originally conceived and commercially reduced to practice.

Respectfully Submitted

William Grecia (Inventor)

Attention to the Commissioner of Patents:

NOTICE OF CORRECTION OF RESPONSE TO FINAL

Applicant submits a corrected Response to Final to the Examiner to statements made in Response to Final on November 27, 2012, to remove any suggestion of Applicant's involvement with application #61/307,196.

Applicant's own document looking to overcome Examiner's citation should be understood and identified by #61/303,292 and the second (latest) Response to Final document submitted to EFS Web on November 27, 2012 should be considered as relevant to the record of this case.

/william grecia/

William Grecia

Applicant Pro Se

Electronic Acknowledgement Receipt

EFS ID:	14313783
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	27-NOV-2012
Filing Date:	15-FEB-2012
Time Stamp:	12:32:07
Application Type:	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	Amendment After Final	fcorrected.pdf	1138429 086e5d1de457df3131c4b895dae11a4ea4c30bb8	no	30

Warnings:	
Information:	

2	Miscellaneous Incoming Letter	letter_fixed.pdf	190365 de121993a2691b3864bc5d11e5181065cd64f291	no	1

Warnings:	
Information:	
Total Files Size (in bytes):	1328794

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.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Examiner: Tran, Tri Minh
William Grecia	Art Unit: 2494
Application No.: 13/397,517	CNF# 6106
Filed: February 15, 2012	**RESPONSE AFTER FINAL**
For: PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)	

Assistant Commissioner for Patents
P. O. Box 1450
Alexandria VA, 22313-1450

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Respectfully Submitted

William Grecia (Inventor)

Electronic Acknowledgement Receipt

EFS ID:	14314000
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	27-NOV-2012
Filing Date:	15-FEB-2012
Time Stamp:	12:46:06
Application Type:	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	Amendment After Final	RESPONSEFINAL.pdf	177330 c96dfd4beea84563119e4db2fe46465bb4f5c276	no	3

Warnings:	
Information:	

2	Non Patent Literature	afterfinal-61303292.pdf	975116 a2994fd91e5a4789be7fe6b3183d872e19cc732d	no	27

Warnings:	
Information:	
Total Files Size (in bytes):	1152446

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

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National Stage of an International Application under 35 U.S.C. 371

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PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
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 displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
13/397,517	02/15/2012	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☒ RATE ($)	SMALL ENTITY ☒ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 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).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	11/27/2012	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 30	Minus	** 30	= 0	X $31 =	0	OR	X $ =	
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $125 =	0	OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)	OR	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/JACQUELYN WILLIAMS/

This collection of information is required by 37 CFR 1.16. 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, 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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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 11/26/2012

The STR3EM Team
2885 Sanford Ave SW #13208
Grandville, MI 49418

EXAMINER	
TRAN, TRI MINH	

ART UNIT	PAPER NUMBER
2494	

NOTIFICATION DATE	DELIVERY MODE
11/26/2012	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

Office Action Summary	Application No.	Applicant(s)	
	13/397,517	GRECIA, WILLIAM	
	Examiner	Art Unit	
	TRI TRAN	2494	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *12 June 2012*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5)☒ Claim(s) *1-3,5-8,10-13,15-20,22,24-29 and 31-37* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-3, 5-8, 10-13, 15-20, 22, 24-29, 31-37* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

12)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

13)☐ 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:

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)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claims 1-3, 5-8, 10-13, 15-20, 22, 24-29, and 31-37 are pending.

This communications is in response to the Applicant's arguments/amendments filed on June 12 2012

Response to Amendments

Claims 1, 3, 6, 12-13, 15, 19-20, 22, 24-25, and 27-28 are amended, claims 4, 9, 14, 16, 21, 23, and 30 are cancelled. Claims 31-37 are new. As a result, claims 1-3, 5-8, 10-13, 15-20, 22, 24-29, and 31-37 are pending.

Response to Arguments

Regarding claim 22-29, the rejection under 35 USC 101 is withdrawn in view of the amendments to the claims.

Applicant's arguments, see pages 15-17, filed June 12 2012, with respect to the rejection(s) of claims 1-3,5,8-11,14-18,21-24,26, and 29 under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer and claims 4, 6-7, 25 and 27-28 under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer and further in view of Levine have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection under 35 USC 103(a) as being unpatentable over Baiya et al. Provisional Application 61/307196 – Method and System of Managing Digital Multimedia Content (herein after Baiya) in view of Wimmer for claims 1-3, 5-8, 10-11, 13, 15-18, 20, 22, 24-29, and 31-

34, 36-37. Claim 35 is rejected under 35 USC 103(a) as being unpatentable over Baiya in view of Wimmer and further in view of Liu. Claims 12 and 19 are rejected under 35 USC 103(a) as being unpatentable over Baiya in view Wimmer and further in view of Holtzman.

See rejections below.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 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 negatived by the manner in which the invention was made.

Claims 1-3, 5-8, 10-11, 13, 15-18, 20, 22, 24-29, and 31-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baiya et al. PG Pub 20110288946 – Method and System of Managing Digital Multimedia Content (herein after Baiya) in view of Chris Wimmer US Patent 7526650 - Personal identifiers for protecting video content (herein after Wimmer)

Regarding claim 1, Baiya discloses 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:*

a: receiving an encrypted digital media access branding request from at least one communications console of the plurality of data processing devices (paragraphs [0008] and [0063] which discloses a CMA (Content Management Application) provides a secure access for digital content to a user/organization to share with others. Wherein the user can tag any information to characterize the digital content)*, the branding request being a read or write request of metadata of the encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media* (Fig. 3 and paragraphs [0009]-[0010], [0056]-[0057], [0064] discloses the CMA using authentication mechanism to control the user for accessing encrypted digital content with the user having the ability to tag the content with attributes wherein the attributes provide information that is used to share with other users). However, Baiya does not explicitly disclose a membership token is written into the metadata of the digital media. Wimmer discloses a process of branding video content where the information for branding is obtained from the metadata of the content. The information can be the user identification number (Fig. 1, 3, and 5 and column 5, lines 16-19 and column 6, lines 29-31).

Therefore, it would have been obvious to one skilled in the art to modify the teachings of Baiya with the invention of Wimmer such that *the branding request being a read or write request of metadata of the encrypted digital media, the request comprising*

a membership verification token corresponding to the encrypted digital media. One would have done so to ensure security is enforced for sharing digital content by including the rightful owner of the content.

Furthermore, Baiya discloses:

b: authenticating the membership verification token, the authentication being performed in connection with a token database (paragraphs [0057], [0074], which discloses authentication is required before the user can access the media content. The use of a user ID and password are a typical means for authentication process. There are databases to store user information such as keys and license information. See paragraph [0059])*;*

c: establishing connection with the at least one communications console (Fig. 2 and paragraphs [0037]-[0041], [0064] which discloses an exemplary configuration that the CMA interfaces with digital content servers and users/applications via a browser using API)*;*

d: requesting at least one electronic identification reference from the at least one communications console (Fig. 5 and paragraph [0082] which discloses a sharing process that the first user (rightful content owner) creates a licensed key to be shared with a third party whom uses the license key to access the content)*;*

e: receiving the at least one electronic identification reference from the at least one communications console(Fig. 5 and paragraphs [0043], [0082] which discloses the licensed key created by the content owner is sent to a second user whom uses the license key to access the content. In addition, attributes associated with the content can

be license or keys which implies that the sharing content comprises an identification from the first user whom is the rightful owner of the content)*; and*

f: branding metadata of the encrypted digital media by writing the membership verification token and the electronic identification reference into the metadata (the combined teachings of Baiya and Wimmer in the rejections of limitations "a" (tagging any information including the user identification in metadata) and “e” (generating shared licensed key from the content owner’s device) would have suggested to one of ordinary in the art that the metadata of the content would include the shared licensed key for the CMA to verify the second user when he/she entered the license code to access shared library).

Regarding claim 2, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Baiya also discloses *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* (paragraph [0047]).

Regarding claim 3, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Baiya further discloses *the branding request being a request from an excelsior enabler through a data processing device of the plurality of data processing devices, the excelsior enabler being the user acquiring access rights to the encrypted digital media* (Fig. 3 paragraph [0077] which discloses an user interface for the first user

(rightful content owner) to tag attributes that include “distribution rights associated with a content item” for sharing with other users)*; or*

wherein the branding request being a request from one or more secondary enablers connected to the excelsior enabler, the plurality of second enablers comprising one or more of human beings or programmed computerized mechanisms in network of the excelsior enabler (Fig. 1, 6 and paragraphs [0021], [0059] and [0077] which discloses user 1 can share the content to one more users with a generated license code wherein the users can be a human or Digital Clients or Software Applications)*;*

wherein said second enablers are validated by a membership web service (Fig. 1, 2 and paragraph [0070] which discloses “[[t]]he Content Manager can use web services between the various interfaces” for controlling access of digital content from users).

Regarding claim 5, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Baiya further discloses *the membership verification token represents verification from content provider to grant access rights to the excelsior enabler and the one or more secondary enablers* (Fig. 5 and paragraphs [0074, [0081]-[0082] which discloses the CMA authentication of any users require a user ID and password or license key to access digital content).

Regarding claim 6, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Baiya further discloses *the encrypted digital media is shared with*

one or more users according to a membership status (paragraphs [0054], [0060], [0077] which discloses the encrypted media content can be shared by more than one user. However, Baiya also discloses sharing is a access privilege and only "[[a]] full permission license allows a user to read, write, delete, edit, and share data on the system").

Regarding claim 7, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Baiya further discloses *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 said users being validated by the membership status of a membership web service* (paragraphs [0021], [0059], [0070], and [0077] which discloses user 1 can share the content to one more users with a generated license code wherein the users can be a human or Digital Clients or Software Applications and "[[t]]he Content Manager can use web services between the various interfaces" for controlling access of digital content from users)

Regarding claim 8, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Wimmer further discloses *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* (Fig. 5, 7 and column 7, lines 42-47 and column 8, lines 16 which discloses the user's name and user identification number are obtained from metadata of the

media content where the user's name is an identifier as the rightful owner of the content and the user identification number that can represent the user's account number (column 2, lines 31-44). Thus, the identification number is a token for the user to verify for membership).

Regarding claim 10, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Baiya further discloses *the communications console is a combination of an Applications Programmable Interface (API) protocol and graphic user interface (GUI)* (paragraph [0064] discloses CMA is a set of API implemented by a software program to provide access to digital content).

Regarding claim 11, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Baiya further discloses *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* (paragraph [0003] discloses all media formats can be used).

Regarding claim 13, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Baiya discloses *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* (Fig. 5 and paragraphs [0079], [0082] which discloses a license key issued by the first user (rightful

owner) is sent to a second user to share media content. The license key can be tagged in metadata for setting permissions).

Regarding claims 15 and 22, the claims are the system and computer product program to execute the method claim of claim 1. The claims do not define beyond the limitations of claim 1. Therefore, claims 15 and 22 are rejected under the same reasons outlined in claim 1.

Regarding claim 16, the claim does not define beyond the limitations of claim 9. Therefore, claim 16 is rejected under the same reasons outlined in claim 9.

Regarding claim 17, the claim does not define beyond the limitations of claim 10. Therefore, claim 17 is rejected under the same reasons outlined in claim 10.

Regarding claim 18, the claim does not define beyond the limitations of claim 11. Therefore, claim 18 is rejected under the same reasons outlined in claim 11.

Regarding claim 20, the claim does not define beyond the limitations of claim 13. Therefore, claim 20 is rejected under the same reasons outlined in claim 13.

Regarding claim 25, the claim does not define beyond the limitations of claim 4. Therefore, claim 25 is rejected under the same reasons outlined in claim 4.

Regarding claim 26, the claim does not define beyond the limitations of claim 5. Therefore, claim 26 is rejected under the same reasons outlined in claim 5.

Regarding claim 27, the claim does not define beyond the limitations of claim 6. Therefore, claim 27 is rejected under the same reasons outlined in claim 6.

Regarding claim 28, the claim does not define beyond the limitations of claim 7. Therefore, claim 28 is rejected under the same reasons outlined in claim 7.

Regarding claim 29, the claim does not define beyond the limitations of claim 8. Therefore, claim 29 is rejected under the same reasons outlined in claim 8.

Regarding claims 31, 33, and 36, the claims do not define beyond the limitations of claim 1. Therefore, claims 31, 33, and 36 are rejected under the same reasons outlined in claim 1.

Regarding claim 32, the rejection of claim 2 under 35 U.S.C. 103(a) is incorporated herein. Baiya further discloses *said membership verification token comprises at least one token selected from the group consisting of purchase, rental, or membership permissions coupled to a royalty scheme* (paragraphs [0060], [0087] which

discloses CMA can be used by licensing or for purchase. Thus, it suggests that digital content is used for purchase, rental, etc.)*;*

Wherein said 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 said encrypted digital media (paragraph [0057] which discloses a license key of thirty-two digit code is required to authenticate a user).

Regarding claims 34 and 37, the claims do not define beyond the limitations of claim 32. Therefore, claims 34 and 37 are rejected under the same reasons outlined in claim 32.

Claims 12 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baiya in view of Wimmer, and further in view of Holtzman PG Pub 20080010685 – Content Control Method Using Versatile Control Structure (herein after Holtzman)

Regarding claim 12, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Baiya discloses *the electronic identification reference is a web service account identifier, rights token, e-mail, password, serial number, networking address, manufacturer identification, checksum, file, circuit, operating system version, browser version, credential, cookie, key or ID* (paragraph [0074] discloses a user ID and a password are required for authentication). However, Baiya does not disclose *the web*

service capable of facilitating service two way data exchange to complete the verification process.

Holtzman discloses a system of accessing DRM content with application to securely process and control on portable memory card on the user's side as smart card/token. One of the functions of the application is to provide authentication of the user with his/her ID and password to validate account along with mechanism to ensure a secure communication channel by mutual authentication. The system also provide an extra secure step for authenticating the log in step by the use of a one-time password wherein the user‘s OTP is verified mutually with a intended-to-access web server (see Fig. 19, 23, 41, and paragraphs [0221], [0245], [0248], and [0374]-[0376]).

Therefore, it would have been obvious to one skilled in the art to modify the teachings of Baiya with the invention of Holtzman such that a step of *the electronic identification reference is a web service account identifier, rights token, e-mail, password, serial number, networking address, manufacturer identification, checksum, file, circuit, operating system version, browser version, credential, cookie, key or ID, the web service capable of facilitating service two way data exchange to complete the verification process.* One would have done so to ensure a secure communication.

Regarding claim 19, the claim does not define beyond the limitations of claim 12. Therefore, claim 19 is rejected under the same reasons outlined in claim 12.

Claim 35 rejected under 35 U.S.C. 103(a) as being unpatentable over Baiya in view of Wimmer, and further in view of Liu et al. 2004 NPL – A license-sharing scheme in Digital Rights Management (herein after Liu)

Regarding claim 35, the rejection of claim 15 under 35 U.S.C. 103(a) is incorporated herein. Baiya further discloses *said encrypted digital media capable of unlimited interoperability between a plurality of data processing devices, is further authored by an authoring system comprising:*

g: a selection module, the selection module selecting one or more media items to form the encrypted digital media (Fig. 3 and paragraphs [0075]-[0077] discloses a GUI that allows user to manipulate one or more media items for cataloging. These selected media items then can be shared, as a library, to others). However, Baiya does not expressly disclose the selected content is encrypted for sharing. Liu discloses a process of license-sharing scheme in DRM between two devices where the content is encrypted and the user's device key is used to obtain the content key to decrypt the content (section 7. License Structure, also see sections 4-8 for detailed explanation of how the license sharing works). Therefore, it would have been obvious to one skilled in the art to modify the teachings of Baiya with the invention of Liu such that *a selection module, the selection module selecting one or more media items to form the encrypted digital media.* One would have done so to ensure content sharing is secure to make sure that only the authorized user can view the content.

h: a password module, the password module entering a master password which provides access to the encrypted digital media for editing (paragraphs [0060, [0074] discloses the authentication process provided by the CMA that requires a user to enter prior to accessing media content for sharing, distributing, cataloging, and such. In addition, access right is based on the user's privilege to access the content. Only users with full permission can add, edit, and sharing content)*;*

i: a customization module, the customization module customizing user access panel of the encrypted digital media (Fig. 3 and paragraphs [00754]-[0077] discloses a GUI that allows user to manipulate media content and tag them for personal preferences or for sharing)*;*

j: 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 (paragraphs [0008], [0010] which discloses the digital content is encrypted by a security component. Thus, it is inherent that a decryption component to connect between a database of membership verification and encrypted digital content must be in place in order to provide the media content to the main (1st) user or other users (shared users) to be viewed)*; and*

k: an encryption module, the encryption module encrypting the one or more media items to create the encrypted digital media (the combined teachings of Baiya (paragraph [0077] discloses the user can select one or more media for sharing) and Liu (sections 4-8 which discloses sharing encrypted content between two devices) encompass this feature).

REFERENCE OF RELATED ART

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Charles B. Wood PG-Pub 20080052162 - Calendar-Based Advertising

Provos et al. PG-Pub 20090094175 – Intrusive Software Management

Shlomo Rabinovitch PG-Pub 20060101521 – System and Method for Secure Usage Right Management for Digital Products

Milener et al. US Patent 8037527 – Method and Apparatus for Look-Ahead-Security Scanning

George Foti PG-Pub 20080243602 – System and Method for Providing and IPTV Advertisements

Patton et al. PG Pub 20090327084 Graphical Certifications Of Online Advertisements Intended To Impact Click-Through Rates

Baiya et al. Provisional Application 20110288946 – Method and System of Managing Digital Multimedia Content

CONCLUSION

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 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.

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 8:00 - 4:00 EST.

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

Notice of References Cited	Application/Control No. 13/397,517	Applicant(s)/Patent Under Reexamination GRECIA, WILLIAM	
	Examiner TRI TRAN	Art Unit 2494	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2011/0288946	11-2011	Baiya et al.	705/26.1
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Liu et al. 2004 NPL - A license-sharing scheme in Digital Rights Management
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
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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	B7-1

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	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[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/T.T./	1	20120030291		2012-02-02	SILVER; Kenneth	
/T.T./	2	20120124612		2012-05-17	ADIMATYAM; Venkata	
/T.T./	3	20120124613		2012-05-17	REDDY; Sachinder	
/T.T./	4	20120124611		2012-05-17	Shintani; Peter	
/T.T./	5	20120124614		2012-05-17	Shintani; Peter	

Receipt date: 05/21/2012	Application Number	13397517	13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Filing Date	2012-02-15	
	First Named Inventor	William Grecia	
	Art Unit	2494	
	Examiner Name	TRAN, TRI MINH	
	Attorney Docket Number	B7-1	

/T.T./	6	20120124610		2012-05-17	Shintani; Peter	
/T.T./	7	20120124678		2012-05-17	Shintani; Peter	

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Examiner Signature	/Tri Tran/ (10/01/2012)	Date Considered	10/01/2012

*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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.T./

Receipt date: 05/21/2012	Application Number	13397517	13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Filing Date	2012-02-15	
	First Named Inventor	William Grecia	
	Art Unit	2494	
	Examiner Name	TRAN, TRI MINH	
	Attorney Docket Number	B7-1	

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)	2012-05-21
Name/Print	William Grecia	Registration Number	

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.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.T./

EWS-002890

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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 the Freedom of Information Act requires disclosure of these record s.

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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.T./

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13397517	GRECIA, WILLIAM
	Examiner	Art Unit
	TRI TRAN	2494

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ 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							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	-							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	-							
	10	✓	✓							
	11	✓	✓							
	12	✓	✓							
	13	✓	✓							
	14	✓	-							
	15	✓	✓							
	16	✓	✓							
	17	✓	✓							
	18	✓	✓							
	19	✓	✓							
	20	✓	✓							
	21	✓	-							
	22	✓	✓							
	23	✓	-							
	24	✓	✓							
	25	✓	✓							
	26	✓	✓							
	27	✓	✓							
	28	✓	✓							
	29	✓	✓							
	30	✓	-							
	31		✓							
	32		✓							
	33		✓							
	34		✓							
	35		✓							
	36		✓							

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13397517	GRECIA, WILLIAM
	Examiner	**Art Unit**
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✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
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☐ 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							
	37		✓							

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

		("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

		("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

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			16:01
S12	8	(brand$3 near2 request) with (token meta ajd 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 (authenticat$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 (authenticat$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 (authenticat$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 (authenticat$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

			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 (authenticat$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 (authenticat$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 (authenticat$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 (authenticat$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 near3 (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

		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

			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

			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

			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 ajd 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

		(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 diffferent) 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 diffferent) 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 (authenticat$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

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 authenticat$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

			DERWENT; IBM_TDB			
S70	8731	((web near3 account) same (((two adj way) exchange) with authenticat$3) key ajd 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

			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

			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

			IBM_TDB			
S96	2	"20100100899"	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

			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

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S114	0	S112 and interoperabilty	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

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

11/15/2012 6:11:35 PM
C:\Users\ttran14\Documents\EAST\Workspaces\13397517.wsp

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13397517	GRECIA, WILLIAM
	Examiner	**Art Unit**
	TRI TRAN	2494

SEARCHED

Class	Subclass	Date	Examiner
726	1-21,26-33	5/7/12	TT
	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

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

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70984 e 2012-06-21

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Paper No.

Application No.:	**13/397,517**	**Date Mailed:**	**2012-06-21**
First Named Inventor:	Grecia, William,	Examiner:	TRAN, TRI MINH
Attorney Docket No.:	B7-1	Art Unit:	2494
Confirmation No.:	6106	Filing Date:	2012-02-15

Please find attached an Office communication concerning this application or proceeding.

Commissioner for Patents

PTO-90c (Rev.08-06)

Notice of Non-Compliant Amendment (37 CFR 1.121)	Application No. 13/397,517	Applicant(s) GRECIA, WILLIAM
		Art Unit 2800

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

The amendment document filed on *12 June, 2012* is considered non-compliant because it has failed to meet the requirements of 37 CFR 1.121 or 1.4. In order for the amendment document to be compliant, correction of the following item(s) is required.

THE FOLLOWING MARKED (X) ITEM(S) CAUSE THE AMENDMENT DOCUMENT TO BE NON-COMPLIANT:

- ☐ 1. Amendments to the specification:
  - ☐ A. Amended paragraph(s) do not include markings.
  - ☐ B. New paragraph(s) should not be underlined.
  - ☐ C. Other _____.
- ☐ 2. Abstract:
  - ☐ A. Not presented on a separate sheet. 37 CFR 1.72.
  - ☐ B. Other _____.
- ☐ 3. Amendments to the drawings:
  - ☐ A. The drawings are not properly identified in the top margin as "Replacement Sheet," "New Sheet," or "Annotated Sheet" as required by 37 CFR 1.121(d).
  - ☐ B. The practice of submitting proposed drawing correction has been eliminated. Replacement drawings showing amended figures, without markings, in compliance with 37 CFR 1.84 are required.
  - ☐ C. Other _____.
- ☐ 4. Amendments to the claims:
  - ☐ A. A complete listing of all of the claims is not present.
  - ☐ B. The listing of claims does not include the text of all pending claims (including withdrawn claims)
  - ☐ C. Each claim has not been provided with the proper status identifier, and as such, the individual status of each claim cannot be identified. Note: the status of every claim must be indicated after its claim number by using one of the following status identifiers: (Original), (Currently amended), (Canceled), (Previously presented), (New), (Not entered), (Withdrawn) and (Withdrawn-currently amended).
  - ☐ D. The claims of this amendment paper have not been presented in ascending numerical order.
  - ☐ E. Other: _____.
- ☒ 5. Other (e.g., the amendment is unsigned or not signed in accordance with 37 CFR 1.4): For further explanation of the amendment format required by 37 CFR 1.121, see MPEP § 714.

TIME PERIODS FOR FILING A REPLY TO THIS NOTICE:

1. Applicant is given **no new time period if the non-compliant amendment is an** after-final amendment or an amendment filed after allowance, or a drawing submission (only) If applicant wishes to resubmit the non-compliant after-final amendment with corrections, the **entire corrected amendment** must be resubmitted.

2. Applicant is given **one month**, or thirty (30) days, whichever is longer, from the mail date of this notice to supply the correction, if the non-compliant amendment is one of the following: a preliminary amendment, a non-final amendment (including a submission for a request for continued examination (RCE) under 37 CFR 1.114), a supplemental amendment filed within a suspension period under 37 CFR 1.103(a) or (c), and an amendment filed in response to a Quayle action. If any of above boxes 1 to 4 are checked, the correction required is only the corrected section of the non-compliant amendment in compliance with 37 CFR 1.121.

   Extensions of time are available under 37 CFR 1.136(a) only if the non-compliant amendment is a non-final amendment or an amendment filed in response to a *Quayle* action.
   Failure to timely respond to this notice will result in:
   Abandonment of the application if the non-compliant amendment is a non-final amendment or an amendment filed in response to a *Quayle* action; or
   Non-entry of the amendment if the non-compliant amendment is a preliminary amendment or supplemental amendment.

Legal Instruments Examiner (LIE), if applicable /Theresa Dawkins/ Telephone No: (571)272-1567

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
13/397,517	02/15/2012	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☒ RATE ($)	SMALL ENTITY ☒ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 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).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 06/12/2012	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 30	Minus	** 30	= 0	X $30 =	0	OR	X $ =	
Independent (37 CFR 1.16(h))	* 3	Minus	***4	= 0	X $125 =	0	OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)	OR	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/Theresa Dawkins/

This collection of information is required by 37 CFR 1.16. 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, 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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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Examiner: Tran, Tri Minh
William Grecia	Art Unit: 2494
Application No.: 13/397,517	CNF# 6106
Filed: February 15, 2012	**AMENDMENT/REPLY**
For: PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)	

Assistant Commissioner for Patents
P. O. Box 1450
Alexandria VA, 22313-1450

Sir:

In response to the Office Action mailed May 31, 2012, please consider the following amendments and arguments traversing and overcoming the specific rejections made in this office action.

IN THE CLAIMS:

Please amend claims 1, 3, 6-7, 12-13, 15, 19-20, 22-25, and 27-29. Please cancel claims 4, 9, 14, 16, 21, 23 and 30. Please add new claims 31-37. All pending claims are reproduced for convenient reference.

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:

a[[.]]: 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 encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media;

b[[.]]: authenticating the membership verification token, the authentication being performed in connection with a token database;

c [[.]]:establishing connection with the at least one communications console;

d[[.]]: requesting at least one electronic identification reference from the at least one communications console;

e[[.]]: receiving the at least one electronic identification reference from the at least one communications console; and

f[[.]]: 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 enabler through a data processing device of the plurality of data processing devices, the excelsior enabler 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 connected to the excelsior enabler, the plurality of second enablers comprising one or more of human beings or programmed computerized mechanisms in network of the excelsior enabler;

wherein said second enablers are validated by a membership web service.

4. (Canceled)

5. (Original) The method according to claim 1, wherein the membership verification token represents verification from content provider to grant access rights to the excelsior enabler and the one or more secondary enablers.

6. (Currently amended) The method according to claim 1, wherein the encrypted digital media is shared with one or more users according to a membership status ~~after a predefined period~~.

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 said users being validated by the membership status of a membership web service ~~is a network of friends of the excelsior enabler~~.

8. (Original) 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 corresponding token from the list of associated tokens stored in the token database for verification.

9. (Canceled)

10. (Original) The method according to claim 1, wherein the communications console is a combination of an Applications Programmable Interface (API) protocol and graphic user interface (GUI).

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. (Currently amended) The method according to claim 1, wherein the electronic identification reference is a web service account identifier, rights token, e-mail, password, serial number, networking address, manufacturer identification, checksum, file, circuit, operating system

version, browser version, credential, cookie, key or ID, the web service capable of facilitating service two way data exchange to complete the verification process.

13. (Currently amended) The method according to claim 1, wherein the electronic identification reference is a key ~~certificate~~ file, the key ~~certificate~~ 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, said system comprising:

a[[.]]: 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 write request of metadata of the encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media;

b[[.]]: an authentication module, the authentication module authenticating the membership verification token, the authentication being performed in connection with a token database;

c[[.]]: a connection module, the connection module establishing connection with the at least one communications console;

d [[.]]: a request module, the request module requesting at least one electronic identification reference from the at least one communications console;

e[[.]]: a second receipt module, the second receipt module receiving the at least one electronic identification reference from the at least one communications console; and

f[[.]]: 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. (Canceled)

17. (Original) The system according to claim 15, wherein the communications console is a combination of an Applications Programmable Interface (API) protocol and graphic user interface (GUI) as part of a web service.

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.

19. (Currently amended) The system according to claim 15, wherein the electronic identification reference is a web service account identifier, rights token, e-mail, password, serial number, networking address, manufacturer identification, checksum, file, circuit, operating system version, browser version, credential, cookie, key or ID, the web service capable of facilitating service two way data exchange to complete the verification process.

20. (Currently 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 one 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:

a[[.]]: 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 encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media;

b[[.]]: authenticating the membership verification token, the authentication being performed in connection with a token database;

c[[.]]: establishing connection with the at least one communications console;

d[[.]]: requesting at least one electronic identification reference from the at least one communications console;

e[[.]]: receiving the at least one electronic identification reference from the at least one communications console; and

f[[.]]: 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 ~~being~~ is a request from an excelsior enabler providing a credential to a membership web service through a data processing device of the plurality of data processing devices, the excelsior enabler being ~~the~~ 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 ~~being~~ is a request from one or more secondary enablers asked to participate in providing a credential to said membership web service connected to the excelsior enabler, the credential being one generated manually or generated automatically by the membership web service, the plurality of second enablers comprising one or more of human beings ~~and~~ or a programmed computerized mechanism~~s~~ in the network of the excelsior enabler.

26. (Original) The computer program product according to claim 24, wherein the membership verification token represents verification from content provider to grant access rights to the excelsior enabler and the one or more secondary enablers.

27. (Currently 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 ~~after a predefined period~~.

28. (Currently amended) The computer program product according to claim 27, wherein the one or more secondary users is ~~a network of friends~~ a programmed and automated machine hosting an operating system that is operated by of the excelsior enabler.

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. (New) The method of claim 1, wherein the method facilitates access rights authentication for said encrypted digital media, said branding request is an access request, and wherein said read or write request of metadata is performed in connection with a combination of a memory, CPU, server, database, and cloud system;

Said access request is generated by either a human user, a machine, or a human programmed computerized device;

Said access request further comprises a membership verification token and a rights token; and

Wherein said branding metadata alternatively comprises writing said rights token into said metadata.

32. (New) The method of claim 2, wherein said membership verification token comprises at least one token selected from the group consisting of purchase, rental, or membership permissions coupled to a royalty scheme;

Wherein said 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 said encrypted digital media.

33. (New) The system of claim 15, wherein the system facilitates access rights authentication for said encrypted digital media, said branding request is an access request, and wherein said read or write request of metadata is performed in connection with a combination of a memory, CPU, server, database, and cloud system;

Said access request is generated by either a human user, a machine, or a human programmed computerized device;

Said access request further comprises a membership verification token and a rights token; and

Wherein said branding metadata alternatively comprises writing said rights token into said metadata.

34. (New) The system of claim 15, wherein said membership verification token comprises at least one token selected from the group consisting of purchase, rental, or membership permissions coupled to a royalty scheme;

Wherein said 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 said encrypted digital media.

35. (New) The system of claim 15, wherein said encrypted digital media capable of unlimited interoperability between a plurality of data processing devices, is further authored by an authoring system comprising:

g: a selection module, the selection module selecting one or more media items to form the encrypted digital media;

h: a password module, the password module entering a master password which provides access to the encrypted digital media for editing;

i: a customization module, the customization module customizing user access panel of the encrypted digital media;

j: 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

k: an encryption module, the encryption module encrypting the one or more media items to create the encrypted digital media.

36. (New) The computer program product of claim 22, wherein the computer program product facilitates access rights authentication for said encrypted digital media, said branding request is an access request, and wherein said read or write request of metadata is performed in connection with a combination of a memory, CPU, server, database, and cloud system;

Said access request is generated by either a human user, a machine, or a human programmed computerized device;

Said access request further comprises a membership verification token and a rights token; and

Wherein said branding metadata alternatively comprises writing said rights token into said metadata.

37. (New) The computer program product of claim 22, wherein the membership verification token comprises at least one token selected from the group consisting of purchase, rental, or membership permissions coupled to a royalty scheme;

Wherein said 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 said encrypted digital media.

REMARKS

Claims 1-30 were examined. Claims 22-29 were rejected under 35 USC 101. Claims 1-3, 5, 8-11, 14-18, 21-24, 26, and 29 were rejected under 35 USC 103(a) as being unpatentable over Bradbury (US Pub 20100100899) in view of Wimmer (US Patent 7,526,650). Claims 4, 6-7, 25 and 27-28 were rejected under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer and further in view of Levine (US Pub 20090083541). Claims 12 and 19 were rejected under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer and Levine and further in view of Holtzman (US Pub 20080010685). Claims 13 and 20 were rejected under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer, Levine, and further in view of Sovio (US Patent 7,343,014). Claim 30 was rejected under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer, Holzman and Bordeault (US Patent 7,254,235).

Claim rejections 35 USC 101

The rejections of claims 22-29 under 35 USC 101 have been overcome. Applicant gratefully acknowledges examiner's suggestion, and has accordingly amended independent claim 22 to contain the additional limitation "non-transitory" limitation. This "non-transitory" limitation should be understood to cover standard computer data storage medium such as traditional computer memory, data storage, system on a chip, embedded silicon, flash memory, programmable circuits, or even cloud computing since the cloud data is stored on hard drives, flash memory, and the like.

Review of Applicant's Art, and the art of Bradbury and Wilmer

Before proceeding with the specific discussion traversing and overcoming the various rejections to claims 1-30, applicant believes that a brief review of applicant's art, and the art of Bradbury and Wilmer (major citations) is in order.

Applicant's art

Applicant is teaching a general purpose method to allow authorized users (excelsior enablers) access to encrypted digital media with associated metadata, such as music, movies, etc. on a

plurality of different devices. The method enables access as follows: The authorized user generates an encrypted media metadata branding request using the communication console of a particular device. The authorized user sends a membership (e.g. verification or authorization) token. This token can be, for example, verification that the authorized user has media access rights. This request, along with the verification token, is then often received by a remote internet server (e.g. a web service account). The remote internet server uses a token database to authenticate this token. If this token is verified, the remote internet server can then send an electronic identification reference request back to the communications console. The authorized user can then enter this electronic identification reference into the communications console. The remote internet server can then "brand" (e.g. write) the membership verification token and electronic identification reference onto the encrypted digital media, thus authorizing use of the encrypted digital media. Subsequently, various devices can then read this digital media associated metadata, and see that the authorized user and particular device are properly authorized, and then decrypt and play the encrypted media.

Art of Bradbury

Bradbury is an unusually long patent, comprising 189 pages and over 62,000 words. Because of the length of the Bradbury citation, the question arises as to if Bradbury may be merely serving as a convenient dictionary or "parts catalog", to be mined for matching terms based upon impermissible hindsight derived from applicant's teaching.

Applicant respectfully submits that here, Bradbury is merely serving as a convenient source of useful phrases by which examiner, aided by applicant's teaching, can then pick and choose and string together in an out-of-order manner in order to attempt to reproduce applicant's art. When examined in context, the various stitched together Bradbury phrases selected by examiner are often from very different sections of Bradbury and are often used by Bradbury for different types of functions.

To begin with, Bradbury teaches dispensing audio or visual content from a central database, and allowing users access to the content only during a specified time period. (e.g. Bradbury claim 116).

Although Bradbury does describe Digital Rights Management (DRM) (see, for example Bradbury paragraphs [0490], [0494], [0518], [0530], [0658], Table 21 and elsewhere), his DRM methods are quite different from applicant's methods. Bradbury describes DRM methods to delete or disable content by what is apparently a timing and deletion method. See for example, paragraph [0658] and Table 21.

Contrary to examiner's assertions, Bradbury's methods do not establish unlimited interoperability between a plurality of data processing devices. Rather these methods establish a very strict time limited criteria on a single data processing device (usually measured in days).

Although Bradbury discusses "metadata" (see Figures 62, 66-67, 75-76, 80, 82-84 and 86), as cited by examiner, the use of his metadata in [0189] is for parental guidance flags. Bradbury also states in [0616]-[0617] that his metadata can also be used for content structure such as brands, series, episodes and versions. In Table 25, Bradbury also mentions rights metadata, but his complete discussion here is:

Combined Schedule Information "The Service Provider combines schedule information with program related metadata, distribution and publishing metadata, and rights metadata as described herein

Rights Metadata "The Broadcaster requires the Service Provider to use an agreed format (which uses or is compatible with XRML) for the publication of rights metadata. This supports a variable rights model.

However Applicant has been unable to find where Bradbury teaches altering metadata (e.g. branding it) for DRM purposes.

Although Bradbury does use the word "brand", in his specification, his use is very different than applicant's use of the word "brand". The word "brand" has multiple meanings. One meaning is

to burn a mark into a media (traditionally an animal hide or wood, but here clearly used by applicant for computer memory media). The other meaning is as a trademark or distinctive name. Bradbury in [0620] clearly shows that he intends the later meaning – "*Brand is short for Programme Brand: typical examples include: Dr Who, Casuality, Midweek, Woman's Hour...*"

Although examiner also asserts that Bradbury teaches a DRM system implemented to allow plural devices to access media content wherein a token is used to identify a program or a program group (see paragraph [1178]), and that this system provides various functionalities including modifying metadata of the content "*in the event metadata associated with an asset is incorrect or needs to be updated. See table 23*", when examined in context, Bradbury's teaching is also quite different from applicant's art.

Bradbury paragraphs [1178], and even [1179] beyond [1178], in their entirety merely read: "*Interactive Player System Persistent ID (pid) The Persistent id is a token that can be passed amonst interactive player systems to identify a program or program group*". This has nothing to do with DRM or encrypted media.

Similarly Bradbury Table 23 is unrelated to applicant's art. With respect to modifying metadata, Table 23 merely teaches:

Modify Metadata "The system allows a content provider to replace the metadata associated with a particular asset with updated metadata (e.g. in the event metadata associated with an asset is incorrect or needs to be updated)".

Given that Bradbury is teaching Metadata for things such as parental guidance ratings, brands, series, episodes and versions, and this section more reasonably reads on a content provider correcting metadata for series or version typographical errors or misspellings, and the like.

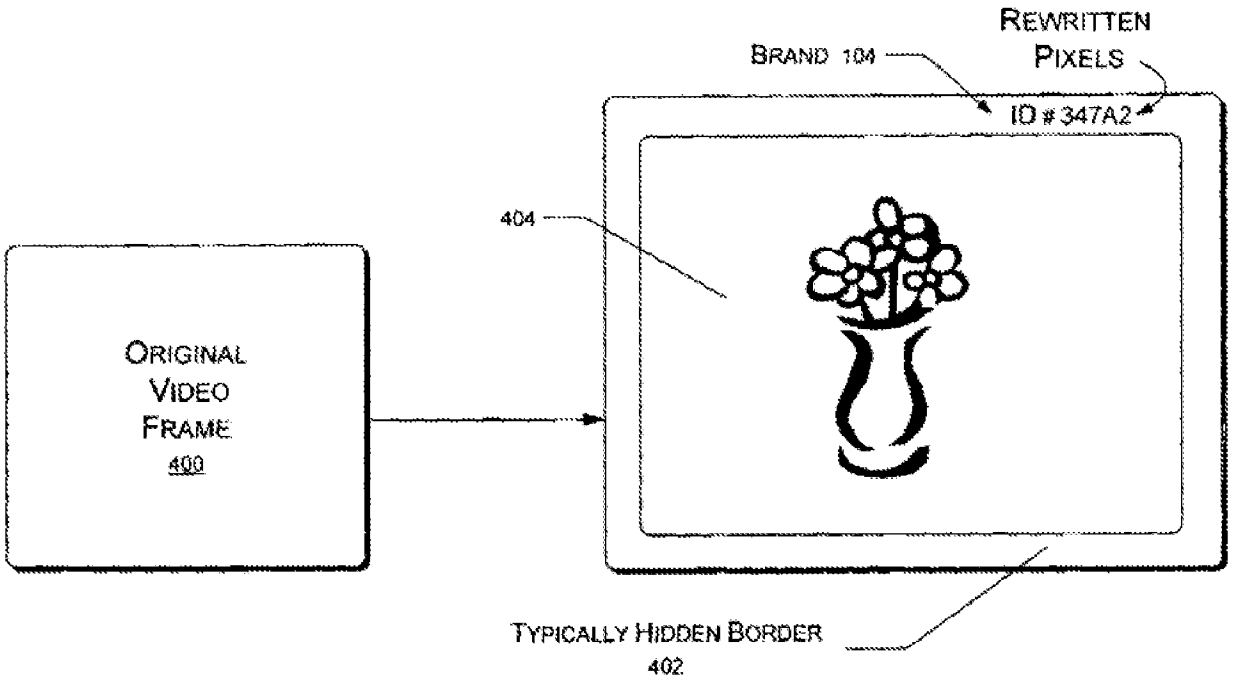
Art of Wimmer

Wimmer is also focused on a different problem -- marking digital media with a personal identifier to serve as deterrent against unauthorized redistribution of digital media such as video

content (Wimmer summary, column 1, lines 38-42, column 2 lines 9-13). Indeed, as Wimmer discusses in column 2 lines 16- 24 "*This branding of a user's personal identity information…need not be complex or subtle. Indeed instead of stealthy hiding the brand, a user's brand is purposely placed to be potentially or actually visible and humanly-readable ("legible") when the video content is displayed. The display of the brand acts as an effective psychological deterrent to remind unauthorized redistributors of video content, both inadvertent and willful, that their dissemination of the video content is unauthorized or illegal*".

Here Wimmer is not teaching branding the digital media metadata. Rather, Wimmer is actually altering the underlying digital media itself (e.g. the rewritten pixels). Although Wimmer may use metadata as the source of information to use to in turn alter the digital media, what is being altered or written to is the actual digital media.

See, for example, Wimmer Figure 4 shown below, which shows brand (104) as rewritten pixels that can be seen in the video frame. Again this is not writing to the digital media metadata, this is writing to the actual media data itself.



Thus Wimmer is teaching something completely different from applicant's art. Wimmer's methods do not actually impair the ability unauthorized users to view unauthorized media copies.

Rather the method simply makes it easier for investigators to later track who is distributing unauthorized video copies.

Thus, contrary to examiner's assertions, Wimmer Figure 4-10, abstract, column 8 line 56 to column 9 line 12, and column 12 lines 31-42 to not teach: "*f. branding metadata of the encrypted digital media by writing the membership verification token and the electronic reference into the metadata*". Rather Wimmer is writing onto the actual media data itself.

Note also that Wimmer's methods, although suitable for writing onto unused areas of video frames, will severely damage computer program type digital media. It will also, to a lesser extent, somewhat degrade audio type digital media as well.

Note the many differences between Wimmer and applicant's art. Applicant's art completely restricts unauthorized users from using digital media, but when authorized, applicant's users can get access to the original unaltered digital media after authorization.

By contrast, Wimmer's methods do not restrict unauthorized users from using digital media. Further all of Wimmer's users, authorized or unauthorized, will get non-original (altered or degraded versions) of the digital media.

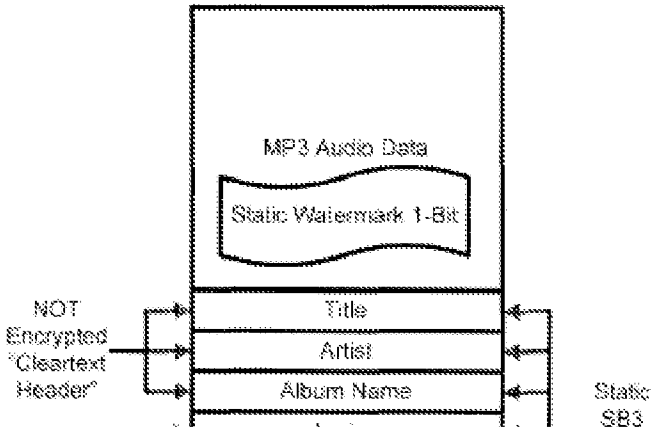
Thus examiner's hindsight-motivated combination of Bradbury and Wimmer completely fails to anticipate applicant's art on multiple levels. There so many areas of difference that this ends up being an "apples to oranges" type comparison.

Claim rejections 35 USC 103(a)

Regarding claims 1-3, 5, 8-11, 14-18, 21-24, 26, and 29: The rejection of claims 1-3, 5, 8-11, 14-18, 21-24, 26, and 29 under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer are respectfully traversed in part and overcome in part. As discussed above, applicant respectfully traverses on the basis that the combination of Bradbury and Wimmer proposed by examiner is both motivated by impermissible use of hindsight, and in any event completely fails to reproduce the claim limitations of claims 1-3, 5, 8-11, 14-18, 21-24, 26, and 29.

Regarding claims 4, 6-7, 25 and 27-28: The rejection of claims 4, 6-7, 25 and 27-28 under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer and further in view of Levine are further respectfully traversed in part and overcome in part. Claims 4 and 6-7 are dependent claims to claim 1, and thus inherit the many differences between claim 1 and the combination of Bradbury and Wimmer as previously discussed. Claims 25 and 27-28 are dependent claims to claim 22, and thus inherit the many differences between claim 2 and the combination of Bradbury and Wimmer as previously discussed.

Although examiner further cites Levine, Levine does nothing to repair the deficiencies of the combination of Bradbury and Wimmer in this regard. Levine, in a manner not unlike Wimmer, teaches watermarking MP3 digital files, which are widely known in the art and which are normally not encrypted. See, for example, Levine Fig 1B, showing the watermark as part of the MP3 audio data:



Levine teaches watermarking the audio data, and then in turn storing it with an encrypted data header. He then proposes [0034] a new type of "SB3" file format where a compliant SB3 media player will refuse to play MP3 files if a water mark is present. Note that this watermarked MP3 audio data will be at least slightly degraded in terms of noise or dynamic range from the original MP3 audio data.

As applicant understands the teaching Levine [0079] if Levine's SB3 file is played in a standard MP3 file, the SB3 file will play, however the encrypted SB3 file header will also have information such as the user's email address that, as Levine puts it: "*In this particular case,*

having the user's email address publicly viewable may have a deterrent factor". So again, this system doesn't actually restrict distribution or playback per-se; rather it appears to be almost an audio counterpart to the Wimmer application. Note again that although for MP3 audio files, users may tolerate some degradation in sound quality to support the watermark, such a watermark would be totally incompatible with other media such as computer programs.

Alternatively, as taught by Levine [0172], the encrypted header itself could include DRM encoded audio files. However such files would only play back on non-standard and presumably proprietary SB3 audio players, which is quite against the open and interoperable intent and claim limitations of applicant's disclosure.

In any event, given these fundamental differences, applicant has been unable to find teaching corresponding to "*the branding request being a request from one or more secondary enablers connected to the excelsior enabler, second enablers comprising one or more of human beings and the plurality of programmed computerized mechanisms in network to the excelsior enabler*" which examiner asserts is somehow contained in Levine Figures 5-7 and paragraphs [0050]-[0068]. Applicant thus respectfully requests that examiner state with more precision exactly what Levine wording examiner interprets as containing this type of teaching.

Regarding claims 12 and 19: The rejection of claims 12 and 19 under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer and Levine and further in view of Holtzman are further respectfully traversed in part and overcome in part. Claim 12 is a dependent claim to independent claim 1, and claim 19 is a dependent claim to independent claim 15, which as previously discussed contain claim limitations that are not anticipated by any combination of Bradbury and Wimmer.

Holzman, who was concerned with secure data processing, rather than the free distribution of data among commercial vendors and friends, does nothing to repair the inability of Bradbury, Wimmer, and Levine to reproduce applicant's claim limitations in this regard.

Regarding claims 13 and 20: The rejection of claims 13 and 20 under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer, Levine, and further in view of Sovio are further respectfully traversed in part and overcome in part. Claim 13 is a dependent claim to independent

claim 1, and claim 20 is a dependent claim to independent claim 15, which as previously discussed contain claim limitations that are not anticipated by any combination of Bradbury and Wimmer.

Although Scovio does teach a specific method of electronically sharing authorization to use specific resources, the mere fact that various electronic authorization methods were previously known does not make up for the failure of the combination of Bradbury, Wimmer, and Levin to reproduce the other claim limitations in this case.

Regarding claim 30: Claim 30 has been canceled.

Claim amendments:

For greater clarity and precision, as well as to further distinguish over prior art in certain places, applicant has further amended the claims. No new material has been added. Support for these various claim amendments is as follows:

Support for the claim 1 amendments can be found in specification paragraphs [00058], original claims 5, 26 and elsewhere.

Support for the claim 3 amendments can be found in original claim 4, as well as the Abstract, specification paragraphs [0007], [0009], [00014], [00021], [00028], [00048], [00059] and [00064].

Support for the claim 6 amendments can be found in specification paragraphs [0008], [00028], [00048] and [00061] (membership status).

Support for the claim 7 amendments can be found in specification paragraphs 0007], [0009], [00028], [00048], and [00064].

Support for the claim 12 and 19 amendments can be found in specification paragraphs [00058], [00061], [00063], and [00067].

Support for the claim 13 and 20 amendments can be found in specification paragraphs [0008], and [00048].

Support for the claim 15 amendments can be found in specification paragraphs [00029], [00058].

Support for the claim 24 amendments can be found in specification paragraphs [00028], [00048], and [00061].

Support for the claim 25 amendments can be found in specification paragraphs [00014], [00028], [00048], [00054], [00058], [00061], [00064], and [00068].

Support for the claim 27 and claim 28 amendments can be found in specification paragraphs [00028], [00048] and [00061].

New claims

No new material has been added.

New claims 31 and 33 find support in specification paragraphs [0008], [0009] (access rights), [00010], [00021] (access request), [00028] (CPU, memory, data storage, cloud system, excelsior enabler is a human being or computerized mechanism/device), [00045], [00046], [00047], [00048] (more specific computer teaching), [00055], [00058], [00059], and [00061] (access request by excelsior enabler), [00067]. Support that the membership verification token can also include access rights can be found in original claim 2.

New claims 32 and 36 find support in specification paragraphs [0008], [00021], [00035], [00043] (purchasing rights, rental rights, membership access rights) [00045], [00048], [00053], [00054], [00055], [00056] (rental), [00058] (royalty scheme), and [00061].

New claim 35 finds support in original claim 30, now canceled.

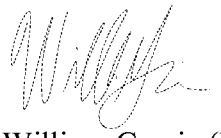
Applicant invites the examiner to try a production level demonstration of the invention at www.str3em.com/v3 using a Facebook account and this demo membership token: K6FC633CGWBY

More specifically, applicant invites the examiner to try the demo named Big Buck Bunny using a Windows PC, Mac, iOS device and Android device for a demonstration on how the invention works to allow content access across the various devices using separate encrypted media formats, namely: 1) Windows Media DRM, 2) Encrypted Apple HTTP Live Streaming for iOS devices, 3) Adobe Access DRM with Adobe Flash, and 4) Microsoft Silverlight with PlayReady DRM.

In view of the amendments and accompanying remarks, applicant believes that the application is now in condition for allowance. Notice to that effect is respectfully requested.

If the examiner believes that a telephone conference would expedite prosecution of this application, please telephone the undersigned at (212) 372-0293.

Respectfully Submitted



William Grecia (Inventor)

Electronic Acknowledgement Receipt

EFS ID:	13067524
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	21-JUN-2012
Filing Date:	15-FEB-2012
Time Stamp:	07:27:41
Application Type:	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	Amendment/Req. Reconsideration-After Non-Final Reject	aemendSIG.pdf	901066 65dd8b6f7d0e5fc52ea0196c5b1b68702ebf c012	no	20

Warnings:	
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
13/397,517	02/15/2012	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☒ RATE ($)	SMALL ENTITY ☒ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 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).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

AMENDMENT	06/21/2012	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 30	Minus	** 30	= 0	X $30 =	0	OR	X $ =	
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	X $125 =	0	OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/THERESA LINDSAY/

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/397,517	02/15/2012	William Grecia	B7-1

CONFIRMATION NO. 6106

70984
The STR3EM Team
2885 Sanford Ave SW #13208
Grandville, MI 49418

PUBLICATION NOTICE

Title:PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)

Publication No.US-2012-0151220-A1
Publication Date:06/14/2012

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The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Examiner: Tran, Tri Minh
William Grecia	Art Unit: 2494
Application No.: 13/397,517	CNF# 6106
Filed: February 15, 2012	**AMENDMENT/REPLY**
For: PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)	

Assistant Commissioner for Patents
P. O. Box 1450
Alexandria VA, 22313-1450

Sir:

In response to the Office Action mailed May 31, 2012, please consider the following amendments and arguments traversing and overcoming the specific rejections made in this office action.

IN THE CLAIMS:

Please amend claims 1, 3, 6-7, 12-13, 15, 19-20, 22-25, and 27-29. Please cancel claims 4, 9, 14, 16, 21, 23 and 30. Please add new claims 31-37. All pending claims are reproduced for convenient reference.

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:

a[[.]]: 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 encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media;

b[[.]]: authenticating the membership verification token, the authentication being performed in connection with a token database;

c [[.]]:establishing connection with the at least one communications console;

d[[.]]: requesting at least one electronic identification reference from the at least one communications console;

e[[.]]: receiving the at least one electronic identification reference from the at least one communications console; and

f[[.]]: 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 enabler through a data processing device of the plurality of data processing devices, the excelsior enabler 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 connected to the excelsior enabler, the plurality of second enablers comprising one or more of human beings or programmed computerized mechanisms in network of the excelsior enabler;

wherein said second enablers are validated by a membership web service.

4. (Canceled)

5. (Original) The method according to claim 1, wherein the membership verification token represents verification from content provider to grant access rights to the excelsior enabler and the one or more secondary enablers.

6. (Currently amended) The method according to claim 1, wherein the encrypted digital media is shared with one or more users according to a membership status ~~after a predefined period~~.

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 said users being validated by the membership status of a membership web service ~~is a network of friends of the excelsior enabler~~.

8. (Original) 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 corresponding token from the list of associated tokens stored in the token database for verification.

9. (Canceled)

10. (Original) The method according to claim 1, wherein the communications console is a combination of an Applications Programmable Interface (API) protocol and graphic user interface (GUI).

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. (Currently amended) The method according to claim 1, wherein the electronic identification reference is a web service account identifier, rights token, e-mail, password, serial number, networking address, manufacturer identification, checksum, file, circuit, operating system

version, browser version, credential, cookie, key or ID, the web service capable of facilitating service two way data exchange to complete the verification process.

13. (Currently amended) The method according to claim 1, wherein the electronic identification reference is a key ~~certificate~~ file, the key ~~certificate~~ 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, said system comprising:

a[[.]]: 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 write request of metadata of the encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media;

b[[.]]: an authentication module, the authentication module authenticating the membership verification token, the authentication being performed in connection with a token database;

c[[.]]: a connection module, the connection module establishing connection with the at least one communications console;

d [[.]]: a request module, the request module requesting at least one electronic identification reference from the at least one communications console;

e[[.]]: a second receipt module, the second receipt module receiving the at least one electronic identification reference from the at least one communications console; and

f[[.]]: 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. (Canceled)

17. (Original) The system according to claim 15, wherein the communications console is a combination of an Applications Programmable Interface (API) protocol and graphic user interface (GUI) as part of a web service.

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.

19. (Currently amended) The system according to claim 15, wherein the electronic identification reference is a web service account identifier, rights token, e-mail, password, serial number, networking address, manufacturer identification, checksum, file, circuit, operating system version, browser version, credential, cookie, key or ID, the web service capable of facilitating service two way data exchange to complete the verification process.

20. (Currently 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 one 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:

a[[.]]: 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 encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media;

b[[.]]: authenticating the membership verification token, the authentication being performed in connection with a token database;

c[[.]]: establishing connection with the at least one communications console;

d[[.]]: requesting at least one electronic identification reference from the at least one communications console;

e[[.]]: receiving the at least one electronic identification reference from the at least one communications console; and

f[[.]]: 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 ~~being~~ is a request from an excelsior enabler providing a credential to a membership web service through a data processing device of the plurality of data processing devices, the excelsior enabler being ~~the~~ 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 ~~being~~ is a request from one or more secondary enablers asked to participate in providing a credential to said membership web service connected to the excelsior enabler, the credential being one generated manually or generated automatically by the membership web service, the plurality of second enablers comprising one or more of human beings ~~and~~ or a programmed computerized mechanism~~s~~ in the network of the excelsior enabler.

26. (Original) The computer program product according to claim 24, wherein the membership verification token represents verification from content provider to grant access rights to the excelsior enabler and the one or more secondary enablers.

27. (Currently 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 ~~after a predefined period~~.

28. (Currently amended) The computer program product according to claim 27, wherein the one or more secondary users is ~~a network of friends~~ a programmed and automated machine hosting an operating system that is operated by of the excelsior enabler.

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. (New) The method of claim 1, wherein the method facilitates access rights authentication for said encrypted digital media, said branding request is an access request, and wherein said read or write request of metadata is performed in connection with a combination of a memory, CPU, server, database, and cloud system;

Said access request is generated by either a human user, a machine, or a human programmed computerized device;

Said access request further comprises a membership verification token and a rights token; and

Wherein said branding metadata alternatively comprises writing said rights token into said metadata.

32. (New) The method of claim 2, wherein said membership verification token comprises at least one token selected from the group consisting of purchase, rental, or membership permissions coupled to a royalty scheme;

Wherein said 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 said encrypted digital media.

33. (New) The system of claim 15, wherein the system facilitates access rights authentication for said encrypted digital media, said branding request is an access request, and wherein said read or write request of metadata is performed in connection with a combination of a memory, CPU, server, database, and cloud system;

Said access request is generated by either a human user, a machine, or a human programmed computerized device;

Said access request further comprises a membership verification token and a rights token; and

Wherein said branding metadata alternatively comprises writing said rights token into said metadata.

34. (New) The system of claim 15, wherein said membership verification token comprises at least one token selected from the group consisting of purchase, rental, or membership permissions coupled to a royalty scheme;

Wherein said 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 said encrypted digital media.

35. (New) The system of claim 15, wherein said encrypted digital media capable of unlimited interoperability between a plurality of data processing devices, is further authored by an authoring system comprising:

g: a selection module, the selection module selecting one or more media items to form the encrypted digital media;

h: a password module, the password module entering a master password which provides access to the encrypted digital media for editing;

i: a customization module, the customization module customizing user access panel of the encrypted digital media;

j: 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

k: an encryption module, the encryption module encrypting the one or more media items to create the encrypted digital media.

36. (New) The computer program product of claim 22, wherein the computer program product facilitates access rights authentication for said encrypted digital media, said branding request is an access request, and wherein said read or write request of metadata is performed in connection with a combination of a memory, CPU, server, database, and cloud system;

Said access request is generated by either a human user, a machine, or a human programmed computerized device;

Said access request further comprises a membership verification token and a rights token; and

Wherein said branding metadata alternatively comprises writing said rights token into said metadata.

37. (New) The computer program product of claim 22, wherein the membership verification token comprises at least one token selected from the group consisting of purchase, rental, or membership permissions coupled to a royalty scheme;

Wherein said 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 said encrypted digital media.

REMARKS

Claims 1-30 were examined. Claims 22-29 were rejected under 35 USC 101. Claims 1-3, 5, 8-11, 14-18, 21-24, 26, and 29 were rejected under 35 USC 103(a) as being unpatentable over Bradbury (US Pub 20100100899) in view of Wimmer (US Patent 7,526,650). Claims 4, 6-7, 25 and 27-28 were rejected under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer and further in view of Levine (US Pub 20090083541). Claims 12 and 19 were rejected under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer and Levine and further in view of Holtzman (US Pub 20080010685). Claims 13 and 20 were rejected under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer, Levine, and further in view of Sovio (US Patent 7,343,014). Claim 30 was rejected under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer, Holzman and Bordeault (US Patent 7,254,235).

Claim rejections 35 USC 101

The rejections of claims 22-29 under 35 USC 101 have been overcome. Applicant gratefully acknowledges examiner's suggestion, and has accordingly amended independent claim 22 to contain the additional limitation "non-transitory" limitation. This "non-transitory" limitation should be understood to cover standard computer data storage medium such as traditional computer memory, data storage, system on a chip, embedded silicon, flash memory, programmable circuits, or even cloud computing since the cloud data is stored on hard drives, flash memory, and the like.

Review of Applicant's Art, and the art of Bradbury and Wilmer

Before proceeding with the specific discussion traversing and overcoming the various rejections to claims 1-30, applicant believes that a brief review of applicant's art, and the art of Bradbury and Wilmer (major citations) is in order.

Applicant's art

Applicant is teaching a general purpose method to allow authorized users (excelsior enablers) access to encrypted digital media with associated metadata, such as music, movies, etc. on a

plurality of different devices. The method enables access as follows: The authorized user generates an encrypted media metadata branding request using the communication console of a particular device. The authorized user sends a membership (e.g. verification or authorization) token. This token can be, for example, verification that the authorized user has media access rights. This request, along with the verification token, is then often received by a remote internet server (e.g. a web service account). The remote internet server uses a token database to authenticate this token. If this token is verified, the remote internet server can then send an electronic identification reference request back to the communications console. The authorized user can then enter this electronic identification reference into the communications console. The remote internet server can then "brand" (e.g. write) the membership verification token and electronic identification reference onto the encrypted digital media, thus authorizing use of the encrypted digital media. Subsequently, various devices can then read this digital media associated metadata, and see that the authorized user and particular device are properly authorized, and then decrypt and play the encrypted media.

Art of Bradbury

Bradbury is an unusually long patent, comprising 189 pages and over 62,000 words. Because of the length of the Bradbury citation, the question arises as to if Bradbury may be merely serving as a convenient dictionary or "parts catalog", to be mined for matching terms based upon impermissible hindsight derived from applicant's teaching.

Applicant respectfully submits that here, Bradbury is merely serving as a convenient source of useful phrases by which examiner, aided by applicant's teaching, can then pick and choose and string together in an out-of-order manner in order to attempt to reproduce applicant's art. When examined in context, the various stitched together Bradbury phrases selected by examiner are often from very different sections of Bradbury and are often used by Bradbury for different types of functions.

To begin with, Bradbury teaches dispensing audio or visual content from a central database, and allowing users access to the content only during a specified time period. (e.g. Bradbury claim 116).

Although Bradbury does describe Digital Rights Management (DRM) (see, for example Bradbury paragraphs [0490], [0494], [0518], [0530], [0658], Table 21 and elsewhere), his DRM methods are quite different from applicant's methods. Bradbury describes DRM methods to delete or disable content by what is apparently a timing and deletion method. See for example, paragraph [0658] and Table 21.

Contrary to examiner's assertions, Bradbury's methods do not establish unlimited interoperability between a plurality of data processing devices. Rather these methods establish a very strict time limited criteria on a single data processing device (usually measured in days).

Although Bradbury discusses "metadata" (see Figures 62, 66-67, 75-76, 80, 82-84 and 86), as cited by examiner, the use of his metadata in [0189] is for parental guidance flags. Bradbury also states in [0616]-[0617] that his metadata can also be used for content structure such as brands, series, episodes and versions. In Table 25, Bradbury also mentions rights metadata, but his complete discussion here is:

Combined Schedule Information "The Service Provider combines schedule information with program related metadata, distribution and publishing metadata, and rights metadata as described herein

Rights Metadata "The Broadcaster requires the Service Provider to use an agreed format (which uses or is compatible with XRML) for the publication of rights metadata. This supports a variable rights model.

However Applicant has been unable to find where Bradbury teaches altering metadata (e.g. branding it) for DRM purposes.

Although Bradbury does use the word "brand", in his specification, his use is very different than applicant's use of the word "brand". The word "brand" has multiple meanings. One meaning is

to burn a mark into a media (traditionally an animal hide or wood, but here clearly used by applicant for computer memory media). The other meaning is as a trademark or distinctive name. Bradbury in [0620] clearly shows that he intends the later meaning – "*Brand is short for Programme Brand: typical examples include: Dr Who, Casuality, Midweek, Woman's Hour...*"

Although examiner also asserts that Bradbury teaches a DRM system implemented to allow plural devices to access media content wherein a token is used to identify a program or a program group (see paragraph [1178]), and that this system provides various functionalities including modifying metadata of the content "*in the event metadata associated with an asset is incorrect or needs to be updated. See table 23*", when examined in context, Bradbury's teaching is also quite different from applicant's art.

Bradbury paragraphs [1178], and even [1179] beyond [1178], in their entirety merely read: "*Interactive Player System Persistent ID (pid) The Persistent id is a token that can be passed amonst interactive player systems to identify a program or program group*". This has nothing to do with DRM or encrypted media.

Similarly Bradbury Table 23 is unrelated to applicant's art. With respect to modifying metadata, Table 23 merely teaches:

Modify Metadata "The system allows a content provider to replace the metadata associated with a particular asset with updated metadata (e.g. in the event metadata associated with an asset is incorrect or needs to be updated)".

Given that Bradbury is teaching Metadata for things such as parental guidance ratings, brands, series, episodes and versions, and this section more reasonably reads on a content provider correcting metadata for series or version typographical errors or misspellings, and the like.

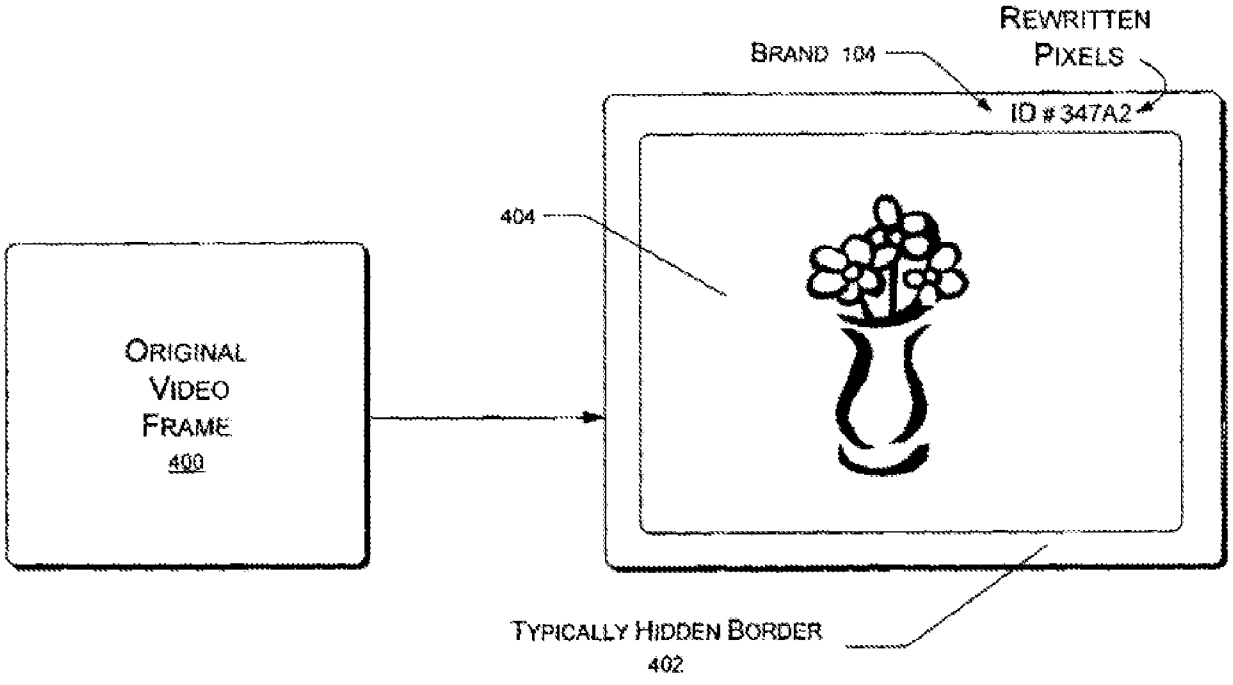
Art of Wimmer

Wimmer is also focused on a different problem -- marking digital media with a personal identifier to serve as deterrent against unauthorized redistribution of digital media such as video

content (Wimmer summary, column 1, lines 38-42, column 2 lines 9-13). Indeed, as Wimmer discusses in column 2 lines 16- 24 "*This branding of a user's personal identity information…need not be complex or subtle. Indeed instead of stealthy hiding the brand, a user's brand is purposely placed to be potentially or actually visible and humanly-readable ("legible") when the video content is displayed. The display of the brand acts as an effective psychological deterrent to remind unauthorized redistributors of video content, both inadvertent and willful, that their dissemination of the video content is unauthorized or illegal*".

Here Wimmer is not teaching branding the digital media metadata. Rather, Wimmer is actually altering the underlying digital media itself (e.g. the rewritten pixels). Although Wimmer may use metadata as the source of information to use to in turn alter the digital media, what is being altered or written to is the actual digital media.

See, for example, Wimmer Figure 4 shown below, which shows brand (104) as rewritten pixels that can be seen in the video frame. Again this is not writing to the digital media metadata, this is writing to the actual media data itself.



Thus Wimmer is teaching something completely different from applicant's art. Wimmer's methods do not actually impair the ability unauthorized users to view unauthorized media copies.

Rather the method simply makes it easier for investigators to later track who is distributing unauthorized video copies.

Thus, contrary to examiner's assertions, Wimmer Figure 4-10, abstract, column 8 line 56 to column 9 line 12, and column 12 lines 31-42 to not teach: "*f. branding metadata of the encrypted digital media by writing the membership verification token and the electronic reference into the metadata*". Rather Wimmer is writing onto the actual media data itself.

Note also that Wimmer's methods, although suitable for writing onto unused areas of video frames, will severely damage computer program type digital media. It will also, to a lesser extent, somewhat degrade audio type digital media as well.

Note the many differences between Wimmer and applicant's art. Applicant's art completely restricts unauthorized users from using digital media, but when authorized, applicant's users can get access to the original unaltered digital media after authorization.

By contrast, Wimmer's methods do not restrict unauthorized users from using digital media. Further all of Wimmer's users, authorized or unauthorized, will get non-original (altered or degraded versions) of the digital media.

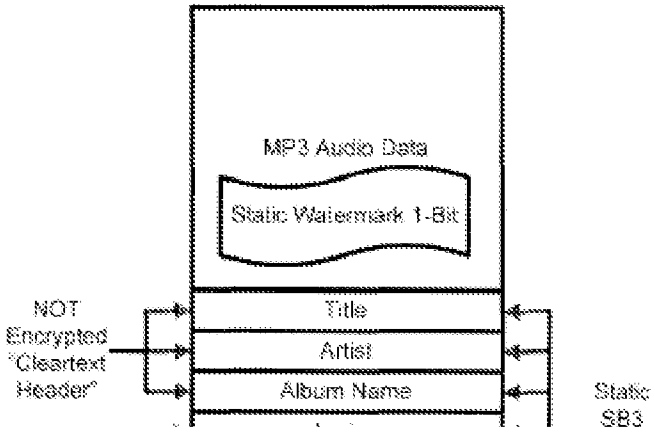
Thus examiner's hindsight-motivated combination of Bradbury and Wimmer completely fails to anticipate applicant's art on multiple levels. There so many areas of difference that this ends up being an "apples to oranges" type comparison.

Claim rejections 35 USC 103(a)

Regarding claims 1-3, 5, 8-11, 14-18, 21-24, 26, and 29: The rejection of claims 1-3, 5, 8-11, 14-18, 21-24, 26, and 29 under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer are respectfully traversed in part and overcome in part. As discussed above, applicant respectfully traverses on the basis that the combination of Bradbury and Wimmer proposed by examiner is both motivated by impermissible use of hindsight, and in any event completely fails to reproduce the claim limitations of claims 1-3, 5, 8-11, 14-18, 21-24, 26, and 29.

Regarding claims 4, 6-7, 25 and 27-28: The rejection of claims 4, 6-7, 25 and 27-28 under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer and further in view of Levine are further respectfully traversed in part and overcome in part. Claims 4 and 6-7 are dependent claims to claim 1, and thus inherit the many differences between claim 1 and the combination of Bradbury and Wimmer as previously discussed. Claims 25 and 27-28 are dependent claims to claim 22, and thus inherit the many differences between claim 2 and the combination of Bradbury and Wimmer as previously discussed.

Although examiner further cites Levine, Levine does nothing to repair the deficiencies of the combination of Bradbury and Wimmer in this regard. Levine, in a manner not unlike Wimmer, teaches watermarking MP3 digital files, which are widely known in the art and which are normally not encrypted. See, for example, Levine Fig 1B, showing the watermark as part of the MP3 audio data:



Levine teaches watermarking the audio data, and then in turn storing it with an encrypted data header. He then proposes [0034] a new type of "SB3" file format where a compliant SB3 media player will refuse to play MP3 files if a water mark is present. Note that this watermarked MP3 audio data will be at least slightly degraded in terms of noise or dynamic range from the original MP3 audio data.

As applicant understands the teaching Levine [0079] if Levine's SB3 file is played in a standard MP3 file, the SB3 file will play, however the encrypted SB3 file header will also have information such as the user's email address that, as Levine puts it: "*In this particular case,*

having the user's email address publicly viewable may have a deterrent factor". So again, this system doesn't actually restrict distribution or playback per-se; rather it appears to be almost an audio counterpart to the Wimmer application. Note again that although for MP3 audio files, users may tolerate some degradation in sound quality to support the watermark, such a watermark would be totally incompatible with other media such as computer programs.

Alternatively, as taught by Levine [0172], the encrypted header itself could include DRM encoded audio files. However such files would only play back on non-standard and presumably proprietary SB3 audio players, which is quite against the open and interoperable intent and claim limitations of applicant's disclosure.

In any event, given these fundamental differences, applicant has been unable to find teaching corresponding to "*the branding request being a request from one or more secondary enablers connected to the excelsior enabler, second enablers comprising one or more of human beings and the plurality of programmed computerized mechanisms in network to the excelsior enabler*" which examiner asserts is somehow contained in Levine Figures 5-7 and paragraphs [0050]-[0068]. Applicant thus respectfully requests that examiner state with more precision exactly what Levine wording examiner interprets as containing this type of teaching.

Regarding claims 12 and 19: The rejection of claims 12 and 19 under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer and Levine and further in view of Holtzman are further respectfully traversed in part and overcome in part. Claim 12 is a dependent claim to independent claim 1, and claim 19 is a dependent claim to independent claim 15, which as previously discussed contain claim limitations that are not anticipated by any combination of Bradbury and Wimmer.

Holzman, who was concerned with secure data processing, rather than the free distribution of data among commercial vendors and friends, does nothing to repair the inability of Bradbury, Wimmer, and Levine to reproduce applicant's claim limitations in this regard.

Regarding claims 13 and 20: The rejection of claims 13 and 20 under 35 USC 103(a) as being unpatentable over Bradbury in view of Wimmer, Levine, and further in view of Sovio are further respectfully traversed in part and overcome in part. Claim 13 is a dependent claim to independent

claim 1, and claim 20 is a dependent claim to independent claim 15, which as previously discussed contain claim limitations that are not anticipated by any combination of Bradbury and Wimmer.

Although Scovio does teach a specific method of electronically sharing authorization to use specific resources, the mere fact that various electronic authorization methods were previously known does not make up for the failure of the combination of Bradbury, Wimmer, and Levin to reproduce the other claim limitations in this case.

Regarding claim 30: Claim 30 has been canceled.

Claim amendments:

For greater clarity and precision, as well as to further distinguish over prior art in certain places, applicant has further amended the claims. No new material has been added. Support for these various claim amendments is as follows:

Support for the claim 1 amendments can be found in specification paragraphs [00058], original claims 5, 26 and elsewhere.

Support for the claim 3 amendments can be found in original claim 4, as well as the Abstract, specification paragraphs [0007], [0009], [00014], [00021], [00028], [00048], [00059] and [00064].

Support for the claim 6 amendments can be found in specification paragraphs [0008], [00028], [00048] and [00061] (membership status).

Support for the claim 7 amendments can be found in specification paragraphs 0007], [0009], [00028], [00048], and [00064].

Support for the claim 12 and 19 amendments can be found in specification paragraphs [00058], [00061], [00063], and [00067].

Support for the claim 13 and 20 amendments can be found in specification paragraphs [0008], and [00048].

Support for the claim 15 amendments can be found in specification paragraphs [00029], [00058].

Support for the claim 24 amendments can be found in specification paragraphs [00028], [00048], and [00061].

Support for the claim 25 amendments can be found in specification paragraphs [00014], [00028], [00048], [00054], [00058], [00061], [00064], and [00068].

Support for the claim 27 and claim 28 amendments can be found in specification paragraphs [00028], [00048] and [00061].

New claims

No new material has been added.

New claims 31 and 33 find support in specification paragraphs [0008], [0009] (access rights), [00010], [00021] (access request), [00028] (CPU, memory, data storage, cloud system, excelsior enabler is a human being or computerized mechanism/device), [00045], [00046], [00047], [00048] (more specific computer teaching), [00055], [00058], [00059], and [00061] (access request by excelsior enabler), [00067]. Support that the membership verification token can also include access rights can be found in original claim 2.

New claims 32 and 36 find support in specification paragraphs [0008], [00021], [00035], [00043] (purchasing rights, rental rights, membership access rights) [00045], [00048], [00053], [00054], [00055], [00056] (rental), [00058] (royalty scheme), and [00061].

New claim 35 finds support in original claim 30, now canceled.

Applicant invites the examiner to try a production level demonstration of the invention at www.str3em.com/v3 using a Facebook account and this demo membership token: K6FC633CGWBY

More specifically, applicant invites the examiner to try the demo named Big Buck Bunny using a Windows PC, Mac, iOS device and Android device for a demonstration on how the invention works to allow content access across the various devices using separate encrypted media formats, namely: 1) Windows Media DRM, 2) Encrypted Apple HTTP Live Streaming for iOS devices, 3) Adobe Access DRM with Adobe Flash, and 4) Microsoft Silverlight with PlayReady DRM.

In view of the amendments and accompanying remarks, applicant believes that the application is now in condition for allowance. Notice to that effect is respectfully requested.

If the examiner believes that a telephone conference would expedite prosecution of this application, please telephone the undersigned at (212) 372-0293.

Respectfully Submitted

William Grecia (Inventor)

Electronic Acknowledgement Receipt

EFS ID:	12993899
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	12-JUN-2012
Filing Date:	15-FEB-2012
Time Stamp:	15:44:03
Application Type:	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	Amendment/Req. Reconsideration-After Non-Final Reject	GRECIA-OAR-emb.pdf	207911 188abee751a0b541e0d041eb65ea5dc135a7334a	no	20

Warnings:	
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Total Files Size (in bytes):	207911

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.

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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 05/31/2012

The STR3EM Team
2885 Sanford Ave SW #13208
Grandville, MI 49418

EXAMINER	
TRAN, TRI MINH	

ART UNIT	PAPER NUMBER
2494	

NOTIFICATION DATE	DELIVERY MODE
05/31/2012	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

Office Action Summary	Application No.	Applicant(s)	
	13/397,517	GRECIA, WILLIAM	
	Examiner	Art Unit	
	TRI TRAN	2494	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *15 February 2012*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5)☒ Claim(s) *1-30* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-30* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

12)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

13)☐ 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:

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)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claims 1 to 30 are pending.

This communication is in response to the Application filed on February 15 2012.

The instant application is a continuation of application 12/985351 filed on January 6, 2011, which is a continuation of application 12/728218 filed on March 21 2010.

Claim Rejections - 35 USC § 101

1. Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

As regarding claims 22-29, the claims direct to a computer program product stored on a *computer usable medium*. However, claims 22-29 do not clearly limit a *computer usable medium* to be a memory/disk. Also, claims 22-29 do not define a "computer readable medium" to be a memory/disk and is thus non-statutory for that reason. The specification is silent on the definition of computer usable medium. Consequently, the broadest reasonable interpretation of a claim drawn to a computer usable medium (also called machine readable medium and other such variations) could cover forms of non-transitory tangible media and transitory propagating signals per se in view of the ordinary and customary meaning of computer readable media, particularly when the specification is silent (See MPEP 2111.01). Since the broadest reasonable interpretation of a claim covers a signal per se, claims 22-29 are rejected under 35 US.C. § 101 as covering non-statutory subject matter. See In re Nuijten, 500 F.3d 1346, 1356-57 (Fed. Cir. 2007) (transitory embodiments are not directed to statutory subject

matter). The Examiner suggests amending claims 22-29 by narrowing the claims to cover only statutory embodiments to avoid a rejection under 35 U.S.C. § 101 by adding the limitation "non-transitory" to the claims. Furthermore, such an amendment would not raise the issue of new matter, even when the specification is silent because the broadest reasonable interpretation relies on the ordinary and customary meaning that includes signals per se.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 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 negatived by the manner in which the invention was made.

Claims 1-3, 5, 8-11, 14-18, 21-24, 26, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bradbury et al. PS pub 20100100899 – Accessing Content (herein after Bradbury et al.) in view of Chris Wimmer US Patent 7526650 – Personal Identification for Protecting Video Content (herein after Wimmer)

Regarding claim 1, Bradbury et al. disclose *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:*

b. authenticating the membership verification token, the authentication being

performed in connection with a token database (see paragraphs [0185]-[0189] & and [1178] which discloses authentication process when the user signs in with the use of token to identify which program the user wants to access to)*;*

c. establishing connection with the at least one communications console (see Fig. 26 which shows the Interactive system allow communications between plurality of devices such as PDA, laptop or PC to access DRM content through the internet).

a. receiving a … request from at least one communications console of the plurality of data processing devices, the … request being a read and write request of metadata of the encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media (see Fig. 1-3 which show the interactive player system user interface architecture and Fig. 26 shows an overall interactive player system that allow user to register, download and paragraphs [0185]-[0189], [0218], [326] which discloses the DRM system is implemented to allow a plural devices to access media content wherein a token is used to identify a program or a program group (see paragraph [1178]). The system provides various functionalities including modifying metadata of the content "in the event metadata associated with an asset is incorrect or needs to be updated". See table 23). Bradbury et al. do not disclose the request in limitation a., as disclosed above, is a ***branding request***. However, it is common in the art to tag a personal identification in a metadata of a media content to prevent illegal distribution of copy-righted materials as disclosed in Wimmer (see Fig. 4, 10, abstract, and column 8, line 56 to column 9, line 12). Wimmer et al. also disclose

d. requesting at least one electronic identification reference from the at least one communications console (see Fig. 5, 7-9 and column 2, lines 31-42 which discloses branding video content can include a personal identification such as set-top-box number)*;* and

e. receiving the at least one electronic identification reference from the at least one communications console (see Fig. 5, 7-9 and column 2, lines 31-42 which discloses branding video content can include a personal identification such as set-top-box number).

f*. branding metadata of the encrypted digital media by writing the membership verification token and the electronic identification reference into the metadata* (see Fig. 4-10, abstract, and column 8, line 56 to column 9, line 12 and column 2, lines 31-42, which discloses metadata is used to encrypt into digital media. Metadata can include user's personal information such as social security number, name, email, or device serial number).

Therefore, it would have been obvious to one skilled in the art to modify the teaching of Bradbury et al. with the invention of Wimmer such that to create a process of having the steps of

a. *receiving a branding request from at least one communications console of the plurality of data processing devices, the branding request being a read and write request of metadata of the encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media;*

d. requesting at least one electronic identification reference from the at least one

communications console;

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

f*. branding metadata of the encrypted digital media by writing the membership verification token and the electronic identification reference into the metadata*. One would have done so to prevent piracy for illegal distribution of DRM content by encrypting user's personal information and/or user's playback device identification onto media content.

Regarding claim 2, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Wimmer et al. disclose *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* (see Fig. 5, 7-9 and column 2, lines 31-42 which discloses branding video content is identified by the use of user's name, password, or set-top-box number or any combination depending on security level based on user's credit rating. See also column 6, lines 39-67).

Regarding claim 3, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. In view of the rejection in claim 1, Bradbury et al. still disclose *the branding request being a request from an excelsior enabler through a data processing device of the plurality of data processing devices, the excelsior enabler being the user*

acquiring access rights to the encrypted digital media. Since, the user is required to log in with device ID for authentication and with a token to identify what program to view.

Regarding claim 5, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Furthermore, Bradbury et al. disclose *the membership verification token represents verification from content provider to grant access rights to the excelsior enabler and the one or more secondary enablers.* See rejection in claim 1; since the Interactive system in Bradbury et al. disclose the DRM content delivery allows one membership to play the DRM content on more than one devices (see Fig. 26 and paragraph [0326]).

Regarding claim 8, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Bradbury et al. disclose *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* (see Fig. 26, 101 and paragraphs [2146], [2155] that discloses databases are used as references to information relating to the media content. This implies some cross-referencing is incorporated to identify how a content is linked and verified for delivery).

Regarding claim 9, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Bradbury et al. disclose *the connection is established through one*

of internet, intranet, Bluetooth, VPN, Infrared, and LAN see Fig. 26 which shows the Interactive system is connected to user devices through the internet).

Regarding claim 10, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Bradbury et al. disclose *the communications console is a combination of an Applications Programmable Interface (API) protocol and graphic user interface (GUI)* (see Fig. 40-41, 87 and paragraphs [1278], [1929]-[1935] which discloses GUI screen to register and the use of Peer-to-Peer API and Windows Media Player API to download subtitle file).

Regarding claim 11, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Bradbury et al. disclose *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* (see paragraph [1955] which discloses DRM system provides Video-on-Demand).

Regarding claim 14, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Bradbury et al. disclose *the plurality of data processing devices comprises one or more of a computer, laptop, notebook, cell phone and a PDA* (see Fig. 26 which shows *laptop, notebook, cell phone or a PDA* communicates to the Interactive system).

Regarding claims 15 and 22, the claims are the system and computer product program to execute the method claim of claim 1. The claims do not define beyond the limitations of claim 1. Therefore, claims 15 and 22 are rejected under the same reasons outlined in claim 1.

Regarding claim 16, the claim does not define beyond the limitations of claim 9. Therefore, claim 16 is rejected under the same reasons outlined in claim 9.

Regarding claim 17, the claim does not define beyond the limitations of claim 10. Therefore, claim 17 is rejected under the same reasons outlined in claim 10.

Regarding claim 18, the claim does not define beyond the limitations of claim 11. Therefore, claim 18 is rejected under the same reasons outlined in claim 11.

Regarding claim 21, the claim does not define beyond the limitations of claim 14. Therefore, claim 21 is rejected under the same reasons outlined in claim 14.

Regarding claim 23, the claim does not define beyond the limitations of claim 2. Therefore, claim 23 is rejected under the same reasons outlined in claim 2.

Regarding claim 24, the claim does not define beyond the limitations of claim 3. Therefore, claim 24 is rejected under the same reasons outlined in claim 3.

Regarding claim 26, the claim does not define beyond the limitations of claim 5. Therefore, claim 26 is rejected under the same reasons outlined in claim 5.

Regarding claim 29, the claim does not define beyond the limitations of claim 8. Therefore, claim 29 is rejected under the same reasons outlined in claim 8.

Claims 4, 6-7, 25, and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bradbury et al. in view of Wimmer et al. and further in view of Scott Levine PG Pub 20090083541 – Method and Apparatus for Distributing Digital Content (herein after Levine)

Regarding claim 4, the rejection of claim 3 under 35 U.S.C. 103(a) is incorporated herein. Bradbury et al. do not disclose *the branding request being a request from one or more secondary enablers connected to the excelsior enabler, second enablers comprising one or more of human beings and the plurality of programmed computerized mechanisms in network of the excelsior enabler.* Levine discloses a system of sharing mp3 type music file among friends wherein the friend(s) has to provide information for the DRM system validates whether sharing is authorized or not based on the Content ID User ID, Transaction ID and/or token (see Fig. 5-7 and paragraphs [0050]-[0068]). Therefore, it would have been obvious to one skilled in the

art to modify the teaching of Bradbury et al. with the invention of Wimmer et al. such that the *branding request being a request from one or more secondary enablers connected to the excelsior enabler, second enablers comprising one or more of human beings and the plurality of programmed computerized mechanisms in network of the excelsior enabler.* One would have done so to allow not only DRM content can be access by a user with multiple devices but also allow the user to share the subscribed/paid content to friends and family members.

Regarding claim 6, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Bradbury et al. disclose *the encrypted digital media is shared with one or more users after a predefined period* (see paragraph [0023] which discloses the content only presents in certain period of Bradbury et al. and Levine discloses DRM system to allow mp3 type of file to be shared among friends or family members. See Fig. 5-7 and rejection in claim 4).

Regarding claim 7, the rejection of claim 6 under 35 U.S.C. 103(a) is incorporated herein. Neither Bradbury et al. nor Wimmer et al. disclose *the one or more users is a network of friends of the excelsior enabler.* Levine discloses DRM system to allow mp3 type of file to be shared among friends or family members (see Fig. 5-7 and rejection in claim 4).

Regarding claim 25, the claim does not define beyond the limitations of claim 4. Therefore, claim 25 is rejected under the same reasons outlined in claim 4.

Regarding claim 27, the claim does not define beyond the limitations of claim 6. Therefore, claim 27 is rejected under the same reasons outlined in claim 6.

Regarding claim 28, the claim does not define beyond the limitations of claim 7. Therefore, claim 28 is rejected under the same reasons outlined in claim 7.

Claims 12 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bradbury et al. in view of Wimmer et al. and Levine, and further in view of Holtzman et al. PG Pub 20080010685 – Content Control Method Using Versatile Control Structure (herein after Holtzman et al.)

Regarding claim 12, the rejection of claim 6 under 35 U.S.C. 103(a) is incorporated herein. Neither Bradbury et al. nor Wimmer et al. disclose *the electronic identification reference is a web service account, the web service capable of facilitating service two way data exchange to complete the verification process.* Holtzman et al. disclose a system of accessing DRM content with application to securely process and control on portable memory card on the user's side as smart card/token. One of the

functions of the application is to provide authentication of the user with his/her ID and password to validate account along with mechanism to ensure a secure communication channel by mutual authentication. The system also provide an extra secure step for authenticating the log in step by the use of one time password wherein the user‘s OTP is verified mutually with a intended-to-access web server (see Fig. 19, 23, 41, and paragraphs [0221], [0245], [0248], and [0374]-[0376]). Therefore, it would have been obvious to one skilled in the art to modify the teachings of Bradbury et al. and Wimmer et al. with the invention of Holtzman et al. such that the *the electronic identification reference is a web service account, the web service capable of facilitating service two way data exchange to complete the verification process.* One would have done so to ensure a secure communication.

Regarding claim 19, the claim does not define beyond the limitations of claim 12. Therefore, claim 19 is rejected under the same reasons outlined in claim 12.

Claims 13 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bradbury et al. in view of Wimmer et al., in view of Levine, and further in view of Sovio et al. US Patent 7343014 – Method for Sharing the Authorization to Use Specific Resources (herein after Sovio et al.)

Regarding claim 13, the rejection of claim 1 under 35 U.S.C. 103(a) is incorporated herein. Neither Bradbury et al. nor Wimmer et al. expressly disclose *the electronic identification reference is a key certificate, the key certificate being uploaded by the at least one communications console for branding the encrypted digital media.* However, to obtain a key to decrypt an encrypted content is very well-known in the art. Sovio et al. provide an example of a mobile device requesting for sharing a DRM content where in the device has to send a certificate to a rights issuer in order to obtain the content key to decrypt the encrypted media content (see column 12, lines 18-31). Therefore, it would have been obvious to one skilled in the art to modify the teachings of Bradbury et al. and Wimmer et al. with the invention of Sovio et al. such that *the electronic identification reference is a key certificate, the key certificate being uploaded by the at least one communications console for branding the encrypted digital media.* One would have done so to allow only legitimate devices to decrypt DRM media content.

Regarding claim 20, the claim does not define beyond the limitations of claim 13. Therefore, claim 20 is rejected under the same reasons outlined in claim 13.

Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bradbury et al. in view of Wimmer et al. and further in view of Holtzman et al. and Boudreault et al. US Patent 7254235 – Receiving mixed-media data (herein after Boudreault et al.)

Regarding claim 30, the combined teachings of Bradbury et al. and Wimmer et al. disclose *a system for authoring an encrypted digital media capable of unlimited interoperability between a plurality of data processing devices, the system comprising:*

a. a selection module, the selection module selecting one or more media items to form the encrypted digital media (see Fig. 2-3 and paragraph [0031], which disclose user can select options whether to view or to download content etc.)*;*

d. 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 (Bradbury et al. disclose the use of token for verification. See rejection in claim 1)*; and*

e. an encryption module, the encryption module encrypting the one or more media items to create the encrypted digital media (Wimmer et al. disclose video content being encrypted with personal information for branded content. See Fig. 1-4 and column 1, lines 38-42).

Although neither Bradbury et al. nor Wimmer et al. expressly disclose

b. a password module, the password module entering a master password which provides access to the encrypted digital media for editing.

c. a customization module, the customization module customizing user access panel of the encrypted digital media.

However, it is very common that in a DRM system a master password is used to access media content, in addition to user ID and password to login, as disclosed in

Holtzman et al. (see paragraphs [0374]-[0376] for dual factor authentication). Furthermore, it is also common to allow user to modify or to view, based on the access code (i.e. master password equivalent), the screen or the display wherein the media content is presented as disclosed in Boudreault et al. (see Fig. 2, abstract, and column 1, lines 32-43). Therefore, it would have been obvious to one skilled in the art to modify the teachings of Bradbury et al. and Wimmer et al. with the inventions of Holtzman et al. and Boudreault et al. such that the DRM system would include

b. a password module, the password module entering a master password which provides access to the encrypted digital media for editing.

c. a customization module, the customization module customizing user access panel of the encrypted digital media.

One would have done so to enhance security of accessing encrypted content as well as to enhance user experience by allowing user-customized screens or displays if the user chooses so.

REFERENCE OF RELATED ART

The prior art made of record and relied upon is considered pertinent to applicant's disclosure.

Bradbury et al. PG pub 20100100899 – Accessing Content

Lee et al. PG Pub 20050065891 – Method of Granting DRM License to Support plural devices

Boudreault et al. US Patent 7254235 – Receiving mixed-media data

Sovio et al. US Patent 7343014 – Method for Sharing the Authorization to Use Specific Resources

Holtzman et al. PG Pub 20080010685 – Content Control Method Using Versatile Control Structure

Scott Levine PG Pub 20090083541 – Method and Apparatus for Distributing Digital Content

Chris Wimmer US Patent 7526650 – Personal Identification for Protecting Video Content

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 8:00 - 4:00 EST.

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.

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/TRI TRAN/
Examiner, Art Unit 2494

/Jung Kim/
Supervisory Patent Examiner, Art Unit 2494

Notice of References Cited	Application/Control No. 13/397,517	Applicant(s)/Patent Under Reexamination GRECIA, WILLIAM	
	Examiner TRI TRAN	Art Unit 2494	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
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*	B	US-2005/0065891	03-2005	Lee et al.	705/059
*	C	US-7,254,235	08-2007	Boudreault et al.	380/239
*	D	US-7,343,014	03-2008	Sovio et al.	380/278
*	E	US-2008/0010685	01-2008	Holtzman et al.	726/27
*	F	US-2009/0083541	03-2009	Levine, Scott	713/165
*	G	US-7,526,650	04-2009	Wimmer, Chris	713/176
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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	2431
Examiner Name	
Attorney Docket Number	B7-1

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/T.T./	1	20110265157		2011-10-27	Scott Ryder	All disclosure and claims
/T.T./	2	20110145896		2011-10-27	Richard Berger	All disclosure and claims

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Receipt date: 03/20/2012	Application Number	13397517 13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Filing Date	2012-02-15
	First Named Inventor	William Grecia
	Art Unit	2431
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	First Named Inventor	William Grecia	
	Art Unit	2431	
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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-03-20
Name/Print	William Grecia	Registration Number	

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Application Number	13397517
Filing Date	2012-02-15
First Named Inventor	William Grecia
Art Unit	~~2431~~ 2494
Examiner Name	Tri Tran
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/T.T./	1	20070266095	A1	2007-11-15	Billsus et al.	
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Receipt date: 03/12/2012	Application Number	13397517 13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Filing Date	2012-02-15
	First Named Inventor	William Grecia
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/T.T./	1	Simon L. Garfinkel, "Email-Based Identification and Authentication: An Alternative to PKI?", IEEE Security & Privacy, http://computer.org/security/, published November 2003, pages 20-26.	☐

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Receipt date: 03/12/2012	Application Number	13397517 13397517 - GAU: 2494
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	First Named Inventor	William Grecia
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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-03-12
Name/Print	William Grecia	Registration Number	

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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	~~2431~~ 2494
Examiner Name	Tri Tran
Attorney Docket Number	

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/T.T./	1	20070010334		2007-01-11	Multerer; Boyd C	
/T.T./	2	20060036554		2006-02-16	Schrock; Christian E.	

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Receipt date: 03/09/2012	Application Number	13397517 13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Filing Date	2012-02-15
	First Named Inventor	William Grecia
	Art Unit	~~2431~~ 2494
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/T.T./	1	Video Interview - Title: Mitch Singer, Sony Pictures - Publication Source: Youtube.com [URL: http://youtu.be/nqlSakADFII] - (INTERNET PUBLICATION 6-24-2008) NOTE: ATTACHED URL FOR MEDIA NPL REFERENCE.	☐
/T.T./	2	Video Interview - Title: Jeff Bewkes and Brian Roberts discuss the TV Everywhere model and upcoming trial on Comcast - Publication Source: Youtube.com [URL: http://youtu.be/q8Rt9idJV9I] - (INTERNET PUBLICATION 6-25-2009) NOTE: ATTACHED URL FOR MEDIA NPL REFERENCE.	☐

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	First Named Inventor	William Grecia
	Art Unit	2431
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Signature		Date (YYYY-MM-DD)	
Name/Print		Registration Number	

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	13397517
Filing Date	2012-02-15
First Named Inventor	William Grecia
Art Unit	~~2431~~ 2494
Examiner Name	Tri Tran
Attorney Docket Number	

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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	2431
	Examiner Name	
	Attorney Docket Number	

/T.T./	1	AUTHOR: William Grecia (patent applicant) - Publication Source: AMAZON WEB SERVICES Products and Solutions Catalog - TITLE: STR3EM Digital Distribution System (Ultraviolet - Keychest) - INTERNET PUBLICATION: http://aws.amazon.com/customerapps/2621 [Publication date: June 22, 2009]	☐
/T.T./	2	AUTHOR: NICHOLAS DELEON - Publication Source: TechCrunch - TITLE: Movie studios launch Epix: 720p streaming video for free - INTERNET PUBLICATION: http://techcrunch.com/2009/06/08/movie-studios-launch-epix-720p-streaming-video-for-free/ [Publication date: June 8, 2009]	☐
/T.T./	3	AUTHOR: MATT BURNS - Publication Source: TechCrunch - TITLE: TV Everywhere is Comcast and Time Warner's answer to free Internet video - INTERNET PUBLICATION: http://techcrunch.com/2009/06/24/tv-everywhere-is-comcast-and-time-warners-answer-to-free-internet-video/ [Publication date: June 24, 2009]	☐

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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-03-06
Name/Print	William Grecia	Registration Number	

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Receipt date: 03/05/2012 13397517 - GAU: 2494

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Application Number	13397517
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/T.T./	1	20030018491	A1	2003-01-23	Nakahara	

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/T.T./	1	2007-183935	JP	A	2007-07-19	SAMSUNG ELECTRONICS CO LTD		☐
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/T.T./	4	10-0708203	KR	B1	2007-04-16	SAMSUNG ELECTRONICS CO LTD		☐
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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-03-05
Name/Print	William Grecia	Registration Number	

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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	~~2431~~ 2494
Examiner Name	Tri Tran
Attorney Docket Number	

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/T.T./	1	7634734	B2	2009-12-15	Fuller et al.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
/T.T./	1	2008/111052	WO	A2	2008-09-18	GHOST, Inc.		☐

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Receipt date: 03/05/2012	Application Number	13397517	13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Filing Date	2012-02-15	
	First Named Inventor	William Grecia	
	Art Unit	2431	
	Examiner Name		
	Attorney Docket Number		

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Examiner Signature	/Tri Tran/ (05/07/2012)	Date Considered	05/07/2012

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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-03-05
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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	B7-1

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/T.T./	1	20120066052		2012-03-15	Robert; Arnaud	All disclosure

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Receipt date: 05/09/2012	Application Number	13397517 13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Filing Date	2012-02-15
	First Named Inventor	William Grecia
	Art Unit	2494
	Examiner Name	TRAN, TRI MINH
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(Not for submission under 37 CFR 1.99)

Application Number	13397517
Filing Date	
First Named Inventor	William Grecia
Art Unit	2494
Examiner Name	Tri Tran
Attorney Docket Number	

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Receipt date: 02/24/2012	Application Number	13397517 13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date	
	First Named Inventor	William Grecia
	Art Unit	~~2432~~ 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)	☐
/T.T./	2	Author - Mitch Singer - Developing the Digital Market - Publication Source: TechCrunch.com [URL: http://tctechcrunch.files.wordpress.com/2008/08/singer.pdf] - (INTERNET PUBLICATION 8-26-2008)	☐

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/T.T./	1	7610630		2009-10-27	Ming Ji	
/T.T./	2	7689823		2010-03-30	Sheng Mei Shen	
/T.T./	3	7702592		2010-04-20	James H. Taylor	
/T.T./	4	7515710		2009-04-07	Eric W. Grab	

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Application Number	13397517
Filing Date	
First Named Inventor	William Grecia
Art Unit	~~2431~~ 2494
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/T.T./	1	6799165		2008-09-28	Boesjes; Eimar M	
/T.T./	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	
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/T.T./	1	Author - PRESTON GRALLA - Digital River Launches DRM Solution For Software Publishers - Publication Source: informationweek.com [URL: http://www.informationweek.com/news/18901739] - (INTERNET PUBLICATION DATE: 04-15-2004)	☐
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	First Named Inventor	William Grecia
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/T.T./	3	7343014		2008-03-11	Sovio; Sampo	
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/T.T./	5	7571328		2008-08-04	Baumert; David W	
/T.T./	6	7624417		2008-11-24	Dua; Robin	

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	First Named Inventor	William Grecia	
	Art Unit	~~2431~~ 2494	
	Examiner Name	Tri Tran	
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/T.T./	1	20020010759		2002-01-24	Hitson; Bruce L	
/T.T./	2	20020157002		2002-10-24	Messerges; Thomas S.	
/T.T./	3	20030220880		2003-11-27	Lao; Guillermo	
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	First Named Inventor	William Grecia	
	Art Unit	~~2434~~ 2494	
	Examiner Name	Tri Tran	
	Attorney Docket Number		

/T.T./	12	20060259852		2006-11-16	Upendran; Manish	
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	First Named Inventor	William Grecia	
	Art Unit	~~243x~~ 2494	
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/T.T./	23	20090012805		2009-01-08	Schnell; Patrik	
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/T.T./	29	20090257591		2009-10-15	MITHAL; ASHISH K	
/T.T./	30	20090265278		2009-10-22	WANG; Xin	
/T.T./	31	20090299963		2009-12-03	Pippuri; Sami	
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/T.T./	34	20090328228		2009-12-31	Schnell, Patrik	

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/T.T./	3	Author - FACEBOOK CORPORATION - Graph API documentation - Publication Source: facebook.com [URL: http://developers.facebook.com/docs/api] - (INTERNET PUBLICATION UPDATE: 04-21-2010)	☐
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/T.T./	6	Author - ETHAN SMITH - Disney Touts a Way to Ditch the DVD - Publication Source: Wall Street Journal Online [URL: http://online.wsj.com/article/NA_WSJ_PUB:SB10001424052748703816204574485650026945222.html] - (INTERNET PUBLICATION DATE: 09-21-2009)	☐
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/T.T./		US-20030051149	03-13-2003	Robert, Arnaud	
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EDWARDS-003026

Receipt date: 02/24/2012	Application Number	13397517	13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date		
	First Named Inventor	William Grecia	
	Art Unit	~~2431~~ 2494	
	Examiner Name	Tri Tran	
	Attorney Docket Number		

/T.T./	1	Author - APPLE CORPORATION - iTunes application copyright - Publication Source: apple.com [URL: www.apple.com/itunes] - (COPYRIGHT PUBLICATION DATE: 01-09-2001)	☐
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Receipt date: 02/24/2012 13397517 - GAU: 2494

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

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	Filing Date	
	First Named Inventor	William Grecia
	Art Unit	~~2431~~ x 2494
	Examiner Name	Tri Tran
	Attorney Docket Number	

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Receipt date: 02/24/2012	Application Number	13397517 13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date	
	First Named Inventor	William Grecia
	Art Unit	~~243X~~ x 2494
	Examiner Name	Tri Tran
	Attorney Docket Number	

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/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)	☐
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/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)	☐
/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)	☐

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Sheet 1 of 1

Complete if Known	
Application Number	13397517
Filing Date	
First Named Inventor	William Grecia
Art Unit	2494
Examiner Name	~~Unknown~~ Tri Tran
Attorney Docket Number	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	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- 6611812	08-26-2003	Hurtado; Marco M.	
/T.T./		US- 7568111	07-28-2009	Aive, Jukka	
/T.T./		US- 20090164776	06-25-2009	Tuoriniemi; Samuli	
/T.T./		US- 20080209576	08-28-2008	Noening; 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; Kozo	
/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; Arnaud	

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Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]

Examiner Signature	/Tri Tran/ (05/07/2012)	Date Considered	05/07/2012

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Receipt date: 02/24/2012	Application Number	13397517 13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date	
	First Named Inventor	Grecia, William
	Art Unit	~~2432~~ 2494
	Examiner Name	Tri Tran
	Attorney Docket Number	

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Signature	/william grecia/	Date (YYYY-MM-DD)	2/24/2012
Name/Print	William Grecia	Registration Number	70984

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13397517	GRECIA, WILLIAM
	Examiner	Art Unit
	TRI TRAN	2494

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	05/07/2012								
	1	✓								
	2	✓								
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	4	✓								
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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 ("20090327702") or ("20090328228")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/07 13:55
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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 (authenticat$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 (authenticat$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 (authenticat$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 (authenticat$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; IBM_TDB	OR	OFF	2012/05/08 10:05
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 (authenticat$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 (authenticat$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 (authenticat$3 with (token mac device adj (identification id)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2012/05/08 10:53

			DERWENT; IBM_TDB			
S24	33	S21 and (authenticat$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 near3 (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 interoperable interoperability inter adj operable inter adj operability))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/08 13:25
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	US-PGPUB; USPAT	OR	OFF	2012/05/08 15:27

		("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.				
S31	41	S30 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 15:27
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;	OR	OFF	2012/05/08 16:46

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
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; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:25
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; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 10:54
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 ajd 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;	OR	OFF	2012/05/09 10:59

			DERWENT; IBM_TDB			
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 (media content)) same (key fob token smart adj card)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 11:08
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 diffferent) 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 diffferent) 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	US-PGPUB; USPAT; USOCR;	OR	OFF	2012/05/09 12:42

		digital adj right$1 media adj content encrypted adj media)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S60	0	S59 and (authenticat$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
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	US-PGPUB;	OR	OFF	2012/05/09

		card fob)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			13:03
S69	0	((web near3 account) same ((two adj way) exchange) with authenticat$3) 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 17:11
S70	8731	((web near3 account) same (((two adj way) exchange) with authenticat$3) key ajd 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;	OR	OFF	2012/05/09 18:26

			IBM_TDB			
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; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/09 22:27
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;	OR	OFF	2012/05/13 20:20

			EPO; JPO; DERWENT; IBM_TDB			
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; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 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;	OR	OFF	2012/05/13 21:23

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S95	3	S94 not S92	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/05/13 21:23
S96	2	"20100100899"	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

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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	~~2431~~ x 2494
Examiner Name	Tri Tran
Attorney Docket Number	B7-1

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Receipt date: 03/27/2012	Application Number	13397517 13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Filing Date	2012-02-15
	First Named Inventor	William Grecia
	Art Unit	2431
	Examiner Name	
	Attorney Docket Number	B7-1

/T.T./	1	AUTHOR: BRIAN FOX - TITLE: DECE UltraViolet Response To STR3EM Licensing Offer - INTERNET PUBLICATION: http://www.docstoc.com/docs/100643534/DECE-Note? [Publication date: October 25, 2011]	☐

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Receipt date: 03/27/2012

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First Named Inventor	William Grecia
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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-03-27
Name/Print	William Grecia	Registration Number	

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EWS-d03050

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13397517	GRECIA, WILLIAM
	Examiner	Art Unit
	TRI TRAN	2494

SEARCHED

Class	Subclass	Date	Examiner
726	1-21,26-33	5/7/12	TT
	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

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

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CONFIRMATION NO. 6106

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
13/397,517	02/15/2012	726	2494	B7-1

APPLICANTS
William Grecia, Grandville, MI;

**** CONTINUING DATA ***************************
This application is a CON of 12/985,351 01/06/2011
which is a CON of 12/728,218 03/21/2010 ABN

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **
02/29/2012

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /TRI MINH TRAN/ Examiner's Signature	☐ Met after Allowance TT Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		MI	7	30	4

ADDRESS

The STR3EM Team
2885 Sanford Ave SW #13208
Grandville, MI 49418
UNITED STATES

TITLE

PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)

FILING FEE RECEIVED		
1255	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

Receipt date: 04/27/2012 13397517 - GAU: 2494

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

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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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
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	Examiner Name	KIM, JUNG W
	Attorney Docket Number	B7-1

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	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[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/T.T./	1	20120036041		2012-02-09	Hesselink; Lambertus	

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EWS-003054

Receipt date: 04/27/2012	Application Number	13397517	13397517 - GAU: 2494
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Filing Date	2012-02-15	
	First Named Inventor	William Grecia	
	Art Unit	2494	
	Examiner Name	KIM, JUNG W	
	Attorney Docket Number	B7-1	

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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-04-27
Name/Print	William Grecia	Registration Number	

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First Named Inventor	William Grecia
Art Unit	2494
Examiner Name	TRAN, TRI MINH
Attorney Docket Number	B7-1

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	1	20120030291		2012-02-02	SILVER; Kenneth	
	2	20120124612		2012-05-17	ADIMATYAM; Venkata	
	3	20120124613		2012-05-17	REDDY; Sachinder	
	4	20120124611		2012-05-17	Shintani; Peter	
	5	20120124614		2012-05-17	Shintani; Peter	

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	6	20120124610		2012-05-17	Shintani; Peter	
	7	20120124678		2012-05-17	Shintani; Peter	

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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-05-21
Name/Print	William Grecia	Registration Number	

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Electronic Acknowledgement Receipt

EFS ID:	12821015
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	21-MAY-2012
Filing Date:	15-FEB-2012
Time Stamp:	10:59:26
Application Type:	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	Information Disclosure Statement (IDS) Form (SB08)	sony_IDS.pdf	612409 358f93d7e20bb5ff25e78b743c1609a9c653d582	no	4

Warnings:	
Information:	

Total Files Size (in bytes):	612409

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New Applications Under 35 U.S.C. 111

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PTO/SB/08a (01-10)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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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	B7-1

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20120066052		2012-03-15	Robert; Arnaud	All disclosure

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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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[5]

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	B7-1

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Examiner Signature		Date Considered	

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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(Not for submission under 37 CFR 1.99)

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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	B7-1

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)	2012-05-09
Name/Print	William Grecia	Registration Number	

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 record s.

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).

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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

EFS ID:	12743710
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	09-MAY-2012
Filing Date:	15-FEB-2012
Time Stamp:	20:41:46
Application Type:	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	Information Disclosure Statement (IDS) Form (SB08)	disney_IDS.pdf	612322 d1e8757167833ae1fbe2d38ad00eb824baf9785a	no	4

Warnings:	
Information:	

Total Files Size (in bytes):	612322

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PTO/SB/08a (01-10)
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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	KIM, JUNG W
Attorney Docket Number	B7-1

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20120036041		2012-02-09	Hesselink; Lambertus	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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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[5]

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	KIM, JUNG W
	Attorney Docket Number	B7-1

	1		☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	First Named Inventor	William Grecia
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☐ 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)	2012-04-27
Name/Print	William Grecia	Registration Number	

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Electronic Acknowledgement Receipt

EFS ID:	12652740
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	27-APR-2012
Filing Date:	15-FEB-2012
Time Stamp:	17:10:49
Application Type:	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	Information Disclosure Statement (IDS) Form (SB08)	wd_IDS.pdf	612330 3344a32941194bfee6bd05897fa731e64054442d	no	4

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www.uspto.gov

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 04/18/2012

The STR3EM Team
2885 Sanford Ave SW #13208
Grandville, MI 49418

EXAMINER	
VU, KIM Y	

ART UNIT	PAPER NUMBER
2435	

NOTIFICATION DATE	DELIVERY MODE
04/18/2012	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

Doc Code: TRACK1.GRANT

Decision Granting Request for Prioritized Examination (Track I or After RCE)	Application No.:13/397517

1. THE REQUEST FILED 02/15/12 IS **GRANTED.**

The above-identified application has met the requirements for prioritized examination

A. ☒ for an original nonprovisional application (Track I).

B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination.** The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:

A. filing a **petition for extension of time** to extend the time period for filing a reply;

B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims**, or a multiple dependent claim;

C. filing a **request for continued examination**;

D. filing a notice of appeal;

E. filing a request for suspension of action;

F. mailing of a notice of allowance;

G. mailing of a final Office action;

H. completion of examination as defined in 37 CFR 41.102; or

I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to Tod Swann at 571-272-3612. In his absence, calls may be directed to Kim Vu, 571-272-3859.

/Tod Swann/
[*Signature*]

MQAS
(Title)

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
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.

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	2431
Examiner Name	
Attorney Docket Number	B7-1

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	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[1]	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 Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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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[5]

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	2431
	Examiner Name	
	Attorney Docket Number	B7-1

	1	AUTHOR: BRIAN FOX - TITLE: DECE UltraViolet Response To STR3EM Licensing Offer - INTERNET PUBLICATION: http://www.docstoc.com/docs/100643534/DECE-Note? [Publication date: October 25, 2011]	☐

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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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] 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	2431
Examiner Name	
Attorney Docket Number	B7-1

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)	2012-03-27
Name/Print	William Grecia	Registration Number	

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

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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 record s.

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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)).

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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

EFS ID:	12397751
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	27-MAR-2012
Filing Date:	15-FEB-2012
Time Stamp:	08:07:18
Application Type:	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	Information Disclosure Statement (IDS) Form (SB08)	dece2str3em_IDS.pdf	612412 27607867c9c46bb189842753efdf13e8f17b7271	no	4

Warnings:	
Information:	

A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.

2	Non Patent Literature	dece2STR3EM.pdf	119634 34e06203eb2d8b9e08fc6ebbc76956015910bea1	no	2

Warnings:

Information:

Total Files Size (in bytes):	732046

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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

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PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
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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	2431
Examiner Name	
Attorney Docket Number	B7-1

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	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[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20110265157		2011-10-27	Scott Ryder	All disclosure and claims
	2	20110145896		2011-10-27	Richard Berger	All disclosure and claims

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

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	2431
	Examiner Name	
	Attorney Docket Number	B7-1

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[5]
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Examiner Signature		Date Considered	

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Filing Date	2012-02-15
First Named Inventor	William Grecia
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Examiner Name	
Attorney Docket Number	B7-1

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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-03-20
Name/Print	William Grecia	Registration Number	

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Electronic Acknowledgement Receipt

EFS ID:	12351362
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	20-MAR-2012
Filing Date:	15-FEB-2012
Time Stamp:	18:23:17
Application Type:	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	Information Disclosure Statement (IDS) Form (SB08)	sony_apple_IDS.pdf	612285 fc17d6d391d63e70e619679b96ae2e3d463b2bd8	no	4

Warnings:	
Information:	

Total Files Size (in bytes):	612285

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New Applications Under 35 U.S.C. 111

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Application Number	13397517
Filing Date	2012-02-15
First Named Inventor	William Grecia
Art Unit	2431
Examiner Name	
Attorney Docket Number	

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7266839	82	2007-09-04	Bowers et al.	
	2	7567987	82	2009-07-28	Shappell et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20070266095	A1	2007-11-15	Billsus et al.	
	2	20090100060	A1	2009-04-16	Livnat et al.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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	First Named Inventor	William Grecia
	Art Unit	2431
	Examiner Name	
	Attorney Docket Number	

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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[5]
	1	Simon L. Garfinkel, "Email-Based Identification and Authentication: An Alternative to PKI?", IEEE Security & Privacy, http://computer.org/security/, published November 2003, pages 20-26.	☐
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Examiner Signature		Date Considered	

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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-03-12
Name/Print	William Grecia	Registration Number	

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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

EFS ID:	12286414
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	12-MAR-2012
Filing Date:	15-FEB-2012
Time Stamp:	21:25:57
Application Type:	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	Information Disclosure Statement (IDS) Form (SB08)	appleicloud_IDS.pdf	612523 3dba02c554f4764e2186dd00cf865e997fbdbb27	no	4

Warnings:	
Information:	

2	Non Patent Literature	IEEE.pdf	266225 3ac62be599b7f355e7e6912b8a7ca492cf105a23	no	7

Warnings:	
Information:	
Total Files Size (in bytes):	878748

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

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 13/397,517

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	95		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	310		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	125		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	30 minus 20 =	* 10	x 30 =	300	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4 minus 3 =	* 1	x 125 =	125			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 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).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	955		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/397,517	02/15/2012	2431	1255	B7-1	30	4

CONFIRMATION NO. 6106

70984
The STR3EM Team
2885 Sanford Ave SW #13208
Grandville, MI 49418

FILING RECEIPT

OC000000052854935

Date Mailed: 03/09/2012

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. 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, Grandville, MI;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 12/985,351 01/06/2011
which is a CON of 12/728,218 03/21/2010 ABN

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.)

If Required, Foreign Filing License Granted: 02/29/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/397,517**

Projected Publication Date: 06/14/2012

Non-Publication Request: No

Early Publication Request: No
** **SMALL ENTITY** **

Title

PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)

Preliminary Class

726

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.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

Title 37, Code of Federal Regulations, 5.11 & 5.15

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PTO/SB/08a (01-10)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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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	2431
Examiner Name	
Attorney Docket Number	

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20070010334		2007-01-11	Multerer; Boyd C	
	2	20060036554		2006-02-16	Schrock; Christian E.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

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	2431
	Examiner Name	
	Attorney Docket Number	

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[5]
	1	Video Interview - Title: Mitch Singer, Sony Pictures - Publication Source: Youtube.com [URL: http://youtu.be/ nqlSakADFII] - (INTERNET PUBLICATION 6-24-2008) NOTE: ATTACHED URL FOR MEDIA NPL REFERENCE.	☐
	2	Video Interview - Title: Jeff Bewkes and Brian Roberts discuss the TV Everywhere model and upcoming trial on Comcast - Publication Source: Youtube.com [URL: http://youtu.be/q8Rt9idJV9I] - (INTERNET PUBLICATION 6-25-2009) NOTE: ATTACHED URL FOR MEDIA NPL REFERENCE.	☐

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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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] 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	2431
	Examiner Name	
	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		Date (YYYY-MM-DD)	
Name/Print		Registration Number	

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 information provided by you in this form will be subject to the following routine uses:

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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.

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Electronic Acknowledgement Receipt

EFS ID:	12274161
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	09-MAR-2012
Filing Date:	15-FEB-2012
Time Stamp:	22:14:06
Application Type:	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	Information Disclosure Statement (IDS) Form (SB08)	updated_IDS2.pdf	612529 f45c741fceacc8e2d8ecb12140aa1b4597476a28	no	4

Warnings:	
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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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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	2431
Examiner Name	
Attorney Docket Number	

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	1							☐

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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	2431
	Examiner Name	
	Attorney Docket Number	

	1	AUTHOR: William Grecia (patent applicant) - Publication Source: AMAZON WEB SERVICES Products and Solutions Catalog - TITLE: STR3EM Digital Distribution System (Ultraviolet - Keychest) - INTERNET PUBLICATION: http://aws.amazon.com/customerapps/2621 [Publication date: June 22, 2009]	☐
	2	AUTHOR: NICHOLAS DELEON - Publication Source: TechCrunch - TITLE: Movie studios launch Epix: 720p streaming video for free - INTERNET PUBLICATION: http://techcrunch.com/2009/06/08/movie-studios-launch-epix-720p-streaming-video-for-free/ [Publication date: June 8, 2009]	☐
	3	AUTHOR: MATT BURNS - Publication Source: TechCrunch - TITLE: TV Everywhere is Comcast and Time Warner's answer to free Internet video - INTERNET PUBLICATION: http://techcrunch.com/2009/06/24/tv-everywhere-is-comcast-and-time-warners-answer-to-free-internet-video/ [Publication date: June 24, 2009]	☐

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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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] 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	2431
Examiner Name	
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)	2012-03-06
Name/Print	William Grecia	Registration Number	

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.

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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

EFS ID:	12230987
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	06-MAR-2012
Filing Date:	15-FEB-2012
Time Stamp:	10:49:46
Application Type:	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	Information Disclosure Statement (IDS) Form (SB08)	TVeverywhere_IDS.pdf	612713 2913b3a492929c17501b1c201c38c3113ce78ec2	no	4

Warnings:	
Information:	

A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.

2	Non Patent Literature	techcrunch1p.pdf	411943 f660b5f7eb54054ebf874f55538c4602a9763bd3	no	4
Warnings:					
Information:					
3	Non Patent Literature	aws1p.pdf	440023 2e8b1eb2fdef1791c2c6775379f0d9e05435b734	no	3
Warnings:					
Information:					
4	Non Patent Literature	epixp5.pdf	482688 66296782e4f6806d1418adbb9c5974efe9befdb1	no	3
Warnings:					
Information:					
		Total Files Size (in bytes):	1947367		

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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.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 13/397,517

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	95		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	310		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	125		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	30 minus 20 =	* 10	x 30 =	300	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4 minus 3 =	* 1	x 125 =	125			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 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).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	955		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/397,517	02/15/2012	2431	1255	B7-1	30	4

CONFIRMATION NO. 6106

70984
The STR3EM Team
2885 Sanford Ave SW #13208
Grandville, MI 49418

FILING RECEIPT

OC000000052854935

Date Mailed: 03/05/2012

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. 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, Grandville, MI;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 12/985,351 01/06/2011
which is a CON of 12/728,218 03/21/2010 ABN

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.)

If Required, Foreign Filing License Granted: 02/29/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/397,517**

Projected Publication Date: Perfected

Non-Publication Request: No

Early Publication Request: No
** **SMALL ENTITY** **

Title

PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)

Preliminary Class

726

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.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).

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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PTO/SB/08a (01-10)
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(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	

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7634734	B2	2009-12-15	Fuller et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	2008/111052	WO	A2	2008-09-18	GHOST, Inc.		☐

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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[5]

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	Application Number	13397517
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	Art Unit	2431
	Examiner Name	
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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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Signature	/william grecia/	Date (YYYY-MM-DD)	2012-03-05
Name/Print	William Grecia	Registration Number	

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Electronic Acknowledgement Receipt

EFS ID:	12219163
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
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Attorney Docket Number:	B7-1
Receipt Date:	05-MAR-2012
Filing Date:	15-FEB-2012
Time Stamp:	02:38:00
Application Type:	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	Non Patent Literature	IDS_ghost.pdf	1624600 540e579808421e604dee5dc5aa2f8082a3c12697	no	40

Warnings:	
Information:	

2	Information Disclosure Statement (IDS) Form (SB08)	March_5_IDS.pdf	612357 69159d32b1cc8b310ed1f78d83d57dd72944c7a0	no	4

Warnings:	
Information:	
Total Files Size (in bytes):	2236957

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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
18 September 2008 (18.09.2008)

PCT

(10) International Publication Number
WO 2008/111052 A2

(51) International Patent Classification:
G06F 17/30 (2006.01)

(21) International Application Number:
PCT/IL2008/000321

(22) International Filing Date: 9 March 2008 (09.03.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/893,968 9 March 2007 (09.03.2007) US

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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: A VIRTUAL FILE SYSTEM FOR THE WEB

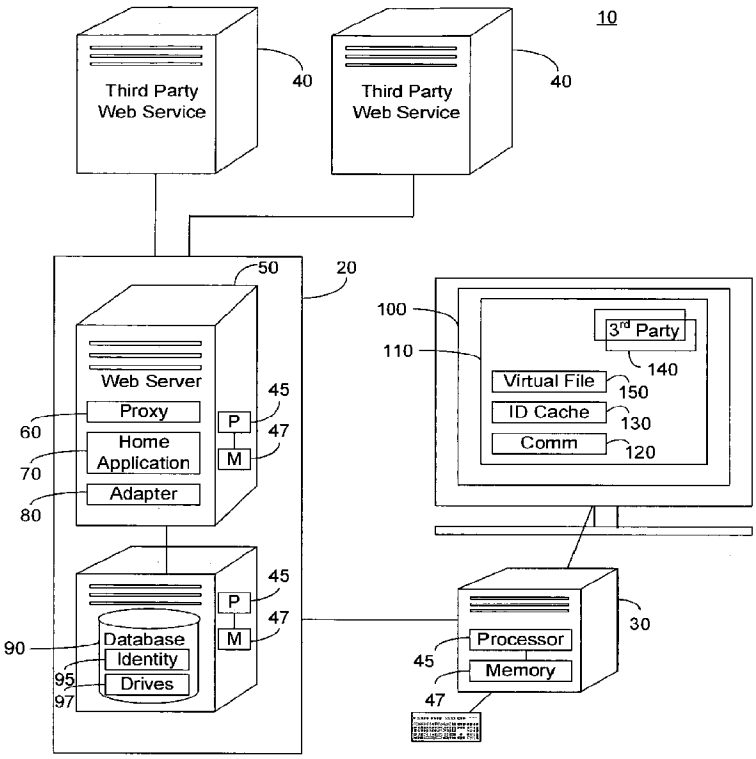

Fig. 1

(57) Abstract: Uniform access to files across multiple Web services, each of which hosts files and optionally folders but which have different paradigms, different user accounts, and different APIs is provided. In one embodiment the uniform representation is responsive to a uniform API; and an adapter functionality arranged to adapt commands of the uniform API to the respective particular API of the respective third party Web based services which do not support the uniform API.

WO 2008/111052 A2

FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *without international search report and to be republished upon receipt of that report*

A VIRTUAL FILE SYSTEM FOR THE WEB

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority from U.S. Provisional Patent Application S/N 60,893,968 filed March 9, 2007, entitled "Virtual Hosted Operating System" the entire contents of which is incorporated herein by reference.

[0002] This application is further related to the following co-pending, co-filed and co-assigned patent applications, the entire contents of each of which are incorporated herein in their entirety by reference: "A VIRTUAL IDENTITY SYSTEM AND METHOD FOR WEB SERVICE", docket GHO-005-PCT; "A GENERAL OBJECT GRAPH FOR WEB USERS", docket GHO-007-PCT; "SYSTEM AND METHOD FOR BROWSER WITHIN A WEB SITE AND PROXY SERVER" docket GHO-008-PCT; and "SYSTEM AND METHOD FOR A VIRTUAL HOSTED OPERATING SYSTEM" docket GHO-009-PCT.

BACKGROUND OF THE INVENTION

[0003] The field relates to computer software and Web services and more particularly to managing file systems from multiple Web services.

[0004] Recently there has been a proliferation of Web-based services which are accessed using a browser. Many of the Web based services provide file storage in a proprietary manner for files of the service. For example, certain Web-based service provide on line Web based storage for pictures, others provide on line Web based storage for files, while yet others provide on line storage for e-mail correspondence.

[0005] Unfortunately, management of these disparate systems is not unified. For example, for a user that has pictures stored on one Web-based service, and files stored on another service, who wishes to combine them into a single document or presentation, is faced with the process of accessing each individual service, finding the file of interest or picture, and copying it into the document. Such a process is cumbersome, and far from intuitive.

[0006] Access to each third party Web service provider typically requires a logon, and furthermore each third party Web service provider typically has its own proprietary application programming interface (API) which is used for automated access.

[0007] What is needed, and not provided by the prior art, is a common system and method for accessing files across multiple Web-based services.

SUMMARY OF THE INVENTION

[0008] Certain embodiments of the invention take multiple Web services, each of which hosts files and optionally folders but which have different paradigms, different user accounts, and different APIs, and provides a virtual file system layer to allow uniform access.

[0009] In certain embodiments the invention provides for a computer implemented virtual file system comprising a uniform representation of a plurality of file systems hosted by respective different third party Web based services.

[00010] In one further embodiment, the uniform representation comprises: a uniform application programming interface (API); and an adapter functionality arranged to adapt respective third party Web based services which do not support the uniform API to the uniform API. In another further embodiment in the event that the particular API of one of the respective third party Web based services does note support HTTP methods other than GET and POST, at least one other command is implemented by using one of GET and POST with a parameter.

[00011] In one further embodiment the uniform API uses a single tree of URLs at the same domain for the plurality of file systems which have distinct domains. In another further embodiment the computer implemented virtual file system further comprises a search capability operative across the plurality of file systems.

[00012] In one further embodiment each of the plurality of file systems is displayed as a virtual drive. In one yet further embodiment each of the plurality of file systems exhibits metadata specifying its location and capabilities.

[00013] In one further embodiment the computer implemented virtual file system further comprises a client code arranged to navigate the virtual file system. In one yet further embodiment the client code is implemented as an interactive web page. In one yet further embodiment the client code is operative to add a file system responsive to a Universal Record Locator. In another yet further embodiment the Universal Record Locator represents an address of one of a metadata for the file system and an application programming interface for the file system.

[00014] In one further embodiment the file system is further operative to enable a user to add tags from one master list of tags to files from each of the plurality of file systems. In another further embodiment the file system is further operative to enable users to share files via the uniform representation. In one yet further embodiment the computer implemented virtual file system further comprises a repository of identity information for users, wherein the file sharing is controlled by the respective third party Web based service hosting the file to be shared, and wherein the virtual file system is further operative to mark the file to be shared as

shared by accessing the respective third party Web based service utilizing identity information from the repository. In another yet further embodiment the computer implemented virtual file system further comprises a repository of identity information for users, wherein the virtual file system is operative to retrieve the file to be shared by a second user by accessing the respective third party Web based service utilizing identity information of the owner of the file from the repository.

[00015] In one even further embodiment the identity repository is coupled to a single sign on functionality. In another even further embodiment the single sign functionality supports multiple protocols, and preferably one of the protocols is digest access authentication.

[00016] In certain embodiments the invention independently provides for a computer implemented method of uniform representation of a plurality of file systems hosted by respective different third party Web based services, comprising: receiving commands to access a file hosted by one of the respective different third party Web based services; preparing the command utilizing a uniform application programming interface (API); adapting, in the event that the one of the respective different third party Web based services does not support the uniform API, to an API supported by the one of the respective different third party Web based services; and transmitting the prepared command in the supported API to the one of the respective different third party Web based services.

[00017] In one further embodiment in the event that the particular API of the one of the respective third party Web based service does note support HTTP methods other than GET and POST, the adapting comprises using one of GET and POST with a parameter. In another further embodiment the uniform API uses a single tree of URLs at the same domain for the plurality of file systems which have distinct domains.

[00018] In one further embodiment the computer implemented method according further comprises: enabling a search operative across the plurality of file systems. In another further embodiment each of the plurality of file systems is displayed as a virtual drive.

[00019] In one further embodiment each of the plurality of file systems exhibits metadata specifying its location and capabilities. In another further embodiment the computer implemented method further comprises: providing a client code arranged to navigate the virtual file system.

[00020] In one yet further embodiment the client code is implemented as an interactive web page. In another yet further embodiment the client code is operative to add a file system responsive to a Universal Record Locator, and preferably the Universal Record Locator

represents an address of one of a metadata for the file system and an application programming interface for the file system.

[00021] In one further embodiment the computer implemented method further comprises: enabling a user to add tags from one master list of tags to files from each of the plurality of file systems. In another further embodiment the computer implemented method further comprises: enabling users to share files via the uniform representation. In one yet further embodiment the enabling users to share files comprises: providing a repository of identity information for users; accessing the respective third party Web based service utilizing identity information from the repository; and marking the file to be shared.

[00022] In another yet further embodiment the enabling users to share files comprises: providing a repository of identity information for users; and retrieving the file to be shared by a second user by accessing the respective third party Web based service utilizing identity information of the owner of the file from the repository.

[00023] In one even further embodiment the identity repository is coupled to a single sign on functionality. In another even further embodiment the single sign functionality supports multiple protocols. Preferably, one of the protocols is digest access authentication.

[00024] Additional features and advantages of the invention will become apparent from the following drawings and description.

BRIEF DESCRIPTION OF THE DRAWINGS

[00025] For a better understanding of the invention and to show how the same may be carried into effect, reference will now be made, purely by way of example, to the accompanying drawings in which like numerals designate corresponding elements or sections throughout.

[00026] With specific reference now to the drawings in detail, it is stressed that the particulars shown are by way of example and for purposes of illustrative discussion of the preferred embodiments of the present invention only, and are presented in the cause of providing what is believed to be the most useful and readily understood description of the principles and conceptual aspects of the invention. In this regard, no attempt is made to show structural details of the invention in more detail than is necessary for a fundamental understanding of the invention, the description taken with the drawings making apparent to those skilled in the art how the several forms of the invention may be embodied in practice. In the accompanying drawings:

[00027] Fig. 1 illustrates a high level block diagram of a system architecture, according to certain embodiments of the invention, operable to provide uniform access to files from third party Web service providers;

[00028] Fig. 2 illustrates a home application with a third party Web based application embedded in an IFrame according to certain embodiments of the invention;

[00029] Figs. 3A and 3B, which together form a single figure, illustrate a UML class diagram for capturing a directory of third-party web services including their authentication schemes and for capturing a user's third-party login credentials, according to certain embodiments of the invention;

[00030] Fig. 4 illustrates a high level block diagram of virtual file system according to certain embodiments of the invention;

[00031] Fig. 5 illustrates a unified user interface for files from third party Web service providers according to certain embodiments of the invention;

[00032] Fig. 6 illustrates a user interface for adding a drive to the virtual file system according to certain embodiments of the invention;

[00033] Fig. 7 illustrates a high level flow chart of a method of sharing files using a third party infrastructure, in accordance with certain embodiments of the invention;

[00034] Fig. 8 illustrates a high level flow chart of a method of sharing files without using a third party infrastructure, in accordance with certain embodiments of the invention;

[00035] Fig. 9 illustrates a high level flow chart of a plurality of methods according to an embodiment of an invention to automatically generated a signed API call to a third party Web service provider; and

[00036] Fig. 10 illustrates a high level flow chart of a method of sharing files by embedding a third party client, in accordance with certain embodiments of the invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[00037] The present embodiments enable uniform access to files across multiple Web services, each of which hosts files and optionally folders but which have different paradigms, different user accounts, and different APIs.

[00038] Before explaining at least one embodiment of the invention in detail, it is to be understood that the invention is not limited in its application to the details of construction and the arrangement of the components set forth in the following description or illustrated in the

drawings. The invention is applicable to other embodiments or of being practiced or carried out in various ways. Also, it is to be understood that the phraseology and terminology employed herein is for the purpose of description and should not be regarded as limiting.

OVERALL ARCHITECTURE

[00039] Fig. 1 illustrates a high level block diagram of a system architecture 10, according to certain embodiments of the invention, operable to provide uniform access to files across multiple Web services. System architecture 10 comprises a system server 20, a user computer 30, and a plurality of third party Web based services 40. System server 20 comprises a Web server 50 exhibiting: an optional proxy functionality 60; a home application functionality 70; an adapter functionality 80; and a database 90. User computer 30 is shown running a client code 110 of the home application within a Web browser 100. Client code 110 further exhibits a communication module 120, and optional identity cache 130; one or more optional IFrames 140; and a virtual file system client 150. Each of Web server 50, database 90 and user computer 30 comprise a respective processor 45 and a memory 47 in communication with the respective processor 45. Database 90 comprises an identity repository 95 and a drives directory 97.

[00040] A single system server 20 is illustrated, however this is not meant to be limiting in any way. In another embodiment, a series of system servers 20 are provided. System server 20 hosts the server code of the home application in home application functionality 70, the server code of proxy functionality 60, the server code of adapter functionality 80 and the identity management system of the home application. Preferably, system server 20 further provides a full hosted virtual operating system via a virtual hosted operating system functionality, (not shown) and further described in in co-pending patent application "SYSTEM AND METHOD FOR A VIRTUAL HOSTED OPERATING SYSTEM" the entire contents of which is incorporated herein by reference. Each of proxy functionality 60, home application functionality 70 and adapter functionality 80, represent software code stored on memory 47 of Web server 50 and processed by processor 45 of Web server 50.

[00041] Two third party Web based services 40 are illustrated, however this is not meant to be limiting in any way, and three or more disparate third party Web based services 40 are specifically within the scope of the invention. In accordance with certain embodiments of the invention, third party Web based services 40, which offer on-line storage which may be accessed over the Internet, are preferably considered virtual drives. Thus, the term "drives" as

used throughout this document specifically includes third party Web accessible file storage services 40.

[00042] In operation, a user accesses the system from a computer 30, which is preferably remote from system server 20. Computer 30 runs a Web browser 100, shown displayed on a monitor of computer 30. There is no requirement that computer 30 be a fully functional computer, having various user accessible programs, other than Web browser 100. Computer 30 thus may be constituted of a personal computer, computer terminal, a thin-client computer, a personal computer, a mobile phone or a set-top box without exceeding the scope of the invention. In general computer 30 is a device allowing access to the Web, and providing for user input.

[00043] Client code 110 preferably runs within Web browser 100. Preferably, client code 110 is dynamically downloaded by Web browser 100 from system server 20. In one embodiment, client code 110 contains a sequence of static HTML pages generated at system server 20 using known technologies such as JSP or ASP. In another embodiment, client code 110 is constituted of code that executes within the Web browser 100 using one or more of: FLASH; Java Applet; Active-X; and DHTML+Javascript, known as AJAX.

[00044] The above has been described in an embodiment in which client code 110 is downloaded from system server 20 by Web browser 100, however this is not meant to be limiting in any way. In another embodiment, client code 110 is software installed on, or embedded within, computer 30 and does not run in a browser.

IDENTITY REPOSITORY

[00045] An optional identity management application preferably realized as a Web application helps the user to manage their repository of identity information. The identity information, input via the Web application is stored on database 90 in identity repository 95. In one embodiment database 90 is a relational database, available from Oracle Corporation of Redwood Shores, CA. In another embodiment database 90 is a third-party database service such as SimpleDB from Amazon Inc. of Seattle, WA. Home application functionality 70 comprises business logic running on web server 50. In one embodiment home application functionality 70 is constituted of one of a Java servlets or CGI scripts.

[00046] Database 90 is illustrated as a server in communication with Web server 50, however this is not meant to be limiting in any way. In another embodiment, database 90 is constituted of a database functionality provided on Web server 50. In operation, identity repository 95 maintains a user's information, including third-party usernames and passwords,

and optionally temporary session ID's as will be described further below. In one embodiment, identity repository 95 further maintains data on available third-party applications and on their SSO capabilities.

[00047] Client code 110 preferably comprises an identity cache 130 operative to store third party identity information including login information such as username and/or password and/or temporary sessionID. The contents of identity cache 130 are retrieved as required from database 90 and cached in volatile memory, preferably with standard encryption. Identity cache 130 optionally further stores the status of whether a third-party cookie is present in Web browser 100 which grants access to a third-party service.

COMMUNICATION

[00048] Client code 110 is further provided with communication module 120, which is operative to send requests to home application system server 20 and in particular to proxy functionality 60 and home application functionality 70. In one embodiment, the requests are sent from communication module 120 using standard Hypertext Transfer Protocol (HTTP) requests. In a further embodiment, the HTTP requests are consonant with the design principals of Representational State Transfer, known to those skilled in the art. In another embodiment the HTTP requests are encoded according to the XML-RPC remote call protocol. In yet another embodiment the HTTP requests are consonant with the SOAP protocol. In one embodiment communication module 120 performs authentication on outgoing API calls. In one further embodiment the authentication is Digest Access Authentication.

[00049] Web-based Distributed Authoring and Versioning, or WebDAV, is a set of extensions to HTTP which allows users to collaboratively edit and manage files on remote World Wide Web servers. Specifically, WebDAV is a standard set of APIs consistent with the principals of REST. In certain embodiments, WebDAV is implemented as the API or part of the API of a virtual file system of the subject invention.

PROXYING

[00050] In one embodiment, proxy functionality 60 is operative to forward requests from client code 110 to the appropriate third party Web based service 40, given that Web browser 100 will often act to prevent client code 110 from communicating with any domain other than the domain it was downloaded from. As indicated above, client code 110 is downloaded from web server 20, and thus client code 110 is restricted to communication with web server 20.

[00051] Such proxying is commercially available, e.g. as part of the Laszlo Presentation Server (LPS) from Laszlo Inc. (www.laszlosystems.com) of San Mateo, CA or the CGI-Proxy product from James Marshall of Berkeley, CA. (http://www.jmarshall.com/tools/cgiproxy/). In order to implement this, preferably client code 110 is operative to intercept at least the first request by the user to communicate with third party Web service provider 40, and route the request to proxy functionality 60, passing the target URL as a parameter. In a non-limiting example, instead of sending HTTP request: "GET thirdpartyservice.com" directly, client code 110 will send HTTP request "GET proxy.home-application.com?url=thirdpartyservice.com". Proxy functionality 60, which is not subject to the limitations which Web browser 100 places on client code 110, is operative to forward this request to its destination.

[00052] In one embodiment, proxy functionality 60 is further operative to perform additional services such as one or more of: attaching user's cookies to the forwarded request; and "proxifying" the response, in case it is a web page, so that any hyperlinks or other network calls in the returned web page are themselves adjusted to access the network via the proxy server.

[00053] In one embodiment, the proxy server is further operative to add authentication information to calls before forwarding them to the third-party. In one further embodiment the added authentication information is accomplished using the Digest Access Authentication protocol.

[00054] The above description is enabling for one skilled in the art. Additionally, operation of the proxy server is further described in co-pending patent application "SYSTEM AND METHOD FOR BROWSER WITHIN A WEB SITE AND PROXY SERVER", the entire contents of which is incorporated herein by reference.

ADAPTERS

[00055] Adapter functionality 80 is operative to present a standardized API in front of the proprietary APIs of the third party Web based services. Adapter functionality 80 represents software code run on Web server 50 by its processor 45 in cooperation with its memory 47, however this is not meant to be limiting in any way. In one embodiment, a third party Web service 40 may run adapter functionality 80 and thus support standard APIs. A single adapter functionality 80 is shown, however this is not meant to be limiting in any way, and the use of multiple adapters, each arranged to adapt the standards, is also possible. Adapter functionality 80 may also present drive metadata and participate in performing single sign-on

[00056] For example, at the time of the filing of this application, certain popular Web accessible file storage services such as Google Docs and Flickr do offer APIs but do not offer a standards based API such as WebDAV.

[00057] Thus, adapter functionality 80 is operative to provide a stanardized API recognized by home application 70 over the appropriate API of the third party Web based service. In one embodiment drives directory 97, to be described further below, maintains information regarding the appropriate API for use with each third party Web based service provider 40. In one further embodiment, the stored information comprises a call to the appropriate adapter functionality 80.

DRIVE METADATA

[00058] As indicated above, on line storage facilities of third party Web based services 40, are essentially virtual drives. In certain embodiments of the invention, uniform access to files across multiple Web based services 40 is achieved by treating each of the third party Web based services 40 as virtual drives which may be added to the uniform file system. Preferably every third party Web based service 40 provides some metadata about its own capabilities either natively or in the respective adapter functionality 90. In one embodiment, the capabilities are put in an XML file made available at a URL using a standard Web server. Thus, in order to add a virtual drive to a users virtual file system, a user who want to add a drive to the system need only specify the URL of the drive metadata file and client code 110 will read all parameters of the drive from that URL.

[00059] Fig. 6 illustrates a user interface 600 for adding a virtual drive to the virtual file system according to certain embodiments of the invention. User interface 600, a portion of virtual file system client 150, comprises file directory listing 610, a WebDAV dialog box 620 for mounting drives using a URL of a WebDAV server, and a drive dialog box 630 for adding drives from pre-configured service providers such as Google Docs. WebDAV dialog box 620 illustrates the selection by URL of the third party web based service 40, however in another embodiment a similar dialog enables the selection of a URL of a different standards based API (of a service or of its adapter) or of the metadata file which would then be used to find both the WebDAV URL and further data.

[00060] Advantageously, by placing metadata in an XML file on the Web, various search engines can find new drives. Such metadata may be supplied either by the third party Web based service provider 40 or by another party unrelated to third party Web based service provider 40. In particular, the virtual drive metadata file includes some or all of:

- Legal name of service provider;
- Name of service;
- Description of service;
- Icons for service, preferably in a plurality of sizes;
- URL of terms of service;
- URL of sign-up;
- URL of WebDAV interface (whether native or adapter), also URL for other supported protocols such as FTP;
- Authentication protocols and parameters supported, including API for generating a sessionID (or temporary password) if supported;
- Free quota per account;
- Price list for extra storage, for example a list of entries each of which has #MB, term in days/months/years, currency, price;
- List of extensions supported including wild card (e.g. .doc, .jpg);
- Are folders supported?;
- Are folder hierarchies supported?;
- Are tags supported?;
- File metadata provided by systems, such as file size? Folder contents size? Date created? Date modified?;
- User metadata for files – including: Supported?; Max number of name value pairs?; and Max length of each name, value; and
- Methods provided in API: such as Create empty file? Rename? Move? Read file? Write file? Append file? Random access to part of a file? Search for files by name? Search file contents?

[00061] It is to be noted that a subset of this information is provided in the Application Description File [ADF] specified by OpenSAM, available from http://opensam.org.

SERVER MODEL FOR FILE SYSTEM

[00062] Fig. 4 illustrates a high level block diagram of virtual file system according to certain embodiments of the invention, and in particular a high level design for the main business logic within the Web server 50. On the right are shown certain hosted file system services or services which include file system known as virtual drives. G.ho.st storage 410 is

an example of a file storage service commercially and technically associated with the Virtual file system service according to certain embodiments of the invention, in that it is also supported by system server 20. Hosted services 420 represents third party Web based services, or virtual drives, which may or may not natively support WebDAV or may support WebDAV via an adapter hosted by the third-party Web based service.

[00063] The central rectangle shows a business logic 430 run on system server 20, and in particular on Web server 50, and preferably as a portion of home application functionality 70. An object resource 440 provides reusable object-oriented objects, e.g. in Java running in servlets, to represent files and folders manipulated in the system. A method resource 450 provides object-oriented encapsulation for the methods offered in a file system such as list, copy, move, rename and create, without limitation.

[00064] Implementation module 460 provides an abstract implementation for the specific requests and responses processed by the Virtual file system and specific implementations for the case that the virtual drive (a) natively supports the abstractions of object resource 440 and method resource 450; (b) for WebDAV; (c) other implementations, in which the same object-oriented classes or interfaces are realized in a manner similar to that described above in relation to adapter functionality 80.

[00065] Preferably business logic 430 includes an external API 470 which preferably includes support for WebDAV and an extension API 475 which supports some extensions, denoted WebDAV+, such as search and share which are not supported in WebDAV.

[00066] In one embodiment all queries about files and folder metadata are passed through business logic 430; however reading and writing of the content of files is done directly from virtual file system client 150 to the virtual drives G.ho.st storage 410 and hosted services 42. In embodiment this is implemented by an HTTP redirect.

VIRTUAL FILE SYSTEM CLIENT

[00067] Virtual file system client 150 is preferably realized as an interactive Web page using techniques including static html pages generated by JSP or ASP, or preferably using client-side scripting in Flash, AJAX, Silverlight or Java applets or in a higher level language such as OpenLaszlo from Laszlo Inc. of San Mateo, CA. In another embodiment virtual file system client 150 is deployed as an installed application such as a Windows application or in an offline simulator of a Web environment such as Adobe AIR.

[00068] Fig. 5 illustrates a unified user interface 500 for files from third party Web service providers according to certain embodiments of the invention, as an aspect of virtual file

system client 150. Panel 510 shown on the left shows a list of available drives optionally organized into private, public and possibly shared drives. Optionally drives are organized by file type (e.g. video) and/or by service provider (e.g. Google). Optionally buttons and dialogs are available for adding drives by preconfigured service provider or by URL as described above in relation to Fig. 6.

[00069] Navigation within drives is preferably compatible with navigation within well know programs such as Windows File Explorer, from Microsoft Corp. Within each drive optionally the user can navigate files by folder hierarchy, by tag, by date. Furthermore, the user can search all of the drives by any of file name, file contents and metadata. Optionally files may be displayed as lists, in detailed tabular format, using small or big icons, without extra data on mouseover and with extra operations provided in right-click context menus.

[00070] Advantageously, virtual file system client 150 adds value by providing search across multiple drives and by allowing moving and copying files, without limitation, between different drives, provided the drives support the relevant file types and have read and write capabilities respectively. In one embodiment, moving and copying files is performed by dragging and dropping with a mouse.

[00071] In one embodiment, each file from any drive is shown as an icon which may also show by way of a smaller sub-icon or mouse-over data indicators of one or more of:

- Which service provider hosts the file;
- Which drive, e.g. third-party name;
- Who created/if shared; and
- Typical file metadata like file type, optionally indicated by an extension like .doc, file size and create/modified date.

FEDERATED SERVICES

[00072] In certain embodiment virtual file system client 150, in cooperation with adapter functionality 80, is operative to provide consistent APIs to many virtual drives including optionally a single tree of URLs in one domain.

SEARCH

[00073] In certain embodiment virtual file system client 150, in cooperation with adapter functionality 80, provides the ability to find files by providing a subset of the file names or by providing keywords inside the file and/or by specifying ranges for metadata such as last-

modified or create date. In one embodiment this is implemented by sending the search to all drives of interest, preferably in parallel, waiting for all responses and then collating the results. Alternatively, web server 50 may create indexes for file names or file content keywords or file metadata such indexes spanning multiple file systems for quicker searching.

TAGS

[00074] In certain embodiment, virtual file system client 150 enables the user to add tags to files using one set of tag names spanning all virtual drives. Tags may be added to the metadata of the file within the virtual drive, if supported. In an alternative embodiment tags are stored in drives directory 97 of database 90 or in a separate database (not shown). In one embodiment a record of a tag contain one or all of:

- Tag name;
- User name;
- Service provider name;
- Drive identifier, e.g. third-party name; and
- File identifier (e.g. path and file name or preferably a unique identifier if supported).

[00075] In another embodiment, a separate database table or domain is used to list all the tags which a user has created and optionally a count of how many times each is used so that it can be displayed more prominently.

SHARING

[00076] In certain embodiment virtual file system client 150, in cooperation with adapter functionality 80, allows the owner of a file to share access (e.g. for read or read/write) to a file or folder with other users in a way which is independent of the specific drive it is on.

SHARING USING THIRD-PARTY INFRASTRUCTURE

[00077] In one embodiment sharing is left to the third-party Web based service 40. Preferably, one of the APIs exposed by the third party is sharing. When a user asks virtual files system client 150 to share a file hosted at a given service provider with a second user, virtual files system client 150 determines how the third-party Web based service 40 identities the second user and then transfers the command to third-party Web based service 40. A typical workflow method, describing sharing files using third party infrastructure is described below in relation to Fig. 7.

[00078] In stage 1000, User 1, logs into virtual file system client 150 and in stage 1010 uses virtual file system client 150 to find a file hosted by a first third party Web based service, denoted Service1, in User 1's account – i.e. User1@Service1.com with file unique ID xyz. In stage 1020, User 1 instructs virtual file system 150 to share the file of stage 1010 with User2.

[00079] In stage 1030, virtual file system client 150 forwards the request to home application functionality 70, and in stage 1040 home application functionality 70 checks identity repository 95 to determine if identity information, including at least a username and password, for User2 at Service1 is found in identity repository 95. In the event that User2 has not given a username for Service1, in stage 1050 a message is sent to User2 requesting identity information and the identity information is obtained. In one embodiment, the message is sent by e-mail, or instant messaging. In the event that User2 has supplied identity information for Service 1, in stage 1060 home application functionality 70 calls an API such as:

POST http://virtual-file-system/Service1/User1@Service1.com/xyz?action=share&shareWith=User2@Service1.com.

[00080] In stage 1070, home application functionality 70 calls Service1 with the generated API, optionally through adapter functionality 80. In one embodiment the call is of the form: POST http://imaginaryApi.google.com/User1@Service1.com/xyz?action=share&shareWith=User2@Service1.com.

[00081] In optional stage 1080, User2 is notified of the share and/or will see the shared file next time he logs into his virtual file system client 150. Service1 will subsequently display the file xyz as one of the files available to User2.

SHARING USING VIRTUAL FILE SYSTEM INFRASTRUCTURE

[00082] In another embodiment sharing is controlled by home application functionality 70, and in particular, the virtual file system portion thereof, and does not rely on third-party Web based services having appropriate sharing APIs. Virtual file system keeps a table in database 90 of sharing permissions.

[00083] An embodiment of a workflow method, describing sharing files without using third party infrastructure is described below in relation to Fig. 8.

[00084] In stage 2000, User 1 logs into virtual file system client 150 and in stage 2010 uses virtual file system client 150 to find a file hosted by a first Web based service 40, denoted Service1, in User1's account: User1@Service1.com with file unique id xyz.

[00085] In stage 2020, User 1 tells virtual file system client 150 to share the file with User 2, also registered with home application functionality 70. In stage 2030, virtual file system client 150 communicates with home application functionality 70. In stage 2040 home application functionality, responsive to the received communication, is operative to create a put a record in a table in database 90:

- Shared by user (User1)
- Shared with user (User2)
- Service provider (Service1)
- Drive identifier (e.g. User1@Service1.com)
- File identifier (e.g. xyz)

[00086] In optional stage 2050, User2 is notified of the share and/or will see the shared file next time he logs into his Virtual file system client

[00087] In stage 2060, User2 tries to retrieve the file from Service 1, and virtual file system client 150 of User2 transfers the request to home application functionality 70. In stage 2070, home application functionality 70 calls an API to retrieve the file from Service1 using identity information of User1 retrieved from identity repository 95 for authentication. In stage 2080, Service1 is called via its API, optionally adapted by adapter functionality 80. In stage 2090, the received file is forwarded to User2. In an alternative embodiment, the received file is transmitted directly from the third-party to User2's client using HTTP redirect.

API

[00088] Preferably all operations from all drives are exposed using a REST style HTTP API. For example the URL for a file might be http://virtual-file-system.com/{service-provider}/{account-identifier-eg-username}/folder1/folder2/file-name

[00089] In one embodiment, WebDAV is used as an API performing most operations on such a URL. A quick summary of certain WebDAV specified HTTP methods includes:

- * PROPFIND : find properties of a resource or collection: response body contains a Multistatus Response returned in XML representation (see Samples Below).
- * PROPPATCH: Patch new properties, i.e add new properties "dead properties in dav terminology" a dead property is only maintained by the server and the server is not responsible for the correctness of its syntax and semantics.

- * COPY : copy a resource or collection from src to dst : Response Body is empty and only status returned
- * MOVE : move a resource or collection from src to dst Response body is empty and only status returned
- * MKCOL : Make Collection. i.e create a collection (which is also a resource) on the specified request URL Response body is empty and only status returned

[00090] Preferably alternative URLs are provided to access the same file by folder path and name, or by ID. In one embodiment, the following URLs might refer to the same file:

- http://virtual-file-system.com/{service-provider}/{account-identifier-eg-username}/folder1/folder2/file-name
- http://virtual-file-system.com/{service-provider}/{account-identifier-eg-username}/@byFileUniueUD/{file-id}

[00091] Preferably a file might belong to multiple collections – here are some example of collections that can be listed in certain embodiments:

- GET http://virtual-file-system.com/{service-provider}/{account-identifier-eg-username}/folder1/folder
- GET http://virtual-file-system.com/{service-provider}/{account-identifier-eg-username}/@byDateModified/today/{file-id}
- GET http://virtual-file-system.com/{service-provider}/{account-identifier-eg-username}/@sharedBy/User1

[00092] Preferably some methods, such as search, are provided across accounts and even across service provider, e.g

GET http://virtual-file-system.com/Service1/@allAccount?keyword=part+of+file+name

[00093] In one embodiment all API responses come directly from the virtual file system portion of home functionality 70. In another embodiment some or all requests, especially for reading and writing file contents which requires heavy bandwidth, will be redirected to the service provider e.g. by the above URLs returning an HTTP redirect. It will be appreciated that the redirected URL might include authentication parameters, e.g. a digest of the URL and of the user's third-party username and password from the identity repository described below, which the client would not be able to generate on its own, since it might not have access to the user's third-party username's and passwords.

[00094] In the event that the API of the third party Web based service 40 is limited to HTTP GET and POST methods, other methods such as DELETE may be implemented using POST with the method in a parameter such as:

POST http://...?httpMethod=DELETE

[00095] In one embodiment, home based functionality 70 exhibits an extra layer which preprocesses incoming HTTP methods and substitutes the above to the more correct REST format:

DELETE http://...

[00096] It will be appreciated that calls can be made using HTTPS instead of HTTP for extra security.

DRIVE DIRECTORY

[00097] In certain embodiments, drives directory comprises a list of available third-party drives and all their metadata as described above.

[00098] One possibility is to implement a drive directory as a special case of a more general web services app directory with an object-oriented model such as the one shown in Fig. 3A, the main concepts of which are descried as follows with an emphasis on capturing full information about how to do single sign-on to the service:

- **ServiceProvider**: A company which provides Web services such as Google Inc. and Yahoo Inc.
- **ThirdPartyAccountType:** A set of services you can sign up/on for, sometimes limited (usually one per service provider, however this is not restricted)
- **WebAuthenticationScheme:** A scheme for doing SSO for browser Web pages associated with a ThirdPartyAccountType
- **CreateSessionAPI:** Details of an API for supplying a username and password and receiving a session ID if session id's are supported by this ThirdPartyAccountType (some web services APIs prefer that username and password is presented once, usually securely over HTTPS, and then a sessionID is generated which is like a temporary password which may be used to authenticate subsequent API calls for a predetermined period of time).
- **APICallAuthenticationScheme:** A scheme for signing/authenticating http calls to APIs associated with the ThirdPartyAccountType (if any) e.g. Digital Access Authentication

- **ServiceOffering:** A service offered by a ServiceProvider (e.g. a web page, web app software-as-a-service, file storage e.g. with a WebDAV interface, other APIs etc.). A **WebApp** which is launched by pointing a browser at a URL is a particular case.

[00099] **MemberServiceOffering:** A service which requires an account and sign-on. Providing files or other resources using the **WebDAV** protocol is a particular case.

[000100] It will be appreciated by those skilled in the art that object-oriented inheritance can be conveniently used to add many specific schemes. By way of a non-limiting example DigitalAccessAuthentication is one way to authenticate API calls.

[000101] Referring to Fig. 2, which illustrates a home application with a third party Web based application embedded in an IFrame 210, according to certain embodiments of the invention, a sample simple GUI 220 for a directory of applications which may be specialized to a director of drives is illustrated. GUI 220 displays services categorized using a hierarchy of categories (like folders). Additionally metadata can be shown in mouse-overs, using context menu and other known GUI techniques. Search facilities may also be provided without exceeding the scope of the invention.

IDENTITY REPOSITORY

[000102] In one embodiment, database 90 comprises a repository of a user's third-party identity information. Preferably, a secure communications standard such as HTTPS is used for transmitting sensitive data such as passwords. An embodiment of an object-oriented data model and in its coupling to the components for automatically executing SSO and in its optional coupling to an application directory will now be further described in relation to Fig. 3B.

[000103] The identity repository described here is applicable to many types of services besides drives although for the purposes of the current invention it is possible to limit the concepts supported to just outbound SSO and just to drives, preferably including at a minimum the digest access authentication usually used with WebDAV.

[000104] Below are listed typical classes used, as shown in the diagram of Fig. 3B, the specific attributes are shown in the figures and only commented on when not self-explanatory:

[000105] **ThirdPartyIdentity:** The account login credentials (usually username and optionally password) which a the home application user supplies for a ThirdPartyAccountType;

[000106] **ThirdPartySession:** A temporary sessionID which has been generated for SSO to a third party – usually valid for a predetermined time period;

[000107] **ThirdPartyAccountType:** A ThirdPartyIdentity where the home application user has asked the home application to trust it in lieu of a home application login when hyperlinking from that service; and

[000108] **InboundThirdPartyLogin:** A ThirdPartyIdentity where the the home application user has asked to be able to provide that within the home application it in lieu of a home application login.

IDENTITY REPOSITORY API

[000109] In one embodiment, identity repository 95 has its own API. In one non-limiting example, using the HTTP REST style, the API may support the following functions:

- Create a login (e.g. store login data to third-party GMail in repository): POST api.home-application/rest/userLogins/Fred/google/Fred@gmail.com?password=xyz&idSharing=private
- Update a login
  PUT api.home-application/rest/userLogins/Fred/google/Fred@gmail.com?password=newPw&idSharing=public
- Get a user's logins by service providers with passwords:
  GET api.home-application/rest/userLogins/Fred/google
- Get a session id for a login:
  GET api.home-application/rest/userLogins/Fred/google/Fred@gmail.com/sessionId
- Sample return value: <homeAppAPIResponse...><sessionId serviceProvider="google" accountId=Fred@gmail.com sessionId="{*id*}" expires="{*date-time*}"></...

OUTBOUND SSO TO WEB SERVICE APIS

[000110] In the event that home application 70, or client code 110, responsive to a user input, is required to make API calls to a third-party virtual drive or other service, the API call will typically require authentication. One particular case is that the user has files stored with the third-party virtual drive which are accessible using an API such as WebDAV.

[000111] Cookies are not usually used, more often the calling party will somehow 'digitally sign' the call by attaching a digest of the call together with the username and password or using a sessionID, using cryptographical techniques.

[000112] Fig. 9 illustrates a high level flow chart of a plurality of methods according to an embodiment of an invention to automatically generated a signed API call to a third party Web service provider.

[000113] In method 3000, if allowed by browser 100, an API generator of client code 110 generates a URL with authentication and calls third party Web service provider 40. In method 3010, client code 110 communicates with proxy functionality 60, and executes the generated API call via proxy functionality 60. Proxy functionality 60 is operative to call service provider 40 with signed the API call received from client code 110.

[000114] In method 3020, an API call generator of client code 110 generates a URL without authentication and calls proxy functionality 60. Proxy functionality 60, queries database 90, retrieves the required identity information, adds the authentication and forwards the request to third party Web service provider 40. Upon return of the sessionID, or other information, proxy functionality 60 forwards the received information to client code 110.

[000115] In method 3030, an API call generator of client code 110 calls server home application functionality 70, with the URL login request. Home application functionality 70, is equipped with an implementation of the WebDAV API, or other API as required, and generates the call to third party Web service provider 40, in cooperation with identity information stored on database 90. Upon return of the sessionID, or other information, proxy functionality 60 forwards the received information to client code 110.

[000116] In every one of these four methods there are common steps:

[000117] Before making a third-party API call the application directory stored on database 90, or copied into identity cache 130, is consulted to discover the API authentication scheme(s) supported by the third-party

[000118] If a sessionID is required, or desired, database 90 or identity cache 130 is consulted for an existing sessionID; and if not present the CreateSessionAPI record is consulted and an API call is generated to get a sessionID which is then preferably stored in database 90 and/or cached in identity cache 130.

[000119] The APICallAuthenticationScheme(s) is retrieved. In the event that more than one scheme is available, one is chosen according to what is preferred by the service provider or the protocol considered more secure or efficient by the home application. Each major protocol code is available to authenticate the API. Thus, advantageously, irrespective of the protocol code of the selected third party Web service provider 40, access can be achieved.

[000120] The authenticated API call is forwarded to third-party Web service provider 40.

USING SESSION ID

[000121] In the event that the third-party Web service 40 is able to issue session IDs which are valid instead of a username and password for a period of time, the session ID is retrieved from the third-party Web service 40 by home application functionality 70 and forward to virtual file system client 150 without the security risk of sending the username and password to the client virtual file system client 150. The sessionID is preferably cached in identity cache 130 for as long as it is valid and used to authenticate subsequent calls to the third-party Web service 40 during that time.

USING THIRD-PARTY CLIENTS

[000122] The above has been described in an embodiment in which a single virtual file system client 150 is used to navigate all drives. In another embodiment, illustrated in Fig. 2, a third party client is embedded, preferably using an HTML IFrames 210 or a pop-up window.

[000123] Fig. 10 illustrates a high level flow chart of a method of sharing files by embedding a third party client, in accordance with certain embodiments of the invention. In stage 4000 a user opens Web browser 100 and navigates to a domain associated with system server 20. In stage 4010 Web browser 100 downloads client code 110.

[000124] In stage 4020, the user logs in to client code 110, or an associated home application in which virtual file system client 150 is embedded. In stage 4030 the user browses third party services using API 220 within the virtual file system client 150, as illustrated in Fig. 2.

[000125] In stage 4040, the user issues a command to client code 110 to launch a third-party web application found in the directory, offered by a service provider, denoted FourthPartyInc and associated with URL http://fourth-party.com/AnotherService. In one embodiment, the service is an explorer for a files and folders

[000126] In stage 4050, client code 110 queries drives directory 97, via home application functionality 70, and determines that this service has an API for generating sessions IDs which may be used instead of Web login. The API is documented in a CreateSessionAPI object within the application directory, as illustrated in Fig. 3B, and described above in relation thereto. Optionally, client code 110 first checks identity cache 130, and if required queries database 90 via home application functionality 70, to see if a sessionID is currently known.

[000127] In the event that an API for generating session IDs is known, and no session ID is active, in stage 4060 a call is made to home application functionality 70 requesting a sessionID. In stage 4070, home application functionality 70 queries database 90, and in

particular identity repository 95, for the user's identity information, including username and password, and sends them to third-party Web based service 40. In one embodiment the user's identity information is sent using POST https://fourth-party.com/api/getSessionID?username=NAME&password=xyz. In stage 4080 a sessionID is returned to home functionality 70, and forwarded to client code 110. Optionally, the session ID is further stored in database 90 and/or cached in identity cache 130.

[000128] In stage 4090, client software 1011 tells the browser to open IFrame 210 to the target service, with the retrieved session ID. In one embodiment, the IFrame 210 is opened to http://thirdparty.com/SomeService?sessionID=12345

[000129] For the predetermine amount of time that the session ID is valid, upon any new request by the user to access services from the third party Web based service 40, stage 4090 is repeated.

[000130] In the event that in stage 4050 an API for generating a sessionID is not known, in stage 4090 the service is called for user login. In the event that in stage 4050 a current sessionID is found, stage 4090 in which client software 1011 tells the browser to open IFrame 210 to the target service, with the retrieved session ID, is performed.

SIGN UP

[000131] In one embodiment, the identity management application may also help the user to create accounts with third parties.

[000132] At a minimum this might involve referring the user to the third-party's sign-up page opened e.g. in an IFrame or pop-up window. signUpUrl is an optional attribute of ThirdPartyAccountType described above in relation to Fig. 3B.

[000133] Preferably though third-party accounts may be made using an API call. For example an API may be a POST with tags. In one particular embodiment the POST comprises:

- Preferred username;
- Preferred password;
- FirstName;
- FamilyName;
- DateOfBirth
- Country;
- PreferredLanguage;

[000134] and other parameters typical of registration. For each such parameter a tag name and an indicator of required/optional/not-supported may be added to the application directory in database 90 so that there is enough data for automatic sign-up to the third-party.

[000135] In one embodiment, home application functionality 70 digitally signs calls to the third-party sign-up API so that the third-party can trust the call. In one embodiment, home application functionality 70 further requires a "captcha" test to validate that the user is human before generating a sign-up request.

[000136] Thus, the present embodiments enable uniform access to files across multiple Web services, each of which hosts files and optionally folders but which have different paradigms, different user accounts, and different APIs.

[000137] It is appreciated that certain features of the invention, which are, for clarity, described in the context of separate embodiments, may also be provided in combination in a single embodiment. Conversely, various features of the invention which are, for brevity, described in the context of a single embodiment, may also be provided separately or in any suitable sub-combination.

[000138] Unless otherwise defined, all technical and scientific terms used herein have the same meanings as are commonly understood by one of ordinary skill in the art to which this invention belongs. Although methods similar or equivalent to those described herein can be used in the practice or testing of the present invention, suitable methods are described herein.

[000139] All publications, patent applications, patents, and other references mentioned herein are incorporated by reference in their entirety. In case of conflict, the patent specification, including definitions, will prevail. In addition, the materials, methods, and examples are illustrative only and not intended to be limiting.

[000140] The terms "include", "comprise" and "have" and their conjugates as used herein mean "including but not necessarily limited to".

[000141] It will be appreciated by persons skilled in the art that the present invention is not limited to what has been particularly shown and described hereinabove. Rather the scope of the present invention is defined by the appended claims and includes both combinations and sub-combinations of the various features described hereinabove as well as variations and modifications thereof, which would occur to persons skilled in the art upon reading the foregoing description.

I claim:

1. A computer implemented virtual file system comprising a uniform representation of a plurality of file systems hosted by respective different third party Web based services.

2. A virtual file system according to Claim 1, wherein said uniform representation comprises:

a uniform application programming interface (API); and

an adapter functionality arranged to adapt respective third party Web based services which do not support the uniform API to the uniform API.

3. A computer implemented virtual file system according to Claim 2, wherein in the event that the particular API of one of the respective third party Web based services does note support HTTP methods other than GET and POST, at least one other command is implemented by using one of GET and POST with a parameter.

4. A computer implemented virtual file system according to either Claim 2 or Claim 3, where the uniform API uses a single tree of URLs at the same domain for said plurality of file systems which have distinct domains.

5. A computer implemented virtual file system according to any of claims 1- 4, further comprising a search capability operative across said plurality of file systems.

6. A computer implemented virtual file system according to any of claims 1- 5, where each of said plurality of file systems is displayed as a virtual drive.

7. A computer implemented virtual file system according to claim 6, wherein each of said plurality of file systems exhibits metadata specifying its location and capabilities.

8. A computer implemented virtual file system according to any of claims 1 – 7, further comprising a client code arranged to navigate the virtual file system.

9. A computer implemented virtual file system according to Claim 8, wherein the client code is implemented as an interactive web page.

10. A computer implemented virtual file system according to either Claim 8 or Claim 9, wherein the client code is operative to add a file system responsive to a Universal Record Locator.

11. A computer implemented virtual file system according to Claim 10, wherein said Universal Record Locator represents an address of one of a metadata for the file system and an application programming interface for the file system.

12. A computer implemented virtual file system according to any of Claims 1 – 11, wherein said file system is further operative to enable a user to add tags from one master list of tags to files from each of said plurality of file systems.

13. A computer implemented virtual file system according to any of Claims 1 – 12, wherein said file system is further operative to enable users to share files via said uniform representation.

14. A computer implemented virtual file system according to Claim 13, further comprising a repository of identity information for users, wherein said file sharing is controlled by the respective third party Web based service hosting the file to be shared, and wherein the virtual file system is further operative to mark said file to be shared as shared by accessing the respective third party Web based service utilizing identity information from said repository.

15. A computer implemented virtual file system according to Claim 13, further comprising a repository of identity information for users, wherein the virtual file system is operative to retrieve said file to be shared by a second user by accessing the respective third party Web based service utilizing identity information of the owner of said file from said repository.

16. A computer implemented virtual file system according to either Claim 14 or Claim 15, wherein the identity repository is coupled to a single sign on functionality.

17. A computer implemented virtual file system according to Claim 16, wherein the single sign functionality supports multiple protocols.

18. A computer implemented virtual file system according to either Claim 17, wherein one of the protocols is digest access authentication.

19. A computer implemented method of uniform representation of a plurality of file systems hosted by respective different third party Web based services, comprising:

receiving commands to access a file hosted by one of the respective different third party Web based services;

preparing the command utilizing a uniform application programming interface (API);

adapting, in the event that said one of the respective different third party Web based services does not support said uniform API, to an API supported by said one of the respective different third party Web based services; and

transmitting the prepared command in said supported API to said one of the respective different third party Web based services.

20. A computer implemented method according to Claim 19, wherein in the event that the particular API of said one of the respective third party Web based service does note support HTTP methods other than GET and POST, said adapting comprises using one of GET and POST with a parameter.

21. A computer implemented method according to either Claim 19 or Claim 20, where the uniform API uses a single tree of URLs at the same domain for said plurality of file systems which have distinct domains.

22. A computer implemented method according to any of claims 19- 21, further comprising:

enabling a search operative across said plurality of file systems.

23. A computer implemented method according to any of claims 19 - 22, wherein each of said plurality of file systems is displayed as a virtual drive.

24. A computer implemented method according to any of claim 19 - 23, wherein each of said plurality of file systems exhibits metadata specifying its location and capabilities.

25. A computer implemented method according to any of claims 19 – 24, further comprising:

providing a client code arranged to navigate the virtual file system.

26. A computer implemented method according to Claim 25, wherein the client code is implemented as an interactive web page.

27. A computer implemented method according to either Claim 25 or Claim 26, wherein the client code is operative to add a file system responsive to a Universal Record Locator.

28. A computer implemented method according to Claim 27, wherein said Universal Record Locator represents an address of one of a metadata for the file system and an application programming interface for the file system.

29. A computer implemented method according to any of Claims 19 – 28, further comprising:

enabling a user to add tags from one master list of tags to files from each of said plurality of file systems.

30. A computer implemented method according to any of Claims 19 – 29, further comprising:

enabling users to share files via said uniform representation.

31. A computer implemented method according to Claim 30, wherein said enabling users to share files comprises:

providing a repository of identity information for users;

accessing the respective third party Web based service utilizing identity information from said repository; and

marking said file to be shared.

32. A computer implemented method according to Claim 30, wherein said enabling users to share files comprises:

providing a repository of identity information for users; and

retrieving said file to be shared by a second user by accessing the respective third party Web based service utilizing identity information of the owner of said file from said repository.

33. A computer implemented method according to either Claim 32 or Claim 33, wherein the identity repository is coupled to a single sign on functionality.

34. A computer implemented method according to Claim 33, wherein the single sign functionality supports multiple protocols.

35. A computer implemented method according to either Claim 34, wherein one of the protocols is digest access authentication.

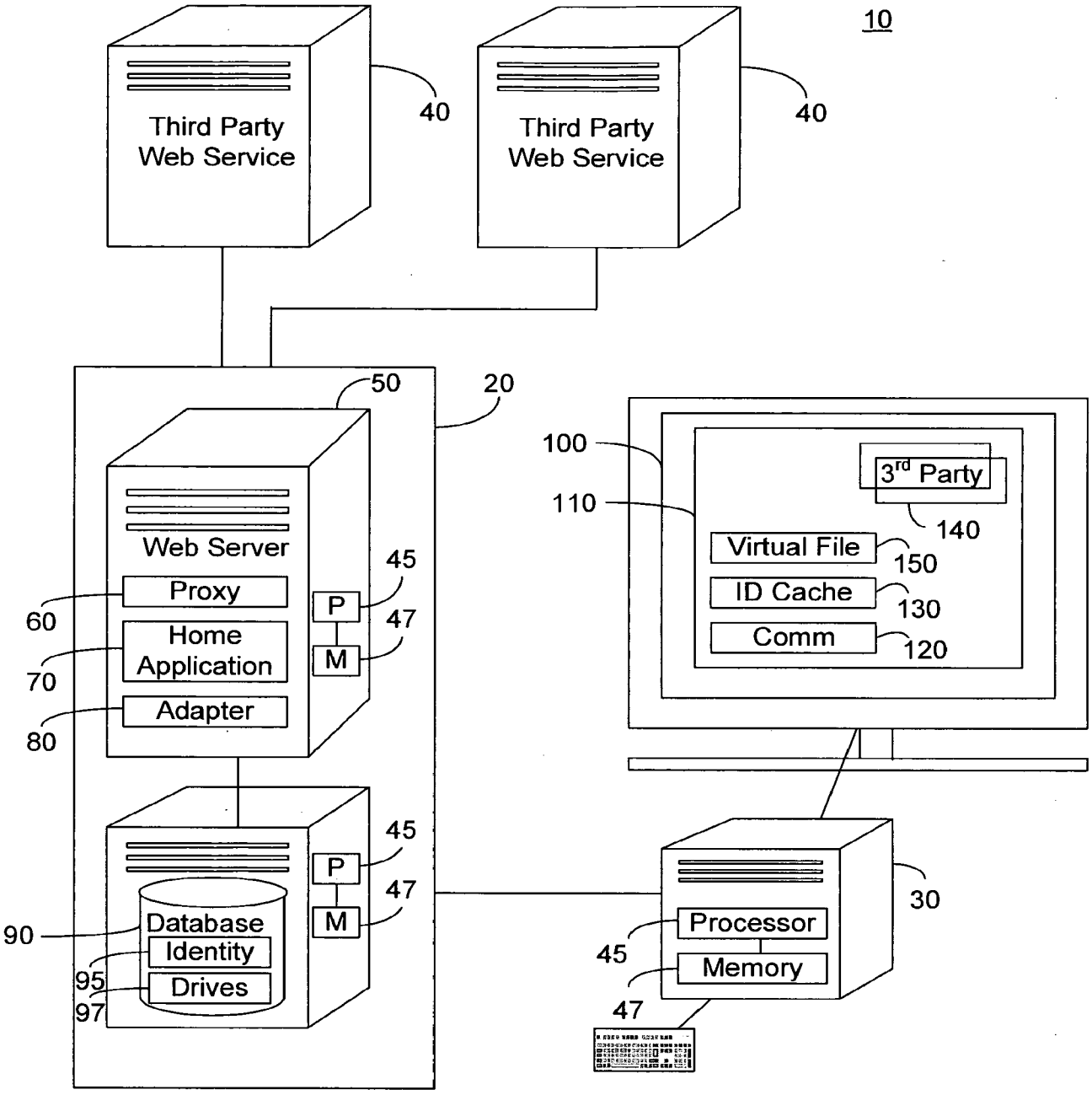
10
Third Party Web Service
40
Third Party Web Service
40
20
50
Web Server
Proxy
Home Application
Adapter
60
70
80
P
M
45
47
100
110
3rd Party
140
Virtual File
150
ID Cache
130
Comm
120
Database
Identity
Drives
90
95
97
Processor
Memory
45
47
30

Fig. 1

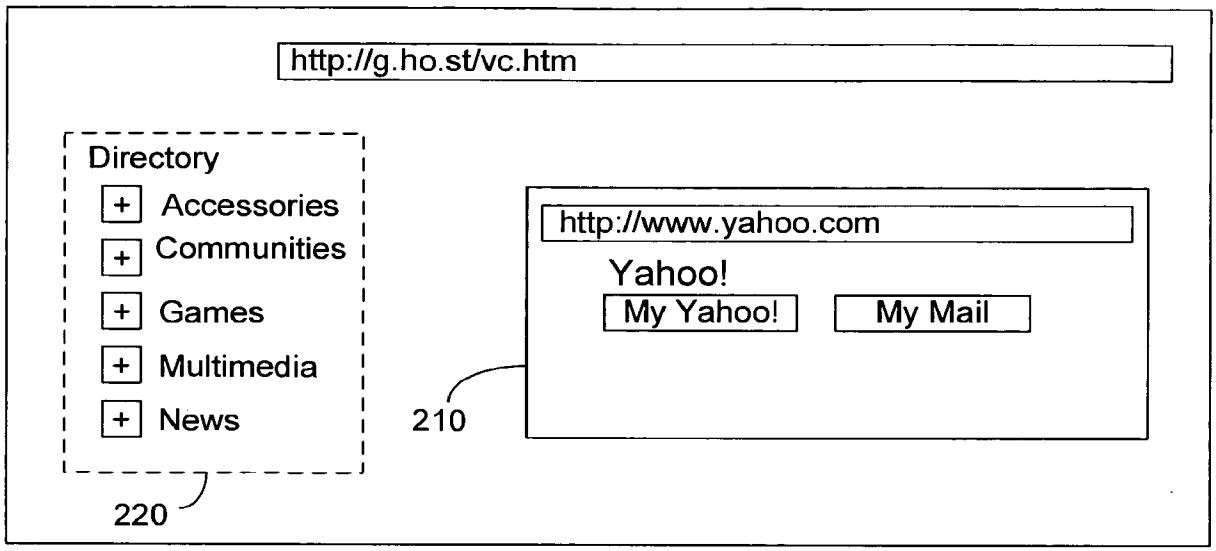
http://g.ho.st/vc.htm
Directory
+ Accessories
+ Communities
+ Games
+ Multimedia
+ News
220
http://www.yahoo.com
Yahoo!
My Yahoo!
My Mail
210

Fig. 2

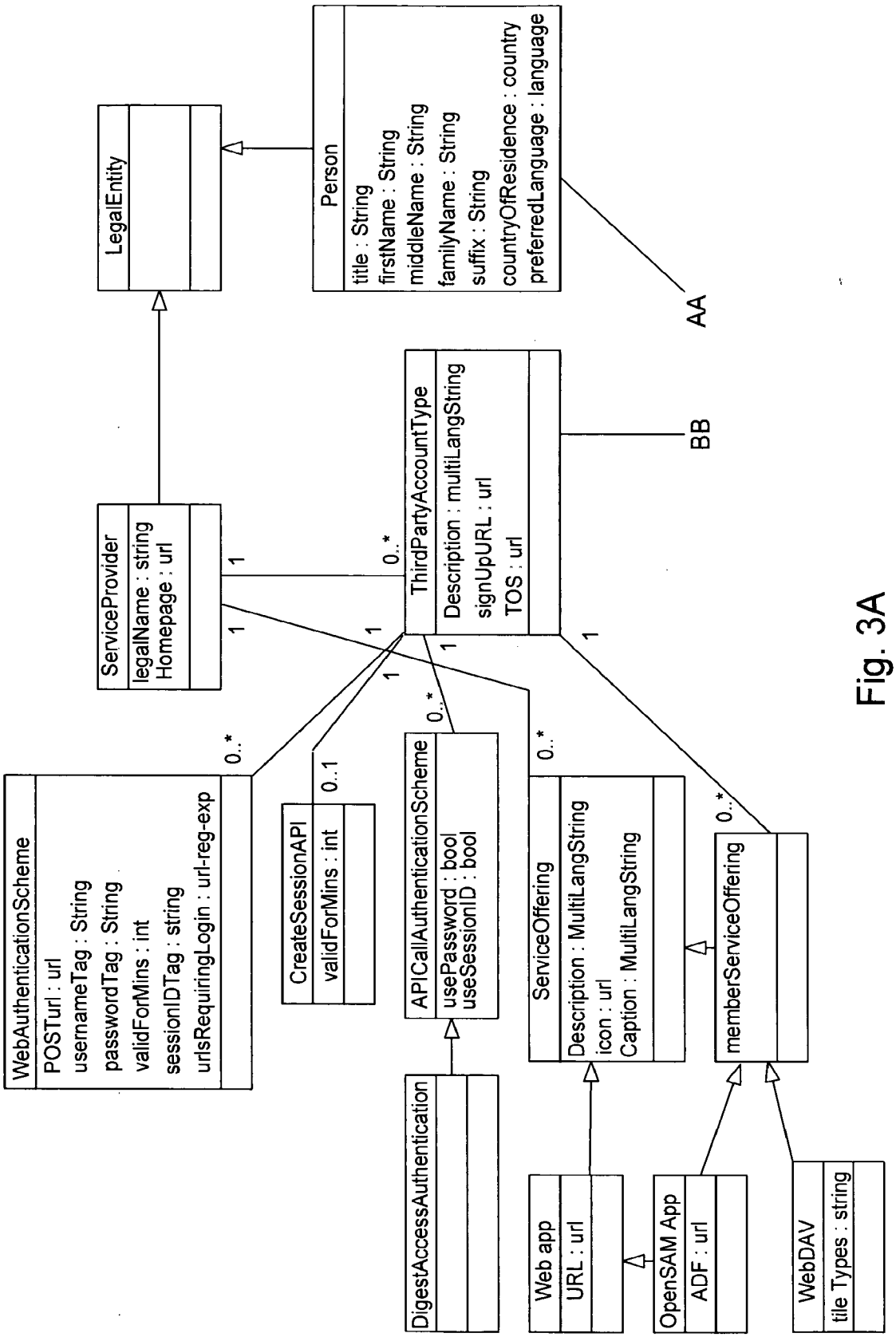
LegalEntity
Person
title : String
firstName : String
middleName : String
familyName : String
suffix : String
countryOfResidence : country
preferredLanguage : language
AA
ServiceProvider
legalName : string
Homepage : url
ThirdPartyAccountType
Description : multiLangString
signUpURL : url
TOS : url
BB
WebAuthenticationScheme
POSTurl : url
usernameTag : String
passwordTag : String
validForMins : int
sessionIDTag : string
urlsRequiringLogin : url-reg-exp
CreateSessionAPI
validForMins : int
APICallAuthenticationScheme
usePassword : bool
useSessionID : bool
ServiceOffering
Description : MultiLangString
icon : url
Caption : MultiLangString
memberServiceOffering
DigestAccessAuthentication
Web app
URL : url
OpenSAM App
ADF : url
WebDAV
tile Types : string
0..*
0..1
1

Fig. 3A

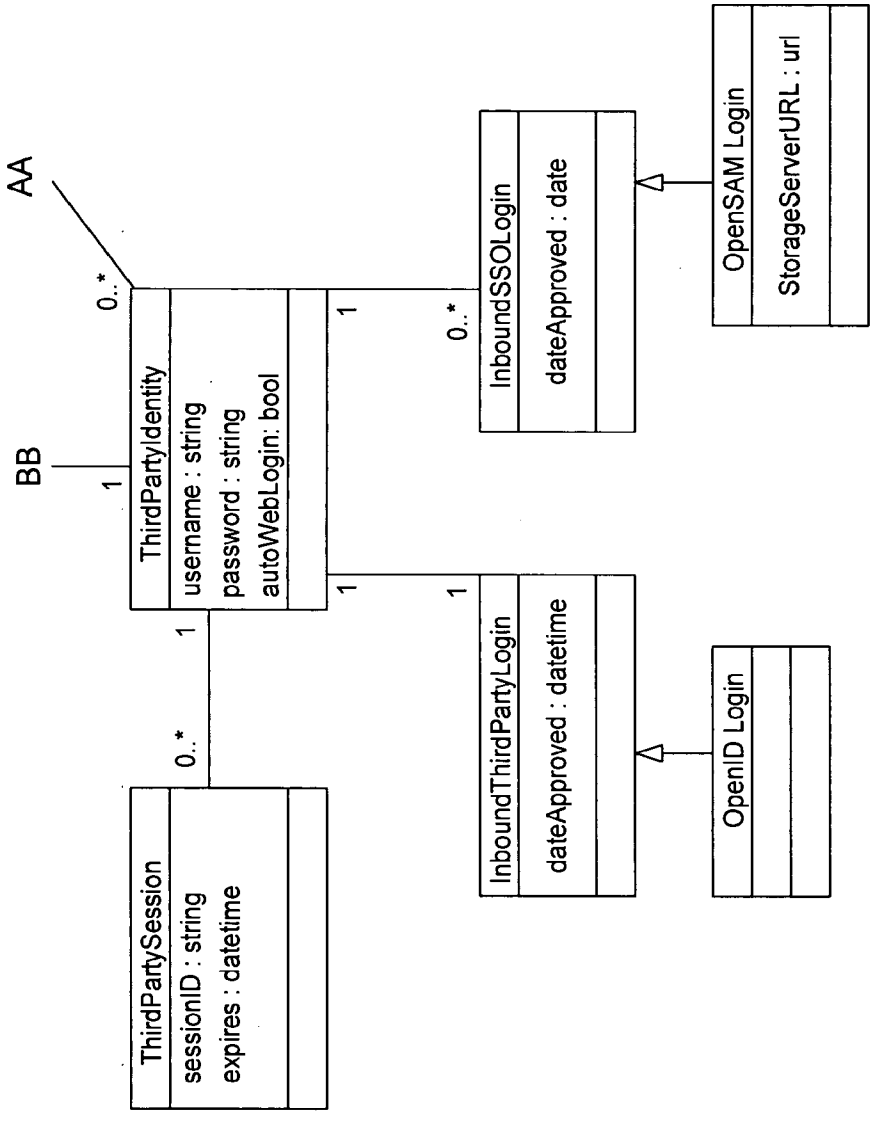
AA
BB
0..*
1
ThirdPartyIdentity
username : string
password : string
autoWebLogin: bool
1
1
0..*
InboundSSOLogin
dateApproved : date
OpenSAM Login
StorageServerURL : url
1
1
0..*
1
ThirdPartySession
sessionID : string
expires : datetime
InboundThirdPartyLogin
dateApproved : datetime
OpenID Login

Fig. 3B

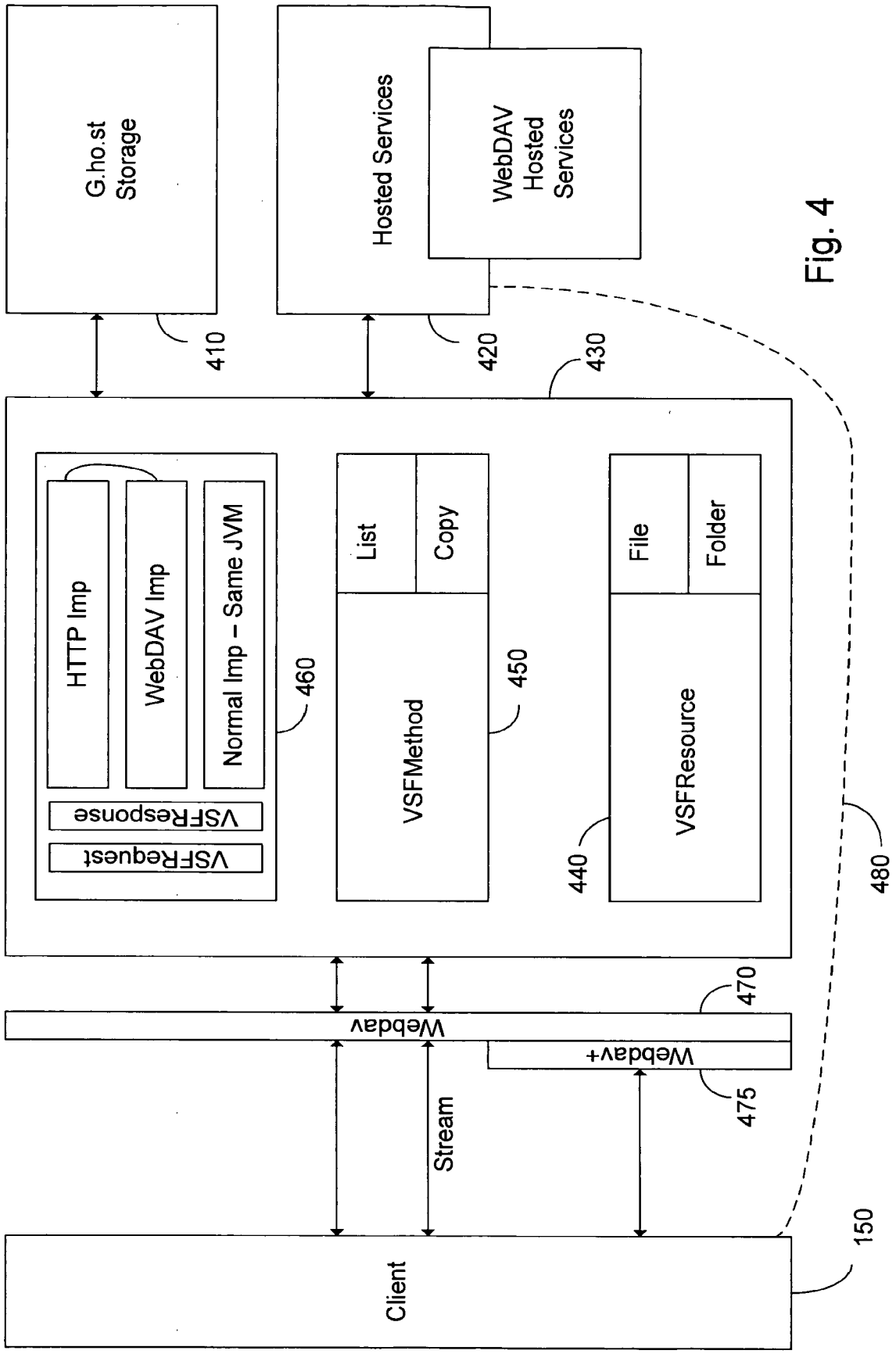
G.ho.st Storage
Hosted Services
WebDAV Hosted Services
410
420
430
HTTP Imp
WebDAV Imp
Normal Imp – Same JVM
VSFRequest
VSFResponse
460
List
Copy
VSFMethod
450
File
Folder
VSFResource
440
480
Webdav
Webdav+
470
475
Stream
Client
150

Fig. 4

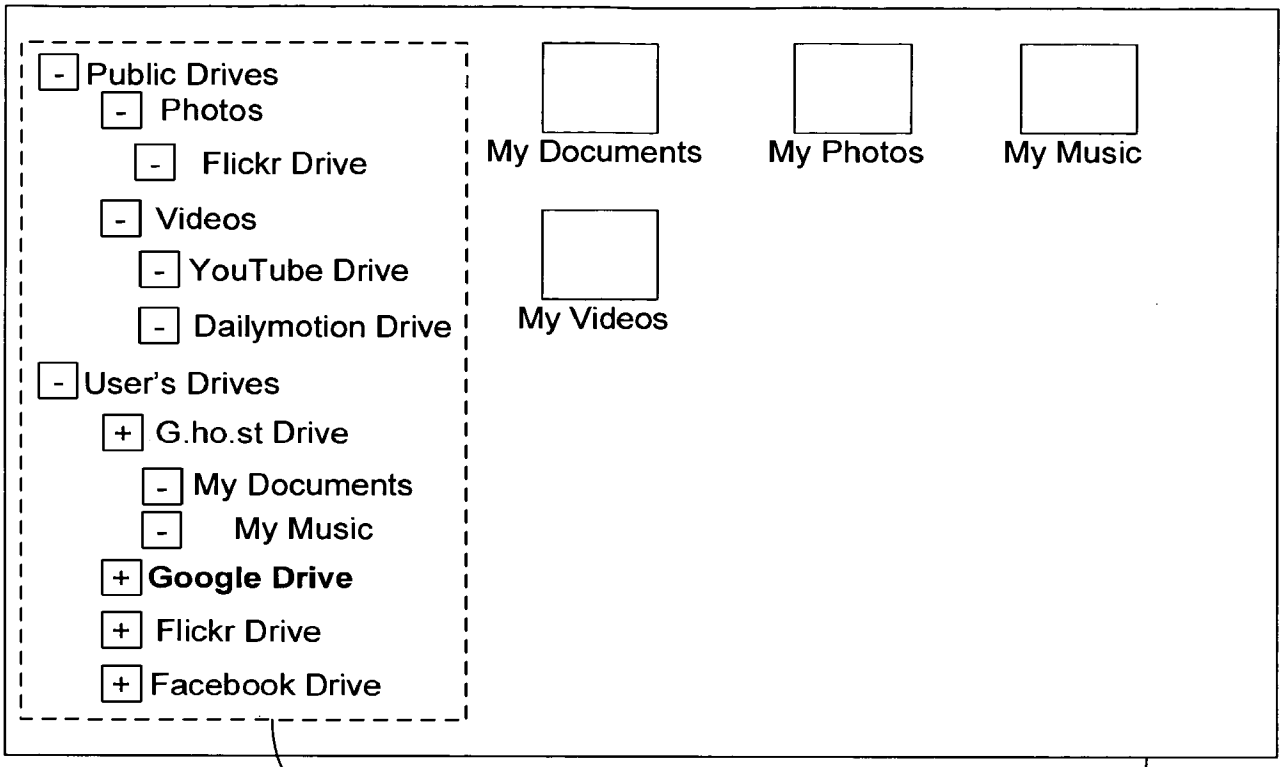
- Public Drives
- Photos
- Flickr Drive
- Videos
- YouTube Drive
- Dailymotion Drive
- User's Drives
+ G.ho.st Drive
- My Documents
- My Music
+ Google Drive
+ Flickr Drive
+ Facebook Drive
My Documents
My Photos
My Music
My Videos
510
500

Fig. 5

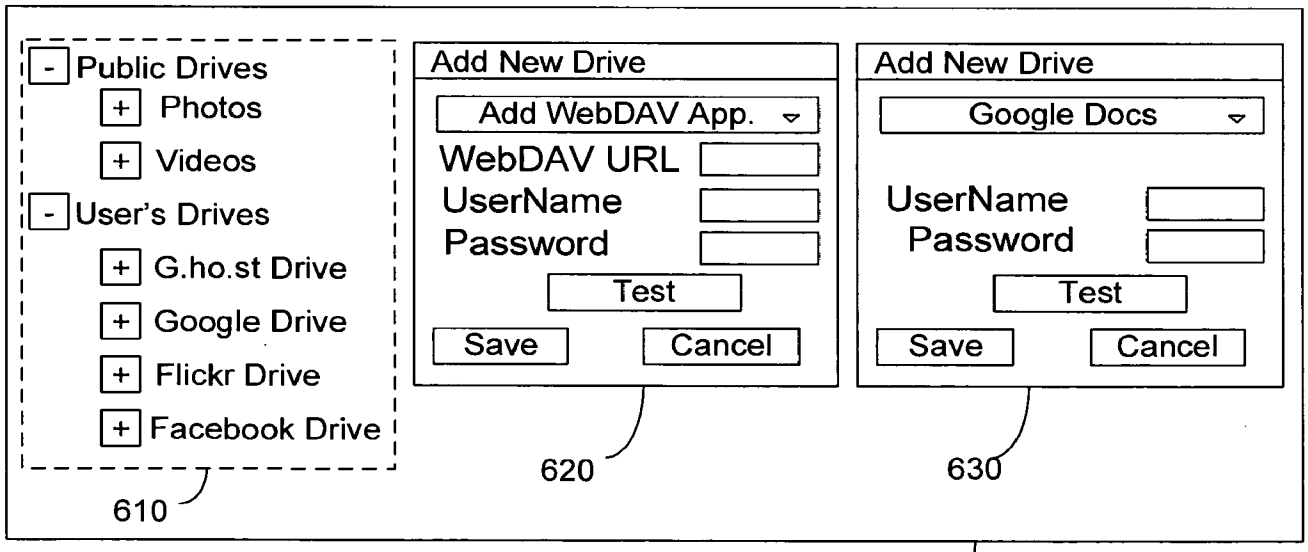
- Public Drives
+ Photos
+ Videos
- User's Drives
+ G.ho.st Drive
+ Google Drive
+ Flickr Drive
+ Facebook Drive
610
Add New Drive
Add WebDAV App.
WebDAV URL
UserName
Password
Test
Save
Cancel
620
Add New Drive
Google Docs
UserName
Password
Test
Save
Cancel
630
600

Fig. 6

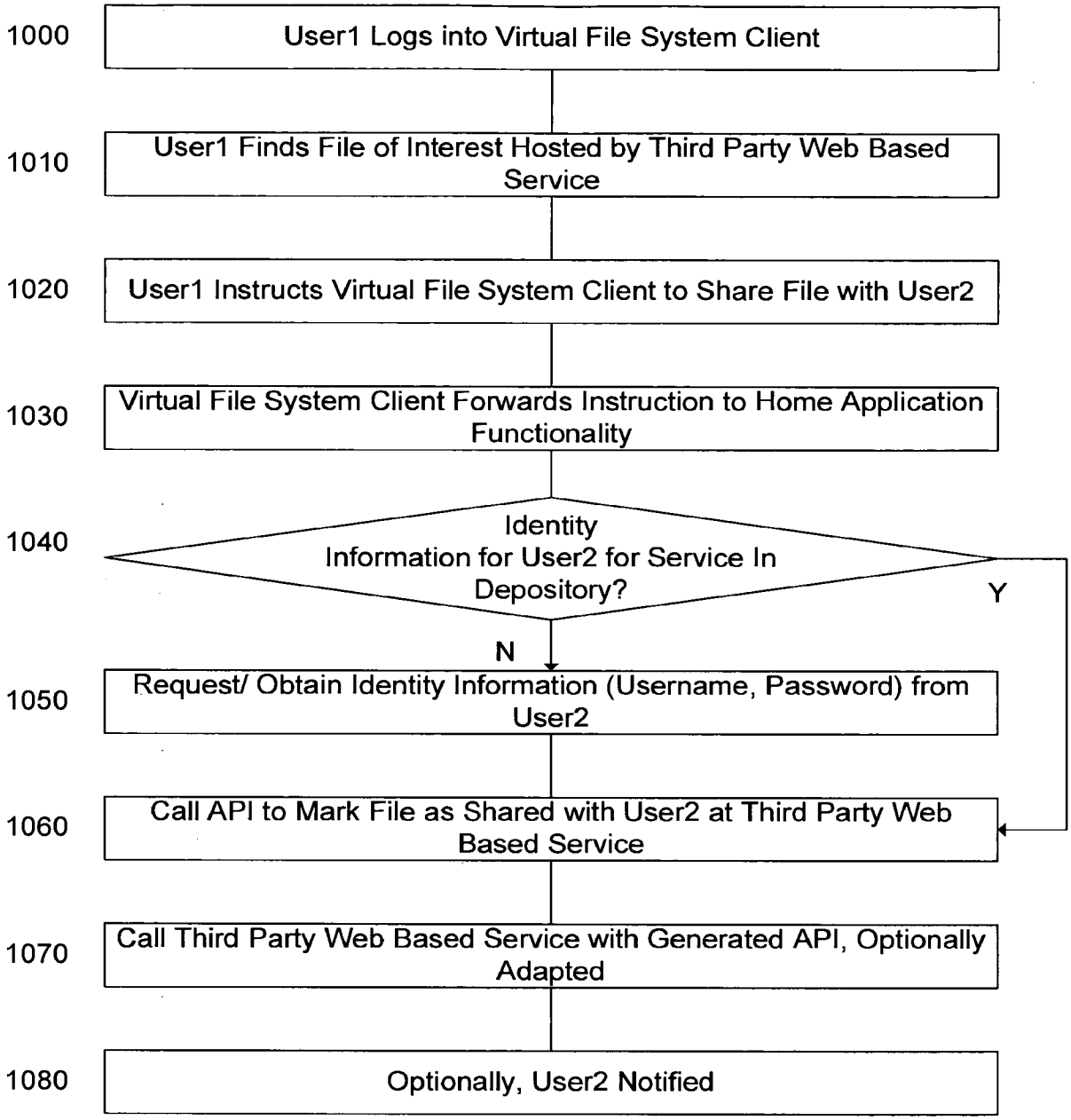
1000
User1 Logs into Virtual File System Client
1010
User1 Finds File of Interest Hosted by Third Party Web Based Service
1020
User1 Instructs Virtual File System Client to Share File with User2
1030
Virtual File System Client Forwards Instruction to Home Application Functionality
1040
Identity Information for User2 for Service In Depository?
Y
N
1050
Request/ Obtain Identity Information (Username, Password) from User2
1060
Call API to Mark File as Shared with User2 at Third Party Web Based Service
1070
Call Third Party Web Based Service with Generated API, Optionally Adapted
1080
Optionally, User2 Notified

Fig. 7

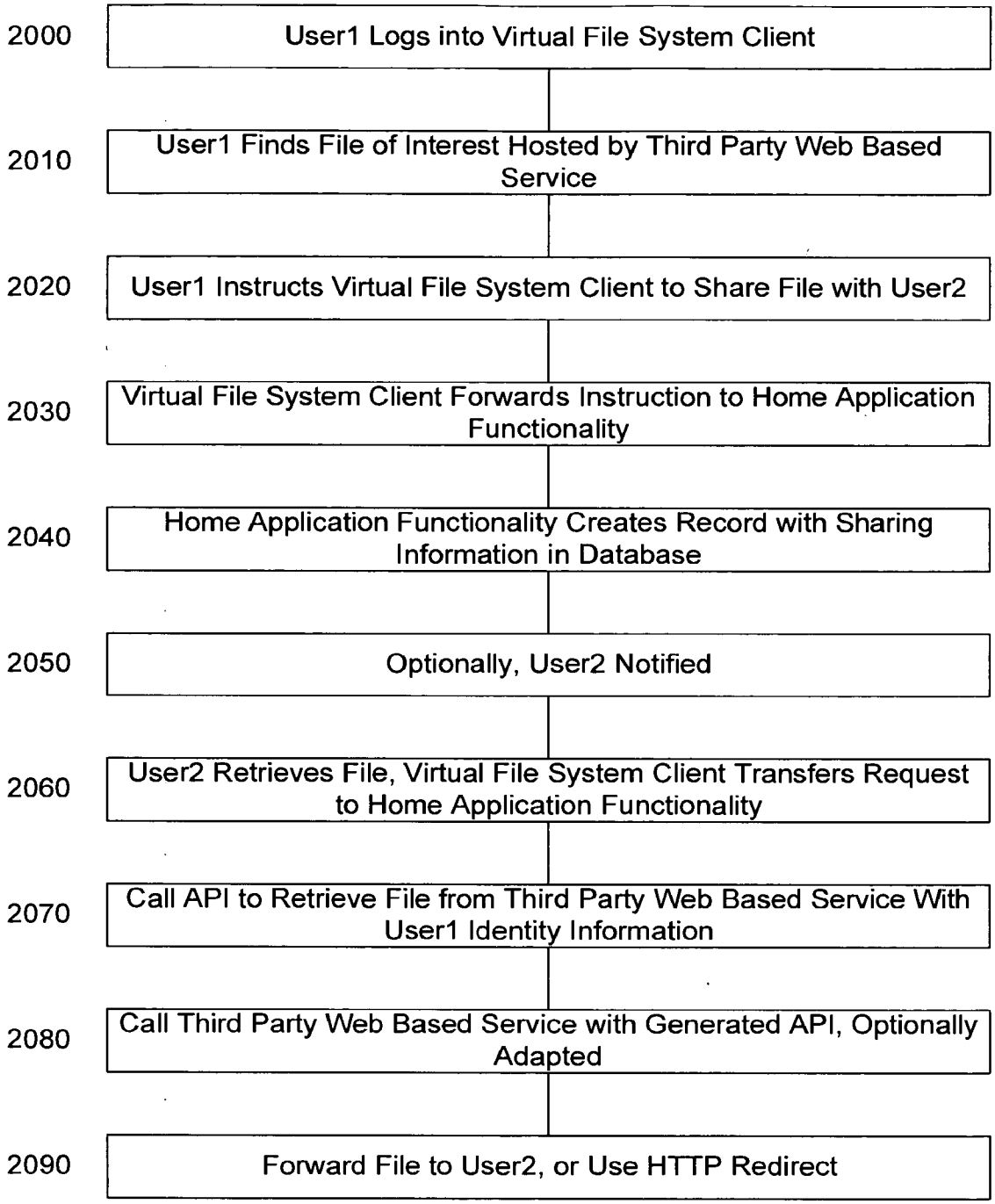
2000
User1 Logs into Virtual File System Client
2010
User1 Finds File of Interest Hosted by Third Party Web Based Service
2020
User1 Instructs Virtual File System Client to Share File with User2
2030
Virtual File System Client Forwards Instruction to Home Application Functionality
2040
Home Application Functionality Creates Record with Sharing Information in Database
2050
Optionally, User2 Notified
2060
User2 Retrieves File, Virtual File System Client Transfers Request to Home Application Functionality
2070
Call API to Retrieve File from Third Party Web Based Service With User1 Identity Information
2080
Call Third Party Web Based Service with Generated API, Optionally Adapted
2090
Forward File to User2, or Use HTTP Redirect

Fig. 8

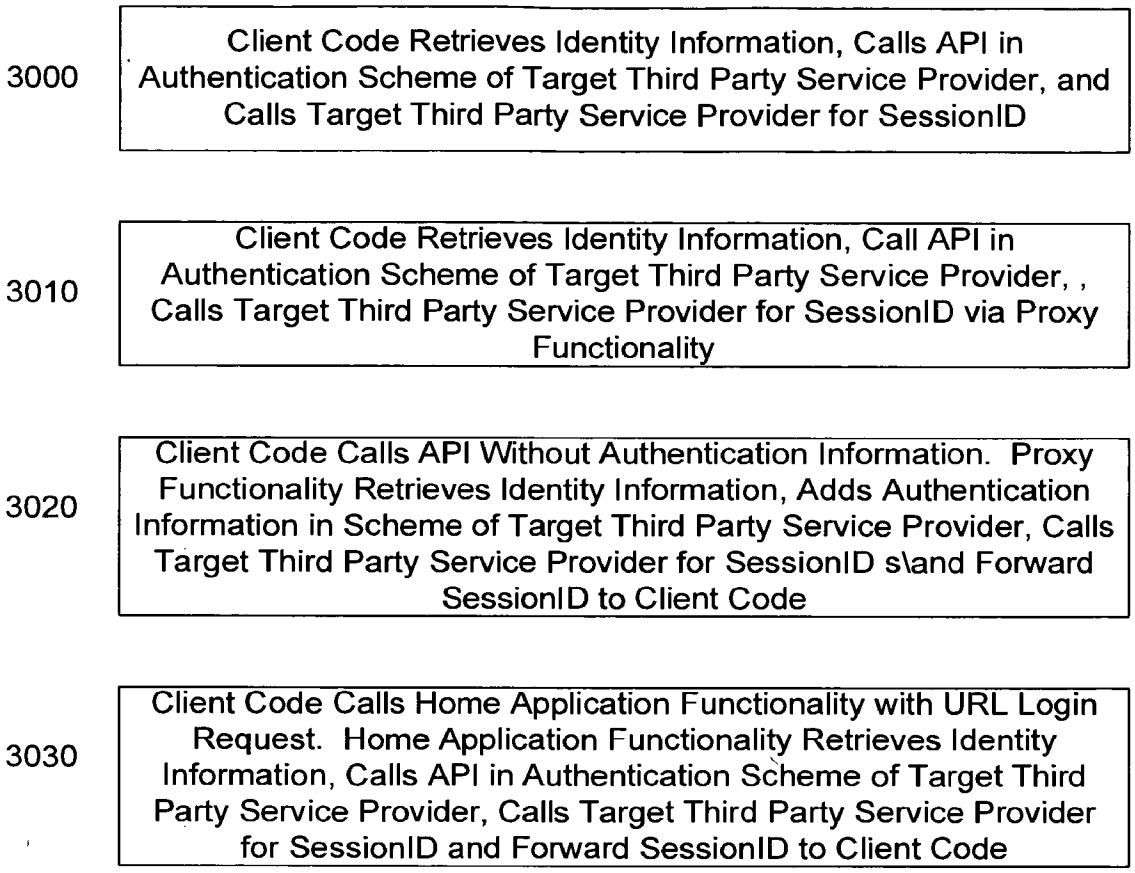
3000
Client Code Retrieves Identity Information, Calls API in Authentication Scheme of Target Third Party Service Provider, and Calls Target Third Party Service Provider for SessionID
3010
Client Code Retrieves Identity Information, Call API in Authentication Scheme of Target Third Party Service Provider, , Calls Target Third Party Service Provider for SessionID via Proxy Functionality
3020
Client Code Calls API Without Authentication Information. Proxy Functionality Retrieves Identity Information, Adds Authentication Information in Scheme of Target Third Party Service Provider, Calls Target Third Party Service Provider for SessionID s\and Forward SessionID to Client Code
3030
Client Code Calls Home Application Functionality with URL Login Request. Home Application Functionality Retrieves Identity Information, Calls API in Authentication Scheme of Target Third Party Service Provider, Calls Target Third Party Service Provider for SessionID and Forward SessionID to Client Code

Fig. 9

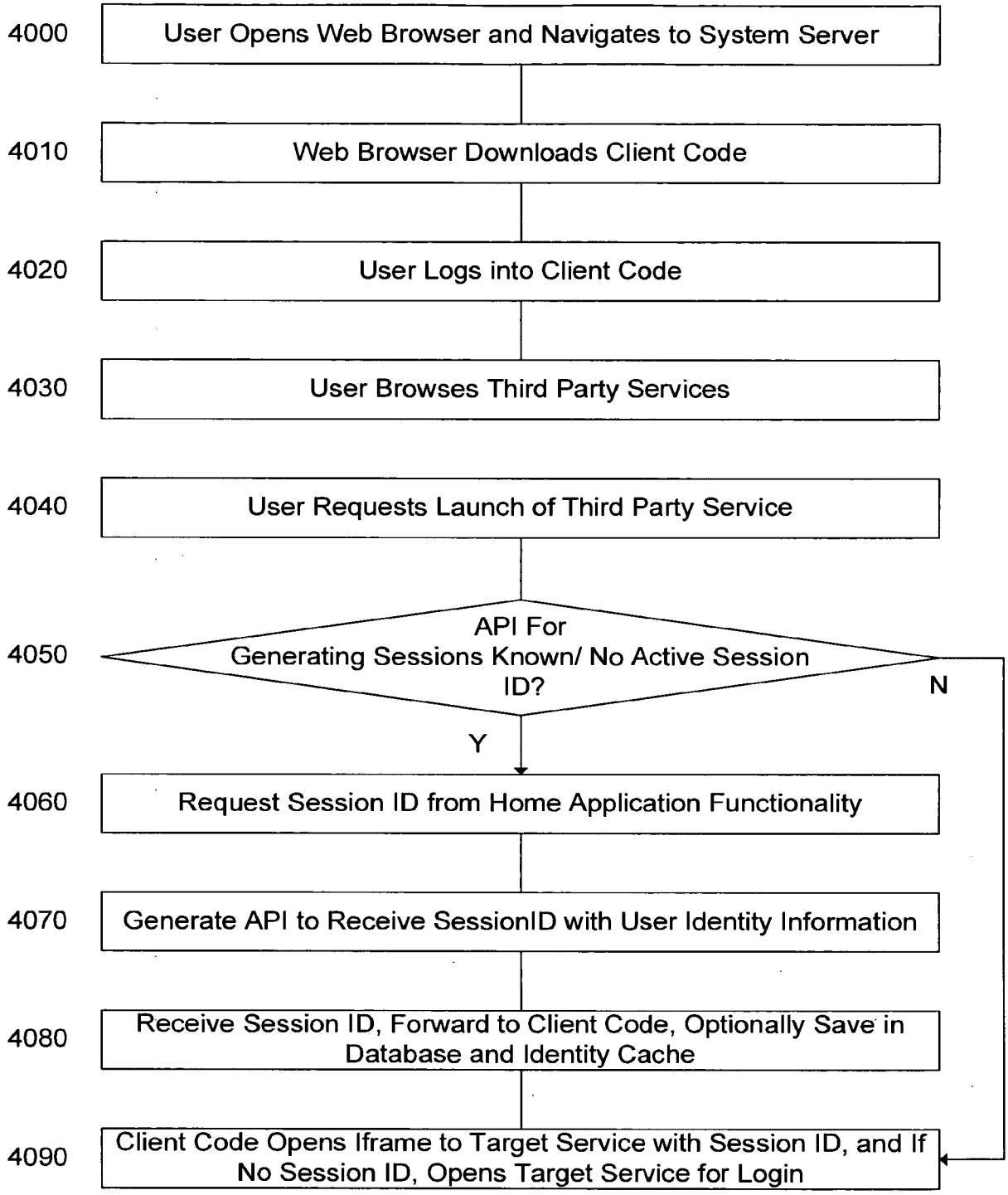
4000
User Opens Web Browser and Navigates to System Server
4010
Web Browser Downloads Client Code
4020
User Logs into Client Code
4030
User Browses Third Party Services
4040
User Requests Launch of Third Party Service
4050
API For Generating Sessions Known/ No Active Session ID?
N
Y
4060
Request Session ID from Home Application Functionality
4070
Generate API to Receive SessionID with User Identity Information
4080
Receive Session ID, Forward to Client Code, Optionally Save in Database and Identity Cache
4090
Client Code Opens Iframe to Target Service with Session ID, and If No Session ID, Opens Target Service for Login

Fig. 10

PTO/SB/08a (01-10)
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Application Number	13397517
Filing Date	2012-02-15
First Named Inventor	William Grecia
Art Unit	2431
Examiner Name	
Attorney Docket Number	

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	1	20030018491	A1	2003-01-23	Nakahara	

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	1	2007-183935	JP	A	2007-07-19	SAMSUNG ELECTRONICS CO LTD		☐
	2	10-2005-0028244	KR	A	2005-03-22	SAMSUNG ELECTRONICS CO LTD		☐
	3	10-2004-0107602	KR	A	2004-12-23	SAMSUNG ELECTRONICS CO LTD		☐

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	2431
	Examiner Name	
	Attorney Docket Number	

	4	10-0708203	KR	B1	2007-04-16	SAMSUNG ELECTRONICS CO LTD		☐
	5	1 0-2005-0060685	KR	A	2005-06-22	SK TELECOM CO., LTD		☐

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	1		☐

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Examiner Signature		Date Considered	

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] 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	2431
Examiner Name	
Attorney Docket Number	

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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)	2012-03-05
Name/Print	William Grecia	Registration Number	

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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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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.

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EFS ID:	12219198
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	05-MAR-2012
Filing Date:	15-FEB-2012
Time Stamp:	03:50:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

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File Listing:

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1	Foreign Reference	npl1fr.pdf	769751 1d5af5ee3bb9e974cb1d3b2084c7e094f1b8a9af	no	16

Warnings:	
Information:	

2	Foreign Reference	npl2fr.pdf	376860 29154adc82f151f9e0f827b4b8c30c3bd81acc1e	no	9
Warnings:					
Information:					
3	Foreign Reference	npl3fr.pdf	579122 016d44e70566b39d347810a119f2f433c8c24e8a	no	12
Warnings:					
Information:					
4	Foreign Reference	npl4fr.pdf	590060 89e99f01541f6f48d8ff7f7a4996255db70e3f1e	no	20
Warnings:					
Information:					
5	Foreign Reference	nplfr5.pdf	472887 129bf6a77631ac1c43f0dfc5f6db5e31bd81c78a	no	13
Warnings:					
Information:					
6	Information Disclosure Statement (IDS) Form (SB08)	March_5_IDS2.pdf	612567 a1a09249258e9569eaf19a1fa6eb8dd8d6b94111	no	4
Warnings:					
Information:					
		Total Files Size (in bytes):	3401247		

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PATENT ABSTRACTS OF JAPAN

(11)Publication number : **2007-183935**
(43)Date of publication of application : **19.07.2007**

(51)Int.Cl. *G06F 21/20 (2006.01)*
G06F 21/24 (2006.01)
G06Q 10/00 (2006.01)
G06F 13/00 (2006.01)

(21)Application number : **2006-332274**
(22)Date of filing : **08.12.2006**

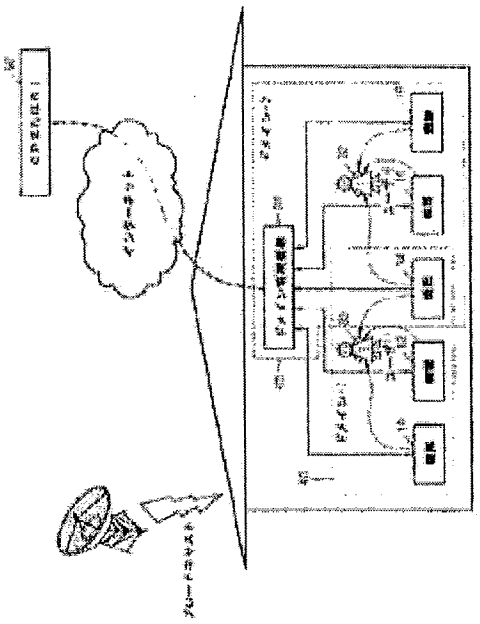
(71)Applicant : **SAMSUNG ELECTRONICS CO LTD**
(72)Inventor : **KIM BONG-SEON**
YOON YOUNG-SUN
NAM SU-HYUN

(30)Priority

Priority number	Priority date	Priority country
2006 755098	**03.01.2006**	**US**
2006 200626985	**24.03.2006**	**KR**

(54) DOMAIN MANAGEMENT METHOD AND DEVICE THEREFOR

(57)Abstract:
PROBLEM TO BE SOLVED: To provide a management method and a device for a home network domain allowing sharing of a content by connecting apparatuses with a central focus on consumers.
SOLUTION: This domain management method managing at least one domain by a domain manager positioned inside a home includes: a step for determining whether to register a first apparatus positioned inside the home into the domain or not; and a step for providing data for sharing the content to between an already registered second apparatus and the first apparatus on the basis of a determination result. Thereby, the apparatuses are connected with the central focus on consumers, and the content can be shared to reduce a management burden on a content provider.



(19)日本国特許庁(JP)　(12)公開特許公報(A)　(11)特許出願公開番号
特開2007-183935
(P2007-183935A)
(43)公開日　平成19年7月19日(2007.7.19)

(51)Int.Cl.		F I			テーマコード（参考）
G06F 21/20	(2006.01)	G06F	15/00	330A	5B017
G06F 21/24	(2006.01)	G06F	12/14	530E	5B089
G06Q 10/00	(2006.01)	G06F	17/60	176A	5B285
G06F 13/00	(2006.01)	G06F	12/14	560B	
		G06F	13/00	357A	

審査請求 未請求　請求項の数 42　OL　（全 15 頁）

(21)出願番号　特願2006-332274 (P2006-332274)
(22)出願日　平成18年12月8日 (2006.12.8)
(31)優先権主張番号　60/755,098
(32)優先日　平成18年1月3日 (2006.1.3)
(33)優先権主張国　米国 (US)
(31)優先権主張番号　10-2006-0026985
(32)優先日　平成18年3月24日 (2006.3.24)
(33)優先権主張国　韓国 (KR)

(71)出願人　390019839
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Samsung Electronics Co., Ltd.
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(74)代理人　100091214
弁理士　大貫　進介
(74)代理人　100107766
弁理士　伊東　忠重
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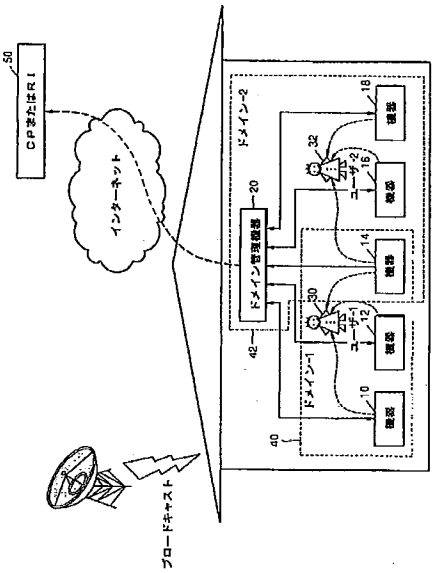
大韓民国京畿道城南市盆唐区金谷洞　青率マウル住公９團地アパート９０３棟４１１号（番地なし）

最終頁に続く

(54)【発明の名称】ドメイン管理方法及びその装置

(57)【要約】
【課題】　ドメイン管理方法及びその装置を提供する。
【解決手段】　ホーム内に位置したドメインマネージャが少なくても一つのドメインを管理する方法において、ホーム内に位置した第１機器をドメインに登録するか否かを決定するステップと、決定結果に基づいて第１機器とドメインに既登録された第２機器との間にコンテンツを共有するためのデータを提供するステップと、を含むドメイン管理方法である。これにより、消費者中心に機器を連結してコンテンツを共有でき、コンテンツ提供者の管理負担を減らしうる。
【選択図】　図２



【特許請求の範囲】
【請求項１】
ホーム内に位置したドメインマネージャが少なくとも一つのドメインを管理する方法において、
前記ホーム内に位置した第１機器をドメインに登録するか否かを決定するステップと、
前記決定結果に基づいて、前記第１機器と前記ドメインに既登録された第２機器との間にコンテンツを共有するためのデータを提供するステップとを含むことを特徴とするドメイン管理方法。
【請求項２】
前記ドメインマネージャを前記ドメインに登録するステップをさらに含むことを特徴とする請求項１に記載のドメイン管理方法。
【請求項３】
前記第１機器との隣接性検査を行うステップをさらに含み、
前記決定するステップは、前記隣接性検査結果に基づいて登録するか否かを決定することを特徴とする請求項１に記載のドメイン管理方法。
【請求項４】
前記データは、
前記ドメインに登録された機器として有効な資格を表すドメインメンバーシップの有効性情報を含むことを特徴とする請求項１に記載のドメイン管理方法。
【請求項５】
前記データは、
前記コンテンツの復号化に使われるドメインキーを含むことを特徴とする請求項１に記載のドメイン管理方法。
【請求項６】
前記管理されるドメインについての情報を、前記ホーム内に位置した機器に提供するステップをさらに含むことを特徴とする請求項１に記載のドメイン管理方法。
【請求項７】
前記データを更新し、前記更新された結果を前記登録された機器に通知するステップをさらに含むことを特徴とする請求項１に記載のドメイン管理方法。
【請求項８】
ドメイン内の登録された機器の変動または保安上の危険を感知して、前記データを更新するか否かを決定するステップをさらに含むことを特徴とする請求項７に記載のドメイン管理方法。
【請求項９】
前記更新結果を通知された機器の要請に応答して、前記更新されたデータを提供するステップをさらに含むことを特徴とする請求項７に記載のドメイン管理方法。
【請求項１０】
セキュアタイム及び機器撤回情報のうち少なくとも一つを含むセキュリティデータを前記登録された機器に提供するステップをさらに含み、
前記セキュアタイムは、ドメイン内のコンテンツの有効時間を算定する基準となる時間情報であり、
前記機器撤回情報は、撤回された機器についての情報であることを特徴とする請求項１に記載のドメイン管理方法。
【請求項１１】
前記セキュリティデータを提供するステップは、
登録された機器から前記セキュリティデータを要請されるステップと、
前記要請した機器に前記セキュリティデータを提供するステップとを含むことを特徴とする請求項１０に記載のドメイン管理方法。
【請求項１２】
前記提供するステップは、

各ドメインに登録された機器のセキュリティデータが最新であるか否かを判断するステップと、

最新でないセキュリティデータを有する登録された機器があると判断されれば、最新のセキュリティデータを前記機器に提供するステップとを含むことを特徴とする請求項１０に記載のドメイン管理方法。

【請求項１３】

機器のドメイン脱退要請によって前記機器に対して保存された機器情報を削除し、前記ドメイン内のコンテンツの共有に必要なデータを更新するステップをさらに含むことを特徴とする請求項１に記載のドメイン管理方法。

【請求項１４】

各ドメインに登録される機器の数または各機器が登録するドメインの数を所定数に制限するステップを含むことを特徴とする請求項１に記載のドメイン管理方法。

【請求項１５】

ホーム内に位置して少なくとも一つのドメインを管理する装置において、

前記ホーム内に位置した第１機器をドメインに登録するか否かを決定し、前記決定結果に基づいて前記第１機器と前記ドメインに既登録された第２機器との間にコンテンツを共有するためのデータを提供するドメインデータ提供部を備えることを特徴とするドメイン管理装置。

【請求項１６】

前記第１機器との隣接性検査を行う隣接性検査部をさらに備え、

前記ドメインデータ提供部は、前記隣接性検査結果に基づいて登録するか否かを決定することを特徴とする請求項１５に記載のドメイン管理装置。

【請求項１７】

前記管理されるドメインについての情報を前記ホーム内に位置した機器に提供するドメイン情報提供部をさらに備えることを特徴とする請求項１５に記載のドメイン管理装置。

【請求項１８】

前記ドメインデータ提供部は、

前記データを更新し、前記更新された結果を前記登録された機器に通知することを特徴とする請求項１５に記載のドメイン管理装置。

【請求項１９】

セキュアタイム及び機器撤回情報のうち少なくとも一つを含むセキュリティデータを前記登録された機器に提供するセキュリティデータ提供部をさらに備え、

前記セキュアタイムは、ドメイン内のコンテンツの有効時間を算定する基準となる時間情報であり、

前記機器撤回情報は、撤回された機器についての情報であることを特徴とする請求項１５に記載のドメイン管理装置。

【請求項２０】

前記登録された機器の機器情報を保存する機器情報保存部をさらに備え、

前記ドメインデータ提供部は、脱退要請した機器の機器情報を前記機器情報保存部から削除し、前記脱退要請されたドメインのドメインデータを更新することを特徴とする請求項１５に記載のドメイン管理装置。

【請求項２１】

請求項１に記載の方法を行うプログラムを収録したコンピュータで読み取り可能な記録媒体。

【請求項２２】

ディバイスをドメインに登録する方法において、

前記ドメインのドメイン情報提供部にドメイン情報を要請するステップと、

前記ドメイン情報提供部から前記ドメインについての情報を受信するステップと、

前記ドメイン情報を利用して前記ドメインのドメインデータ提供部にドメイン登録を要請するステップと、

前記ドメイン情報提供部から前記ドメインのドメインキーを受信するステップとを含むことを特徴とするドメイン登録方法。

【請求項２３】

前記ドメインについての情報は、

ドメイン識別子及び前記ドメイン識別子に該当するドメインのドメインデータ提供部の位置についての情報を含むことを特徴とする請求項２２に記載のドメイン登録方法。

【請求項２４】

前記ドメインについての情報は、

前記ドメイン識別子に該当するドメインのドメイン政策識別子及びユーザ情報をさらに含むことを特徴とする請求項２３に記載のドメイン登録方法。

【請求項２５】

前記ディバイスについての情報を保存するステップをさらに含むことを特徴とする請求項２２に記載のドメイン登録方法。

【請求項２６】

前記ディバイスについての情報は、

ディバイスの識別子が前記ディバイスのドメインメンバーシップ有効性情報を含むことを特徴とする請求項２５に記載のドメイン登録方法。

【請求項２７】

前記ドメインメンバーシップの有効性情報は、

前記ディバイスがドメインのメンバーとして有効な期間を表す情報であることを特徴とする請求項２６に記載のドメイン登録方法。

【請求項２８】

前記ディバイスと前記ドメインデータ提供部との隣接性を検査するステップをさらに含むことを特徴とする請求項２２に記載のドメイン登録方法。

【請求項２９】

ディバイスをドメインに登録する方法において、

前記ディバイスから前記ドメインについての情報を要請を受けるステップと、

前記ドメインについての情報を前記ディバイスに伝送するステップと、

前記ディバイスから前記ドメインへの登録を要請されるステップと、

前記ディバイスの物理的な距離を測定するステップと、

前記ドメインのドメインキーを前記ディバイスに伝送するステップとを含むことを特徴とするディバイス登録方法。

【請求項３０】

前記ドメインについての情報は、ドメイン情報提供部が伝送し、前記ドメインキーはドメインデータ提供部が提供することを特徴とする請求項２９に記載のデバイス登録方法。

【請求項３１】

前記ドメインについての情報は、

ドメイン識別子及び前記ドメイン識別子に該当するドメインのドメインデータ提供部の位置についての情報を含むことを特徴とする請求項３０に記載のデバイス登録方法。

【請求項３２】

前記ドメインについての情報は、

前記ドメイン識別子に該当するドメインのドメイン政策識別子及びユーザ情報をさらに含むことを特徴とする請求項３１に記載のドメイン登録方法。

【請求項３３】

前記ディバイスについての情報を保存するステップをさらに含むことを特徴とする請求項２９に記載のデバイス登録方法。

【請求項３４】

前記ディバイスに対する情報は、

ディバイスの識別子と前記ディバイスのドメインメンバーシップ有効性情報とを含むことを特徴とする請求項３３に記載のデバイス登録方法。

【請求項３５】
前記ドメインメンバーシップ有効性情報は、
前記ディバイスがドメインのメンバーとして有効な期間を表す情報であることを特徴とする請求項３４に記載のデバイス登録方法。
【請求項３６】
一つのドメインで使用可能なコンテンツを生成する方法において、
前記ドメインのセキュリティデータ提供部にセキュアタイムを要請するステップと、
前記セキュアタイムを受信するステップと、
前記セキュアタイムを前記コンテンツが前記ドメインで使用可能なコンテンツとして生成された時間に設定するステップと、を含むことを特徴とするコンテンツ生成方法。
【請求項３７】
前記ドメインの機器撤回情報を要請するステップと、
前記ドメインの機器撤回情報によって前記コンテンツの生成を制御するステップとをさらに含むことを特徴とする請求項３６に記載のコンテンツ生成方法。
【請求項３８】
前記機器撤回情報に前記コンテンツを生成するディバイスの情報が含まれた場合、前記コンテンツの生成を中止するステップを含むことを特徴とする請求項３７に記載のコンテンツ生成方法。
【請求項３９】
前記コンテンツを暗号化するためのドメインキーを要請するステップをさらに含むことを特徴とする請求項３６に記載のコンテンツ生成方法。
【請求項４０】
前記ドメインキーを利用して前記コンテンツの暗号化キーを暗号化するステップをさらに含むことを特徴とする請求項３９に記載のコンテンツ生成方法。
【請求項４１】
ドメインに属する機器から前記ドメインで使用可能なコンテンツの生成時間であるセキュアタイムを要請されるステップと、
前記セキュアタイムを提供するステップと、
前記ドメインに属する機器から前記ドメインに登録されていない機器についての情報であるドメイン機器撤回情報を要請されるステップと、
前記ドメイン機器撤回情報を提供するステップとを含むことを特徴とするコンテンツ生成方法。
【請求項４２】
前記ドメインのドメインキーについての要請を受けるステップと、
前記ドメインキーを伝送するステップとをさらに含むことを特徴とする請求項４１に記載のコンテンツ生成方法。
【発明の詳細な説明】
【技術分野】
【０００１】
本発明は、ドメイン管理方法及び装置に係り、さらに詳細には、ホーム内のコンテンツを再生／共有できるホーム内機器の集合であるドメインを消費者中心に管理する装置及び方法に関する。
【背景技術】
【０００２】
最近、ホーム内で放送、音楽、ゲームなどを楽しめる機器が多様になり、機器で使用できるコンテンツも豊富になる趨勢で、消費者は、それらの有する多様な機器でコンテンツを便利に共有しようとする要求をしている。このような要求事項に相応して、消費者中心に機器を連結してコンテンツを共有可能にするホームネットワークドメインについての研究が活発に進められている。
【０００３】

図１は、ホーム内でコンテンツを共有する一般的な方法を示す図である。図１を参照して説明すれば、コンテンツを提供するコンテンツ提供者（コンテンツ　プロバイダ：ＣＰ）６、コンテンツに対するライセンスを提供する権限発行者（ライト　イシュアー：ＲＩ）６が存在し、これらが提供するコンテンツを使用するユーザ５は、これらＣＰまたはＲＩにユーザ情報を通じて登録した後にコンテンツを獲得しうる。ドメイン構成のためにユーザだけでなく、ユーザが使用する機器１，２，３，４もインターネットまたは通信線を通じてドメイン管理機能を有するＣＰ　６またはＲＩ　６に連結して登録し、ドメインについての情報及びドメイン内のコンテンツ共有のために必要な情報を提供される。ここで、ドメインとは、コンテンツが共有される機器の集合を意味し、このようなドメインは、インターネットを通じて接続されるＣＰまたはＲＩによって構成されかつ管理される。

【０００４】

すなわち、ユーザはもとより、ユーザが使用する機器を、インターネットを通じてＣＰまたはＲＩに登録し、ＣＰからコンテンツ共有のために必要な情報を受ける。このような登録過程以後に登録された機器の間でコンテンツ共有が起きる。

【０００５】

しかし、このような方法は、ドメインを管理する機能を有する主体、例えば、ＣＰまたはＲＩとホーム外部のインターネットを通じて連結せねばならない。すなわち、コンテンツ共有、保安及び各種の管理のために、ドメイン関連データ及びセキュリティデータの更新が何れもインターネット連結を要する。

【０００６】

したがって、コンテンツの活用のために全ての機器がインターネットでホーム外部と連結されて初めて、正常的にコンテンツを活用できる前述した一般的な方法は、ユーザの便宜上、非効率的であり、かつ不便なシステムである。また、インターネット上のＣＰまたはＲＩは、やはり各ユーザの情報を管理し、個々のユーザごとに有するドメインを管理することが相当な負担となる。

【発明の開示】

【発明が解決しようとする課題】

【０００７】

本発明が解決しようとする技術的課題は、消費者中心に機器を連結してコンテンツを共有可能にするホームネットワークドメインの管理方法及び装置を提供することである。

【課題を解決するための手段】

【０００８】

前記課題を達成するための本発明によるドメイン管理方法は、ホーム内に位置したドメインマネージャが少なくても一つのドメインを管理する方法において、前記ホーム内に位置した第１機器をドメインに登録するか否かを決定するステップと、前記決定結果に基づいて前記第１機器と前記ドメインに既登録された第２機器との間にコンテンツを共有するためのデータを提供するステップとを含む。

【０００９】

前記課題を達成するための本発明によるドメイン管理装置は、ホーム内に位置して少なくとも一つのドメインを管理する装置において、前記ホーム内に位置した第１機器をドメインに登録するか否かを決定し、前記決定結果に基づいて前記第１機器と前記ドメインに既登録の第２機器との間にコンテンツを共有するためのデータを提供するドメインデータ提供部を備える。

【発明の効果】

【００１０】

本発明によれば、ホーム内に位置した管理機器が、他の機器にホーム内に設定されたドメインについての情報、ドメイン内のコンテンツ活用に必要な情報、ドメインの保安と関連したセキュリティ情報を提供する機能を有することによって、管理機器は、ユーザ中心に効率的かつ安全にドメインを管理及び維持でき、ドメインに含まれる機器が何れも外部ネットワークに接続する機能を有さずとも、ドメイン加入及び活動が可能である。また、

ユーザは、多様なコンテンツソースからコンテンツを受けて使用しても同じドメインを維持し、ドメイン内の機器が多様なコンテンツソースから受けたコンテンツを同一に共有可能であり、各コンテンツソース別にドメインを構成する場合に、それぞれのコンテンツ提供者への登録の面倒さを避けうる。

【発明を実施するための最良の形態】

【００１１】

以下、添付された図面を参照して本発明による方法及び装置について詳細に説明する。

【００１２】

本発明は、消費者中心に機器を連結してコンテンツを共有可能にするホームネットワークドメインの管理方法及び装置である。すなわち、ユーザ機器からなるドメインを管理する機能を有する機器をホーム内に置くことによって、ユーザの便宜性を向上させ、コンテンツ提供者の負担を減らしうる。

【００１３】

図２は、本発明の一実施形態によるドメイン管理装置を備えるシステムを表す。図２を参照するに、そのシステムは、５個のユーザの機器１０，１２，１４，１６，１８を備え、ドメイン管理機器２０及びＣＰまたはＲＩ　５０を備える。

【００１４】

本発明によるドメイン管理機器２０は、ホーム内に位置してドメイン４０，４２を管理する役割を行う。ここで、ドメインを管理する作業の例としては、ドメインを初期生成し、ホーム内の機器を前記生成されたドメインに前記ドメインのドメイン政策によって登録した後、管理し、前記登録された機器がドメインを脱退することを管理することが挙げられる。ここで、ドメインの初期生成作業の例としては、ドメイン識別子、ドメインキーの生成が挙げられる。また、登録された機器を管理するという意味は、登録された機器がドメインに該当するコンテンツを安全に共有または再生しうるように管理することを意味し、具体的な例としては、機器のドメイン登録／脱退、リンク生成、ドメインメンバーシップ管理、ドメインキーの生成／更新が挙げられる。本発明によるドメイン管理機器２０は、他の機器１０，１２，１４，１６，１８を代表してインターネットでＣＰまたはＲＩ　５０に接続してコンテンツ活用権限に対する認証を受け、従来の方法とは異なり、他の機器１０，１２，１４，１６，１８についての機器情報をＣＰまたはＲＩ　５０に提供せずとも前記認証を受けうる。

【００１５】

また、本発明によるドメイン管理機器２０は、自身がドメイン２Ｆ４２に登録して、ドメイン内のコンテンツを活用する機能を有しうる。これは、ドメイン管理機器２０は、前述した従来のドメイン管理機能を有するＣＰまたはＲＩとは異なり、ユーザに属する機器であるために可能である。

【００１６】

一方、図２を参照するに、ユーザ１　３０、ユーザ２　３２別にそれぞれのドメイン１　４０、ドメイン２　４２を形成し、ドメイン１　４０には、そのドメインメンバーとして機器１０，１２，１４があり、ドメイン２　４２には、機器１６，１８があるということが分かる。しかし、本発明は、図２とは異なり、ユーザ基盤のドメインではない、単純に機器のみの集合で構成されたドメインを管理するＤＲＭ政策にも適用されうるということは、当業者には自明な事実である。

【００１７】

図３は、図２のドメイン管理機器２０の具体的な構成を例示するブロック図であって、インターフェース３００、ドメイン情報管理部３１０、ドメイン情報提供部３２０、ドメインデータ管理部３３０、ドメインデータ提供部３４０、隣接性検査部３５０、機器情報管理部３６０及びセキュリティデータ提供部３７０を備えて形成される。

【００１８】

インターフェース３００は、他の機器１０，１２，１４，１６，１８と通信を行う。

【００１９】

ドメイン情報管理部３１０は、ユーザの入力を受け、少なくとも一つのドメインを生成し、前記生成されたドメインについての情報を設定及び管理する。ここで、ユーザの入力によって初期化されて設定される情報の例としては、各ドメインに対するドメイン識別子、ドメイン政策識別子、ユーザ情報、ドメイン内のコンテンツの活用に必要なデータを提供する機器の位置情報が挙げられる。一方、後述するが、ドメインデータ管理部３３０に保存されるドメインキーもユーザの入力によって設定されうる。ここで、ユーザ情報の例としては、ユーザ識別子、パスワードが挙げられ、このようなユーザ情報は、前述したドメイン識別子またはドメインキーと関連させうるが、その例としては、後述するドメイン情報の提供時にユーザ識別子を提供して、前記ドメインが前記ユーザ識別子によって特定されるユーザに属するということを知らせること、パスワードまたはユーザ情報を利用したドメインキーの生成または暗号化などが挙げられる。また、ドメインと関連したユーザ情報は、ドメインに機器を登録または脱退する時に行われるユーザ確認過程にも使われうる。

【００２０】

ドメイン情報提供部３２０は、前記生成されたドメインについての情報をドメイン情報管理部３１０から読み取って前記ホーム内に位置した機器１０，１２，１４，１６，１８に提供する。提供する方法の例としては、機器１０，１２，１４，１６，１８の要請によって提供するか、または要請と関係なく、一定周期ごとに前記情報を提供する方法が挙げられるが、必ずしもこれに限定されるものではない。ここで、提供される情報は、前述したように、ドメイン情報管理部３１０に保存された情報が挙げられる。

【００２１】

ドメインデータ管理部３３０は、ドメイン内コンテンツを共有するためのデータを保存する。ここで、保存されるデータの例としては、ドメイン内コンテンツの復号化に使われるドメインキーが挙げられる。

【００２２】

ドメインデータ提供部３４０は、ホーム内に位置した機器をドメインに登録するか否かを決定し、前記登録決定された機器にドメイン内コンテンツを共有するためのデータを提供する。ここで、提供されるデータの例としては、ドメインキー、ドメインメンバーシップ有効性情報が挙げられる。ドメインメンバーシップ有効性情報については後述する。

【００２３】

一方、ドメイン政策が隣接性要件、機器情報の有効性要件を充足する機器に対してのみ登録すると決まったならば、ドメインデータ提供部３４０は、隣接性検査の結果及び機器の有効性要件を充足するか否かを基礎として登録如何を決定する。ここで、機器の有効性検査とは、ドメイン管理機器２０が管理する対象となる機器であるか否かを検査することであり、隣接性検査の例としては、ドメイン管理機器２０と機器との物理的距離が物理的距離の制限条件を満足させるか否かの検査が挙げられるが、必ずしもこれに限定されるものではない。

【００２４】

隣接性検査部３５０は、ドメインデータ提供部３４０の制御によってドメイン管理機器２０自体と機器との隣接性を検査し、隣接性検査の結果をドメインデータ提供部３４０に提供する。

【００２５】

機器情報保存部３６０は、登録決定された機器についての機器情報を保存する。ここで、保存される機器情報の例としては、登録要請した機器から受信された機器識別子、機器キー及び登録決定時にドメインデータ提供部３４０によって生成されるドメインメンバーシップ有効性情報が挙げられる。機器キーは、ドメイン管理機器２０から機器に伝送する経路上のデータの暗号化に使われ、そのデータの例としては、ドメインキーが挙げられる。また、ドメインメンバーシップ有効性情報は、ドメインに登録された機器として有効な資格を表す情報を表し、その例としては、登録された機器がドメインメンバーとして有効な期間がいつまでであるかを表す時間情報が挙げられる。

【００２６】
以上の内容は、ドメイン生成、ドメインメンバー登録及びコンテンツの共有のためのデータの提供を中心に説明し、その次にコンテンツの共有のためのデータの更新過程を図３を参照して説明する。
【００２７】
ドメインデータ提供部３４０は、前述した機能以外にコンテンツの共有のためのデータを更新し、その更新されたデータをドメインデータ管理部３３０に保存した後、その更新された結果を登録された機器に通知する機能を行う。ここで、更新するか否かを決定する方法の例としては、ドメイン内の登録された機器の変動または保安上の危険を感知して決定することが挙げられる。また、ドメインデータ提供部３４０は、前記更新結果を通知された機器の要請に応答して、前記更新されたデータをドメインデータ管理部３３０から読み取って前記要請した機器に提供する。
【００２８】
セキュリティデータ提供部３７０は、セキュアタイム、機器撤回情報のように、保安と関連したセキュリティデータを登録された機器に提供する。ここで、セキュアタイムは、ドメイン内のコンテンツの有効時間を算定する基準となる時間情報であって、コンテンツインポーティング時に使われる。また、機器撤回情報は、所定の理由によって撤回された機器についての情報を意味し、撤回された機器は、他の機器とコンテンツを共有できなくなる。
【００２９】
一方、ドメインデータ提供部３４０は、登録された機器から脱退要請をインターフェース３００を通じて受けた場合、前記脱退要請した機器についての機器情報を前記機器情報保存部３６０から削除し、前記脱退要請されたドメインのコンテンツの共有に必要なデータを更新する。
【００３０】
図４は、本発明の一実施形態によるドメイン管理方法において、ドメイン生成、メンバー登録及びデータ伝達過程を表すフローチャートである。図４を参照するに、ドメイン管理機器２０は、少なくとも一つのドメインを生成し、前記生成されたドメインについての情報がドメイン情報管理部３１０に保存される（Ｓ４００）。すなわち、ドメイン情報管理部３１０は、ドメイン生成のためにユーザが入力した情報によって初期化されて安全に保存される。初期化される情報の例としては、前述したように、各ドメインに対するドメイン識別子、ドメイン政策識別子及びドメインキー、ユーザ情報、ドメイン内のコンテンツ活用のためのデータを提供する機器の位置情報が挙げられる。一方、Ｓ４００またはその以後に、ドメイン管理機器２０は、自身をドメインに登録し、前記ドメイン内のコンテンツの共有に必要なデータを保存しうる。このデータの例としては、ドメインキー、ドメインメンバーシップ有効性情報が挙げられる。
【００３１】
次いで、ドメイン情報保存部３２０は、ホーム内に位置した機器１０，１２，１４，１６，１８から前記生成されたドメインについての情報を要請され、その応答としてドメイン情報管理部３１０から読み取って前記要請した機器１２に提供する（Ｓ４１０）。その後、機器１２は、提供された情報に基づいてドメイン２　４２に加入することを決定し、ドメイン管理機器２０に登録を要請する。ここで、登録要請時、機器１２の機器識別子、機器キーがドメイン管理機器２０に提供され、これは、インターフェース３００を通じてドメインデータ提供部３４０に伝達される。
【００３２】
ドメインデータ提供部３４０は、機器１２をドメイン２　４２に登録するか否かを決定するが、隣接性検査部３５０による隣接性検査の結果、機器の有効性検査に基づいて登録如何を決定する（Ｓ４２０）。このような検査は、ドメイン２　４２のドメイン政策によって行われる。
【００３３】

ドメインデータ提供部３４０は、ドメイン内のコンテンツの共有のためのデータを機器１２に安全に提供する（Ｓ４３０）。このためにドメインデータ提供部３４０が行う過程の例としては、機器１２についてのドメインメンバーシップ有効性情報を生成し、ドメインデータ管理部３３０からドメインキーを読み取ってＳ４１０で提供された機器キーを利用して前記読み取られたドメインキー及び前記生成されたドメインメンバーシップ有効性情報を暗号化する過程が挙げられる。一方、ここで、提供されるデータの例として、ドメインキー、ドメインメンバーシップ有効性情報のみを述べたが、これだけでなく、機器１２がドメイン２　４２に属するというリンク情報も共に提供されうるというのは、当業者には自明な事実である。

【００３４】

この後、ドメインデータ提供部３４０は、Ｓ４３０で生成されたドメインメンバーシップ有効性情報やＳ４１０で提供された機器識別子、機器キーを機器情報管理部３６０に保存する（Ｓ４４０）。

【００３５】

以後、機器１２は、ドメイン２　４２に属するコンテンツをドメインキーを利用した復号化を通じて再生または共有しうる。

【００３６】

図５は、本発明の一実施形態によるドメイン管理方法において、データ更新過程を表すフローチャートである。すなわち、ドメイン内のコンテンツの共有に必要なデータを更新する一実施形態を表し、図２で、ドメイン２　４２のデータ更新状況を前提として図３を参照して説明する。

【００３７】

まず、ドメインデータ提供部３４０は、ドメイン内のコンテンツの共有のためのデータを更新するか否かを決定する（Ｓ５００）。ここで、決定する方法の例としては、ドメインに登録された機器が脱退するなどドメインメンバーの変動が生じるか、またはドメインキーが流出されるなどの保安上の危険を感知して更新如何を決定する方法が挙げられる。

【００３８】

次いで、ドメインデータ提供部３４０は、前記決定によってデータを更新した後、前記更新されたデータをドメインデータ管理部３３０に保存し、前記更新事実を前記ドメインに登録された機器１４，１６，１８に通知する（Ｓ５１０）。更新されるデータの例としては、ドメインキーが挙げられる。

【００３９】

この後、更新事実を通知された機器１４の要請によって、ドメインデータ提供部３４０は、Ｓ５１０で更新されたデータを機器１４に安全に伝達する（Ｓ５２０）。一方、Ｓ５１０で通知される更新事実及びＳ５２０で伝えられるデータは、保存された機器情報を通じた暗号化過程を経うる。このような暗号化方法の例としては、機器１４の機器キーとして暗号化することが挙げられる。

【００４０】

Ｓ５２０を通じて更新されたデータを伝達された機器１４は、更新されたデータを保存する。以後のドメイン内のコンテンツは、更新されたドメインキーを利用して暗号化されかつ共有されて、脱退した機器（機器脱退によってドメインキーが更新された場合）あるいはハッキングのように、保安上危険に処した機器（保安上危険な問題の発生によってドメインキーが更新された場合）は、更新されたドメインキーを受けられなかったため、以後のコンテンツ共有は不可能になる。

【００４１】

図６Ａ及び図６Ｂは、本発明の一実施形態によるドメイン管理方法において、セキュリティデータ提供過程を表すフローチャートである。ここで、セキュリティデータは、前述したように、セキュアタイム、機器撤回情報を含む保安と関連したデータである。

【００４２】

図６Ａは、本発明の一実施形態によるセキュアタイムを提供するドメイン管理方法を表

すフローチャートである。図６Ａには示されていないが、Ｓ６００以前にドメイン生成及び機器登録がなされていることを前提とする。

【００４３】

図６Ａを参照するに、まず、セキュリティデータ提供部３７０は、ドメインに登録された機器からセキュアタイムを要請される（Ｓ６００）。機器がセキュアタイムを要請する場合の例としては、機器がコンテンツをインポーティングする場合が挙げられる。インポーティング時、コンテンツがいつからドメイン用コンテンツとして使われたかを表すためのタイムスタンピングが必要になるが、その基準となる時間がセキュアタイムであるためである。このようなタイムスタンピングは、インポーティング当時のドメインメンバーであった機器が以後に脱退しても、脱退した時間とコンテンツがインポーティングされた時間とを比較して、脱退以前にドメインで共有したコンテンツは、相変わらず使用可能にするための方法として使われる。

【００４４】

その後、セキュリティデータ提供部３７０は、前記要請した機器にセキュアタイムを提供する（Ｓ６１０）。この後、機器は、提供されたセキュアタイムを利用してコンテンツインポーティングを行う。

【００４５】

図６Ｂは、本発明の一実施形態による機器撤回情報を提供するドメイン管理方法を表すフローチャートである。図６Ｂには示されていないが、Ｓ６００以前にドメイン生成及び機器登録がなされていることを前提とする。

【００４６】

図６Ｂを参照するに、まず、セキュリティデータ提供部３７０は、各ドメインに登録された機器に保存されたセキュリティデータが最新であるか否かを判断する（Ｓ６５０）。ここで、ドメインに登録された機器が以前の機器撤回情報であれば、その機器撤回情報が発行された以後に、ドメインを脱退した機器とコンテンツを共有しないようにするために、ドメイン内の登録された機器に保存された機器撤回情報が最新であるか否かを判断し、これにより、登録された機器に保存された機器撤回情報を更新させる。

【００４７】

その後、最新のデータを有していない機器があると判断されれば、セキュリティデータ提供部３７０は、自身が有する最新の機器撤回情報を前記機器に提供する（Ｓ６６０）。

【００４８】

以後、ドメイン内の機器は、ドメイン管理機器２０から提供された機器撤回情報を活用してドメイン内のコンテンツを安全に共有しうる。

【００４９】

図７は、本発明の一実施形態によるドメイン管理方法において、脱退処理過程を表すフローチャートである。図２で、機器１８がドメイン２　４２を脱退する状況を前提として図３を参照して説明する。

【００５０】

図７を参照するに、まず、ドメインデータ提供部３４０は、機器１８から脱退を要請される（Ｓ７００）。すなわち、ドメインに登録されている機器のうち、それ以上ドメイン内のコンテンツ共有を所望しない機器からドメイン脱退を要請される。

【００５１】

その後、ドメインデータ提供部３４０は、前記要請した機器１８の機器情報を機器情報管理部３６０から削除し、前記ドメイン内のコンテンツ共有に必要なデータを前記ドメインのドメイン政策によって更新する（Ｓ７１０）。以後、更新結果及び更新されたデータは、図５で説明したように伝えられる。その結果、ドメインから脱退したユーザ機器は、以前ドメインキーを利用して、脱退以後にドメインに入ったコンテンツをそれ以上共有できなくなる。

【００５２】

一方、ドメイン政策が各ドメインに登録される機器の数または各機器が登録するドメイ

ンの数を所定数に制限するように設定されているならば、これに基づいて、ドメイン管理機器２０は、登録過程を行う。このようなドメイン政策による管理方法によれば、ドメイン管理機器側でもコンテンツ提供者側でも何れも管理負担が減る効果がある。

【００５３】

本発明はまた、コンピュータで読み取り可能な記録媒体にコンピュータで読み取り可能なコードとして具現することが可能である。コンピュータで読み取り可能な記録媒体は、コンピュータシステムによって読み取られるデータが保存される全ての種類の記録装置を含む。コンピュータで読み取り可能な記録媒体の例としては、ＲＯＭ、ＲＡＭ、ＣＤ－ＲＯＭ、磁気テープ、フロッピー（登録商標）ディスク、光データ保存装置があり、またキャリアウェーブ（例えば、インターネットを通じた伝送）形態で具現されるものも含む。また、コンピュータで読み取り可能な記録媒体は、ネットワークに連結されたコンピュータシステムに分散され、分散方式でコンピュータで読み取り可能なコードが保存されかつ実行されうる。そして、本発明を具現するための機能的なプログラム、コード及びコードセグメントは、本発明が属する技術分野のプログラマーによって容易に推論されうる。

【００５４】

本発明は、図面に示した実施形態を参照して説明されたが、それは、例示的なものに過ぎず、当業者ならば、これから多様な変形及び均等な他の実施形態が可能であるということが分かるであろう。したがって、本発明の真の技術的保護範囲は、特許請求の範囲の技術的思想によって決定されねばならない。

【産業上の利用可能性】

【００５５】

本発明は、ホームネットワークドメイン関連の技術分野に好適に適用可能である。

【図面の簡単な説明】

【００５６】

【図１】ホーム内でコンテンツを共有する一般的な方法を示す図である。

【図２】本発明の一実施形態によるドメイン管理装置を備えるシステムを示す図である。

【図３】図２のドメイン管理機器の具体的な構成を例示するブロック図である。

【図４】本発明の一実施形態によるドメイン管理方法において、ドメイン生成、メンバー登録及びデータ伝達過程を示すフローチャートである。

【図５】本発明の一実施形態によるドメイン管理方法において、データ更新過程を示すフローチャートである。

【図６Ａ】本発明の一実施形態によるドメイン管理方法において、セキュリティデータ提供過程を示すフローチャートである。

【図６Ｂ】本発明の一実施形態によるドメイン管理方法において、セキュリティデータ提供過程を示すフローチャートである。

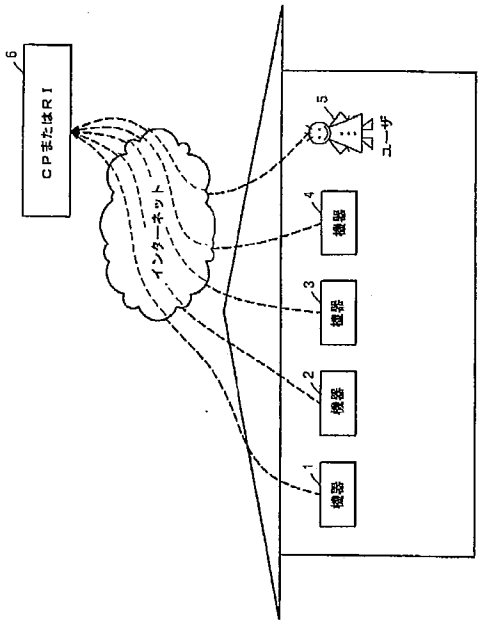
【図７】本発明の一実施形態によるドメイン管理方法において、脱退処理過程を示すフローチャートである。

【符号の説明】

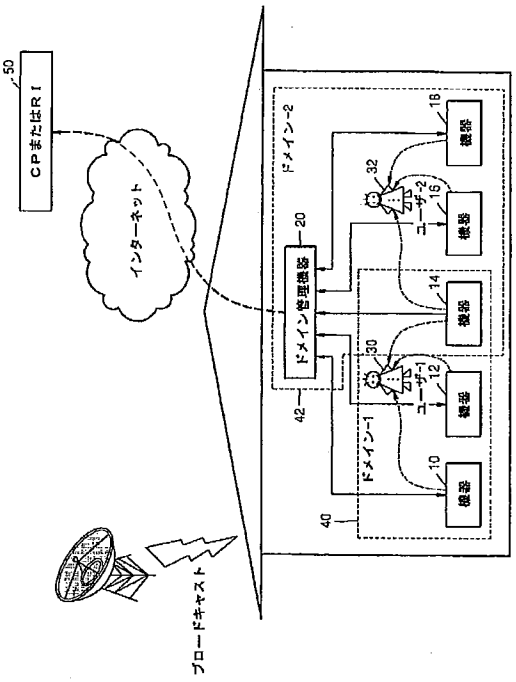
【００５７】

１０，１２，１４，１６，１８　機器
２０　ドメイン関連機器
３０　ユーザ１
３２　ユーザ２
４０　ドメイン１
４２　ドメイン２
５０　ＣＰまたはＲＩ

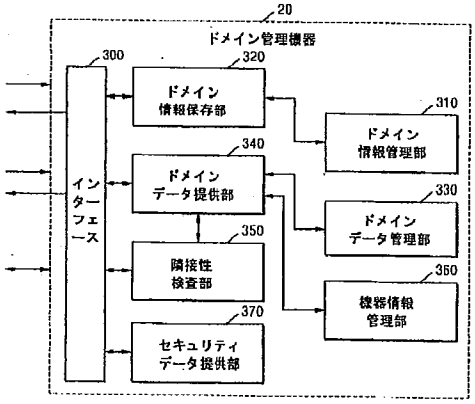
【図１】


CPまたはRI
6
インターネット
ユーザ
5
機器
4
機器
3
機器
2
機器
1

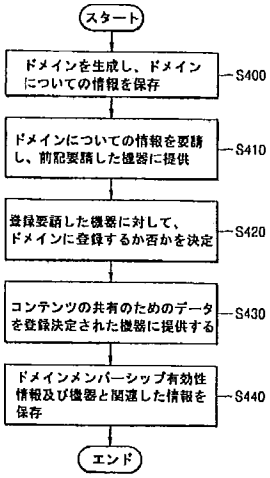
【図２】


CPまたはRI
50
インターネット
ドメイン-2
ドメイン管理機器
20
ユーザ-2
32
ユーザ-1
30
ドメイン-1
42
40
機器
18
16
14
12
10
ブロードキャスト

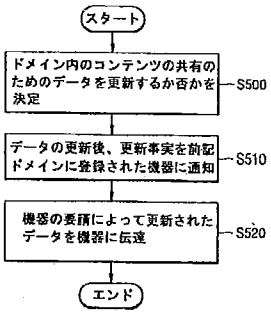
【図３】


20
ドメイン管理機器
300
インターフェース
320
ドメイン情報保存部
310
ドメイン情報管理部
340
ドメインデータ提供部
330
ドメインデータ管理部
350
隣接性検査部
360
機器情報管理部
370
セキュリティデータ提供部

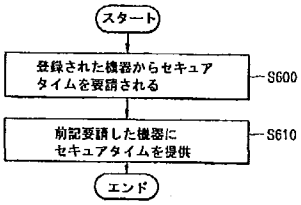
【図４】


スタート
ドメインを生成し、ドメインについての情報を保存
S400
ドメインについての情報を要請し、前記要請した機器に提供
S410
登録要請した機器に対して、ドメインに登録するか否かを決定
S420
コンテンツの共有のためのデータを登録決定された機器に提供する
S430
ドメインメンバーシップ有効性情報及び機器と関連した情報を保存
S440
エンド

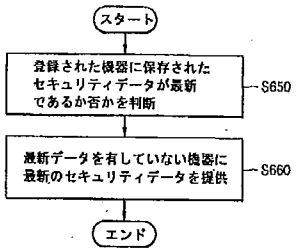
【図５】


スタート
ドメイン内のコンテンツの共有のためのデータを更新するか否かを決定
S500
データの更新後、更新事実を前記ドメインに登録された機器に通知
S510
機器の要請によって更新されたデータを機器に伝達
S520
エンド

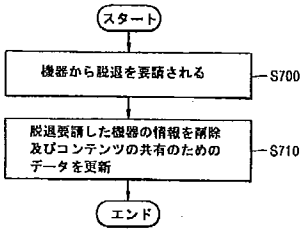
【図６Ａ】


スタート
登録された機器からセキュアタイムを要請される
S600
前記要請した機器にセキュアタイムを提供
S610
エンド

【図６Ｂ】


スタート
登録された機器に保存されたセキュリティデータが最新であるか否かを判断
S650
最新データを有していない機器に最新のセキュリティデータを提供
S660
エンド

【図７】


スタート
機器から脱退を要請される
S700
脱退要請した機器の情報を削除及びコンテンツの共有のためのデータを更新
S710
エンド

フロントページの続き

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Ｆターム(参考) 5B017 AA01 CA16
5B089 GA21 HA06 JA35 KA13
5B285 AA02 BA09 CA04 CA12 CA13 CA17 CA41 DA05

(19) KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11) Publication number: 1020050028244 A

(43) Publication date: 22.03.2005

(21) Application number: 1020030064861

(22) Application date: 18.09.2003

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(51) Int. Cl: G06F 17/00

(54) METHOD FOR LICENSING DRM SUPPORTING MULTIPLE DEVICES TO PROCESS DIGITAL INFORMATION

(57) Abstract:

PURPOSE: A method for licensing the DRM(Digital Right Management) supporting multiple devices to process digital information is provided to enable a contents user to conveniently use contents in diverse DRM environments by making the contents executed on multiple devices with use of a license structure for playing DRM contents.

CONSTITUTION: As the contents including license information is transmitted to the devices(530-550), the license information includes unique IDs for more than two devices to play the contents. The contents are received from a DRM server(520) and the IDs are extracted from the license information. In case that the same ID as the ID of device is present among the extracted IDs, the contents are played.

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Legal Status

Date of request for an examination (20030918)

Notification date of refusal decision (00000000)

Final disposal of an application (registration)

Date of final disposal of an application (20050504)

Patent registration number (1004939040000)

Date of registration (20050527)

Number of opposition against the grant of a patent ( )

Date of opposition against the grant of a patent (00000000)

Number of trial against decision to refuse ( )

Date of requesting trial against decision to refuse ( )

Date of extinction of right ( )

(19)대한민국특허청(KR)
(12) 등록특허공보(B1)

(51) 。 Int. Cl.[7]
G06F 17/00

(45) 공고일자 2005년06월10일
(11) 등록번호 10-0493904
(24) 등록일자 2005년05월27일

(21) 출원번호 10-2003-0064861
(22) 출원일자 2003년09월18일
(65) 공개번호 10-2005-0028244
(43) 공개일자 2005년03월22일

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(54) 다수의 기기를 지원하는 DRM 라이센스 방법

요약

본 발명은 DRM 라이센스에 관한 발명으로서, 본 발명에 따른 다수의 기기를 지원하는 DRM 라이센스 방법은 라이센스 정보를 포함하는 컨텐츠를 전송하는데, 상기 라이센스 정보는 상기 컨텐츠를 재생할 수 있는 2이상의 기기들에 대한 각각의 고유한 식별자를 포함하는 제1단계와, 상기 컨텐츠를 수신하고, 상기 라이센스 정보로부터 상기 식별자들을 추출하는 제2단계, 및 상기 추출한 식별자들 중 자신의 식별자와 동일한 식별자가 존재하는 경우 상기 컨텐츠를 재생하는 제3단계를 포함하는 것을 특징으로 한다.

대표도

도 5

색인어

DRM 라이센스

명세서

도면의 간단한 설명

도 1은 종래의 일반적인 DRM 라이센스를 구조를 나타내는 예시도이다.

도 2는 종래의 일반적인 DRM 라이센스를 구조를 나타내는 또다른 예시도이다.

도 3은 본 발명의 실시에 따라 DRM 라이센스 구조에 다수의 기기 식별자를 기술하는 것을 나타내는 예시도이다.

도 4는 본 발명의 실시에 따라 DRM 라이센스 구조에 특정한 도메인 식별자를 기술하는 것을 나타내는 예시도이다.

도 5는 본 발명의 실시에 따라 DRM 서버를 중심으로 DRM 라이센스를 관리하는 것을 나타내는 예시도이다.

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도 6은 본 발명의 실시에 따라 컨텐츠를 재생하는 기기의 갯수를 제한하기 위한 DRM 라이센스 구조를 나타내는 예시도이다.

발명의 상세한 설명

발명의 목적

발명이 속하는 기술 및 그 분야의 종래기술

본 발명은 DRM 라이센스에 관한 것으로서, 보다 상세하게는 디지털 정보를 처리할 수 있는 다수의 기기를 지원하는 DRM 라이센스 방법에 관한 것이다.

일반적으로 종래의 DRM 기술은 수요자가 구입한 컨텐츠(content)와 상기 컨텐츠(content)를 위한 라이센스의 내용에 따라 하나의 기기에서만 재생이 가능하였다.

즉, 일반적으로 종래의 DRM 환경에서는 수요자가 컨텐츠(content)를 컨텐츠 공급자(content provider)로부터 공급받고, 상기 컨텐츠(content)에 해당하는 라이센스를 구입하게 된다. 이 때, 라이센스는 하나의 기기에 대해서만 적용이 가능하도록 되어 있는데, 여기에는 기기 바인딩(device binding) 방식과 사용자 바인딩(user binding) 방식이 있다.

기기 바인딩(device binding) 방식은 수요자가 구입한 라이센스가 기기(device)에 종속되어 해당하는 기기(device)에서만 컨텐츠의 재생이 가능하도록 하는 방식이다. 그리고, 사용자 바인딩(user binding) 방식은 구입한 라이센스가 사용자(user)에게 종속되는 경우로서, 예컨대 SIM(Subscriber Identification Module) 카드 또는 스마트 카드 등을 이용하는 방법이 있다.

도 1은 종래의 일반적인 DRM 라이센스를 구조를 나타내는 예시도로서, XML(eXtentsible Markup Language)을 이용하여 표현하고 있다.

1라인 내지 5라인에서는 DRM 라이센스의 시작을 나타내며 XML의 해석을 위한 정보를 나타내는 XML 네임스페이스에 대한 정보를 기술하고 있다.

6라인 내지 8라인에서는 DRM 라이센스가 적용되는 DRM 시스템의 버전 정보를 기술하고 있다.

9라인 내지 21라인은 컨텐츠 정보와 DRM 라이센스의 구체적인 내용을 포함하며, 각각 <asset>엘리먼트와 <permission>엘리먼트로 표현하고 있다.

<asset>엘리먼트는 11라인 내지 13라인에서 DRM 라이센스가 적용되는 컨텐츠의 식별자(identifier)를 기술하고, 14라인 내지 16라인에서는 암호화된 컨텐츠를 복호할 수 있는 컨텐츠 암호 키(Content Encryption Key, CEK) 정보를 기술하고 있다.

<permission> 엘리먼트는 18라인 내지 20라인에서 컨텐츠 재생이 가능함을 기술하고 있다.

도 2는 종래의 일반적인 DRM 라이센스를 구조를 나타내는 또다른 예시도로서, 19라인 내지 23라인에서는 컨텐츠를 디스플레이할 수는 있지만 1회만 허용하고 있음을 기술하고 있다. 20라인의 <constraint>엘리먼트는 <count>엘리먼트 이외에도 <interval>, <accumulated>, <start>, <end>와 같은 엘리먼트들을 포함할 수 있다.

<interval>엘리먼트는 컨텐츠를 사용할 수 있는 기간을 나타내며, 그 시작 시점은 컨텐츠를 최초로 사용한 시점이다. 예를 들어, <interval>엘리먼트의 값이 '10d'로 표현되면, 컨텐츠를 사용한 시점부터 10일 동안 컨텐츠를 자유롭게 사용할 수 있다.

<accumulated>엘리먼트는 컨텐츠의 사용이 최대로 축적될 수 있는 시간을 의미한다. 예를 들어, '10h'라고 하면 전체 컨텐츠의 재생 시간이 10시간 이상이 되어서는 안되는 것을 의미한다.

<start>와 <end>엘리먼트는 함께 기술되는데, <start>엘리먼트에서 지정하는 날짜부터 <end>에서 지정하는 날짜까지 자유롭게 사용할 수 있음을 기술하고 있다.

현재 DRM에 관한 대표적 기술로는 마이크로소프트사의 DRM, OMA DRM 등이 있으며, 일반적으로 라이센스가 바인딩된 단일의 기기에서만 컨텐츠의 재생이 가능하도록 되어 있으므로, 사용자가 여러 기기를 소유하고 있는 경우에는 하나의 컨텐츠와 이에 해당하는 라이센스를 이용하여 다양한 기기에서 컨텐츠를 재생할 수 없는 불편함이 있다.

발명이 이루고자 하는 기술적 과제

본 발명은 상기한 문제점을 해결하기 위해 안출된 것으로, 다양한 기기에서 디지털 컨텐츠를 재생할 수 있는 라이센스 구조를 제시하고, 상기 구조를 이용하여 디지털 컨텐츠를 여러 기기에서 재생하는 방법을 제안한다.

발명의 구성 및 작용

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상기 목적을 달성하기 위하여, 본 발명의 실시에 따른 다수의 기기를 지원하는 DRM 라이센스 방법은 라이센스 정보를 포함하는 컨텐츠를 전송하는데, 상기 라이센스 정보는 상기 컨텐츠를 재생할 수 있는 2이상의 기기들에 대한 각각의 고유한 식별자를 포함하는 제1단계와, 상기 컨텐츠를 수신하고, 상기 라이센스 정보로부터 상기 식별자들을 추출하는 제2단계, 및 상기 추출한 식별자들 중 자신의 식별자와 동일한 식별자가 존재하는 경우 상기 컨텐츠를 재생하는 제3단계를 포함한다.

또한 상기 목적을 달성하기 위하여, 본 발명의 실시에 따른 다수의 기기를 지원하는 DRM 라이센스 방법은 라이센스 정보를 포함하는 컨텐츠를 전송하는데, 상기 라이센스 정보는 상기 컨텐츠를 재생할 수 있는 2이상의 기기들이 속하는 논리적 영역을 구별시키는 고유한 식별자를 포함하는 제1단계와, 상기 컨텐츠를 수신하고, 상기 라이센스 정보로부터 상기 식별자를 추출하는 제2단계, 및 상기 추출한 식별자가 기기 자신이 속하는 영역의 식별자와 동일한 경우 상기 컨텐츠를 재생하는 제3단계를 포함한다.

또한 상기 목적을 달성하기 위하여, 본 발명의 실시에 따른 다수의 기기를 지원하는 DRM 라이센스 방법은 라이센스 정보를 포함하는 컨텐츠를 전송하는데, 상기 라이센스 정보는 상기 컨텐츠를 재생하는 횟수를 나타내는 재생 횟수 정보를 포함하는 제1단계와, 상기 컨텐츠를 수신하고, 상기 라이센스 정보로부터 상기 재생 횟수 정보를 추출하는 제2단계, 및 상기 추출한 재생 횟수 정보로부터 상기 수신한 컨텐츠를 재생할 수 있음이 확인되면 상기 컨텐츠를 재생하는 제3단계, 사용한 또는 사용할 재생 횟수를 제외하고 남아 있는 재생 횟수 정보와 라이센스를 다른 기기에 전달하고, 상기 다른 기기가 변경된 재생 횟수 정보를 추출하여 사용하는 제4단계를 포함한다.

한편, 상기 목적을 달성하기 위하여, 본 발명의 실시에 따른 다수의 기기를 지원하는 DRM 라이센스 방법은 라이센스 정보를 포함하는 컨텐츠를 전송하는데, 상기 라이센스 정보는 상기 컨텐츠를 재생할 수 있는 기기들의 갯수를 나타내는 기기 갯수 정보인 것을 포함하는 제1단계와, 상기 컨텐츠를 수신하고, 상기 라이센스 정보로부터 상기 기기 갯수 정보를 추출하는 제2단계, 및 상기 추출한 기기 갯수 정보로부터 상기 수신한 컨텐츠를 재생할 수 있음이 확인되면 상기 컨텐츠를 재생하는 제3단계, 사용한 또는 사용할 기기 갯수를 제외하고 남아 있는 기기 갯수 정보와 라이센스를 다른 기기에 전달하고, 상기 다른 기기가 변경된 기기 갯수 정보를 추출하여 사용하는 제4단계를 포함한다.

또한 상기 목적을 달성하기 위하여, 본 발명의 실시에 따른 다수의 기기를 지원하는 DRM 라이센스 방법은 컨텐츠를 재생할 수 있는 2이상의 기기들이 속하는 논리적 영역을 관리하는 서버가 컨텐츠와 상기 컨텐츠에 대한 라이센스 정보를 수신하는 제1단계와, 상기 기기들이 상기 컨텐츠를 요청하면 상기 서버가 상기 제1단계에서 수신한 라이센스 정보를 확인하는 제2단계와, 상기 제2단계로부터 적법한 라이센스로 확인되면, 상기 서버는 상기 기기에게 요청된 컨텐츠를 제공하고, 자신의 라이센스 정보의 상태값을 갱신하는 제3단계를 포함한다. 이 때, 바람직하게는 라이센스 정보는 상기 컨텐츠를 재생하는 횟수를 나타내는 재생 횟수 정보이거나, 컨텐츠를 재생할 수 있는 기기들의 갯수를 나타내는 기기 갯수 정보이거나, 컨텐츠를 재생할 수 있는 총 시간을 나타내는 컨텐츠 재생 시간 정보인 것을 특징으로 한다.

한편, 상기 목적을 달성하기 위하여, 본 발명의 실시에 따른 다수의 기기를 지원하는 DRM 라이센스 방법은 컨텐츠를 재생할 수 있는 2이상의 기기들이 속하는 논리적 영역을 관리하는 서버가 컨텐츠와 상기 컨텐츠에 대한 라이센스 정보를 수신하는 제1단계와, 상기 제1단계에서 수신한 라이센스 정보를 상기 영역에 속하는 기기별로 할당하는 제2단계와, 상기 제2단계에서 할당된 라이센스 정보와 제1단계에서 수신한 컨텐츠를 해당 기기로 전송하는 제3단계, 및 상기 제3단계로부터 수신한 할당된 라이센스 정보에 따라 컨텐츠를 재생하는 제4단계를 포함한다. 이 때, 바람직하게는 상기 라이센스 정보는 상기 컨텐츠를 재생하는 횟수를 나타내는 재생 횟수 정보이거나, 컨텐츠를 재생할 수 있는 기기들의 갯수를 나타내는 기기 갯수 정보이거나, 컨텐츠를 재생할 수 있는 총 시간을 나타내는 컨텐츠 재생 시간 정보인 것을 특징으로 한다.

이하, 첨부된 도면을 참조하여 본 발명의 일 실시예에 따른 다수의 기기를 지원하는 DRM 라이센스 방법을 설명하면 다음과 같다.

한편, DRM 라이센스는 그 상태값이 변하는 경우와 변하지 않는 경우로 나누어 생각할 수 있다. 즉, <start>, <end>엘리먼트의 기술하는 경우에는 해당 기간동안에 컨텐츠의 사용이 가능하므로 해당 값이 변하지 않는다. 그러나, 도 2의 21라인과 같이 컨텐츠 사용의 회수를 제한하고 있는 경우에는 상기 컨텐츠를 사용할 때마다 그 값이 변하게 된다. 본 발명에서는 이렇게 DRM 라이센스의 상태값이 변하는 경우와 변하지 않는 경우에 각각 적용될 수 있는 방법에 대해 설명하도록 한다. 또한, 후술할 DRM 라이센스 구조는 DRM 환경에 따라 XML로 표현되거나 별도의 오브젝트로 구현될 수 있다.

도 3은 본 발명의 실시에 따라 DRM 라이센스 구조에 다수의 기기 식별자를 기술하는 것을 나타내는 예시도로서, 컨텐츠를 재생할 수 있는 기기의 고유한 식별자를 기술하는 방법이다. 따라서, DRM 라이센스 구조에 기술된 기기 식별자에 대응하는 기기만이 컨텐츠를 이용할 수 있는 권리가 있다. 즉, DRM 기능이 있는 기기를 소유하고 있는 사용자는 여러 기기에서 재생할 수 있는 사항이 기술된 라이센스 구조를 라이센스 제공자로부터 구입한다. 상기 라이센스 구조에는 컨텐츠를 재생할 수 있는 기기의 고유한 식별자가 기술되어 있으므로, 각각의 기기들은 상기 라이센스 구조에 기술된 기기 식별자가 자신의 것과 일치하면 해당 컨텐츠를 재생할 수 있다. 이러한 방법은 DRM 라이센스의 상태값이 변하지 않는 구조에 적용하는 것이 적합하다.

도 4는 본 발명의 실시에 따라 DRM 라이센스 구조에 특정한 도메인 식별자를 기술하는 것을 나타내는 예시도로서, 컨텐츠를 재생할 수 있는 기기들을 포함하는 특정한 도메인의 고유한 식별자를 기술하는 방법이다. 따라서, DRM 라이센스 구조에 기술된 도메인 식별자에 대응하는 도메인에 포함된 기기들만이 컨텐츠를 이용할 수 있는 권리가 있다. 이러한 방법은 DRM 라이센스의 상태값이 변하지 않는 구조에 적용하는 것이 적합하다.

도 3 또는 도 4에서 제시하는 구조는 컨텐츠 제공자 또는 별도의 라이센스 생성자가 제공할 수 있고, 사용자 측에 별도의 DRM서버를 설치하지 않아도 된다.

도 5는 본 발명의 실시에 따라 DRM 서버를 중심으로 DRM 라이센스를 관리하는 것을 나타내는 예시도이다.

즉, 식별가능한 도메인(500)에는 컨텐츠를 재생할 수 있는 각종 기기들(530,540,550)과 외부로부터 수신하는 컨텐츠의 라이센스를 관리하는 DRM 서버(520)가 포함된다. 한편, 라이센스 생성자(510)는 해당 컨텐츠에 대한 라이센스 구조(560)를 제공하는데, 상기 컨텐츠를 제공하는 컨텐츠 제공자가 해당 컨텐츠와 함께 라이센스 구조를 제공할 수도 있다. 상기 DRM 서버(520)는 라이센스와 이와 관련된 라이센스 상태 정보를 관리한다. 따라서, 도 5에서 도시한 DRM 라이센스 관리 형태는 라이센스 상태값의 변화 여부에 관계없이 적용할 수 있다.

우선, DRM 서버(520)와 기기들(530,540,550)간에 인증 과정을 수행함으로써 상기 도메인(500) 내에 속한 정당한 기기인지 여부를 확인한다. 그리고 나서, DRM 서버(520)와 기기들(530,540,550) 사이에 송수신하는 정보의 보호를 위해 암호키를 생성하는 과정을 거치게 되고, 기기는 DRM 서버(520)에게 컨텐츠 사용을 요청한다. DRM 서버(520)는 상기 요청에 따라, 컨텐츠 사용을 요청한 기기가 DRM 서버(520)의 라이센스 구조에 기술된 기기인지 여부를 확인한다. 그리고 나서, 기기가 컨텐츠를 재생할 수 있도록 하고, 이에 따른 라이센스의 상태값을 수정한다.

한편, 상기 DRM 서버(520)가 라이센스 권한을 자신이 관리하는 기기들 (530,540,550)에게 할당하여 제공하면, 상기 기기들 (530,540,550)은 할당된 권한 내에서 컨텐츠를 이용할 수 있다. 예컨데, 상기 라이센스 권한이 재생 시간에 관한 것일 경우 각각의 기기별(530,540,550)로 재생할 수 있는 시간을 할당하거나, 재생 가능 횟수에 관한 것일 경우 각각의 기기별(530,540,550)로 재생할 수 횟수를 할당할 수 있다.

도 6은 본 발명의 실시에 따라 컨텐츠를 재생하는 기기의 갯수를 제한하기 위한 DRM 라이센스 구조를 나타내는 예시도이다. 즉, DRM 라이센스 구조에 컨텐츠를 재생할 수 있는 기기의 식별자를 기술하지 않고 몇 개의 기기에서 컨텐츠를 재생할 수 있는지에 대한 정보를 기술하고 도 5에서 도시한 DRM 서버(520)가 기기의 개수를 관리하는 방식이다. 도 6에서는 최대 5개의 기기까지 컨텐츠의 재생을 허용하고 있음을 나타내고 있다. 도 6에서 도시한 바와 같이 기기의 개수를 지정하는 방법은 기기의 고유한 식별자를 정확히 모르거나 새로운 기기의 추가 또는 제거시에도 DRM 서버(520)가 효율적으로 라이센스를 관리할 수 있다.

이상에서 설명한 본 발명은, 본 발명이 속하는 기술분야에서 통상의 지식을 가진 자에 있어 본 발명의 기술적 사상을 벗어나지 않는 범위 내에서 여러 가지 치환, 변형 및 변경이 가능하므로 전술한 실시예 및 첨부된 도면에 한정하는 것은 아니다.

발명의 효과

본 발명에 따른 DRM 컨텐츠의 재생을 위한 라이센스 구조를 이용하여 상기 컨텐츠가 다수의 기기에서 실행될 수 있도록 함으로써, 컨텐츠 이용자는 다양한 DRM 환경에서 보다 편리하게 컨텐츠를 이용할 수 있는 효과가 있다.

(57) 청구의 범위

청구항 1.
삭제

청구항 2.

DRM 환경에 있어서,

라이센스 정보를 포함하는 컨텐츠를 전송하는데, 상기 라이센스 정보는 상기 컨텐츠를 재생할 수 있는 2이상의 기기들이 속하는 도메인을 구별시키는 고유한 식별자를 포함하는 제1단계;

상기 컨텐츠를 수신하고, 상기 라이센스 정보로부터 상기 식별자를 추출하는 제2단계; 및

상기 추출한 식별자가 기기 자신이 속하는 도메인의 식별자와 동일한 경우 상기 컨텐츠를 재생하는 제3단계를 포함하는 것을 특징으로 하는 DRM 라이센스 방법.

청구항 3.
삭제

청구항 4.
삭제

청구항 5.

DRM 환경에 있어서,

컨텐츠를 재생할 수 있는 2이상의 기기들이 속하는 도메인을 관리하는 서버가 컨텐츠와 상기 컨텐츠에 대한 라이센스 정보를 수신하는 제1단계;

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상기 기기들이 상기 컨텐츠를 요청하면 상기 서버가 상기 제1단계에서 수신한 라이센스 정보를 확인하는 제2단계;

상기 제2단계로부터 적법한 라이센스로 확인되면, 상기 서버는 상기 기기에게 요청된 컨텐츠를 제공하고, 자신의 라이센스 정보의 상태값을 갱신하는 제3단계를 포함하는 것을 특징으로 하는 DRM 라이센스 방법.

청구항 6.

제5항에 있어서,

상기 라이센스 정보는 상기 컨텐츠를 재생하는 횟수를 나타내는 재생 횟수 정보인 것을 특징으로 하는 DRM 라이센스 방법.

청구항 7.

제5항에 있어서,

상기 라이센스 정보는 컨텐츠를 재생할 수 있는 기기들의 갯수를 나타내는 기기 갯수 정보인 것을 특징으로 하는 DRM 라이센스 방법.

청구항 8.

제5항에 있어서,

상기 라이센스 정보는 컨텐츠를 재생할 수 있는 총 시간을 나타내는 컨텐츠 재생 시간 정보인 것을 특징으로 하는 DRM 라이센스 방법.

청구항 9.

DRM 환경에 있어서,

컨텐츠를 재생할 수 있는 2이상의 기기들이 속하는 도메인을 관리하는 서버가 컨텐츠와 상기 컨텐츠에 대한 라이센스 정보를 수신하는 제1단계;

상기 제1단계에서 수신한 라이센스 정보를 상기 도메인에 속하는 기기별로 할당하는 제2단계;

상기 제2단계에서 할당된 라이센스 정보와 제1단계에서 수신한 컨텐츠를 해당 기기로 전송하는 제3단계;

상기 제3단계로부터 수신한 할당된 라이센스 정보에 따라 컨텐츠를 재생하는 제4단계를 포함하는 것을 특징으로 하는 DRM 라이센스 방법.

청구항 10.

제9항에 있어서,

상기 라이센스 정보는 상기 컨텐츠를 재생하는 횟수를 나타내는 재생 횟수 정보인 것을 특징으로 하는 DRM 라이센스 방법.

청구항 11.

제9항에 있어서,

상기 라이센스 정보는 컨텐츠를 재생할 수 있는 기기들의 갯수를 나타내는 기기 갯수 정보인 것을 특징으로 하는 DRM 라이센스 방법.

청구항 12.

제9항에 있어서,

상기 라이센스 정보는 컨텐츠를 재생할 수 있는 총 시간을 나타내는 컨텐츠 재생 시간 정보인 것을 특징으로 하는 DRM 라이센스 방법.

도면

도면1

```
1라인: <o-ex:rights
2라인:              xmlns:o-ex="http://odrl.net/1.1/ODRL-EX"
3라인:             xmlns:o-dd="http://odrl.net/1.1/ODRL-DD"
4라인:              xmlns:ds="http://www.w3.org/2000/09/xmldsig#/"
5라인: >
6라인:  <o-ex:context>
7라인:      <o-dd:version>1.0</o-dd:version>
8라인:  </o-ex:context>
9라인:  <o-ex:agreement>
10라인:     <o-ex:asset>
11라인:        <o-ex:context>
12라인:           <o-dd:uid>cid:4567829547@foo.com</o-dd:uid>
13라인:        </o-ex:context>
14라인:        <ds:KeyInfo>
15라인:           <ds:KeyValue>vUEwR8LzEJociC+dgT1mgg== </ds:KeyValue>
16라인:        </ds:KeyInfo>
17라인:     </o-ex:asset>
18라인:     <o-ex:permission>
19라인:        <o-dd:play/>
20라인:     </o-ex:permission>
21라인:  </o-ex:agreement>
22라인:</o-ex: rights>
```

도면2

```
1라인: <o-ex:rights
2라인:              xmlns:o-ex="http://odrl.net/1.1/ODRL-EX"
3라인:              xmlns:o-dd="http://odrl.net/1.1/ODRL-DD"
4라인:              xmlns:ds="http://www.w3.org/2000/09/xmldsig#/"
5라인: >
6라인:  <o-ex:context>
7라인:      <o-dd:version>1.0</o-dd:version>
8라인:  </o-ex:context>
9라인:  <o-ex:agreement>
10라인:     <o-ex:asset>
11라인:        <o-ex:context>
12라인:           <o-dd:uid>cid:4567829547@foo.com</o-dd:uid>
13라인:        </o-ex:context>
14라인:        <ds:KeyInfo>
15라인:         <ds:KeyValue>vUEwR8LzEJociC+dgT1mgg== </ds:KeyValue>
16라인:      </ds:KeyInfo>
17라인:    </o-ex:asset>
18라인:    <o-ex:permission>
19라인:      <o-dd:display>
20라인:        <o-ex:constraint>
21라인:           <o-dd:count>1</o-dd:/count>
22라인:        </o-ex:constraint>
23라인:      <o-dd:display>
20라인:    </o-ex:permission>
21라인: </o-ex:agreement>
22라인:</o-ex: rights>
```

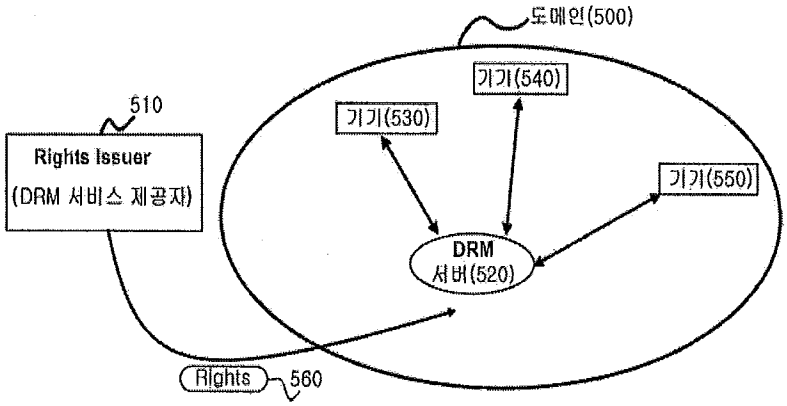
도면3

```
Rights{

Device_ID1; Device_ID2; Device_ID3; ...

}
```

도면4

```
Rights{
Domain-ID;
}
```

도면5



도면6

```
Rights{
Device 5;
}
```

(19) KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11) Publication number: 1020040107602 A

(43) Publication date: 23.12.2004

(21) Application number: 1020030036348

(22) Application date: 05.06.2003

(71) Applicant: • SAMSUNG ELECTRONICS CO., LTD.

(72) Inventor: • LEE, SEON NAM

(51) Int. Cl: H04L 9/32

(54) LICENSE MANAGEMENT SYSTEM FOR EXECUTING CONTENTS ON HOME NETWORK TO REMOVE REPACKAGING PROCESS AND REDISTRIBUTION PROCESS

(57) Abstract:

PURPOSE: A license management system for executing contents on a home network system and a method for the same are provided to reproduce easily same media files and same media streams by sharing one license within the home network system.

CONSTITUTION: A license storage module(344) is used for storing a full license received from a license server. A temporary license issue module(345) is used for issuing a temporary license by using the full license of the license storage module. A license search module(343) is used for searching a storing state of the full license and transmitting a searched result to a license request module and the temporary license issue module. The license request module(342) is used for requesting the license to the license server when there is not the full license in the license storage module.

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Legal Status

Date of request for an examination (20080526)

Notification date of refusal decision (20100621)

Final disposal of an application (rejection)

Date of final disposal of an application (20100621)

Patent registration number ( )

Date of registration (00000000)

Number of opposition against the grant of a patent ( )

Date of opposition against the grant of a patent (00000000)

Number of trial against decision to refuse ( )

Date of requesting trial against decision to refuse ( )

Date of extinction of right ( )

(19)대한민국특허청(KR)
(12) 공개특허공보(A)

(51) 。 Int. Cl.[7]
H04L 9/32

(11) 공개번호 10-2004-0107602
(43) 공개일자 2004년12월23일

(21) 출원번호 10-2003-0036348
(22) 출원일자 2003년06월05일

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심사청구 : 없음

(54) 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리시스템 및 방법

요약

본 발명은 홈 네트워크안의 디바이스들마다 별도의 라이센스를 부여받을 필요 없이 하나의 라이센스로 홈 네트워크 내의 각 디바이스들이 컨텐츠를 이용할 수 있도록 하는 시스템 및 방법에 관한 것이다.

본 발명에 따른 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리 시스템은 각종 다른 디바이스와 데이터를 송수신하는 송수신 모듈, 송수신 모듈을 통하여 홈디바이스로부터 라이센스 발급 요청을 받아서 해당 정식 라이센스가 라이센스 저장 모듈에 저장되어 있는지를 검색하고 검색결과를 라이센스 요청 모듈과 임시 라이센스 발급 모듈에 전달하는 라이센스검색 모듈, 라이센스가 라이센스 저장 모듈에 존재하지 않는 경우에 라이센스 서버에 해당 라이센스를 발급하여 줄 것을 송수신모듈을 통하여 요청하는 라이센스요청 모듈, 송수신 모듈을 통해 라이센스 서버로부터 다운받은 라이센스를 저장하는 라이센스 저장 모듈; 및 라이센스 저장 모듈에 저장된 정식 라이센스를 이용하여 임시 라이센스를 송수신 모듈을 통하여 해당 홈디바이스에 발급하는 임시 라이센스 발급 모듈로 이루어진다.

본 발명에 따른 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리 방법은 홈디바이스가 라이센스 관리 모듈에 해당 라이센스를 요청하는 단계, 라이센스 관리 모듈내에 해당 라이센스가 있는가를 판단하는 단계, 판단 결과에 따라 상기 홈디바이스에 임시 라이센스를 부여하는 단계, 및 홈디바이스에 존재하는 컨텐츠 재생기를 이용하여 미디어를 실행하는 단계로 이루어진다.

대표도

도 5

색인어

홈 디바이스(Home Device), 패키징(Packaging), DRM(Digital Rights Management), 라이센스(Licence), 컨텐츠(Contents)

명세서

도면의 간단한 설명

도 1은 종래 기술에 따른 컨텐츠 실행을 위한 라이센스 발급과정을 간략히 도시한 것이다.

도 2는 본 발명이 제안하는 시스템을 전체적으로 나타낸 블록도이다.

도 3은 다운로드 서비스를 받아 컨텐츠를 실행하고자 하는 경우에 홈 네트워크 상에서 라이센스를 공유하는 구성을 나타낸 블록도이다.

도 4는 스트림 서비스를 받아 컨텐츠를 실행하고자 하는 경우에 홈 네트워크 상에서 라이센스를 공유하는 구성을 나타낸 블록도이다.

도 5는 본 발명이 제안하는 라이센스 관리 모듈의 구성요소의 동작을 나타낸 블록도이다.

도 6은 본 발명이 제안하는 방법에 따른 과정을 전체적으로 나타낸 흐름도이다.

도 7은 본 발명이 제안하는 방법에 따른 과정을 홈 네트워크를 중심으로 상세하게 나타낸 흐름도이다.

발명의 상세한 설명

발명의 목적

발명이 속하는 기술 및 그 분야의 종래기술

본 발명은 인터넷 환경에서 컨텐츠 공급자로부터 사용자에게 해당 컨텐츠를 암호화하여 전달하고 불법 복제 방지 기술을 제공하는 시스템 및 방법에 관한 것으로, 보다 상세하게는 홈 네트워크안의 디바이스들마다 별도의 라이센스를 부여받을 필요 없이 하나의 라이센스로 홈 네트워크 내의 각 디바이스들이 컨텐츠를 이용할 수 있도록 하는 시스템 및 방법에 관한 것이다.

도 1에서 보는 바와 같이, 기존 DRM(Digital Rights Management) 시스템은 미디어 파일을 배포하는 웹 서버와 각각의 디바이스에 맞게 라이센스를 부여하는 라이센스 서버, 그리고 웹 서버에서 다운로드 받은 미디어 파일과 라이센스 서버에서 인증받은 라이센스를 가지고 재생하는 디바이스로 구성된다. 한 공간에 하나의 PC가 존재한다고 가정한다면, 이와 같은 종래의 DRM 시스템을 이용하여도 별다른 문제나 제약 사항이 없다. 그러나, 홈 네트워크 상의 여러 디바이스에서 동일한 컨텐츠를 실행하는 경우가 빈번한 실정을 고려할 때, 종래의 방법은 홈 네트워크 개념을 고려하고 있지 않고 디바이스 별로 각각 다른 라이센스를 부여하고 있다. 따라서 디바이스1이 가지고 있는 미디어 파일과 디바이스2가 가지고 있는 동일한 미디어 파일에 같은 라이센스를 적용하는 것이 불가능하다. 결국, DRM 시스템을 홈 네트워크에 적용하면 홈 네트워크 내부의 각각의 디바이스마다 별도의 라이센스를 부여받아야 한다는 불편함이 있다는 것이다. 홈 네트워크는 그 개념상 홈 네트워크 안에 있는 모든 컨텐츠들의 공유가 가능하고 각 디바이스 별로 그러한 컨캔츠들의 실행이 가능하도록 하는 것이 중요한 점임을 감안할 때 현재의 DRM Architecture에 관한 수정의 필요성이 대두된다.

발명이 이루고자 하는 기술적 과제

본 발명은 디지털 미디어의 안전한 분배를 위해 라이센스를 미디어를 분리하여 실행시에 점검하도록 독립적으로 저장하여 라이센스의 변경시 재패키징 또는 재분배과정의 번거로움을 제거하는 것을 그 목적으로 한다.

또한 본 발명은 여러개의 디바이스들이 존재하는 홈 네트워킹 시스템 내에서, 각각의 디바이스들마다 별개로 라이센스를 부여받아야 하는 문제를 해결하기 위하여 홈 네트워크 상의 각각의 홈 디바이스 들이 하나의 라이센스를 공유할 수 있는 방법을 제공하는 것을 목적으로 한다.

발명의 구성 및 작용

상기의 목적을 달성하기 위하여, 본 발명은 각종 다른 디바이스와 데이터를 송수신하는 송수신 모듈; 상기 송수신 모듈을 통하여 홈디바이스로부터 라이센스 발급 요청을 받아서 해당 정식 라이센스가 라이센스 저장 모듈에 저장되어 있는지를 검색하고, 검색결과를 라이센스 요청 모듈과 임시 라이센스 발급 모듈에 전달하는 라이센스검색 모듈; 상기

라이센스가 상기 라이센스 저장 모듈에 존재하지 않는 경우에, 라이센스 서버에 해당 라이센스를 발급하여 줄 것을 상기 송수신모듈을 통하여 요청하는 라이센스요청 모듈; 상기 송수신 모듈을 통해 상기 라이센스 서버로부터 다운받은 라이센스를 저장하는 라이센스저장 모듈; 및 상기 라이센스 저장 모듈에 저장된 정식 라이센스를 이용하여 임시 라이센스를 상기 송수신 모듈을 통하 여 해당 홈디바이스에 발급하는 임시 라이센스 발급 모듈을을 포함하는 것을 특징으로 한다.

상기의 목적을 달성하기 위하여, 본 발명은 홈디바이스가 라이센스 관리 모듈에 해당 라이센스를 요청하는 단계; 상기 라이센스가 라이센스 관리 모듈내에 있는가를 판단하는 단계; 상기 판단 결과에 따라 상기 홈디바이스에 임시 라이센스를 부여하는 단계; 및 상기 홈디바이스에 존재하는 컨텐츠 재생기를 이용하여 미디어를 실행하는 단계를 포함하는 것을 특징으로 한다.

DRM(Digital Rights Management; 디지털 저작권 관리)은 보안은 물론 전체적인 디지털 콘텐츠의 저작권 관리 지원을 위한 포괄적인 시스템의 의미한다. 이를 위해서 우선 서버 차원의 보안처리를 생각할 수 있다. 즉 특정 권한을 부여받은 사용자만이 서버에 접속하여 미디어 파일을 다운로드 한다든지, 미디어 스트림을 실시간으로 전송받아 컨텐츠를 실행하는 등의 방법을 생각할 수 있다. 그러나, 한번 다운로드된 컨텐츠는 P2P(Peer to Peer) 서비스 검색기능을 통해 빠른 속도로 순식간에 배포되므로 교환 파일자체에 대한 보안처리 없이 서버 차원에서의 보안처리만으로는 대처할 수 없는 안심할 수 없다. 또한, 미디어 파일의 헤더 부분에 데이터비트를 조작하는 방법을 생각할 수 있지만, 이는 손쉬운 해킹 위험에 노출될 가능성이 크고, 검증받지 않은 미디어 파일의 조작으로 인하여 서비스가 불안할 염려가 있어 적당하지 않다. 한편, 워터마킹(Water Marking) 방법을 사용하는 것을 고려해 볼 수도 있다. 그러나 이는 본래 컨텐츠의 무단 도용이 있을 때 그 원래의 저작자 또는 그 출처를 밝히기 위한 것이다. 이는 보안 방법이라기 보다는 저작권 관리 기능에 불과하여 무단사용자의 컨텐츠 사용 자체를 차단할 수는 없다.

따라서, 파일 자체를 암호화하고 디바이스(PC, PDA 등) 단위의 고유 라이센스 발급 및 인증을 통하여 관람횟수 설정, 유효시간, 무료 관람기간 및 시간설정, 복사 가능 횟수 등 여러 가지 조합으로 라이센스를 설정할 수 있도록 하는 컨텐츠 보안 방법을 사용하는 것이 바람직하다. 또한, 이 방법은 포괄적인 의미에서의 스트림 접속의 보안과 미디어 파일의 보안에 동시에 적용할 수 있다. 또한, 이용자간 복제를 통하여 확산되는 Super Distribution는 오히려 서비스 제공자의 매출 확대에 기여하게 된다.

이하 도면에 따라 발명의 일 실시예를 상세히 설명한다.

도 2는 본 발명이 제안하는 시스템을 전체적으로 나타낸 블록도이다. 본 발명이 제안하는 시스템은 원 컨텐츠(Raw Contents), 즉 원 미디어 파일을 라이센스 키를 이용하여 암호화(Encryption)하는 패키징 모듈(Packager; 220), 상기 암호화된 미디어 파일을 각 디바이스에서 다운로드 할 수 있도록 서비스를 제공하는 웹 서버(Web Server; 230), 상기 암호화된 미디어 파일을 각 디바이스에서 실시간으로 실행시킬 수 있도록 미디어 스트림을 제공하는 미디어 서버(Media Sever; 240), 홈 디바이스의 요청을 받아서 상기 홈 디바이스의 고유의 하드웨어 ID를 파악하고 상기 홈 디바이스에서만 해당 컨텐츠를 실행할 수 있는 라이센스를 발급하는 라이센스 서버(License Server; 210)으로 구성될 수 있다.

상기 패키징 서버(220)는 컨텐츠 제공자에 의하여 제공된 원본 컨텐츠와 라 이센스 키 등의 메타데이터를 함께 패키징하여 가공된 컨텐츠를 웹 서버 또는 미디어 서버에 전달하는 역할을 수행한다. 패키징 과정을 통하여 컨텐츠 보호 유지를 목적으로 라이센스 키를 이용하여 다양한 미디어 파일에 대해 잠금(lock)을 생성하며 64비트 암호화 라이센스를 생성함으로써 안전한 파일 배포를 가능하게 한다. 컨텐츠 제공자는 상기 패키징 서버(220)를 통하여 라이센스 키 시드(License Key Seed)와 키 ID(Key ID)와 결합함으로써 패키징 과정을 수행하며, 결과적으로 암호화된 미디어 파일을 생성한다. 패키징 과정에 대한 구체적인 내용은 MS DRM Homepage http://www.microsoft.com/windows/windowsmedia/wm7/drm/architecture.aspx 또는 http://www.microsoft.com/windows/windowsmedia/wm7/DRM/tutorial.aspx 를 이용하여 확인할 수 있다.

상기 웹 서버(230)는 미디어 파일의 다운로드 서비스를 제공하는 서버로서, 컨텐츠 제공자와 동일한 주체에 의하여 운영될 수도 있고, 단순히 자료의 배포만을 담당하는 별도의 서비스 제공자에 의하여 운영될 수도 있다. 또한, 상기 미디어 서버(240)는 미디어 파일의 스트림 서비스를 제공하는 서버로서, 상기 웹 서버와 마찬가지로 컨텐츠 제공자와 동일 또는 다른 주체에 의하여 운영될 수 있다. 결국 컨텐츠는 상기 웹 서버와 스트림 서버에 의하여 디바이스 사용자에게 널리 배포(Distribution)되는 것이다.

상기 홈 네트워크(250)는 내부에 각각의 홈디바이스들을 포함하고 있으며, 본 발명에 있어서 특징적인 요소인 라이센스 관리 모듈(340)을 포함하고 있다. 이 에 대한 구체적인 동작은 도3 내지 도5에서 설명하기로 한다.

상기 라이센스 서버(210)는 컨텐츠의 사용권한을 부여하고 이에 대한 지속적 관리를 담당하는 장치이다. 본 장치는 사용자의 컨텐츠 결제 처리를 담당하는 부분과, 사용권한정보가 담겨 있는 라이센스를 발급하고 관리하는 부분 및 사

용자의 사용내역을 수집하여 이를 통계 처리하는 부분으로 구성될 수 있다. 비안가된 디바이스의 경우 컨텐츠의 실행시에 컨텐츠 사용 라이센스를 인가받아야 한다. 각 디바이스는 라이센스 서버에 실행하는 컨텐츠 재생기의 ID 및 하드웨어 ID(MAC Address를 예로 들 수 있다)를 전달하면 라이센스 생성기는 각각의 디바이스에 고유한 라이센스를 생성하여 발급한다. 이러한 개별화(individualization)를 통하여 라이센스 처리 과정에서 변조된 재생기의 정보 확인을 통해 라이센스 발급 차단 등의 조치를 취할 수 있다. 또한 각 라이센스는 각각의 디바이스에 국한되어 발급됨으로써 라이센스의 복제는 의미가 없으므로 라이센스를 안전하게 관리할 수 있다. 라이센스를 생성하는 과정을 살펴보면, 라이센스 서버(210)는 라이센스 키 시드(License Key Seed)를 상기 패키징 서버(220)에 의하여 암호화된 미디어 파일로부터 키 ID(Key ID)와 결합하여 라이센스를 생성한다. 미디어 파일 패키징과 라이센스의 발급은 공유키의 공유로 별도의 기관 또는 단체에서 수행할 수 있다. 라이센싱 과정에 대한 구체적인 내용은 MS DRM Homepage

http://www.microsoft.com/windows/windowsmedia/wm7/drm/architecture.aspx 또는 http://www.microsoft.com/windows/windowsmedia/wm7/DRM/tutorial.aspx 를 이용하여 확인할 수 있다.

도 3은 다운로드 서비스를 받아 컨텐츠를 실행하고자 하는 경우에 홈 네트워크 상에서 라이센스를 공유하는 구성을 나타낸 블록도이다. 본 실시예는 미디어 파일을 배포하는 웹 서버(230), 각각의 디바이스 및 컨텐츠에 맞게 라이센스를 부여하는 라이센스 서버(210), 상기 라이센스 서버로부터 부여받은 라이센스를 홈 네트워크 상에서 공유할 수 있게 해주는 라이센스 관리 모듈(340) 그리고 웹 서버에서 다운로드 받은 미디어 파일과 라이센스 서버로부터 발급된 라이센스를 이용하여 미디어 파일을 재생하는 컨텐츠 재생기를 갖는 홈디바이스(310, 320, 330)로 구성될 수 있다. 하나의 홈디바이스1(310)이 웹서버로부터 미디어 파일1(110)을 다운로드 받아서, 그것을 재생하고자 하는 하는 경우에 홈디바이스2(320)은 홈디바이스1에 있는 미디어 파일1(110)을 다시 다운로드하여 재생하고자 할 수 있으며, 홈디바이스3(330)은 홈디바이스1(310)에 있는 미디어 파일1(110)을 스트림 방식으로 바로 재생하고자 할 수 있다. 이 때, 홈디바이스1(310)에 의하여 라이센스 요청을 받은 라이센스 관리 모듈(340)은 라이센스 서버(210)에 상기 미디어 파일1을 실행하기 위하여 라이센스A(120)를 다운받아서 저장하게 된다. 이후 라이센스 관리 모듈은 다운로드 받은 라이센스A(120)를 이용하여 각각의 홈디바이스에 임시 라이센스를 발급한다. 그러면, 각각의 홈디바이스는 동일한 미디어 파일을 각 임시 라이센스를 이용하여 재생할 수 있다. 만약, 라이센스 정책에서 관람회수 제한으로 설정되어 있다면 각각의 홈디바이스에 실행회수의 총합이 제한회수에 해당하면 라이센스가 만료되고 재생이 더 이상되지 않을 것이다. 또한 라이센스 정책에서 유효시간 제한으로 설정되어 있다면 사용시간의 총합이, 복사기능 회수로 설정되어 있다면 홈디 바이스간의 총 복사회수의 총합이 라이센스 만료 기준이 될 수 있다.

도 4는 스트림 서비스를 받아 컨텐츠를 실행하고자 하는 경우에 홈 네트워크 상에서 라이센스를 공유하는 구성을 나타낸 블록도이다. 본 실시예에 있어서의 시스템은 상기 도 3에서와 마찬가지로 라이센스 서버(210), 라이센스 관리 모듈(340), 홈 디바이스(310, 320, 330)를 포함한다. 다만, 웹 서버 대신에 미디어 파일의 스트림 서비스를 제공하는 미디어 서버(240)를 포함한다.

다수의 홈디바이스들(310, 320, 330)이 미디어 서버(240)으로부터 미디어 스트림1(130)을 받아 실시간으로 재생하고자 하는 하는 경우에 이중 하나의 홈디바이스에 의하여 먼저 라이센스 요청을 받은 라이센스 관리 모듈(340)은 라이센스 서버(210)에 상기 미디어 스트림1(130)을 실행하기 위하여 라이센스B(140)를 다운받아서 저장하게 된다. 이후 라이센스 관리 모듈은 다운로드 받은 라이센스B(120)를 이용하여 각각의 홈디바이스에 임시 라이센스를 발급한다. 그러면, 각각의 홈디바이스는 동일한 미디어 스트림을 각 임시 라이센스를 이용하여 재생할 수 있다. 도 3의 설명에서와 마찬가지로 제한된 실행회수, 실행 유효시간 내에서 홈디바이스들의 실행회수, 실행 유효시간의 총합이 제한범위에 해당되면 라이센스가 만료된다.

도 5는 본 발명이 제안하는 라이센스 관리 모듈(340)의 구성요소의 동작을 나타낸 블록도이다. 본 발명에서 제안하는 라이센스 관리 모듈은 홈네트워크 상에서의 모든 미디어 파일 또는 미디어 스트림에 대한 라이센스를 라이센스 서버에 요청하고, 라이센스 서버(210)로부터 다운받은 라이센스를 이용하여 임시 라이센스 를 생성, 발급하는 모듈이다. 즉 라이센스 서버로부터 다운 받은 라이센스를 각각의 디바이스에서 사용할 수 있도록 하는 역할을 수행한다. 상기 라이센스 관리 모듈(340)은 홈 네트워크 사용자가 라이센스를 공유할 수 있도록 컨텐츠 제공자가 제공할 수 있으며, 따라서 라이센스 서버(210)가 라이센스를 발급하는 과정에서 사용하는 방식을 그대로 적용할 수 있는 것이다. 각 디바이스가 라이센스 저장 모듈(344)에 컨텐츠 재생기의 ID 및 하드웨어 ID를 전달하면서 라이센스를 요청하면 상기 라이센스 관리 모듈(344)은 라이센스 서버(210)에 라이센스를 요청하여 이를 발급받아 저장하고 각 디바이스에 고유한 임시 라이센스를 발급하는 것이다.

이러한 라이센스 관리 모듈(344)는 다시 송수신 모듈(341), 라이센스 요청 모듈(342), 라이센스 검색 모듈(343), 라이센스 저장 모듈(344) 및 임시 라이센스 발급 모듈(345)로서 구성될 수 있다. 상기 송수신 모듈(341)은 홈디바이스로부터 라이센스 발급 요청을 받아들이고, 상기 라이센스 서버(210)에 라이센스 발급 요청을 전송하여 상기 라이센스 서버로부터 발급되는 정식 라이센스(상기 임시 라이센스와 대비하여 라이센스 서버에서 발급하는 라이센스를 정식 라이센스로 명명할 수 있다)를 다운받는다. 또한, 각 디바이스에 고유한 임시 라이센스를 전송하는 역할을 수행한다. 상기 라이센스 검색 모듈(343)은 상기 홈디바이스들로부터 라이센스 발급 요청을 받은 후 해당 정식 라이센스가 이미 라이센스 저장 모듈(344)에 저장되어 있는지를 검색하며, 그 검색결과를 라이센스 요청 모듈(342)과 임시 라이센스

발급 모듈(345)에 전달하는 역할을 담당한다. 상기 라이센스 저장 모듈(344)은 라이센스 검색 모듈(343)은 송수신 모듈(341)을 통해 라이센스 서버(210)로부터 다운 받은 정식 라이센스를 저장한다. 상기 라이센스 요청 모듈(342)은 홈 디바이스 및 컨텐츠에 상응하는 정식 라이센스가 저장 모듈(344)에 존재하지 않는 경우에, 라이센스 서버(210)에 해당 정식 라이센스를 발급하여 줄 것을 송수신모듈(341)을 통하여 요청하는 역할을 수행한다. 그리고, 상기 임시 라이센스 발급 모듈(345)은 상기 라이센스 저장 모듈(344)에 저장된 정식 라이센스를 이용하여 다른 디바이스에서도 미디어 파일 또는 미디어 스트림을 사용할 수 있도록 하는 임시 라이센스를 상기 송수신 모듈(341)을 통하여 발급하는 역할을 수행한다.

도 6은 본 발명이 제안하는 방법에 따른 과정을 전체적으로 나타낸 흐름도이다. 먼저, 컨텐츠 제공자에 의해 암호화된 원본 컨텐츠와 라이센스 키를 함께 패키징하여 암호화된 컨텐츠를 생성하는 과정이다(S610). 다음 단계로서 웹 서버 또는 미디어 서버를 통하여 상기 암호화된 컨텐츠를 사용자에게 배포하는 단계이다(S620). 디지털 컨텐츠 배포는 컨텐츠 구매 및 사용 유형 정의 단계로 사용자의 다양한 서비스 요구를 지원한다. 초기의 DRM은 컨텐츠 분배시 다운로드한 단말에 대해서만 가능하도록 한정하였으나, 현재에는 홈 네트워크 상의 다양한 장치로의 이동(super distribution)이나 사용자가 소유한 여러 단말에 대한 로밍(roaming)을 통하여 배포될 수 있다. 컨텐츠와 라이센스가 분리되어 있으므로, 패키징된 컨텐츠에 대한 접근은 자유롭게 허용되나 사용시에는 반드시 해당 라이센스를 발급받아야 하므로 컨텐츠의 무단 복제에 안정하게 대응할 수 있는 것이다. 다음 단계로서 라이센스 정책 설정하는 단계이다(S630). 컨텐츠 제공자의 정책에 따라 관람회수 설정, 유효시간, 무료관람기간 및 시간 설정, 복사가능 회수 등 여 라가지 조합으로 설정할 수 있으며, 기존 파일 다운로드 형태의 오프라인 서비스 이외의 동영상 스트리밍 서비스와 같은 온라인 서비스 유형을 고려할 수 있다. 온라인 서비스의 경우 컨텐츠 사용 규칙 또는 복호화 등의 관련 정보를 서버에 저장할 수 있고 사용 규칙의 동적 변경으로 사용권 제어 능력의 향상 및 홈네트워크에서 라이센스 처리시의 절차 등을 보다 단순화 할 수 있다. 다음으로는 라이센스 관리 모듈이 라이센스 서버에 라이센스를 발급해 줄 것을 요청하는 단계이다(S650). 본 과정은 미디어를 실행하려는 홈디바이스로부터 라이센스 관리 모듈에 라이센스 발급 요청을 받은 라이센스 관리 모듈이 해당 라이센스가 존재하지 않으면 라이센스 서버에 해당 라이센스의 발급을 요청하는 것이다. 다음 과정으로서 각각의 홈디바이스에서 컨텐츠를 실행할 수 있도록 라이센스 관리 모듈이 상기 발급받은 라이센스를 가공하여 각각의 임시 라이센스를 발급한다(S670). 마지막으로 각 디바이스는 상기 임시 라이센스를 이용하여 상호 동일한 컨텐츠를 실행할 수 있다.

도 7은 본 발명이 제안하는 방법에 따른 과정을 홈 네트워크를 중심으로 상세하게 나타낸 흐름도이다. 하나의 홈디바이스가 웹 서버 또는 미디어 서버에 접속하여 미디어 파일을 다운받아 컨텐츠 재생기로 실행하거나 또는 미디어 스트림을 전송받아 상기 재생기를 통해 실시간으로 실행한다(S710). 처음에는 홈디바이스 내부에 라이센스가 존재하지 않아서 실행이 불가능하므로, 각 홈디바이스는 라이센스 관리 모듈에 라이센스의 발급을 요청하게 된다(S720). 라이센스 발급 모듈내의 라이센스 검색 모듈은 상기 한 요청에 따라 해당하는 라이센스가 라이센스 저장 모듈에 존재하는지를 검색하여 그 존재여부를 판단한다(S730). 만약 라이센스 저장 모 듈에 해당 라이센스가 존재하지 않는다면, 라이센스 발급 모듈중의 라이센스 요청 모듈은 라이센스 서버에 해당 라이센스를 요청하고 이를 다운로드한다(S750). 그리고, 상기 다운로드한 라이센스와 동일한 라이센스를 임시 라이센스로서 상기 홈디바이스에 부여한다(S760). 이 경우는 하나의 미디어 파일 또는 미디어 스트림에 대하여 처음으로 라이센스를 요청하는 경우로서 라이센스 서버가 발급한 라이센스를 그래도 홈디바이스에 부여하여도 문제가 없기 때문에 이와 동일한 임시 라이센스를 홈디바이스에 부여하는 것이다. 그후 부여받은 임시 라이센스를 이용하여 컨텐츠 재생기로 하여금 미디어 파일 또는 미디어 스트림을 실행하게 한다(S770).

만약 라이센스 저장 모듈에 해당 라이센스가 존재한다면 상기 홈디바이스의 하드웨어 ID, 컨텐츠 재생기의 ID 및 기 발급된 라이센스로부터 상기 홈디바이스에서만 실행가능한 임시 라이센스를 부여받는다(S740). 그후 부여받은 임시 라이센스를 이용하여 컨텐츠 재생기로 하여금 미디어 파일 또는 미디어 스트림을 실행하게 한다(S770).

이상, 본 발명을 바람직한 실시예를 들어 상세하게 설명하였으나, 본 발명은 상기 실시예에 한정되지 않으며, 본 발명의 기술적 사상의 범위 내에서 당해 분야에서 통상의 지식을 가지는 자에 의하여 여러 가지 변형이 가능하다.

발명의 효과

본 발명에 의하면 이로써 홈 네트워크 내에서의 모든 디바이스들은 하나의 라이센스를 공유함으로써 동일한 미디어 파일이나 미디어 스트림을 하나의 라이센스를 통하여 재생할 수 있는 편리함을 제공하는 효과가 있다.

또한 본 발명에 의하면 홈 네트워크 전체에 하나의 라이센스를 이용하여 전체적 제한 조건하에서 각각의 홈 디바이스들 간에 다양한 실행조건을 분배할 수 있는 효과가 있다.

(57) 청구의 범위

청구항 1.
라이센스 서버가 제공한 정식 라이센스를 저장하는 라이센스저장 모듈; 및

상기 라이센스 저장 모듈에 저장된 정식 라이센스를 이용하여 네트워크내 홈디바이스에서 사용할 수 있는 임시 라이센스를 발급하는 임시 라이센스 발급 모듈을 포함하는 것을 특징으로 하는 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리 장치.

청구항 2.
제1항에 있어서,

홈디바이스로부터 라이센스 발급 요청을 받아서 해당 정식 라이센스가 라이센스 저장 모듈에 저장되어 있는지를 검색하고, 검색결과를 라이센스 요청 모듈과 임시 라이센스 발급 모듈에 전달하는 라이센스검색 모듈; 및

상기 정식 라이센스가 상기 라이센스 저장 모듈에 존재하지 않는 경우에는 라이센스 서버에 해당 라이센스를 발급하여 줄 것을 요청하는 라이센스 요청 모듈을 포함하는 것을 특징으로 하는 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리 장치.

청구항 3.
각각의 홈디바이스 및 컨텐츠에 맞게 라이센스를 부여하는 라이센스 서버;

상기 컨텐츠의 다운로드 서비스를 제공하는 웹 서버;

상기 웹 서버로부터 다운받은 컨텐츠와 라이센스 서버로부터 발급된 라이센 스를 이용하여 미디어 파일을 재생하는 컨텐츠 재생기를 포함하는 홈 디바이스; 및

상기 라이센스 서버로부터 부여받은 라이센스를 홈 네트워크 상에서 공유할 수 있게 해주는 라이센스 발급 모듈을 포함하는 것을 특징으로 하는 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리 시스템.

청구항 4.
제3항에 있어서,

원본 컨텐츠를 패키징함으로써 암호화된 컨텐츠를 생성하는 패키징 서버를 더 포함하는 것을 특징으로 하는 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리 시스템.

청구항 5.
제3항 또는 제4항에 있어서,

상기 컨텐츠의 스트림 서비스를 제공하는 미디어 서버를 더 포함하는 것을 특징으로 하는 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리 시스템.

청구항 6.
제3항 또는 제4항에 있어서, 상기 라이센스 발급 모듈은

라이센스 서버가 제공한 정식 라이센스를 저장하는 라이센스저장 모듈; 및

상기 라이센스 저장 모듈에 저장된 정식 라이센스를 이용하여 네트워크내 홈디바이스에서 사용할 수 있는 임시 라이센스를 발급하는 임시 라이센스 발급 모듈을 포함하는 것을 특징으로 하는 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리 시스템.

청구항 7.
제6항에 있어서, 상기 라이센스 발급 모듈은

홈디바이스로부터 라이센스 발급 요청을 받아서 해당 정식 라이센스가 라이센스 저장 모듈에 저장되어 있는지를 검색하고, 검색결과를 라이센스 요청 모듈과 임시 라이센스 발급 모듈에 전달하는 라이센스검색 모듈; 및

상기 정식 라이센스가 상기 라이센스 저장 모듈에 존재하지 않는 경우에는 라이센스 서버에 해당 라이센스를 발급하여 줄 것을 요청하는 라이센스 요청 모듈을 더 포함하는 것을 특징으로 하는 홈 네트워크 상에서의 컨텐츠 실행을 위

한 라이센스 관리 시스템.

청구항 8.
홈디바이스가 라이센스 관리 모듈에 해당 라이센스를 요청하는 단계;

상기 라이센스가 라이센스 관리 모듈내에 있는가를 판단하는 단계;

상기 판단 결과에 따라 상기 홈디바이스에 임시 라이센스를 부여하는 단계; 및

상기 홈디바이스에 존재하는 컨텐츠 재생기를 이용하여 미디어를 실행하는 단계를 포함하는 것을 특징으로 하는 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리 방법.

청구항 9.
제8항에 있어서, 상기 판단한 결과 해당 라이센스가 라이센스 관리 모듈에 없으면, 상기 홈디바이스에 임시 라이센스를 부여하는 단계는

라이센스 서버로부터 라이센스를 다운로드하는 단계; 및

다운로드한 라이센스와 동일한 임시 라이센스를 부여하는 단계를 포함하는 것을 특징으로 하는 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리 방법.

청구항 10.
제8항에 있어서, 상기 판단한 결과 해당 라이센스가 라이센스 관리 모듈에 있으면, 상기 홈디바이스에 임시 라이센스를 부여하는 단계는

하드웨어 ID 및 재생기 ID를 이용하여 임시 라이센스를 부여하는 단계를 포함하는 것을 특징으로 하는 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리 방법.

청구항 11.
제8항 내지 제10항 중 어느 한 항에 있어서, 상기 라이센스 관리 모듈에 해당 라이센스를 요청하는 단계 이전 단계로서,

원 컨텐츠를 패키징하는 단계;

패키징된 컨텐츠를 배포하는 단계;

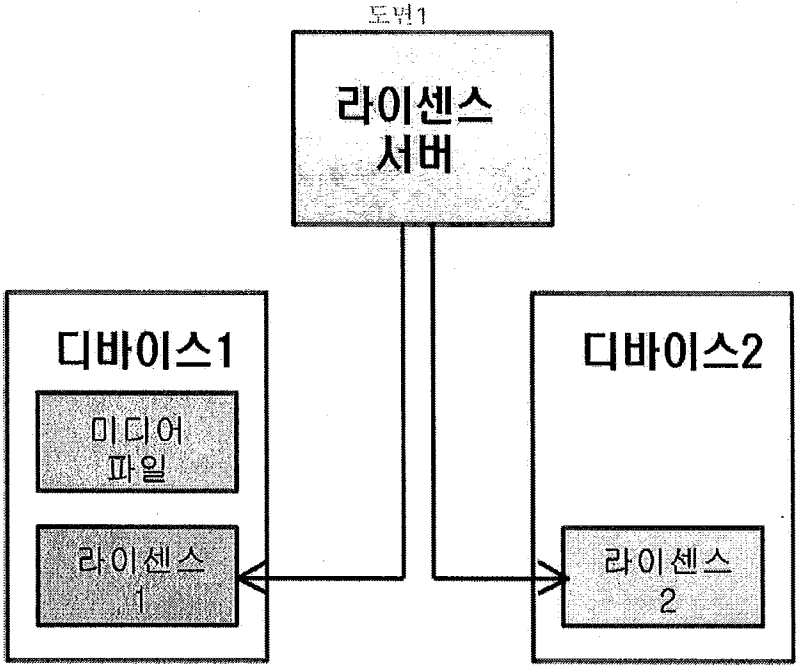
라이센스 정책을 설정하는 단계; 및

홈디바이스가 컨텐츠를 다운로드하는 단계를 더 포함하는 것을 특징으로 하는 홈 네트워크 상에서의 컨텐츠 실행을 위한 라이센스 관리 방법.

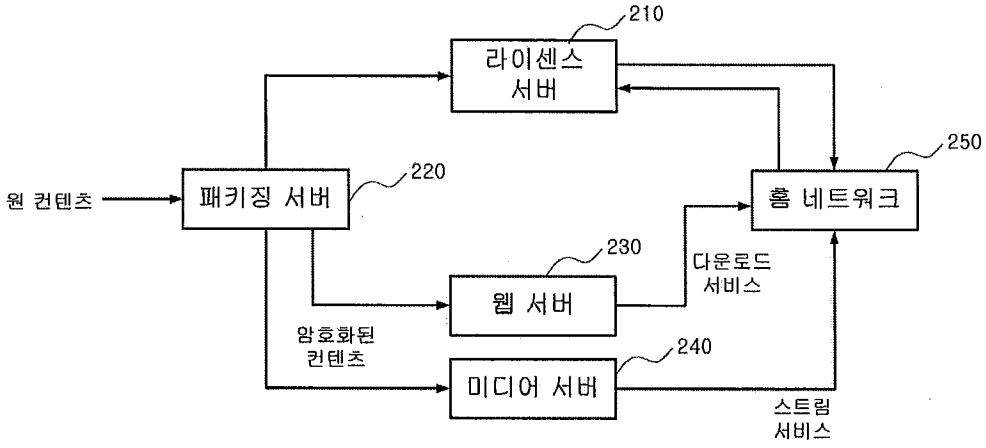
청구항 12.
제8항 내지 제10항 중 어느 한 항에 있어서, 상기 방법을 실행하기 위한 컴 퓨터 프로그램을 컴퓨터로 판독 가능한 포맷으로 기록한 기록매체.

도면

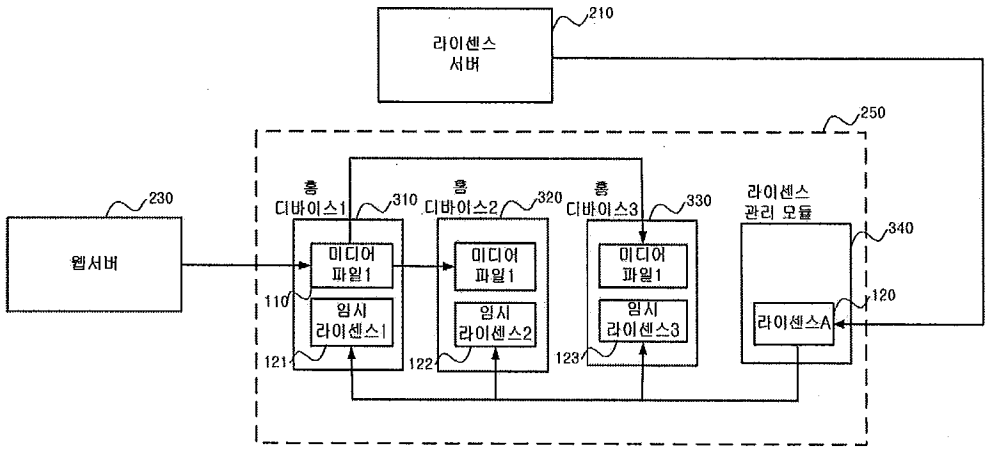
도면1


라이센스
서버
디바이스1
미디어
파일
라이센스
1
디바이스2
라이센스
2

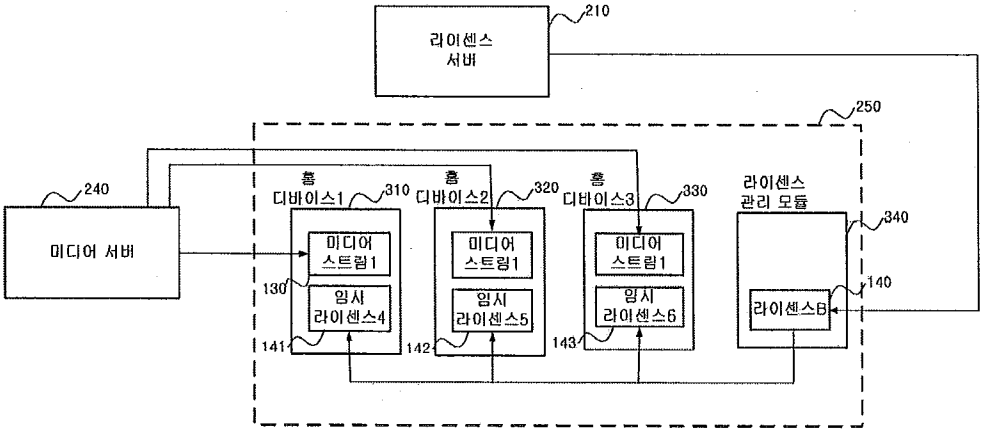
도면2


210
라이센스
서버
250
원 컨텐츠
220
패키징 서버
홈 네트워크
230
웹 서버
다운로드
서비스
암호화된
컨텐츠
240
미디어 서버
스트림
서비스

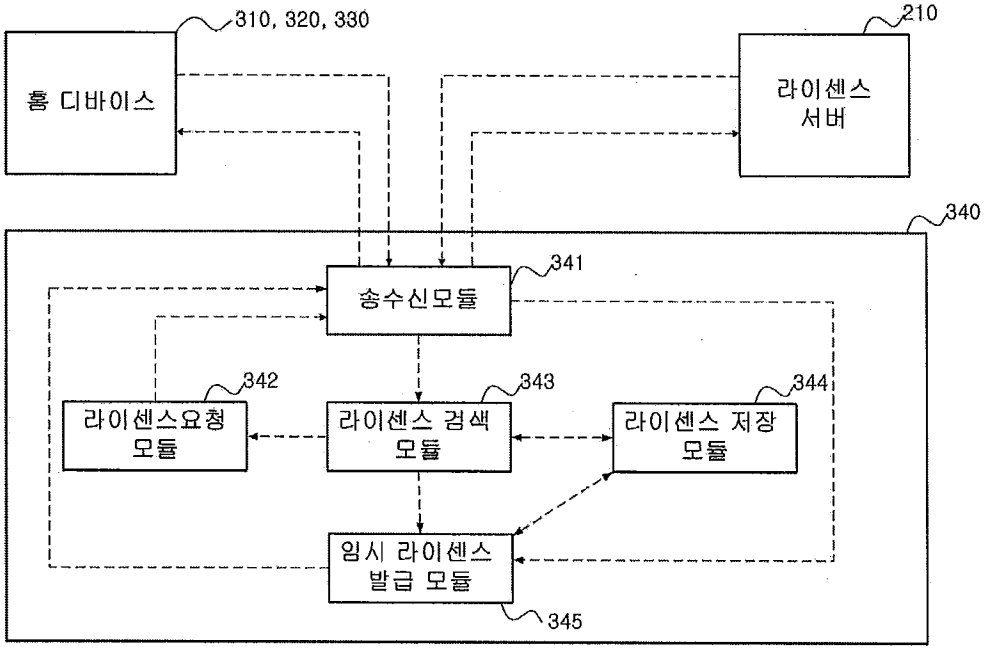
도면3


210
라이센스
서버
250
230
웹서버
홈
디바이스1
310
홈
디바이스2
320
홈
디바이스3
330
라이센스
관리 모듈
340
미디어
파일1
미디어
파일1
미디어
파일1
110
임시
라이센스1
임시
라이센스2
임시
라이센스3
라이센스A
120
121
122
123

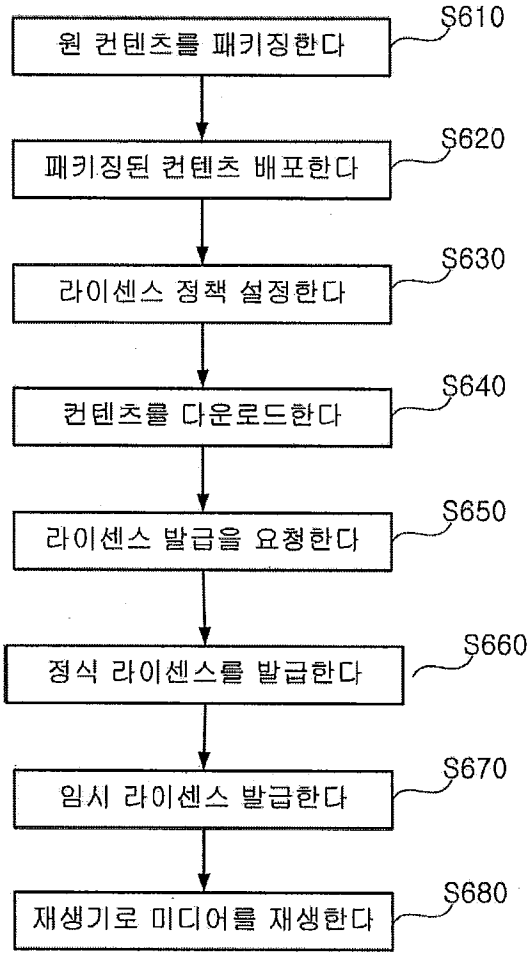
도면4


라이센스 서버
210
250
240
미디어 서버
홈 디바이스1
310
홈 디바이스2
320
홈 디바이스3
330
라이센스 관리 모듈
340
미디어 스트림1
미디어 스트림1
미디어 스트림1
130
임시 라이센스4
임시 라이센스5
임시 라이센스6
라이센스B
140
141
142
143

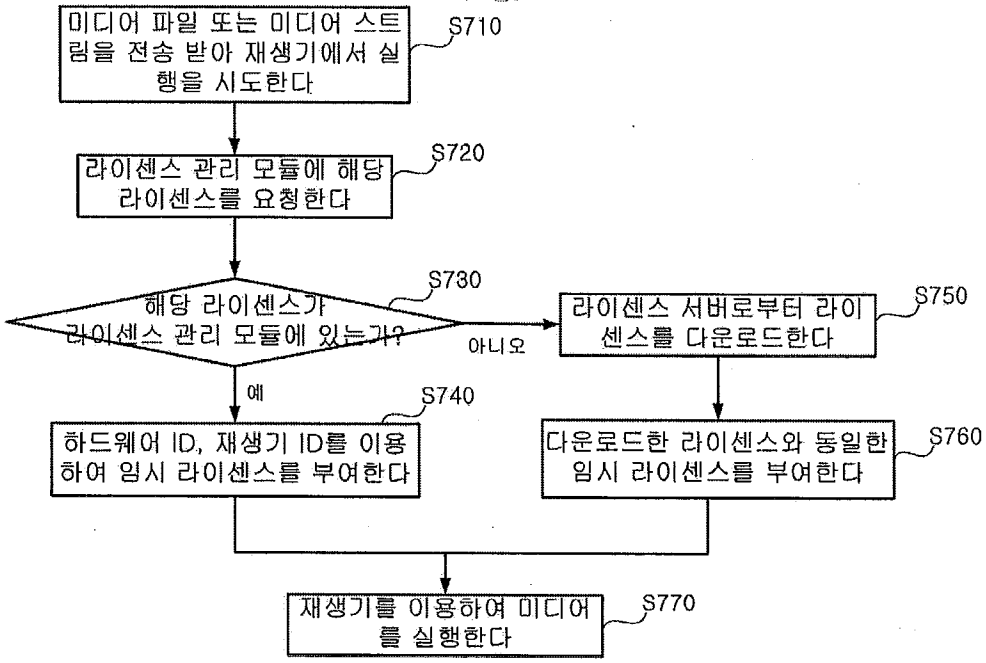
도면5


310, 320, 330
홈 디바이스
210
라이센스 서버
340
송수신모듈
341
342
343
344
라이센스요청 모듈
라이센스 검색 모듈
라이센스 저장 모듈
임시 라이센스 발급 모듈
345

도면6


원 컨텐츠를 패키징한다
S610
패키징된 컨텐츠 배포한다
S620
라이센스 정책 설정한다
S630
컨텐츠를 다운로드한다
S640
라이센스 발급을 요청한다
S650
정식 라이센스를 발급한다
S660
임시 라이센스 발급한다
S670
재생기로 미디어를 재생한다
S680

도면7


미디어 파일 또는 미디어 스트림을 전송 받아 재생기에서 실행을 시도한다
S710
라이센스 관리 모듈에 해당 라이센스를 요청한다
S720
해당 라이센스가 라이센스 관리 모듈에 있는가?
S730
아니오
라이센스 서버로부터 라이센스를 다운로드한다
S750
예
하드웨어 ID, 재생기 ID를 이용하여 임시 라이센스를 부여한다
S740
다운로드한 라이센스와 동일한 임시 라이센스를 부여한다
S760
재생기를 이용하여 미디어를 실행한다
S770

(19) KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11) Registration number: 100708203 B1

(45) Issue date: 10.04.2007

(24) Registration date: 10.04.2007

(21) Application number: 1020060018430

(22) Application date: 24.02.2006

(51) Int. Cl: H04L 12/12
H04L 12/16
H04L 29/06
H04L 12/28

(73) Proprietor:

(72) Inventor: • KWON, WON SEOK

(54) CONTROL PERMISSION METHOD OF A DEVICE CAPABLE OF ALLOWING A DEVICE TO SELECTIVELY PERMIT ITS CONTROL ONLY TO A PARTICULAR CONTROL POINT WHICH IS ALREADY PARTICIPATING IN A DOMAIN IN WHICH THE DEVICE IS ALSO PARTICIPATING, TO THUS BE CONTROLLED ONLY BY THE PARTICULAR CONTROL POINT

(57) Abstract:

PURPOSE: A control permission method of a device using the same are provided to prevent a control point connected with the same network from controlling a device unless it participates in a domain.

CONSTITUTION: A device checks whether a domain identifier can be extracted from a received participation message(300,310). When a domain identifier can be extracted, the device extracts the domain identifier from the received participation message(320). The device checks whether the extracted domain identifier has been previously registered in a list of domain identifiers(330). When the domain identifier has been registered in the

list, a control point can participate in a domain, so the device transmits a response message to the control point(340).

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Legal Status

Date of request for an examination (20060224)

Notification date of refusal decision (00000000)

Final disposal of an application (registration)

Date of final disposal of an application (20070226)

Patent registration number (1007082030000)

Date of registration (20070410)

Number of opposition against the grant of a patent ( )

Date of opposition against the grant of a patent (00000000)

Number of trial against decision to refuse ( )

Date of requesting trial against decision to refuse ( )

Date of extinction of right ( )

(19)대한민국특허청(KR)
(12) 등록특허공보(B1)

(51) 。Int. Cl.
H04L 12/12 (2006.01)
H04L 12/16 (2006.01)
H04L 29/06 (2006.01)
H04L 12/28 (2006.01)

(45) 공고일자 2007년04월16일
(11) 등록번호 10-0708203
(24) 등록일자 2007년04월10일

(21) 출원번호 10-2006-0018430
(22) 출원일자 2006년02월24일
심사청구일자 2006년02월24일

(65) 공개번호
(43) 공개일자

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경기 수원시 영통구 망포동 방죽마을 영통뜨란채 1006-1503

(74) 대리인 리앤목특허법인

(56) 선행기술조사문헌
KR20030055766 A
KR20040111426 A
KR20050053471 A
KR20040014731 A
KR20050028244 A
KR20050059027 A
* 심사관에 의하여 인용된 문헌

심사관 : 양찬호

전체 청구항 수 : 총 19 항

(54) 디바이스의 제어 허용 방법 및 그를 이용한 디바이스

(57) 요약

본 발명은 제어 포인트에게 제어를 허용하는 UPnP(Universal Plug and Play) 디바이스에 관한 것으로, 디바이스가 참가한 도메인에 제어 포인트가 이미 참가하였는지 여부를 판단하여 제어 포인트에게 디바이스에 대한 제어를 선택적으로 허용함으로써 특정한 제어 포인트에게만 디바이스의 제어를 허용할 수 있다.

대표도

도 3a

특허청구의 범위

청구항 1.

EWS-003207

적어도 하나의 디바이스를 제어하는 제어 포인트에게 소정의 디바이스가 제어를 허용하는 방법에 있어서,

상기 소정의 디바이스가 참가한 도메인에 상기 제어 포인트가 이미 참가하였는지 여부를 판단하는 단계; 및

상기 판단된 결과에 따라 상기 제어 포인트에게 상기 소정의 디바이스에 대한 제어를 선택적으로 허용하는 단계를 포함하는 것을 특징으로 하는 방법.

청구항 2.

제1항에 있어서, 상기 허용하는 단계는

상기 제어 포인트가 이미 참가하였다고 판단된다면, 상기 소정의 디바이스에 대한 제어를 허용하는 것을 특징으로 하는 방법.

청구항 3.

제1항에 있어서, 상기 판단하는 단계는

상기 소정의 디바이스를 제어할 수 있는 권한을 나타내는 제어 포인트의 식별자를 이용하여 상기 제어 포인트가 이미 참가하였는지 여부를 판단하는 것을 특징으로 하는 방법.

청구항 4.

제3항에 있어서, 상기 제어 포인트의 식별자는

상기 제어 포인트가 참가하고자 하는 도메인에 상기 소정의 디바이스로부터 참가가 허용된 경우 생성되는 것을 특징으로 하는 방법.

청구항 5.

제1항에 있어서,

상기 제어 포인트로부터 상기 소정의 디바이스의 상태를 알리는 이벤트에 대한 가입을 요청받는 단계; 및

상기 판단하는 단계에서 판단된 결과에 따라 상기 요청한 소정의 디바이스의 상태에 관한 메시지를 선택적으로 상기 요청한 제어 포인트에게 송신하는 단계를 더 포함하는 것을 특징으로 하는 방법.

청구항 6.

제1항에 있어서,

상기 제어 포인트로부터 상기 도메인에서 탈퇴를 요청받는 단계; 및

상기 판단하는 단계에서 판단된 결과에 따라 상기 요청한 제어 포인트를 상기 도메인에서 탈퇴시키는 단계를 더 포함하는 것을 특징으로 하는 방법.

청구항 7.

적어도 하나의 디바이스를 제어하는 제어 포인트에게 소정의 디바이스가 참가를 허용하는 방법에 있어서,

상기 소정의 디바이스가 참가한 도메인에 상기 제어 포인트가 참가할 수 있는 여부를 판단하는 단계; 및

상기 판단된 결과에 따라 상기 제어 포인트를 상기 도메인에 선택적으로 참가를 허용하는 단계를 포함하는 것을 특징으로 하는 방법.

청구항 8.

제7항에 있어서, 상기 판단하는 단계는

상기 제어 포인트가 참가하고자 하는 도메인의 식별자와 상기 디바이스가 참가한 도메인의 식별자의 동일 여부를 기초로 하여 판단하는 것을 특징으로 하는 방법.

청구항 9.

제7항에 있어서, 상기 허용하는 단계는

상기 참가가 허용된 제어 포인트에 대하여 상기 소정의 디바이스를 제어할 수 있는 권한을 나타내는 제어 포인트의 식별자를 생성하여 상기 제어 포인트에게 전송함으로서 허용하는 것을 특징으로 하는 방법.

청구항 10.

제1항 내지 제9항 중 어느 한 항에 기재된 발명을 컴퓨터에서 실행시키기 위한 프로그램을 기록한 컴퓨터로 읽을 수 있는 기록 매체.

청구항 11.

적어도 하나의 디바이스를 제어하는 제어 포인트에게 제어를 허용하는 디바이스에 있어서,

상기 디바이스가 참가한 도메인에 상기 제어 포인트가 이미 참가하였는지 여부를 판단하는 제어포인트 판단부; 및

상기 판단된 결과에 응답하여 상기 제어 포인트에게 상기 디바이스에 대한 제어를 선택적으로 허용하는 제어 허용부를 포함하는 것을 특징으로 하는 디바이스.

청구항 12.

제11항에 있어서, 상기 제어 허용부는

상기 제어포인트 판단부에서 참가하였다고 판단되면, 상기 디바이스에 대한 제어를 허용하는 것을 특징으로 하는 디바이스.

청구항 13.

제11항에 있어서, 상기 제어포인트 판단부는

상기 디바이스를 제어할 수 있는 권한을 나타내는 제어 포인트의 식별자를 이용하여 상기 제어 포인트가 이미 참가하였는지 여부를 판단하는 것을 특징으로 하는 디바이스.

청구항 14.

제13항에 있어서, 상기 제어 포인트의 식별자는

상기 제어 포인트가 참가하고자 하는 도메인에 상기 디바이스로부터 참가가 허용된 경우 생성되는 것을 특징으로 하는 디바이스.

청구항 15.

제11항에 있어서,

상기 디바이스가 참가한 도메인에 상기 제어 포인트가 참가할 수 있는지 여부를 판단하는 참가 판단부; 및

상기 참가 판단부에서 판단된 결과에 응답하여 상기 제어 포인트를 상기 도메인에 선택적으로 참가를 허용하는 참가 허용부를 더 포함하는 것을 특징으로 하는 디바이스.

청구항 16.

제15항에 있어서, 상기 참가 판단부는

상기 제어 포인트가 참가하고자 하는 도메인의 식별자와 상기 디바이스가 참가한 도메인의 식별자의 동일 여부를 기초로 하여 판단하는 것을 특징으로 하는 디바이스.

청구항 17.

제15항에 있어서,

상기 참가가 허용된 제어 포인트에 대하여 상기 디바이스를 제어할 수 있는 권한을 나타내는 제어 포인트의 식별자를 생성하는 식별자 생성부를 더 포함하는 것을 특징으로 하는 디바이스.

청구항 18.

제11항에 있어서,

상기 제어 포인트로부터 상기 디바이스의 상태를 알리는 이벤트에 대한 가입을 요청받는 가입 수신부; 및

상기 제어포인트 판단부에서 판단된 결과에 응답하여 상기 요청한 제어 포인트에게 상기 디바이스의 상태에 관한 메시지를 선택적으로 송신하는 가입 허용부를 더 포함하는 것을 특징으로 하는 디바이스.

청구항 19.

제11항에 있어서,

상기 제어 포인트로부터 상기 도메인에서 탈퇴를 요청받는 탈퇴 수신부; 및

상기 제어포인트 판단부에서 판단된 결과에 응답하여 상기 요청한 제어 포인트를 상기 도메인에서 탈퇴를 허용하는 탈퇴 허용부를 더 포함하는 것을 특징으로 하는 디바이스.

명세서

발명의 상세한 설명

발명의 목적

발명이 속하는 기술 및 그 분야의 종래기술

본 발명은 UPnP(Universal Plug and Play)에 관한 것으로, 보다 상세하게는 UPnP 디바이스(Device)와 제어 포인트(Control Point)로 구성된 UPnP 네트워크에 관한 것이다.

현재, 윈도우(Windows)를 OS(Operating System)로 구동하는 PC(Personal Computer)는 플러그 앤 플레이(Plug and Play) 기능을 사용하여 주변 장치를 자동으로 인식할 수 있도록 하고 있다. 이에 따라, 사용자의 입장에서 주변 장치의 설치가 매우 용이해졌다. UPnP는 이러한 기능을 네트워크 전체에 확장시킨 기술로서 네트워크에 연결된 전자 제품(Electric Appliance)이 서로를 자동으로 인식할 수 있도록 하는 프로토콜(protocol)의 일종이다.

도 1a 및 도 1b는 UPnP 네트워크(120)를 설명하기 위한 개념도를 도시한 것이다.

UPnP 네트워크(120)는 제어 포인트(100) 및 디바이스(110)로 구성된다. 여기서, 디바이스(110)는 피제어 기기(Controlled Device)로서 소정의 서비스를 제공한다. 그리고 제어 포인트(100)는 디바이스(110)가 제공하는 서비스를 제어하여 사용자가 원하는 결과를 획득할 수 있게 한다.

먼저, 제어 포인드(100)가 서비스를 제어할 디바이스(110)를 검색하는 발견(130, Discovery)을 수행한다. 여기서, 발견(130)은 일반적으로 다음과 같은 두가지 방법으로 구현된다. 첫째, 제어 포인트(100)가 HTTP 프로토콜을 전송(Transport) 매개로 하여 M-SEARCH SSDP 메시지를 멀티캐스트(Multicast)하면, 디바이스(110)가 메시지를 수신하여 존재를 응답함으로써 디바이스(110)를 발견한다. 둘째, 디바이스(110)가 새롭게 UPnP 네트워크(120)에 참여하게 되면, HTTP 프로토콜을 전송 매개로 하여 NOTIFY SSDP 메시지를 멀티캐스트하면, 제어 포인트(100)는 메시지를 수신함으로로써 디바이스(110)를 발견한다.

발견(130)에서 제어 포인트(100)가 디바이스(110)를 발견한 후, 디바이스의 역할을 알리는 기기 설명과 서비스 설명을 전송하는 명세(140, Description)를 수행한다. 명세(140)에서 제어 포인트(100)는 HTTP GET Method에 의하여 발견(130)에서 얻을 수 있는 기기 접속 URI(Uniform Resource Identifier)를 통해 디바이스(100)의 역할을 설명하는 기기 설명이 기술된 XML 문서를 얻게 되며, XML 문서를 통해 디바이스(100)가 제공하는 제어 가능한 서비스 설명이 기술된 XML도 얻을 수 있다.

제어(150, Control)는 제어 포인트(100)가 서비스 설명을 획득함으로써 디바이스(110)의 제어를 수행한다. 제어(150)가 가능한 서비스는 작업(Action)이라는 형태로 제공되며, 서비스 설명은 다양한 작업들의 정의를 설명한다. 제어(150)에서 제어 포인트(100)는 서비스 설명을 기반으로 하여 작업을 호출할 수 있는 SOAP 메시지를 작성하여 HTTP를 전송 매개로 하여 디바이스(110)로 메시지를 전송한다. 이러한 전송된 메시지를 수신한 디바이스(110)는 작업에 부합되는 동작을 수행한 후 제어 포인트(100)에 작업의 호출 결과를 전송한다.

상태(160, Eventing)는 디바이스(110)에서 상태 변수가 변경될 때 제어 포인트(100)로 변경된 상태 변수의 값을 GENA 메시지로 구성하여 메시지로 알린다. 디바이스(110)는 사전에 메시지 수신을 등록한 제어 포인트(100)에만 전송한다.

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이러한 종래의 UPnP 네트워크(120)의 시나리오에 의하면, 제어 포인트(100)가 디바이스(110)와 네트워크에 의하여 연결되고 발견(130)한 경우 제어 포인트(100)가 디바이스(110)를 제어할 권한이 있는지 여부에 관계없이 제어(150)할 수 있는 문제점을 갖는다. 그러나 점차 UPnP 네트워크가 스마트폰, PDA 등과 같은 이동성이 있고 네트워크 구성이 가능한 제품들로 이용되는 범위가 확대됨에 따라 디바이스와 네트워크에 의하여 연결된 제어 포인트 가운데 특정한 제어 포인트만이 디바이스를 제어할 수 있는 UPnP 네트워킹 시나리오가 요구되고 있다.

발명이 이루고자 하는 기술적 과제

본 발명이 이루고자 하는 기술적 과제는, 디바이스가 참가한 도메인에 이미 참가한 특정 제어 포인트에게만 제어를 선택적으로 허용하는 디바이스의 제어 허용 방법 및 그를 이용한 디바이스를 제공하는 것이다.

발명의 구성

상기의 과제를 이루기 위한 본 발명에 의한 디바이스의 제어 허용 방법은, 디바이스가 참가한 도메인에 제어 포인트가 이미 참가하였는지 여부를 판단하는 단계 및 상기 판단된 결과에 따라 상기 제어 포인트에게 상기 디바이스에 대한 제어를 선택적으로 허용하는 단계를 포함하는 것을 특징으로 한다.

상기된 발명을 컴퓨터에서 실행시키기 위한 프로그램을 기록한 컴퓨터로 읽을 수 있는 기록 매체인 것을 특징으로 한다.

상기의 과제를 이루기 위한 본 발명에 의한 디바이스는, 디바이스가 참가한 도메인에 제어 포인트가 이미 참가하였는지 여부를 판단하는 판단부 및 상기 판단된 결과에 응답하여 상기 제어 포인트에게 상기 디바이스에 대한 제어를 선택적으로 허용하는 제어 허용부를 포함하는 것을 특징으로 한다.

이하, 첨부된 도면들을 참조하여 본 발명의 바람직한 실시예에 따른 디바이스의 제어 허용 방법 및 그를 이용한 디바이스에 대해 상세히 설명한다.

도 2는 본 발명의 바람직한 일 실시예에 따른 디바이스의 제어 허용 방법 및 그를 이용한 디바이스를 설명하기 위한 개념도를 도시한 것이다.

제1 내지 제6 디바이스(231 내지 236)는 제1 제어 포인트(211) 및 제2 제어 포인트(212)에 대하여 피제어 기기로서 소정의 서비스를 제공한다. 제1 및 제2 제어 포인트(211 및 212)는 제1 내지 제6 디바이스(231 내지 236)가 제공하는 서비스를 제어하여 사용자가 원하는 결과를 획득할 수 있게 한다.

여기서, 제1 내지 제6 디바이스(231 내지 236), 제1 및 제2 제어 포인트(211 및 212)는 동일한 네트워크에 연결되어 있지만, 제1 제어 포인트(211), 제1 내지 제3 및 제5 디바이스(231 내지 233 및 235)는 제1 도메인(201)에 참가되어 있으며, 제2 제어 포인트(212), 제2 내지 제5 디바이스(232 내지 235)는 제2 도메인(202)에 참가되어 있다.

본 실시예에 의한 디바이스의 제어 허용 방법 및 그를 이용한 디바이스에 의한 UPnP 네트워크 시나리오에 따르면, 디바이스와 네트워크에 의하여 연결된 제어 포인트 가운데 디바이스와 동일한 도메인에 참가된 제어 포인트만이 디바이스를 제어할 수 있도록 한다. 예를 들어, 제1 제어 포인트(211)는 제1 도메인(201)에 참가되어 있는 제1 내지 제3 및 제5 디바이스(231 내지 233 및 235)를 제어할 수 있지만, 제1 제어 포인트(211)가 제2 도메인(202)에는 참가되어 있지 않으므로 네트워크에 의하여 연결되어 있는 제4 및 제6 디바이스(234 및 236)를 제어할 수 없다. 또한, 제2 제어 포인트(212)도 제2 도메인(202)에 참가되어 있는 제2 내지 제5 디바이스(232 내지 235)를 제어 할 수 있지만, 제2 제어 포인트(212)가 제1 도메인(201)에 참가되어 있지 않으므로 제1 디바이스(231)를 제어할 수 없다.

도 3a는 본 발명에 의한 디바이스의 제어 허용 방법에서 참가(join)의 일 실시예를 흐름도로 도시한 것이다.

먼저, 제300단계에서 디바이스(110)는 제어 포인트(100)로부터 참가 메시지를 수신받는다. 도 3b에 도시된 [REQUEST] 메시지는 참가 메시지의 일 실시예를 도시한 것이다. 제300단계에서 참가 메시지는 소정의 도메인에 참가하기 위한 메시지로서 UPnP 네트워크를 구분하는 소정의 도메인을 나타내는 도메인 식별자(DOMAIN-ID, domain identifier)를 포함한다.

여기서, 도메인 식별자는 UPnP 프로토콜의 범위 밖에서 설정되고, 도메인 식별자에 대한 기밀성은 UPnP 프로토콜 범위 밖에서 유지되며, 도메인에 참가하는 모든 UPnP 디바이스는 동일한 식별자를 가지고 있다. 제어 포인트는 참가하고자 하는 UPnP 네트워크에 대한 도메인 식별자가 사전에 기 설정되어 있으며, 디바이스는 외부에서 사용자에 의해 도메인이 설정된다.

제300단계에서 수신받은 참가 메시지에서 디바이스(110)는 도메인 식별자를 추출할 수 있는지 여부를 판단한다(제310단계).

제310단계에서 도메인 식별자를 추출할 수 없다고 판단되면, 제300단계에서 수신받은 참가 메시지가 도메인 식별자에 대한 필드(field)를 가지고 있지 않는 경우로서 제어 포인트(100)는 도메인에 참가할 수 없으므로 디바이스(110)는 제300단계에서 수신된 참가 메시지에 응답하지 않음으로써 처리를 종료한다.

제310단계에서 도메인 식별자를 추출할 수 있다고 판단되면, 디바이스(110)는 제300단계에서 수신된 참가 메시지에 포함된 도메인 식별자를 추출한다(제320단계).

제320단계에서 추출된 도메인 식별자가 도메인 식별자의 목록에 기 등록되어 있는지 여부를 디바이스(110)는 판단한다(제330단계). 여기서, 도메인 식별자의 목록은 디바이스(110)가 이미 참가한 도메인의 식별자들이 저장된 리스트를 말한다.

제330단계에서 도메인 식별자의 목록에 등록되어 있지 않다고 판단되면, 제어 포인트(100)는 도메인에 참가할 수 없으므로 디바이스(110)는 제300단계에서 수신된 참가 메시지에 응답하지 않음으로써 처리를 종료한다. 왜냐하면, 제어 포인트(100)가 참가하고자 하는 도메인과 디바이스(110)가 참가한 도메인이 상이하기 때문이다.

제330단계에서 도메인 식별자의 목록에 등록되어 있다고 판단되면, 제어 포인트(100)는 도메인에 참가할 수 있으므로 디바이스(110)는 응답 메시지를 제어 포인트(100)로 전송한다(제340단계). 제340단계에서는 제어 포인트(100)가 참가하고자 하는 도메인과 디바이스(110)가 참가한 도메인이 동일하므로 디바이스(110)에 대한 제어를 제어 포인트(100)에 허용한다.

제340단계에서 디바이스(110)는 디바이스(110)를 제어할 수 있는 권한을 나타내는 제어 포인트 식별자(CP-ID, control point identifier)를 생성하고, 응답 메시지에 생성된 제어 포인트 식별자를 포함시켜 전송한다. 제340단계에서 생성된 제어 포인트 식별자는 제어가 허용된 제어 포인트의 리스트에 해당하는 제어 포인트 식별자의 목록에 등록하여 저장한다. 도 3b에 도시된 [RESPONSE] 메시지는 응답 메시지의 일 실시예를 도시한 것이다.

도 4a는 본 발명에 의한 디바이스의 제어 허용 방법에서 제어(control)의 일 실시예를 흐름도로 도시한 것이다.

먼저, 제400단계에서 디바이스(110)는 제어 포인트(100)로부터 제어 메시지를 통하여 액션(action)의 호출을 수신받는다. 여기서, 액션의 호출에 해당하는 SOAP 메시지는 HTTP 헤더(header)에 제어 포인트 식별자를 포함한다. 도 4b에 도시된 [REQUEST] 메시지는 제어 메시지의 일 실시예를 도시한 것이다.

제400단계에서 수신받은 제어 메시지에서 제어 포인트 식별자를 추출할 수 있는지 여부를 디바이스(110)는 판단한다(제410단계).

제410단계에서 제어 포인트 식별자를 추출할 수 없다고 판단되면, 제400단계에서 수신된 제어 메시지에 제어 포인트 식별자에 대한 필드를 가지고 있지 않는 경우로서 제340단계에서 디바이스(110)에 대한 제어가 허용되지 않은 제어 포인트(100)이므로 디바이스(110)는 제400단계에서 수신된 제어 메시지에 응답하지 않음으로써 처리를 종료한다.

제410단계에서 제어 포인트 식별자를 추출할 수 있다고 판단되면, 디바이스(110)는 제400단계에서 수신된 제어 메시지의 HTTP 헤더에서 제어 포인트 식별자를 추출한다(제420단계).

제420단계에서 추출된 제어 포인트 식별자가 제340단계에서 저장된 제어 포인트 식별자의 목록에 등록되어 있는지 여부를 디바이스(110)는 판단한다(제430단계).

제430단계에서 제어 포인트 식별자의 목록에 등록되어 있지 않다고 판단되면, 디바이스(110)는 제400단계에서 수신된 제어 메시지에 응답하지 않음으로써 처리를 종료한다. 이는 디바이스(110)가 참가한 도메인과 동일한 도메인에 제어 포인트(100)가 참가하여 제340단계에서 응답 메시지에 포함되어 전송받은 제어 포인트 식별자를 가지고 있지 않으므로 제어 포인트(100)가 디바이스(110)에 대한 제어가 허용되지 않았기 때문이다.

제430단계에서 제어 포인트 식별자의 목록에 등록되어 있다고 판단되면, 디바이스(110)는 제400단계에서 수신받은 제어 메시지를 처리하여 UPnP 규격 상의 액션을 수행한다(제440단계).

제440단계 후에, 디바이스(110)는 응답 메시지를 제어 포인트(100)로 전송한다(제450단계). 제450단계에서 응답 메시지는 제440단계에서 수행된 작업 결과 및 제어 포인트 식별자를 포함한다. 도 4b에 도시된 [RESPONSE] 메시지는 응답 메시지의 일 실시예를 도시한 것이다.

도 5a는 본 발명에 의한 디바이스의 제어 허용 방법에서 가입(subscribe)의 일 실시예를 흐름도로 도시한 것이다.

먼저, 디바이스(110)는 제어 포인트(100)로부터 가입 메시지를 수신받는다(제500단계). 제500단계에서 가입 메시지는 제어 포인트 식별자를 포함한다. 도 5b에 도시된 [REQUEST] 메시지는 가입 메시지의 일 실시예를 도시한 것이다.

제500단계에서 수신받은 가입 메시지에서 제어 포인트 식별자를 추출할 수 있는지 여부를 디바이스(110)는 판단한다(제510단계).

제510단계에서 제어 포인트 식별자를 추출할 수 없다고 판단되면, 제500단계에서 수신된 제어 메시지에서 제어 포인트 식별자에 대한 필드를 가지고 있지 않는 경우로서 디바이스(110)는 제500단계에서 수신된 가입 메시지에 응답하지 않음으로써 처리를 종료한다.

제510단계에서 제어 포인트 식별자를 추출할 수 있다고 판단되면, 디바이스(110)는 제500단계에서 수신된 가입 메시지에서 제어 포인트 식별자를 추출한다(제520단계).

제520단계에서 추출된 제어 포인트 식별자가 제340단계에서 저장된 제어 포인트 식별자의 목록에 등록되어 있는지 여부를 디바이스(110)는 판단한다(제530단계).

제530단계에서 제어 포인트 식별자의 목록에 등록되어 있지 않다고 판단되면, 디바이스(100)로부터 제어를 허용받은 제어 포인트(100)가 아니므로 디바이스(110)는 제500단계에서 수신된 가입 메시지에 응답하지 않음으로써 처리를 종료한다. 이는 디바이스(110)가 참가한 도메인과 동일한 도메인에 제어 포인트(100)가 참가하여 제340단계에서 응답 메시지에 포함되어 전송받은 제어 포인트 식별자를 가지고 있지 않으므로 제어 포인트(100)가 디바이스(110)에 대한 제어가 허용되지 않았기 때문이다.

제530단계에서 도메인 식별자의 목록에 등록되어 있다고 판단되면, 디바이스(110)는 디바이스(110)에 가입한 제어 포인트의 목록에 해당하는 가입 리스트에 제어 포인트(100)를 등록한다(제540단계).

제540단계 후에, 현재 디바이스(110)의 상태 변수값을 포함한 응답 메시지를 전송한다(제550단계). 제550단계에서 응답 메시지는 제어 포인트 식별자를 포함한다. 도 5b에 도시된 [RESPONSE] 메시지는 응답 메시지의 일 실시예를 도시한 것이다.

도 6a는 본 발명에 의한 디바이스의 제어 허용 방법에서 탈퇴(leave)의 일 실시예를 흐름도로 도시한 것이다.

먼저, 제600단계에서 디바이스(110)는 제어 포인트(100)로부터 탈퇴 메시지를 수신받는다. 제600단계에서 탈퇴 메시지는 제어 포인트(100)가 구성되었던 도메인에서 탈퇴를 표시하며, 제어 포인트 식별자를 포함한다. 도 6b에 도시된 [REQUEST] 메시지는 탈퇴 메시지의 일 실시예를 도시한 것이다.

제600단계에서 수신받은 탈퇴 메시지에서 제어 포인트 식별자를 추출할 수 있는지 여부를 디바이스(110)는 판단한다(제610단계).

제610단계에서 제어 포인트 식별자를 추출할 수 없다고 판단되면, 제600단계에서 수신받은 탈퇴 메시지에 제어 포인트 식별자에 대한 필드를 가지고 있지 않는 경우로서 도메인에 참가하여 디바이스(110)는 제600단계에서 수신된 탈퇴 메시지에 응답하지 않음으로써 처리를 종료한다.

제610단계에서 제어 포인트 식별자를 추출할 수 있다고 판단되면, 디바이스(110)는 제600단계에서 수신된 탈퇴 메시지에 포함된 제어 포인트 식별자를 추출한다(제620단계).

제620단계에서 추출된 제어 포인트 식별자가 제340단계에서 저장된 제어 포인트 식별자의 목록에 등록되어 있는지 여부를 디바이스(110)는 판단한다(제630단계).

제630단계에서 제어 포인트 식별자의 목록에 등록되어 있지 않다고 판단되면, 디바이스(110)는 제600단계에서 수신된 탈퇴 메시지에 응답하지 않음으로써 처리를 종료한다. 이는 제어 포인트(100)가 디바이스(110)가 참가한 도메인과 동일한 도메인에 참가하지 않았으므로 디바이스(110)로부터 생성된 제어 포인트 식별자를 전송받지 못했기 때문이다.

제630단계에서 도메인 식별자의 목록에 등록되어 있다고 판단되면, 디바이스(110)는 제340단계에서 저장된 제어 포인트 식별자의 목록에서 해당하는 제어 포인트 식별자를 삭제한다(제640단계).

제640단계 후에, 디바이스(110)는 응답 메시지를 제어 포인트(100)로 전송한다(제650단계). 제650단계에서 응답 메시지는 도메인 식별자를 포함한다. 도 6b에 도시된 [RESPONSE] 메시지는 응답 메시지의 일 실시예를 도시한 것이다.

도 7은 본 발명에 의한 디바이스의 일 실시예를 블럭도로 도시한 것이다.

메시지 수신부(700)는 제어 포인트(100)로부터 송신된 참가 메시지, 제어 메시지, 가입 메시지 및 탈퇴 메시지를 수신받는다.

식별자 추출부(710)는 메시지 수신부(700)에서 수신받은 메시지에서 도메인 식별자 또는 제어 포인트 식별자를 추출한다. 여기서, 식별자 추출부(710)는 메시지 수신부(700)에서 참가 메시지를 수신받은 경우 도메인 식별자를 추출하고, 제어 메시지, 가입 메시지 및 탈퇴 메시지를 수신받은 경우 제어 포인트 식별자를 추출한다.

판단부(720)는 식별자 추출부(710)에서 도메인 식별자 또는 제어 포인트 식별자를 추출할 수 있는지 여부를 판단하고, 만일 추출할 수 있다면 식별자 추출부(710)에서 추출된 도메인 식별자 또는 제어 포인트 식별자가 등록목록 저장부(730)에 저장된 도메인 식별자 또는 제어 포인트 식별자와 동일한 것이 있는지 여부를 판단한다.

여기서, 판단부(720)는 식별자 추출부(710)에서 도메인 식별자 또는 제어 포인트 식별자를 추출할 수 있는지 여부는 식별자 추출부(710)에서 추출하려는 도메인 식별자 또는 제어 포인트 식별자에 대한 필드가 메시지 수신부(700)에서 수신된 메시지에 있는지 여부를 기준으로 하여 판단한다. 만일 판단부(720)에서 도메인 식별자 또는 제어 포인트 식별자를 추출할 수 없다면, 메시지 수신부(700)에서 수신된 메시지에 응답하지 않음으로써 처리를 종료한다.

등록목록 저장부(730)는 디바이스(110)가 참가한 도메인의 식별자에 대한 목록을 저장하고, 참가부(740)에서 참가가 허용된 제어 포인트에 대하여 식별자 생성부(750)에서 생성된 제어 포인트 식별자의 목록을 저장하며, 가입부(760)에서 가입이 허용된 제어 포인트에 대한 가입 리스트를 저장한다.

참가부(740)는 식별자 추출부(710)에서 참가 메시지로부터 추출한 도메인 식별자가 등록목록 저장부(730)의 제어 포인트 식별자의 목록에 저장되어 있다고 판단되면, 제어 포인트(100)를 도메인에 참가를 허용한다.

식별자 생성부(745)는 참가부(740)에서 도메인에 참가가 허용된 제어 포인트(100)에 대하여 디바이스(110)를 제어할 수 있는 권한을 나타내는 제어 포인트 식별자를 생성한다. 또한, 식별자 생성부(745)는 생성된 제어 포인트 식별자를 등록목록 저장부(730)에 기입한다.

제어부(750)는 식별자 추출부(710)에서 제어 메시지로부터 추출한 제어 포인트 식별자가 등록목록 저장부(730)에 저장되어 있다고 판단되면, 메시지 수신부(700)에서 수신된 제어 메시지에 의하여 호출된 액션을 수행한다.

가입부(760)는 식별자 추출부(710)에서 가입 메시지로부터 추출한 제어 포인트 식별자가 등록목록 저장부(730)에 저장되어 있다고 판단되면, 등록목록 저장부(730)에 저장된 가입 리스트에 제어 포인트의 식별자를 기입하고 제어 포인트(100)에 송신할 디바이스(110)의 상태 변수값을 생성한다.

탈퇴부(760)는 식별자 추출부(710)에서 탈퇴 메시지로부터 추출한 제어 포인트 식별자가 등록목록 저장부(730)의 제어 포인트 식별자의 목록에 저장되어 있다고 판단되면, 등록목록 저장부(730)에 저장된 제어 포인트 식별자의 목록에서 해당하는 제어 포인트 식별자를 삭제한다.

메시지 송신부(780)는 메시지 수신부(700)에서 수신받은 메시지에 대한 응답 메시지를 제어 포인트(100)에 송신한다. 여기서, 메시지 송신부(780)는 참가부(740)에서 생성된 제어 포인트 식별자를 참가 메시지에 대한 응답 메시지에 포함하여 송신한다. 또한, 메시지 송신부(780)는 제어 메시지, 가입 메시지 또는 탈퇴 메시지에 대한 응답메시지에 제어 포인트 식별자를 포함하여 송신한다.

본 발명은 컴퓨터로 읽을 수 있는 기록 매체에 컴퓨터(정보 처리 기능을 갖는 장치를 모두 포함한다)가 읽을 수 있는 코드로서 구현하는 것이 가능하다. 컴퓨터가 읽을 수 있는 기록 매체는 컴퓨터 시스템에 의하여 읽혀질 수 있는 데이터가 저장되는 모든 종류의 기록 장치를 포함한다. 컴퓨터가 읽을 수 있는 기록 장치의 예로는 ROM, RAM, CD-ROM, 자기 테이프, 하드 디스크, 플로피 디스크, 광데이터 저장 장치 등이 있다.

이러한 본원발명의 이해를 돕기 위하여 도면에 도시된 실시예를 참고로 설명되었으나, 이는 예시적인 것에 불과하며, 당해 분야에서 통상적 지식을 가진 자라면 이로부터 다양한 변형 및 균등한 타 실시예가 가능하다는 점을 이해할 것이다. 따라서, 본 발명의 진정한 기술적 보호 범위는 첨부된 특허청구범위에 의해 정해져야 할 것이다.

발명의 효과

본 발명에 의한 디바이스의 제어 허용 방법 및 그를 이용한 디바이스에 의하면, 디바이스가 참가한 도메인에 이미 참가한 특정 제어 포인트에게만 제어를 선택적으로 허용함으로써 디바이스가 특정한 제어 포인트에게만 제어받을 수 있다. 이에 의하여 동일한 네트워크에 연결된 제어 포인트이더라도 도메인에 참가하지 않으면 디바이스를 제어할 수 없도록 하는 효과를 거둘 수 있다.

도면의 간단한 설명

도 1a 및 1b는 UPnP 네트워크(120)를 설명하기 위한 개념도를 도시한 것이다.

도 2는 본 발명에 의한 디바이스의 제어 허용 방법 및 그를 이용한 디바이스를 설명하기 위한 개념도를 도시한 것이다.

도 3a는 본 발명에 의한 디바이스의 제어 허용 방법에서 참가(join)의 일 실시예를 흐름도로 도시한 것이다.

도 3b는 본 발명에 의한 디바이스의 제어 허용 방법에서의 참가 메시지의 일 실시예이다.

도 4a는 본 발명에 의한 디바이스의 제어 허용 방법에서 제어(control)의 일 실시예를 흐름도로 도시한 것이다.

도 4b는 본 발명에 의한 디바이스의 제어 허용 방법에서의 제어 메시지의 일 실시예이다.

도 5a는 본 발명에 의한 디바이스의 제어 허용 방법에서 가입(subscribe)의 일 실시예를 흐름도로 도시한 것이다.

도 5b는 본 발명에 의한 디바이스의 제어 허용 방법에서의 가입 메시지의 일 실시예이다.

도 6a는 본 발명에 의한 디바이스의 제어 허용 방법에서 탈퇴(leave)의 일 실시예를 흐름도로 도시한 것이다.

도 6b는 본 발명에 의한 디바이스의 제어 허용 방법에서의 탈퇴 메시지의 일 실시예이다.

도 7은 본 발명에 의한 디바이스의 일 실시예를 블록도로 도시한 것이다.

〈도면의 주요 부호에 대한 간단한 설명〉

700: 메시지 수신부 710: 식별자 추출부

720: 판단부 730: 등록목록 저장부

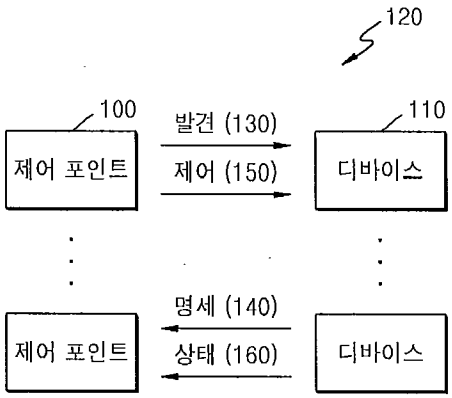
740: 참가부 745: 식별자 생성부

750: 제어부 760: 가입부

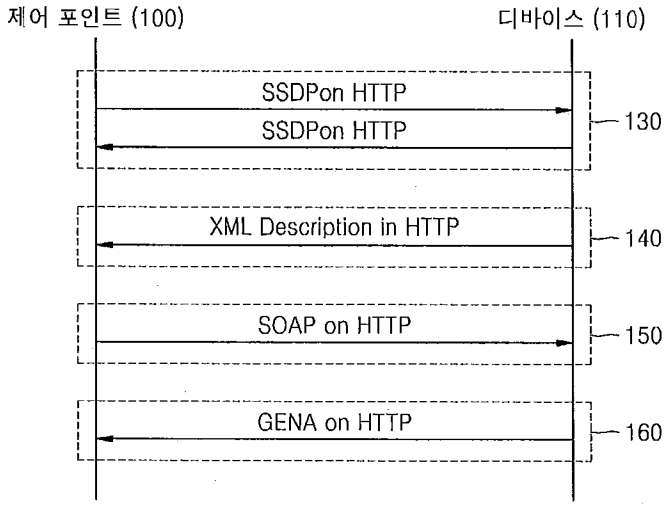
770: 탈퇴부 780: 메시지 송신부

도면

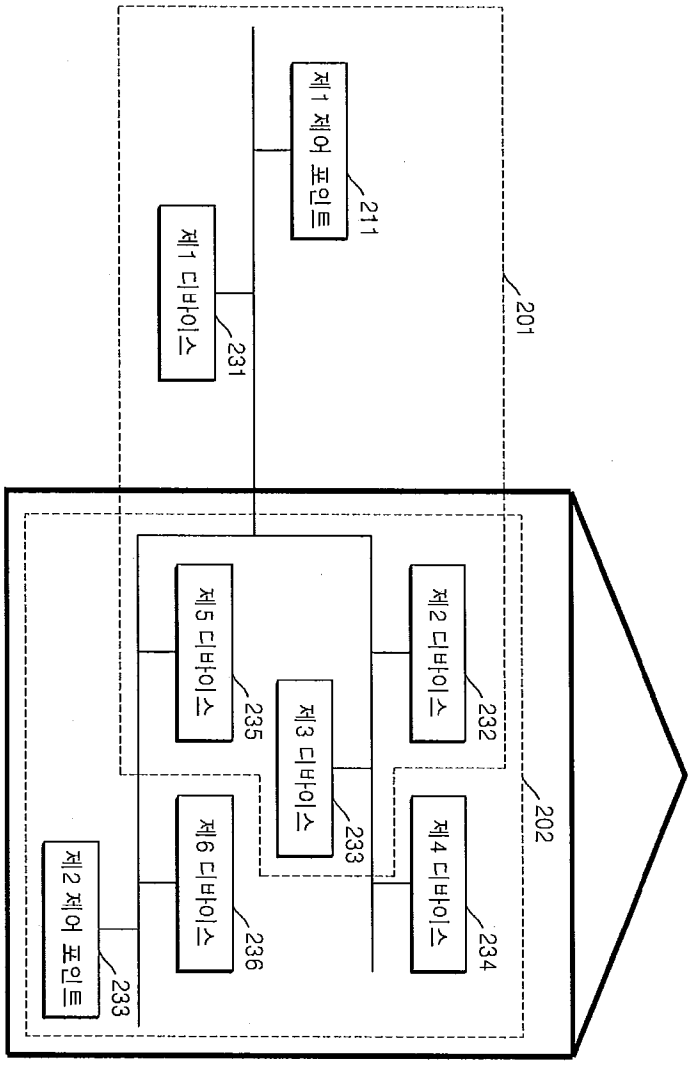
도면1a



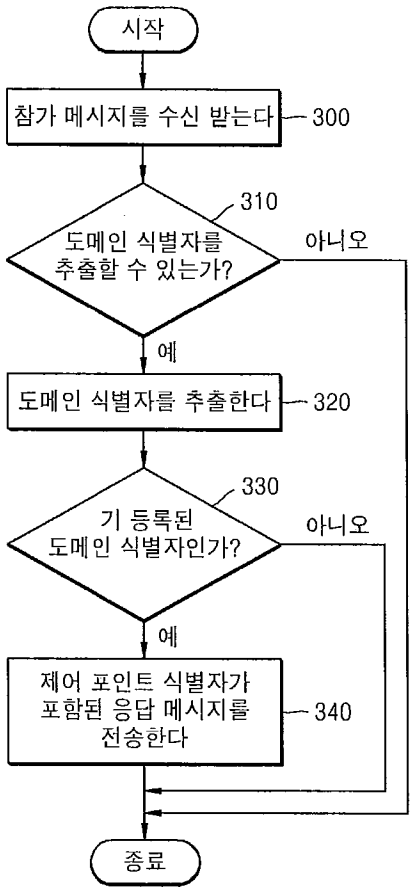
도면1b



도면2


201
제1 제어 포인트
211
제1 디바이스
231
202
제2 디바이스
232
제3 디바이스
233
제4 디바이스
234
제5 디바이스
235
제6 디바이스
236
제2 제어 포인트
233

도면3a



도면3b

[REQUEST]

JOIN *path domain URL* HTTP/1.1

HOST: hostname:portNumber

USER-AGENT: *OS/version* UPnP/1.1 *product/version*

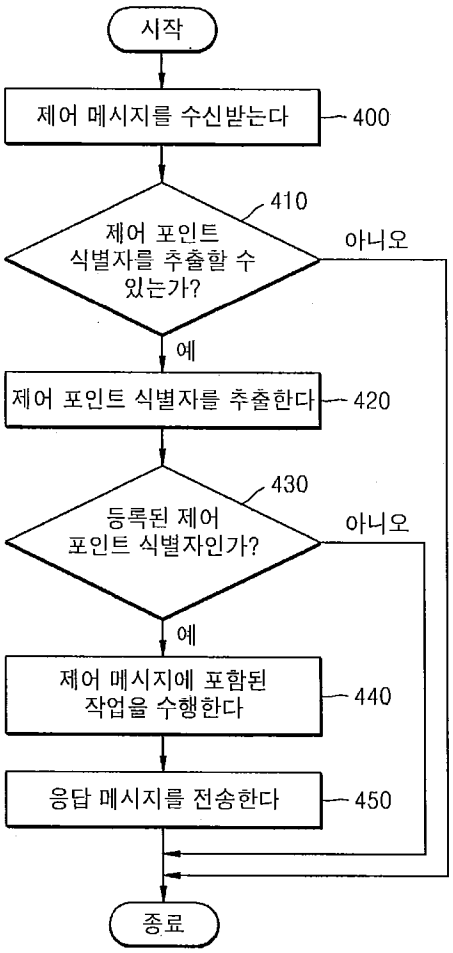
DOMAIN-ID: domain *identifier*

[RESPONSE]

HTTP/1.1 200 OK

CP-ID: *control point identifier*

도면4a


시작
제어 메시지를 수신받는다
400
410
제어 포인트 식별자를 추출할 수 있는가?
아니오
예
제어 포인트 식별자를 추출한다
420
430
등록된 제어 포인트 식별자인가?
아니오
예
제어 메시지에 포함된 작업을 수행한다
440
응답 메시지를 전송한다
450
종료

도면4b

[REQUEST]

POST *path control* URL **HTTP/1.0**

HOST: hostname:portNumber

CONTENT-LENGTH: *bytes in body*

CONTENT-TYPE: text/xml; charset="utf-8"

USER-AGNET: *OS/version* UPnP/1.1 *product/version*

CP-ID: *control point identifier*

SOAPACTION: "urn:schemas-upnp-org:service:*serviceType*:*v#actionName*"

POST *path control* URL **HTTP/1.1**

HOST: hostname:portNumber

Transfer-Encoding: "chunked"

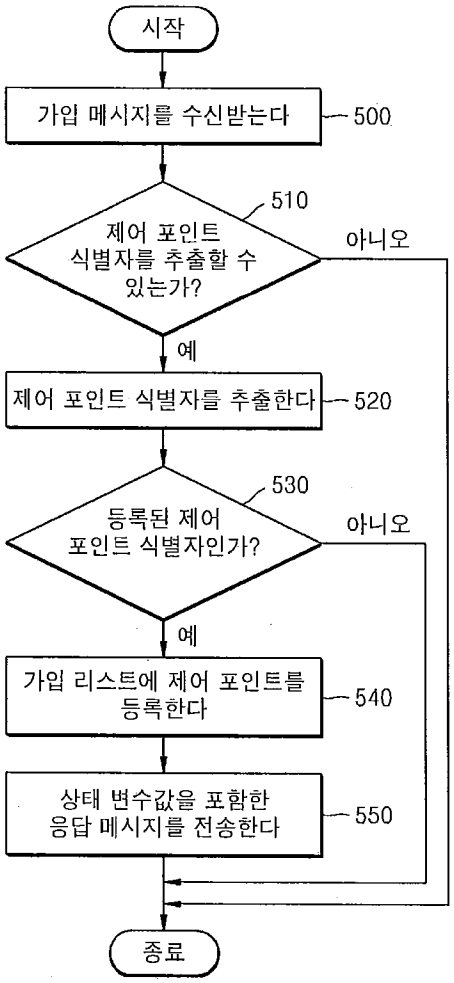
CONTENT-TYPE: text/xml; charset="utf-8"

USER-AGNET: *OS/version* UPnP/1.1 *product/version*

CP-ID: *control point identifier*

SOAPACTION: "urn:schemas-upnp-org:service:*serviceType*:*v#actionName*"

도면5a



도면5b

SUBSCRIBE *publisher path* HTTP/1.1

HOST: *publisher host:publisher port*

USER-AGENT: *OS/version UPnP/1.1 product/version*

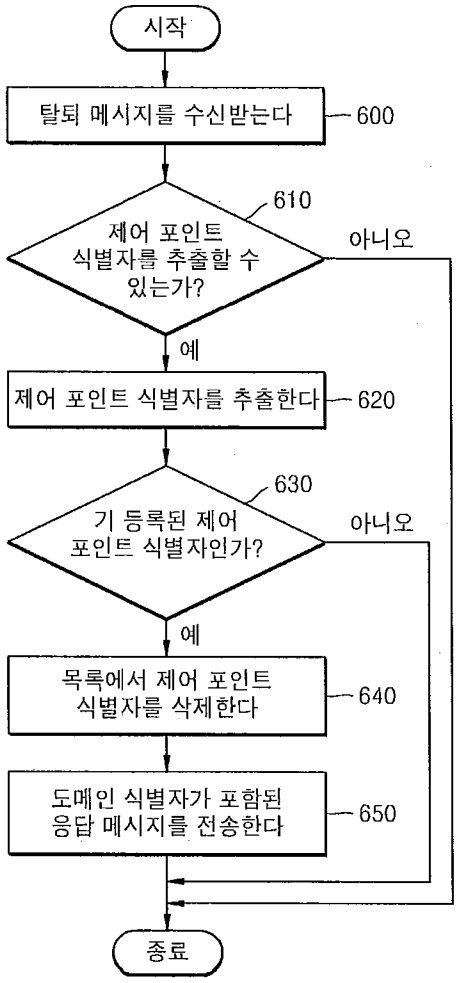
CALLBACK: <*delivery URL*>

NT: upnp:event

TIMEOUT: *Send-requested subscription duration*

CP-ID: *control point identifier*

도면6a



도면6b

[REQUEST]

LEAVE *path domain URL* HTTP/1.1

HOST: hostname:portNumber

USER-AGENT: *OS/version* UPnP/1.1 *product/version*

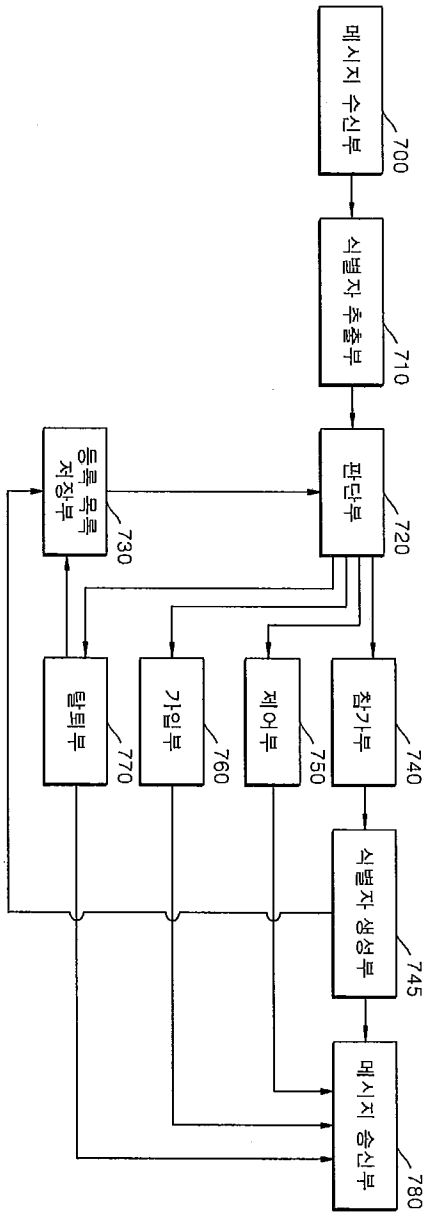
CP-ID: *control point identifier*

[RESPONSE]

HTTP/1.1 200 OK

DOMAIN-ID: *domain identifier*

도면7


메시지 수신부
700
식별자 추출부
710
판단부
720
등록 목록 저장부
730
탈퇴부
770
가입부
760
제어부
750
참가부
740
식별자 생성부
745
메시지 송신부
780

(19) KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11) Publication number: 1020050060685 A

(43) Publication date: 22.06.2005

(21) Application number: 1020030092385

(22) Application date: 17.12.2003

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(72) Inventor:
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- YOON, SONG YEE

(51) Int. Cl: H04Q 7/24

(54) METHOD FOR CHECKING TYPE INFORMATION OF A USER TERMINAL, AND ITS SYSTEM, CAPABLE OF CONSTRUCTING AND OFFERING SERVICES APPROPRIATED FOR A DEVICE, A LOCATION, AN AGE OR AN INCLINATION ON A BASIS OF USER INFORMATION COLLECTIVELY MANAGED BY A SERVER WHEN A USER USES A DEVICE WHERE A CORRESPONDING TERMINAL SUCH AS A HANDSET, A ROBOT, A VEHICLE OR A PERSONAL COMPUTER IS MOUNTED BY UTILIZING A TERMINAL CONNECTED TO THE SERVER VIA A NETWORK

(57) Abstract:

PURPOSE: A method for checking type information of a user terminal, and its system are provided to analyze a life pattern according to a user life style, and to offer personally optimized life solutions to various kinds of terminals via user friendly character interfaces when the user uses a device where a terminal like a handset, a robot, a vehicle or a personal computer, connected to a server via a network is mounted.

CONSTITUTION: A system for checking type information of a user terminal comprises a network(50), a device, a personal information management database server(60) and a service content management database server(70). The device, connected to the network(50), can be a handset(10), a robot(20), a

vehicle(30), or a personal computer(40) which has a corresponding agent(10a,20a,30a,40a). The personal information management database server(60), linked with the device, stores personal information on a location, an age or an inclination collected by each agent and offers the personal information. The service content management database server(70), linked with the personal information management database server(60), offers service content, appropriate for each user on a basis of the personal information, to the user via the agent.

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Legal Status

Date of request for an examination (20081217)

Notification date of refusal decision (00000000)

Final disposal of an application (registration)

Date of final disposal of an application (20101223)

Patent registration number (1010066730000)

Date of registration (20101230)

Number of opposition against the grant of a patent ( )

Date of opposition against the grant of a patent (00000000)

Number of trial against decision to refuse ( )

Date of requesting trial against decision to refuse ( )

Date of extinction of right ( )

(19) 대한민국특허청(KR)
(12) 등록특허공보(B1)

(45) 공고일자 2011년01월10일
(11) 등록번호 10-1006673
(24) 등록일자 2010년12월30일

(51) Int. Cl.
H04W 8/18 (2009.01) *G06Q 50/00* (2006.01)
(21) 출원번호 10-2003-0092385
(22) 출원일자 2003년12월17일
심사청구일자 2008년12월17일
(65) 공개번호 10-2005-0060685
(43) 공개일자 2005년06월22일
(56) 선행기술조사문헌
KR1020030006717 A*
KR1020030069308 A*
*는 심사관에 의하여 인용된 문헌

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전체 청구항 수 : 총 13 항 심사관 : 문성돈

(54) 사용자의 단말 형태정보 파악방법 및 그 시스템

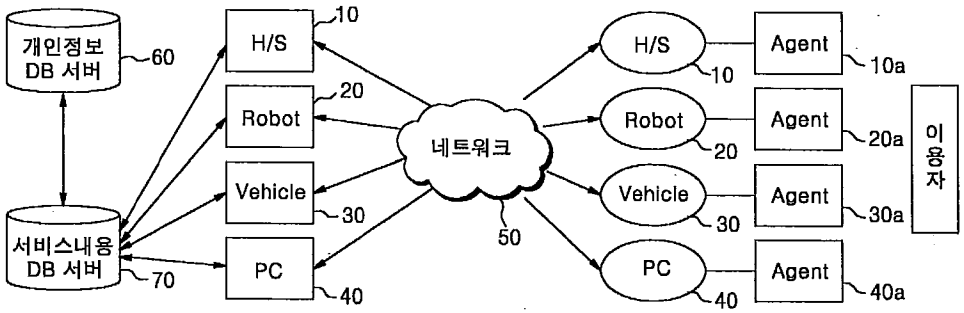
(57) 요 약

본 발명은 사용자의 단말 형태정보 파악방법 및 그 시스템에 관한 것으로서, 고객의 라이프 스타일에 따른 생활 패턴을 분석하여 개인에게 최적화된 라이프 솔루션(Life solution)을 고객에게 친근한 캐릭터 인터페이스(I/F)를 통하여 각종 단말로 서비스를 제공하는 기술에 관한 것이다.

본 발명에 의하면, 네트워크와; 상기 네트워크와 연결되며, 해당 에이전트(agent)가 장착된 소정의 디바이스(Device); 상기 디바이스와 연동되며, 해당 에이전트를 통해 수집된 개인 정보에 대한 데이터베이스를 구축하여 제공하는 개인정보 DB서버; 및 상기 개인정보 DB서버와 연동되어 개인 정보를 바탕으로 각 개인에 적합한 컨텐츠별 서비스 내용을 해당 에이전트를 통해 제공하는 서비스내용 DB서버를 포함하는 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템을 제시한다.

따라서, 기존의 모바일 인터넷 브라우저 상의 서비스 형태별로 수직 분할된 각 CP의 컨텐츠를 CI 서비스를 통하여 수평 집약적 구조로 형성함으로써 개인에게 최적화된 형태로 서비스를 제공할 수 있다.

대 표 도 - 도1



EWS-003227

특허청구의 범위

청구항 1

네트워크와;

상기 네트워크와 연결되며, 해당 에이전트(agent)가 장착된 디바이스(Device)로서 핸드셋(H/S), 로봇(Robot) 및 차량(Vehicle) 중 적어도 2개 이상을 포함하는 복수의 서로 다른 디바이스들;

상기 디바이스와 연동되며, 상기 해당 에이전트를 통해 수집된 개인 정보에 대한 데이터베이스를 구축하여 제공하는 개인정보DB서버; 및

상기 개인정보 DB서버와 연동되어 개인 정보를 바탕으로 각 개인에 대한 컨텐츠별 서비스 내용을 상기 해당 에이전트를 통해 제공하는 서비스내용 DB서버를 포함하고,

상기 해당 에이전트를 통해 수집하는 개인정보는 호 이력(call history), 단문메시지(SMS) 및 CI 어플리케이션에 관한 정보인 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템.

청구항 2

청구항 1에 있어서, 상기 디바이스로서 컴퓨터(PC)를 더 포함하는 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템.

청구항 3

청구항 2에 있어서, 상기 디바이스들 중 핸드셋(H/S), 로봇(Robot), 차량(Vehicle)에 해당되는 에이전트는 무선 LAN 또는 CDMA를 이용하여 접속하는 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템.

청구항 4

청구항 1에 있어서, 상기 개인정보 DB서버에는 개인의 연령, 취향, 위치에 대한 정보데이터가 구비되는 것을 특징으로하는 사용자의 단말 형태정보 파악 시스템.

청구항 5

지능형 통신단말시스템(CITS)을 이용한 사용자의 단말 형태정보 파악 시스템에 있어서,

지능형 통신(CI) 서비스를 구현하기 위한 고객 사용 패턴을 수집하는 Mobile 플랫폼과;

고객 사용 패턴을 수집함과 더불어 대기모드를 장악해서 고객에게 단말의 개별 서비스를 접근할 수 있는 사용자 인터페이스(UI) 및 접근 경로를 제공하는 CI 어플리케이션;

상기 Mobile 플랫폼과 CI 어플리케이션로부터 수집된 정보를 바탕으로 CI 서비스가 가능하도록 고객의 성향 분석을 위한 센싱(Sensing), 대기모드의 배달 및 실행, 어플리케이션 간의 연계 기능을 하는 CI 매니저; 및

상기 CI 매니저로부터 전송되는 고객의 성향 데이터를 분석하여 고객에게 풀/푸시(Pull/Push) 형으로 서비스를 제공하는 CI Server 플랫폼을 포함하는 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템.

청구항 6

청구항 5에 있어서, 상기 CI 어플리케이션에서는 개별 어플리케이션을 통째로 호출하는 방식 혹은 어플리케이션, 라이브러리(Library) 형태의 모듈로 호출하는 방식을 이용하여 사용자 인터페이스(UI) 및 접근 경로를 제공하는 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템.

청구항 7

청구항 5에 있어서, 상기 CI 서비스에서의 센싱(Sensing) 대상에는 Call 발/착신, SMS 발/착신, MMS 발/착신, 단말 Power ON/OFF, Morning Call Alarm, 및 기지국 정보가 포함되는 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템.

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청구항 8

청구항 5 또는 청구항 7에 있어서, 상기 CI 서비스에서의 센싱(Sensing) 접근방식은 센싱 대상의 히스토리(History)을 단말에 로그(Log)를 남기는 히스토리 로깅(History Logging) 방식과, 단말에 남긴 로그(Log)를 서버로 전송하는 로그 전송(Log Transfer) 방식을 이용하는 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템.

청구항 9

청구항 8에 있어서, 상기 히스토리 로깅(History Logging) 방식에는 고객의 위치에 대한 로깅을 일정 시간 간격으로 현재 상태를 남기는 시간주기(Time Period) 방식과, 특정한 사건이 있을 때마다 그 시점을 기록하는 방식으로서 사건구동(Event Driven) 방식이 더 포함되는 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템.

청구항 10

청구항 8에 있어서, 상기 로그 전송(Log Transfer) 방식에는

서버가 SMS Push를 사용하여 히스토리(History)를 요청할 때 마다 전송하는 서버요청 시점마다 전송하는 방식과;

미리 설정된 시간 간격 마다 축적된 단말 로그(Log)를 서버로 전송하는 일정시간마다 전송하는 방식; 및

특정 사건(위치의 변화, Call History 발생, SMS History 발생) 발생시 마다 서버로 전송하는 방식이 더 포함되는 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템.

청구항 11

청구항 5에 있어서, 상기 CI 서비스에서 위치 감지(Location Sensing)를 위한 위치(Location) 정보는 핸드셋(Handset)이 무선통신을 하기 위한 자신의 위치 정보를 활용하며, 기지국 ID 및 GPS 단말일 경우 GPS ID가 위치정보가 되는 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템.

청구항 12

청구항 11에 있어서, 상기 위치 감지에 대한 로깅(Logging) 및 로그 전송(Log Transfer)은 특정 지역에 도달했거나 셀(Cell)이 변경 될 때마다 전송하는 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템.

청구항 13

지능형 통신단말시스템(CITS)을 이용한 사용자 단말 형태정보 파악 방법에 있어서,

핸드셋(H/S), 로봇(Robot) 및 차량(Vehicle) 중 적어도 2개 이상을 포함하는 복수의 서로 다른 디바이스들로부터 호 이력(call history), 단문메시지(SMS) 및 CI 어플리케이션에 관한 정보를 수집하는 제 1단계와,

상기 수집된 정보들로부터 사용자의 생활 패턴을 분석하여 사용자별 생활 패턴 데이터베이스를 구축하는 제 2단계와,

상기 사용자별 생활 패턴 정보에 의거해서 개인화된 서비스를 상기 디바이스에 배달하는 제 3단계와,

상기 디바이스에서 개인화 서비스를 구동하는 제 4단계를 포함하고,

상기 개인화 서비스의 구동은 상기 복수개의 디바이스 중 어느 디바이스에서도 가능한 것을 특징으로 사용자 단말 형태정보 파악 방법.

청구항 14

삭제

청구항 15

삭제

명 세 서

발명의 상세한 설명

발명의 목적

발명이 속하는 기술 및 그 분야의 종래기술

[0006] 본 발명은 사용자의 단말 형태정보 파악방법 및 그 시스템에 관한 것이다.보다 상세하게는 고객의 라이프 스타일에 따른 생활 패턴을 분석하여 개인에게 최적화된 라이프 솔루션(Life solution)을 고객에게 친근한 캐릭터 인터페이스(I/F)를 통하여 각종 단말로 서비스를 제공하는 기술에 관한 것이다.

[0007] 최근 모바일 인터넷을 통하여 사용자의 욕구를 충족시킬 수 있는 다양한 컨텐츠, 즉 멀티미디어 컨텐츠(Multimedia contents), 위치서비스 컨텐츠(Location service contents), 상업서비스 컨텐츠(Commerce service contents) 등이 컨텐츠 제공자(CP)에 의해 제작되어 인터넷 사용자들에게 제공되고 있다.

[0008] 그러나, 이러한 서비스 제공방법은 고객의 취향에 따른 서비스 형태별로 서로 다른 사용자 인터페이스(UI) 및 컨텐츠 접근방식이 요구되었다. 즉, 종래의 서비스 제공방식은 고객이 자신이 필요한 정보 또는 컨텐츠 서비스를 모바일 인터넷 상에서 일일이 헤매면서 찾아야 하는 번거로움이 있었다.

[0009] 따라서, 기존의 모바일 인터넷 브라우저 상의 서비스 형태별로 수직 분할된 각종 컨텐츠 및 어플리케이션을 수평 집약적 구조로 형성하여 고객에게 최적화된 서비스 형태로 제공할 필요성이 제기되었다.

발명이 이루고자 하는 기술적 과제

[0010] 본 발명은 상기한 문제점을 해결하기 위한 것으로서 본 발명은 네트워크를 이용하여 서버에 연결된 단말을 활용하여 사용자가 핸드셋(H/S), 로봇(Robot), 차량, PC등 해당 단말이 장착된 장치를 이용할 때 서버에서 일괄 관리되는 사용자에 대한 정보를 바탕으로 디바이스, 위치, 연령, 취향에 적절한 서비스를 구성하여 제공할 수 있도록 하는데 그 목적이 있다.

[0011] 상기한 본 발명의 목적을 달성하기 위한 기술적 사상으로서 본 발명은

[0012] 지능형 통신단말시스템(CITS)을 이용한 사용자의 단말 형태정보 파악 시스템에 있어서,

[0013] 지능형 통신(CI) 서비스를 구현하기 위한 고객 사용 패턴을 수집하는 Mobile 플랫폼과;

[0014] 고객 사용 패턴을 수집함과 더불어 대기모드를 장악해서 고객에게 단말의 개별 서비스를 접근할 수 있는 사용자 인터페이스(UI) 및 접근 경로를 제공하는 CI 어플리케이션;

[0015] 상기 Mobile 플랫폼과 CI 어플리케이션으로부터 수집된 정보를 바탕으로 CI 서비스가 가능하도록 고객의 성향 분석을 위한 센싱(Sensing), 대기모드의 배달 및 실행, 어플리케이션 간의 연계 기능을 하는 CI 매니저; 및

[0016] 상기 CI 매니저로부터 전송되는 고객의 성향 데이터를 분석하여 고객에게 풀/푸시(Pull/Push) 형으로 서비스를 제공하는 CI Server 플랫폼을 포함하는 것을 특징으로 하는 사용자의 단말 형태정보 파악 시스템을 제공한다.

발명의 구성 및 작용

[0017] 이하, 본 발명의 실시 예에 대한 구성 및 그 작용을 첨부한 도면을 참조하면서 상세히 설명하기로 한다.

[0018] 도 1은 본 발명에 따른 사용자의 단말 형태정보 서비스 제공을 위한 개념도이다. 도 2는 본 발명에 적용된 지능형 통신단말시스템(CITS)을 이용한 사용자 단말 형태정보 시스템의 구성도이다.

[0019] 본 발명의 설명에 앞서, CITS(Communication intelligence Terminal System)란 고객의 행동 패턴(Pattern) 정보를 서버로 전송해 주며, 고객에게 필요한 개인화된 서비스를 고객 친화적 방식으로 제공하는 서비스를 말한다.

[0020] 도 1에 도시된 바와 같이, 본 발명에 적용된 서비스 개념을 살펴보면 유무선 통신망으로 구축되는 네트워크(50)와; 상기 네트워크(50)와 연결되며, 해당 에이전트(agent)(10a,20a,30a,40a)가 장착된 핸드셋(H/S)(10), 로봇(Robot)(20), 차량(Vehicle)(30), 컴퓨터(PC)(40)를 구비하는 디바이스(Device); 상기 디바이스와 연동되며, 해당 에이전트를 통해 수집된 위치, 연령, 취향 등에 대한 개인 정보 데이터베이스를 구축하여 제공하는 개인정

보 DB서버(60); 및 상기 개인정보 DB서버(60)와 연동되어 개인 정보를 바탕으로 각 개인에 적합한 컨텐츠별 서비스 내용을 해당 에이전트를 통해 제공하는 서비스내용 DB서버(70)로 구성된다.

[0021] 이 때, 상기 디바이스에서 컴퓨터(PC)를 제외한 핸드셋(H/S), 로봇(Robot), 차량(Vehicle)에 해당되는 에이전트는 무선 LAN 또는 CDMA를 이용하여 접속하게 된다.

[0022] 상기와 같이 구성되는 본 발명의 서비스는 개인정보 DB서버(60)와 서비스내용 DB서버(60)를 활용하여 개인 정보의 수집 및 단말별 서비스를 제공하고, 이를 해당되는 각 에이전트를 통해 각 개인에 적합한 컨텐츠별 서비스를 제공하게 된다.

[0023] 또한, 본 발명에 적용된 지능형 통신단말시스템(CITS)은 도 2에 도시된 바와 같이 모바일 플랫폼(Mobile Platform)(110)과, CI 매니저(CI Manager)(120), CI 어플리케이션(CI Application)(130), 및 CI 서버 플랫폼(CI Server Platform)으로 구성된다.

[0024] 각 구성 요소를 좀 더 상세히 살펴보면, 상기 Mobile 플랫폼(110)은 CI(Communication intelligence) 서비스가 구현될 단말의 플랫폼(Platform) 및 하드웨어(H/W)를 나타낸다.

[0025] 상기 CI 매니저(CIM)(120)는 CI 서비스가 가능하도록 공통분모의 코어(core) 기능들을 가지고 있는 모바일 어플리케이션(Mobile Application)으로 고객의 성향분석을 위한 센싱(Sensing) 기능을 한다.

[0026] 또한, 대기모드 어플리케이션(Application)의 D/L 및 실행, CI 어플리케이션간, 기타 어플리케이션간, OEM 기능간의 연계 기능을 갖는다.

[0027] 상기 CI 어플리케이션(130)은 대기모드에 상주할 수 있는 어플리케이션으로 고객과 직접적인 인터페이스(I/F)를 수행하는 기능을 한다.

[0028] 이 때, 상기 CI 어플리케이션(130)은 상주형 어플리케이션과 비상주형 어플리케이션으로 구분할 수 있으며, 상주형 어플리케이션은 대기모드 장악 할 수 있는 기능이 있고, 비상주형 어플리케이션은 일반 어플리케이션과 같이 대기모드 장악이 불가능 하다.

[0029] 상기 CI Server 플랫폼(CISP)(140)은 CITS가 전해주는 고객의 성향을 분석하여 고객에게 풀/푸시(Pull/Push) 형으로 서비스를 제공하는 서버 군 역할을 한다.

[0030] 도 3은 본 발명에 적용된 지능형 통신단말시스템(CITS)을 이용한 사용자 단말 형태정보 제공과정을 나타낸 흐름도이다.

[0031] 도 3을 살펴보면, 고객 사용 패턴을 수집하는 제 1단계(S110)와; 상기 고객 사용 패턴을 전달하는 제 2단계(S120); 개인화된 서비스를 배달하는 제 3단계(S130); 개인화 서비스를 구동하는 제 4단계(S140); 및 개인화 서비스를 고객 친화적 방식으로 제공하는 제 5단계(S150)로 이루어진다.

[0032] 이 때, 상기 제 1단계에서의 고객사용 패턴 수집 정보에는 호 히스토리(Call history), 단문메시지(SMS), CI 어플리케이션에 대한 정보가 포함되며, 상기 제 3단계에서는 감지(Sensing), 판단(Decision), 행위(Behavior)를 바탕으로 개인화된 서비스를 배달한다.

[0033] 상기와 같이 구성된 CITS 구성간의 서비스 과정을 좀 더 구체적으로 살펴보면 다음과 같다.

[0034] 먼저, CISP(140)는 미리 사용자 패턴(Pattern)을 분석하기 위한 사용/위치 히스토리(Usage/Location History)를 어떤 주기로 저장 및 전송할 지 CITS(140)에 설정 한다.

[0035] 그러면, 사용자(User)가 CITS를 사용하게 된다. 이 때, 그에 따른 단말 히스토리(History)가 폰(Phone)에 남게 된다.

[0036] 상기 설정된 주기별로 CIM(120)은 서버로 Usage/Location History를 CISP(140)로 전송한다.

[0037] 이 때, 상기 CISP(140)는 감지/판단(Sensing/Decision) 과정을 거쳐 사용자(User)에게 어떤 정보를 배달할 지 결정한다.

[0038] 그 후, CITS를 통해 풀/푸시(Pull/Push) 방식으로 고객에게 개인화된 서비스가 제공이 된다. 이러한 서비스 제공은 CI 어플리케이션, 기타 어플리케이션, OEM 어플리케이션이 협업하여 제공된다.

[0039] 도 4는 도 2에 도시된 CI 어플리케이션의 상세 구성도이다.

[0040] 본 발명에 적용된 CITS에서 CI 어플리케이션은 고객과의 직접 대면하여, 모든 단말 기능으로 이어지는 일종의 Mobile 서비스 게이트웨이(Gateway)로서 위치한다.

[0041] 이를 설명하기 전에 도 4를 참조하여 우선 CI 서비스에 적용된 어플리케이션(Application)의 종류를 살펴보기로 한다.

[0042] 먼저, CI Main 어플리케이션은 CI 서비스를 제공하는 메인 어플리케이션(Main Application)으로 대기모드를 장악하여 고객에게 모바일(Mobile) 서비스 G/W로서 역할을 제공한다.

[0043] CI 부가 어플리케이션은 CI 서비스의 일환으로 개발한 단위 서비스를 제공하는 어플리케이션으로 대기모드 장악이 불가능 하다. 예컨대, CI-Game, CI-Music.. 등이 해당된다.

[0044] 기타 어플리케이션은 모바일 플랫폼(Mobile Platform)상에서 구동 되는 CI를 제외한 모든 어플리케이션(Application)을 나타낸다. 예컨대, LBS, MMS.. 등이 해당된다.

[0045] OEM 어플리케이션은 OEM에서 기본적으로 제공하는 어플리케이션(Application)을 나타낸다. 예컨대, Call, SMS 등이 해당된다.

[0046] 상기와 같이, CI Main 어플리케이션은 대기모드를 장악해서 고객에게 단말의 개별 서비스를 접근할 수 있는 UI 및 접근 경로를 제공한다.

[0047] 그리고, 실행 시 CI Main 어플리케이션은 적절한 입력(Input) 값을 주고, 실행 후 적절한 개별 서비스는 적절한 출력(Output) 값을 제공한다. 이 때, 연동하는 방식에 다음과 같이 2가지가 존재한다.

[0048] 첫째, 개별 어플리케이션(Application)을 통째로 호출하는 형태를 갖는다.

[0049] UI는 통일성을 유지하기 힘들고, 실행시점에 CI Main 어플리케이션은 보류(Pending)되어 단말의 UI를 장악하지 못한다. 종료 후 일정한 결과 값만을 CI Main 어플리케이션으로 전달한다. UI의 통일성을 위해서는 통째로 호출되는 어플리케이션은 UI에 대한 구현을 CI UI Guide에 맞게 진행해야 한다.

[0050] 둘째, API, Library형태의 모듈로 호출하는 형태를 갖는다.

[0051] CI Main 어플리케이션이 개별 어플리케이션 및 기능의 일부 모듈을 라이브러리(Library)로 호출하여 사용하는 형태로 기본적으로 UI는 통일되게 유지되고 키(Key) 및 사건(Event)처리는 CI Main 어플리케이션이 처리한다. 이를 위한 기능의 지원을 Mobile 플랫폼/CIM이 제공한다.

[0052] 상기에서와 같이, 본 발명에 의한 CI 서비스는 1. 개인의 성향 및 생활 사이클 패턴(Life cycle Pattern) 분석을 위한 단말의 히스토리(History)를 전송하는 센싱(Sensing) 기능; 2. 고객 패턴(Pattern) 분석에 따른 푸시/풀(Push/Pull) 형태의 서비스를 제공하는 서비스 푸싱(Pushing) 기능; 3. CI서비스는 대기모드 장악을 통해서 단말기능의 G/W로서 타 어플리케이션(Application)을 실행/종료 시 적절한 입/출력을 처리하는 수평 집약적(Horizontal Integration) 기능을 갖게 된다.

[0053] 이어서, 본 발명에 적용된 CI 서비스의 감지(Sensing)(Usage/Location History Gathering) 기능에 대하여 살펴보기로 한다.

[0054] 고객의 사용(Usage) 및 위치(Location)의 파악을 위해 두 가지 방식으로 히스토리(History)를 남기고 두 가지 방식으로 서버에 전송한다. 이러한 모든 방식의 설정은 서버에서 CI를 위한 SMS를 통해서 설정을 한다.

[0055] 이 때, 센싱(Sensing)을 단말에서 원천적으로 봉쇄할 수 있다. 이에 대한 설정/해지는 단말의 특정 메뉴를 통해서 고객이 설정한다.

[0056] 1) 센싱(Sensing) 대상

[0057] 센싱(Sensing) 대상은 다음의 정보를 활용하여 고객의 생활 패턴(Pattern)을 파악한다. 센싱(Sensing) 대상은 아래의 표 1(센싱의 항목)보다 다양한 정보일 수 있다.

표 1

세부	Description	확인/요구사항
Call 발/착신	발/착신 번호, 발/착신 시간 통화 시간	
SMS 발/착신	발/착신 번호, 발/착신 시간	
MMS 발/착신	발/착신 번호, 발/착신 시간	
단말 Power On/Off	단말 Power On/Off 시간 정보 (최대 5개)	
Morning Call Alarm	Morning Call Alarm 설정 정보	OEM 상의 설정정보
기지국 정보	기지국 세기, 기지국 ID : 최대 288개	

[0058]

[0059] 2) 히스토리 로깅(History Logging) 방식

[0060] 상기 히스토리 로깅은 History(Sensing대상)을 단말에 로그(Log)로 남기는 것에 대한 정의하며, 여기에는 시간 주기(Time Period) 방식과 사건구동(Event Driven) 방식이 적용된다.

[0061] 먼저, Time Period 방식은 일정시간을 간격(예컨대, 5분 간격)으로 현재 상태를 남기는 방식으로서 고객의 위치에 대한 로깅이 이에 해당된다.

[0062] 그리고, Event Driven 방식은 특정한 사건이 있을 때마다 그 시점을 기록하는 방식으로서 예컨대, Call Event, MMS Event, 등이 이에 해당된다.

[0063] 이 때, 히스토리 로깅(History Logging) 방식은 특정 사용(Usage) 형태마다 다를 수 있다. 즉, 호 히스토리(Call History)는 사건구동(Event Driven)형태 밖에 없을 것이고, 위치 히스토리(Location History)는 시간주기(Time Period), 사건구동(Event Driven) 둘 다 가능하다.

[0064] 그러므로 CIM-CIS 프로토콜(Protocol) 설계 및 API 설계시, 둘 다 가능한 히스토리(History)일 경우 두 가지 방식을 모두 지원할 수 있도록 설정 프로토콜(Protocol)을 제공해야 한다. 아래는 표 2는 히스토리별 로깅 방식의 차이표를 나타낸 것이다.

표 2

항목	Time Period Logging 가능	Event Driven Logging 가능	비고
Call 착/발신	X	O	
MMS 착/발신	X	O	
SMS 착/발신	X	O	
on/off History	X	O	
Moring Call 설정	O	O	Time Period방식이 가능하나 별 의미가 없음
Application 실행정보	X	O	
Location	O	O	
기타 설정정보	O	O	Time Period방식이 가능하나 별 의미가 없음

[0065]

[0066] 이 때, 상기 시간 주기(Time Period) 방식으로 로깅(Logging)이 가능한 히스토리(History)에 대해서는 시간주기 설정이 가능하도록 프로토콜(Protocol) 구성이 필요하다.

[0067] 3) 로그 전송(Log Transfer) 방식

[0068] 상기 로그 전송방식은 단말에 남긴 로그(Log)를 서버로 전송하는 방법은 3가지 종류가 있다.

[0069] 첫째, 서버요청 시점 마다 전송하는 방식은 서버가 SMS Push를 사용하여 히스토리(History)를 요청할 때 마다 전송하는 방식이고, 둘째 일정시간마다 전송하는 방식은 미리 설정된 시간 간격 마다 축적된 단말 로그(Log)를 서버로 전송하는 방식이며, 셋째 이벤트(Event) 발생시 마다 전송하는 방식은 특정 사건 예컨대 위치의 변화, Call History 발생, SMS History 발생 등 Event 발생시 마다 서버로 전송하는 방식이다.

[0070] 이러한 3가지에 대한 설정을 서버는 SMS Push로 단말에 설정한다. 이는 히스토리(History)별로 설정 할 수 있어야 한다. 예컨대 위치(Location)은 사건(Event)마다 알려주고, 호 히스토리(Call History)는 하루에 한번 올린다는 식으로 설정한다.

[0071] 상기와 같이, 서버요청마다 전송(Transfer)하는 것은 따로 설정하는 것이 아니며, 모든 히스토리(History)에 해당 히스토리(History)별로 동시에 설정 가능하다.

[0072] 4) 위치 감지(Location Sensing)

[0073] 상기의 위치 감지 방식은 위치 포맷(Location Format) 방식과, 로깅(Logging) 및 로그 전송(Log Transfer) 방식으로 나뉘다.

[0074] 위치 포맷에서의 위치(Location) 정보는 핸드셋(Handset)이 무선통신을 하기 위한 자신의 위치 정보를 활용한다. 위치정보는 기지국 ID 및 GPS 단말일 경우 GPS ID가 될 수 있다. 이 모두를 위치(Location) ID라고 한다.

[0075] 로깅(Logging) 및 로그 전송(Log Transfer) 방식은 아래의 사항을 제공한다.

[0076] 첫째, 특정 지역에 도달했을 경우 로깅 및 Transfer 제공은 특정지역에 대한 셋팅(Setting)은 CIS가 단말로 미리 특정 Location ID를 설정해 주고, 단말은 이 지역에 도달했을 때 자신의 위치에 대한 로깅(Logging) 및 전송(Transfer)을 제공한다.

[0077] 둘째, 셀(Cell)이 변경 될 때마다 Logging 및 Transfer 제공 방식은 로깅(Logging)을 셀(Cell) 변경 사건(Event)마다(Handoff 시마다) 남기고, 즉시 알리는 것으로 사건구동 로깅 및 전송(Event Driven Logging & Transferring)을 의미한다.

[0078] 마지막으로, 본 발명에 적용된 서비스 푸시(Push) 및 알람(Alarm) 실행에 대하여 도 5를 참조하여 살펴보기로 한다.

[0079] 도 5에 도시된 바와 같이, 서비스 푸시(PUSH)는 SMS를 통해서 서버에서 단말에 어떤 실행을 요청하는 것으로서, 단말의 CIM이 이러한 SMS Push를 관장하여 해당 어플리케이션에 사건(Event)을 전달한다.

[0080] 그 과정을 살펴보면, CIS(Communication Intelligence Server)는 CITS(Communication Intelligence Terminal System)에 특정 TID xxxxx으로 SMS를 송출한다.

[0081] Mobile 플랫폼은 TID xxxxx이 CIM용 Message임을 알고 이에 대한 Event를 CIM(Communication Intelligence Manager)에 전달한다.

[0082] CIM은 AID 4324324324(가상ID임)인 어플리케이션(Application)에 특정 Parameter= "PAM " 전달한다.

[0083] 이 때, CIS가 CIM에 전달하는 서비스 Push는 크게 두 가지 종류가 있다. 1)즉시 Push는 일회성 Push Message(Event)를 특정 어플리케이션에 즉시 전달하며, 2) 예약 Push는 시작시간이후 Push Message(Event)를 특정 어플리케이션에 전달한다.

[0084] 또한, 주기설정 가능, 주기별 재 실행(주기는 시 분 초 단위로 설정) CIM이 어플리케이션에 전달하는 Push Event(즉시/예약 모두 포함됨)는 단말기의 상태별로 다음과 같이 표 3(푸시 이벤트 전달에 다른 단말상태별 액션)에 도시된 액션(Action)을 취한다.

표 3

단말상태	Action
IDLE	CIM은 해당 Application(Push Message 상의 AID를 가지는)을 실행 시키고 Event를 전달한다.
해당 Application이 실행 중	CIM은 해당 Application에 Event만 전달 (이미 실행 중이므로 재실행 필요 없음)
타 Application또는 OEM 실행 중	OEM Application실행 중(ex전화 중) 또는 타 Application이 실행 중일 경우 CIM은 Anuciator 영역에 CI Push Event가 도착했음을 알림. 해당 실행이 종료 되면 CIM은 해당 Application에 Event 전달

[0085]

발명의 효과

[0086] 이상에서와 같이 본 발명에 의한 사용자의 단말 형태정보 파악방법 및 그 시스템에 따르면 다음과 같은 효과가 있다.

[0087] 첫째, 대기화면 상의 캐릭터 인터페이스(Character I/F)를 통하여 친근하고 대화식(Interactive) 서비스를 제공할 수 있다.

[0088] 둘째, 모바일 인터넷 컨텐츠(Mobile Internet Content)를 고객의 성향 및 패턴(Pattern)에 맞게 배달하여 줄 수 있다.

[0089] 셋째, 기존의 모바일 인터넷 브라우저(Mobile Internet Browser)상의 서비스 형태별로 수직 분할된 각 CP의 컨텐츠를 CI 서비스를 통하여 수평 집약적(Horizontal Integration)하여 개인에게 최적화된 형태로 서비스를 제공할 수 있다.

[0090] 넷째, 고객의 성향 및 외부 환경(날씨, 위치, 시간)을 파악하여 적절한 이벤트 및 서비스를 제공할 수 있다.

도면의 간단한 설명

[0001] 도 1은 본 발명에 따른 사용자의 단말 형태정보 서비스 제공을 위한 개념도이다.

[0002] 도 2는 본 발명에 적용된 지능형 통신단말시스템(CITS)을 이용한 사용자 단말 형태정보 시스템의 구성도이다.

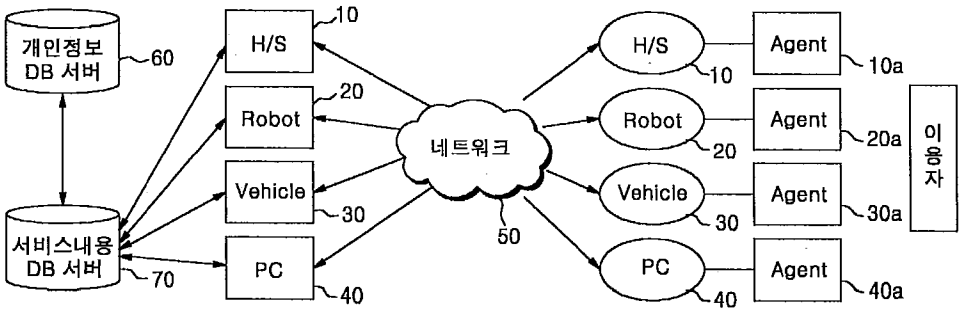
[0003] 도 3은 본 발명에 적용된 지능형 통신단말시스템(CITS)을 이용한 사용자 단말 형태정보 제공과정을 나타낸 흐름도이다.

[0004] 도 4는 도 2에 도시된 CI 어플리케이션의 상세 구성도이다.

[0005] 도 5는 도 2에 도시된 CITS의 서비스 푸시(Push)에 대한 개념도이다.

도면

도면1



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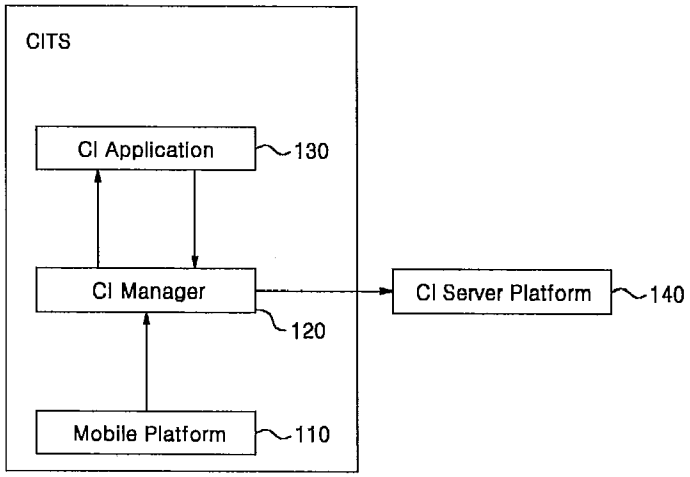

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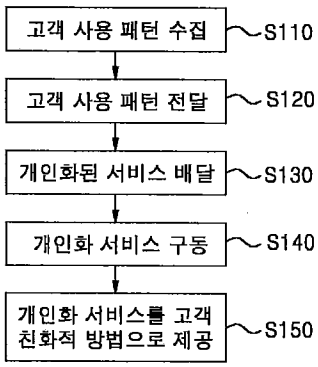

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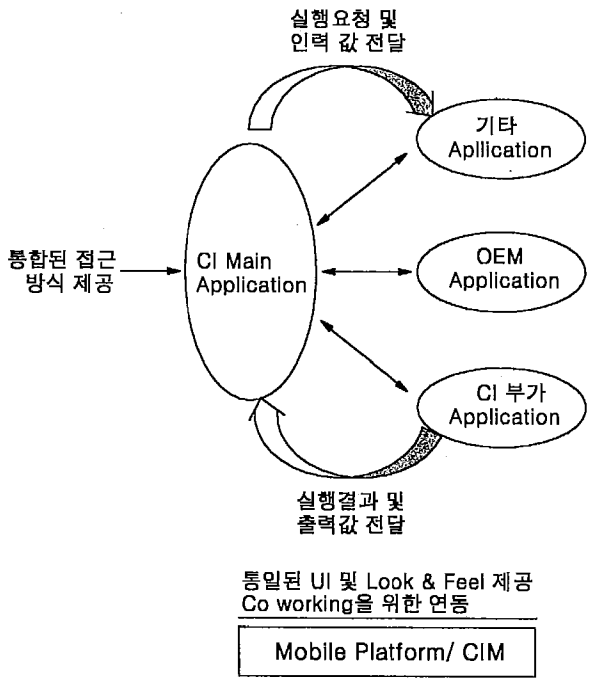
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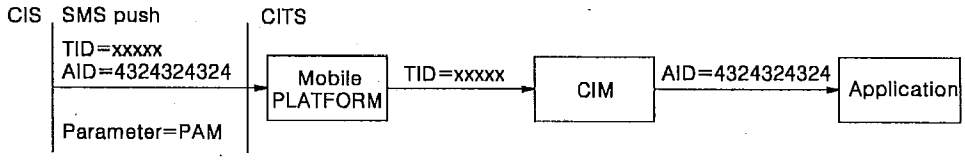
인력 값 전달
기타
Apllication
통합된 접근
방식 제공
CI Main
Application
OEM
Application
CI 부가
Application
실행결과 및
출력값 전달
통일된 UI 및 Look & Feel 제공
Co working을 위한 연동
Mobile Platform/ CIM

도면5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Application

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First Named Inventor	William Grecia
Art Unit	2432
Examiner Name	
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	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)	☐
	2	Author - Mitch Singer - Developing the Digital Market - Publication Source: TechCrunch.com [URL: http://tctechcrunch.files.wordpress.com/2008/08/singer.pdf] - (INTERNET PUBLICATION 8-26-2008)	☐

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	3	7702592		2010-04-20	James H. Taylor	
	4	7515710		2009-04-07	Eric W. Grab	

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	2	6385596		2002-05-07	Wiser; Philip R	
	3	5907617		1999-05-25	Ronning; Joel A	
	4	5903647		1999-05-11	Ronning; Joel A	
	5	5887060		1999-03-23	Ronning; Joel A	
	6	5883955		1999-03-16	Ronning; Joel A	
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	8	5870543		1999-02-09	Ronning; Joel A	

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	1	Author - PRESTON GRALLA - Digital River Launches DRM Solution For Software Publishers - Publication Source: informationweek.com [URL: http://www.informationweek.com/news/18901739] - (INTERNET PUBLICATION DATE: 04-15-2004)	☐
	2	Author - Digital River Corporation - Digital River Announces New Digital Rights Management Service - Publication Source: digitalriver.com [URL: http://www.digitalriver.com/corporate/press_releases/pr_328.shtml] - (INTERNET PUBLICATION DATE: 07-14-2003)	☐
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		20100299254		11/25/2010	Richard Berger, Mitch Singer	

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	1	7290699		2007-11-06	Reddy; Karimireddy Hari	
	2	7340769		2008-03-04	Baugher; Mark John	
	3	7343014		2008-03-11	Sovio; Sampo	
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	6	7624417		2008-11-24	Dua; Robin	

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Application Number	13397517
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First Named Inventor	William Grecia
Art Unit	2431
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	1	20020010759		2002-01-24	Hitson; Bruce L	
	2	20020157002		2002-10-24	Messerges; Thomas S.	
	3	20030220880		2003-11-27	Lao; Guillermo	
	4	20040024670		2004-02-05	Valenzuela; Edgar	
	5	20040062400		2004-04-01	Sovio; Sampo	
	6	20040162786		2004-08-19	Cross; David B	
	7	20040220878		2004-11-04	Lao; Guillermo	
	8	20050066353		2005-03-24	Fransdonk; Robert	
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	12	20060259852		2006-11-16	Upendran; Manish	
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	16	20070179854		2007-08-02	Ziv; Aran	
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	18	20070250445		2007-10-25	Ache; Marc	
	19	20080027869		2008-01-31	Kalker; Antonius	
	20	20080091606		2008-04-17	Grecia; William	
	21	20080109911		2008-05-08	Tedesco; Megan Lesley	
	22	20080165956		2008-07-10	Zhu; Bin	

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	23	20090012805		2009-01-08	Schnell; Patrik	
	24	20090049556		2009-02-19	Vrielink; Koen Hendrik Johan	
	25	20090083541		2009-03-26	Levine; Scott	
	26	20090183010		2009-07-16	Schnell; Patrik	
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	34	20090328228		2009-12-31	Schnell, Patrik	

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	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)	☐
	2	Author - WILLIAM GRECIA - Next Generation Digital Delivery STR3EM Ecosystem Replaces DVD And Blu-Ray - Publication Source: mi2n.com [URL: http://mi2n.com/press.php3?press_nb=130517] - (INTERNET PUBLICATION DATE: 05-28-2010)	☐
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	Application Number	13397517
	Filing Date	
	First Named Inventor	William Grecia
	Art Unit	2431
	Examiner Name	
	Attorney Docket Number	

	5	Author - RICK MERRITT - Analysis: Hollywood's next digital media gambit - Publication Source: eetimes.com [URL: http://www.eetimes.com/design/audio-design/4005862/Analysis-Hollywood-s-next-digital-media-gambit] - (INTERNET PUBLICATION DATE: 11-02-2008)	☐
	6	Author - ETHAN SMITH - Disney Touts a Way to Ditch the DVD - Publication Source: Wall Street Journal Online [URL: http://online.wsj.com/article/NA_WSJ_PUB:SB10001424052748703816204574485650026945222.html] - (INTERNET PUBLICATION DATE: 09-21-2009)	☐
	7	Author - Neda Ulaby - Introducing UltraViolet: Buy Your Digital Movie Once, Play It Anywhere? - Publication Source: NPR Online [URL: http://www.npr.org/blogs/monkeysee/2010/07/19/128626624/introducing-ultraviolet-buy-your-movie-once-play-it-anywhere] - (INTERNET PUBLICATION DATE: 07-20-2010)	☐
	8	Author - WILLIAM GRECIA - The Retail Zip Company Releases Secure Electronic Media Format STR3EM To Replace DVD And Blu-ray - Publication Source: mi2n.com [URL: http://mi2n.com/press.php3?press_nb=122843] - (INTERNET PUBLICATION DATE: 09-03-2009)	☐

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Application Number	13397517
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		US-20030051149	03-13-2003	Robert, Arnaud	
		US-20050182727	08-18-2005	Robert, Arnaud	
		US-20050182931	08-18-2005	Robert, Arnaud	
		US-20050198510	09-08-2005	Robert, Arnaud	
		US-20050216752	09-29-2005	Robert, Arnaud	
		US-20080114992	05-15-2008	Robert, Arnaud	
		US-20080137869	06-12-2008	Robert, Arnaud	
		US-20090086975	04-02-2009	Robert, Arnaud	
		US-20090089884	04-02-2009	Robert, Arnaud	
		US-20090106850	04-23-2009	Robert, Arnaud	
		US-20100027796	03-04-2010	Robert, Arnaud	
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	Application Number	13397517
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	First Named Inventor	William Grecia
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	1	Author - CONNECTED MEDIA EXPERIENCE ORG- CMX specification - Publication Source: connectedmediaexperience.org [URL: www.connectedmediaexperience.org/technicaloverview.html] - (INTERNET PUBLICATION)	☐
	2	Author - SMPTE ORG - Digital Cinema DCP MXF speifications - Publication Source: smpte.org [URL: www.smpte.org/standards] - (INTERNET PUBLICATION)	☐
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	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)	☐
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	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)	☐
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Application Number	13397517
Filing Date	
First Named Inventor	William Grecia
Art Unit	
Examiner Name	Unknown
Attorney Docket Number	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 6611812	08-26-2003	Hunsado; Marco M.	
		US- 7568111	07-28-2009	Aive, Jukka	
		US- 20090164776	06-25-2009	Tuoriniemi; Samuli	
		US- 20080209576	08-28-2008	Noening; Malcolm H.	
		US- 20100057871	03-04-2010	Kaplan; Gregg	
		US- 6665797	12-16-2003	Keung; Tse Ho	
		US- 5586186	12-17-1996	Yuval; Gideon A.	
		US- 5719938	02-17-1998	Haas; Zygmunt	
		US- 5010571	04-23-1991	Katznelson; Ron D.	
		US- 5247575	09-21-1993	Sprague; Peter J.	
		US- 5267313	11-30-1993	Hiraia; Kozo	
		US- 5319705	06-07-1994	Halter; Bernard J.	
		US- 5349642	09-20-1994	Kingdon; Kevin	
		US- 5509074	04-16-1996	Choudhury; Abhijit K.	
		US- 5737416	04-07-1998	Cooper; Thomas Edward	
		US- 7516495	04-07-2009	Shoemaker; Charles H.	
		US- 20050138406	06-23-2005	Cox, Alan	
		US- 7594275	09-22-2009	Zhu; Bin	
		US- 20100043077	02-18-2010	Robert; Arnaud	

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Application Number	13397517
Filing Date	
First Named Inventor	Grecia, William
Art Unit	2432
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Name/Print	William Grecia	Registration Number	70984

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EFS ID:	12152193
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	70984
Filer:	William Grecia
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Attorney Docket Number:	B7-1
Receipt Date:	24-FEB-2012
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Application Type:	Utility under 35 USC 111(a)

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Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/SB/424 (12-11)

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	William Grecia	Nonprovisional Application Number (if known):	Not Assigned
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i), the prioritized examination fee set forth in 37 CFR 1.17(c), and if not already paid, the publication fee set forth in 37 CFR 1.18(d) have been filed with the request. The basic filing fee, search fee, examination fee, and any required excess claims and application size fees are filed with the request or have been already been paid.

2. The application contains or is amended to contain no more than four independent claims and no more than thirty total claims, and no multiple dependent claims.

3. The applicable box is checked below:

I. ☑ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed oath or declaration under 37 CFR 1.63 is filed with the application.

II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature David Lewis	Date Feb 15, 2012
Name (Print/Typed) David Lewis	Practitioner Registration Number 33,101

Note: *Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the form of the signature. If necessary, submit multiple forms for more than one signature, see below*.*

☑ *Total of 1 forms are submitted.

TITLE

PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of, and claims the priority benefit of, US patent application co-pending Serial Number 12/985,351 titled PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS) filed January 6, 2011; which is a continuation of, and claims the priority benefit of, US patent application Serial Number 12/728,218 filed March 21, 2010, which are both incorporated herein by reference, in their entirety.

BACKGROUND OF THE INVENTION

[0002] 1. Field of the Invention

[0003] The present invention 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. More specifically, the present invention teaches 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.

[0004] 2. Description of the Prior Art

[0005] Digital rights management (DRM) is a generic term for access control technologies used by hardware manufacturers, publishers, copyright holders and individuals to impose limitations on the usage of digital content across devices. DRM refers to any technology that inhibits undesirable or illegal uses of the digital content. The term generally doesn't refer to 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.

[0006] Traditional 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 ceases to offer services.

[0007] In the present scenario, 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 of the model number. This was achieved by writing the machine device ID to the

metadata of the media file, then cross referencing with a trusted clearinghouse according to pre-set rules. 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) the 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.

[0008] 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. User rights and restrictions are established during this first-use action with the corresponding hosting device of a DRM protected product.

[0009] 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 via 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.

[00010] Recently, 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 will family members.

[00011] 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.

[00012] In the light of the foregoing discussion, the 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 loosing 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 media from unlicensed distribution to sustain long-term return of investments.

SUMMARY OF THE INVENTION

[00013] An object of the present invention is to provide unlimited interoperability of digital media between unlimited machines with management of end-user access to the digital media.

[00014] In accordance with an embodiment of the present invention, 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 the at least one excelsior enabler utilizing at least one membership. Here, controlled by the at least one excelsior enabler, The App will proceed to receive the at least one token to verify the authenticity of the branding action and further requests; then establish at least one connection with at least one programmable communications console of the at least one membership to request and receive the at least one electronic identification reference; and could request and receive other data information from the at least one membership. The method then involves sending and receiving variable data information from The App to the at least one membership to verify a preexisting the at least one branding action of the at least one writable metadata as part of the at least one digital media asset; or to establish permission or denial to execute the at least one branding action or the post read and write requests of the at least one writable metadata. To do this, controlled by the 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 at least one excelsior enabler provides reestablished credentials to the programmable communications console as part of the 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 at least one membership and The App.

[00015] In accordance with another embodiment of the present invention, the present invention teaches a method for monitoring access to an encrypted digital media and facilitating unlimited interoperability between a plurality of data processing devices. The method comprises receiving a branding request from at least one communications console of the plurality of data processing devices, the branding request being a read and write request of metadata of the encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media. Subsequently, the membership verification token is authenticated, the authentication being performed in connection with a token database. Thereafter, connection with the at least one communications console is established. Afterwards, at least one electronic identification reference is requested from the at least one communications console. Further, the at least one electronic identification reference is received from the at least one communications console. Finally, branding metadata of the encrypted digital media is performed by writing the membership verification token and the electronic identification reference into the metadata.

[00016] The present 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.

BRIEF DESCRIPTION OF THE DRAWINGS

[00017] For a more complete understanding of the present invention, the needs satisfied thereby, and the objects, features, and advantages thereof, reference now is made to the following description taken in connection with the accompanying drawings.

[00018] FIG. 1 shows a system for monitoring access to an encrypted digital media according to an embodiment of the present invention.

[00019] FIG. 2 shows a system for authoring an encrypted digital media according to an embodiment of the present invention.

[00020] FIG. 3 shows a flow chart giving an overview of the process of digital media personalization according to an embodiment of the present invention.

[00021] FIG. 4 shows a flow chart giving an overview of the process of an access request made by an enabler according to an embodiment of the present invention.

[00022] FIG. 5 shows personalized digital rights management component as part of a compatible machine with writable static memory.

[00023] FIG.6 shows a flowchart for monitoring access to an encrypted digital media according to an embodiment of the present invention

[00024] FIG.7 shows a flowchart showing authoring an encrypted digital media according to an embodiment of the present invention.

[00025] Skilled artisans will appreciate that elements in the figures are illustrated for simplicity and clarity and have not necessarily been drawn to scale. For example, the dimensions of some of the elements in the figures may be exaggerated relative to other elements to help to improve understanding of embodiments of the present invention

DETAILED DESCRIPTION OF THE DRAWINGS

[00026] Before describing in detail the particular system and method for personalised digital media access system in accordance with an embodiment of the present invention, it should be observed that the present invention resides primarily in combinations of system components related to the device of the present invention.

[00027] Accordingly, the system components have been represented where appropriate by conventional symbols in the drawings, showing only those specific details that are pertinent to understanding the present invention so as not to obscure the disclosure with details that will be readily apparent to those of ordinary skill in the art having the benefit of the description herein.

[00028] In this document, relational terms such as `first` and `second`, and the like may be used solely to distinguish one entity or action from another entity or action without necessarily requiring or implying any actual such relationship or order between such entities or actions. 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. An element proceeded by `comprises . . . a` does not, without more constraints, preclude the existence of additional identical elements in the process, method, article, or apparatus that comprises the element.

The present invention is directed at 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 enabler and secondary enablers defined comprises human beings or computerized mechanisms

programmed to process steps of the invention as would normally be done manually by a human being. Additionally, 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.

[00029] 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.

[00030] FIG. 1 shows a system **100** for monitoring access to an encrypted digital media according to an embodiment of the present invention. The system **100** includes a first recipient module **102**, an authentication module **104**, a connection module **106**, a request module **108**, a second receipt module **110** and a branding module **112**. The first receipt module **102** receives a branding request from at least one communications console of the plurality of data processing devices. 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. Examples of the encrypted digital media includes, and are not limited to, one or more 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.

[00031] Subsequently, the authentication module **104** authenticates the membership verification token. The authentication is performed in connection with a token database. Further, the connection module **106** establishes communication with the at least one communication console.

[00032] According to an embodiment of the present invention, the connection is established through one of internet, intranet, Bluetooth, VPN, Infrared and LAN.

[00033] According to another embodiment of the present invention, the communication console is a combination of an Application Programmable interface (API) protocol and graphic user interface (GUI) as a part of web service. The API is a set of routines, data structures, object classes, and /or protocols provided by libraries and / or operating system services. The API is either one of language dependent or language independent.

[00034] The request module **108** requests at least one electronic identification reference from the at least one communication console. The second receipt module **110** receives the at least one electronic identification reference from the least one communication console. The branding module **112** brands metadata of the encrypted digital media by writing the membership verification token and the electronic identification into the metadata.

[00035] **FIG. 2** shows a system **200** for authoring an encrypted digital media according to an embodiment of the present invention. The figure includes a selection module **202**, a password module **204**, a customization module **206**, a database module **208** and an

encryption module **210**. The selection module **202** facilitates selection of one or more media items to form the encrypted digital media. Examples of the one or media items include, and are not limited to, one or more of a video, an audio and a game.

[00036] According to an embodiment of the present invention, the one or more media items are one or more of remote URL links and local media files.

[00037] The password module **204** prompts the user to enter a master password which provides access to the encrypted digital media. Subsequently, the customization module **206** allows the user to customize the user access panel of the encrypted digital media.

[00038] According to an embodiment of the present invention, the customization module **206** facilitates adding one or more of a banner, a logo, an image, an advertisement, a tag line, a header message and textual information to the user access panel of the encrypted digital media.

[00039] Further, the database module **208** connects the encrypted digital media to a database of membership verification token required for decrypting the encrypted digital media.

[00040] 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.

[00041] The encryption module **210** encrypts the one or more media items to create the encrypted digital media.

[00042] According to an embodiment of the present invention, the system **200** further includes a watermark module. The watermark module watermarks information on the

encrypted digital media, wherein the watermark is displayed during playback of the encrypted digital media.

[00043] According to another embodiment of the present invention, the system **200** further includes an access module. The access module allows the user to define access rights. Examples of the access rights include, but are not limited to, purchasing rights, rental rights and membership access rights.

[00044] According to yet another embodiment of the present invention, the system **200** further includes a name module. The name module allows the user to name the encrypted digital media.

[00045] FIG. 3 shows a flow chart giving an overview of the process of digital media personalization according to an embodiment of the present invention. The process is achieved by way of an enabler using an apparatus or otherwise known as an application in which facilitates digital media files. The apparatus interacts with all communicative parts required to fulfill the actions of the invention. The figure shows a Kodekey Graphical User Interface (GUI) **301**, a product metadata **302**, a networking card **303**, internet **304**, **306** and **308**, database **305** and **309** and an APIwebsite.com GUI **307**. A user posts a branding request via the Kodekey GUI interface **301**. The Kodekey GUI interface **301** is the GUI for entering token. The Kodekey GUI interface **301** prompts the user to enter the token and press the redeem button present on the Kodekey GUI interface **301**. The product metadata **302** is read / writable metadata associated with the digital media to be acquired. The networking card **303** facilitates querying of optional metadata branding process and referenced. The Kodekey GUI interface is connected to the database **305** via the internet **304** through the networking card **303**. The database **305** is the database used to read/write and store the tokens, also referred to as token database. The user is redirected to the APIwebsite.com GUI **307** through the internet

306. The APIwebsite.com is the GUI to the membership API in which the electronic ID is collected and sent back to the Kodekey GUI interface **301**. The APIwebsite.com GUI **307** prompts the user to enter a login id and a password to access the digital media which is acquired from the database **309** through the internet **308**. The database **309** is the database connected to the web service membership in which the user's electronic ID is queried from.

[00046] Examples of the encrypted digital files include, and are not limited to, a video file, an audio file, container formats, documents, metadata as part of video game software and other computer based apparatus in which processed data is facilitated.

[00047] FIG. 4 shows a flow chart giving an overview of the process of an access request made by an enabler according to an embodiment of the present invention. Subsequently, the communicative parts to cross-reference information stored in the metadata of the digital media asset are checked which has been previously handled by the process of FIG. 1. The figure shows an enabler access request **401**, a product metadata **402**, a networking card **403**, an internet **404**, **406** and **408**, a database **405** and **409** and an APIwebsite.com GUI **407**, The enabler access request **401** facilitates the user to make a request for the digital media. The product metadata **402** is read / writable metadata associated with the digital media to be acquired. The networking card **403** facilitates querying of optional metadata branding process and referenced. The database **405** is the database used to read/write and store the tokens. The APIwebsite.com GUI **407** is the GUI in which the electronic ID is collected and sent back to the Kodekey GUI interface **301.** The APIwebsite.com GUI **407** prompts the user to enter a login id and a password to access the digital media from the database **409** through the internet **408**. The database **409** is the database connected to the web service membership in which the user's electronic ID is queried from.

[00048] FIG. 5 shows personalized digital rights management component as part of a compatible machine with writable static memory. The figure represents an authorization sequence action in which a machine is authorized to accept a personalized digital media file. The figure includes STR3EM Machine GUI **501** including the connect icon **502**, a load key file icon **503**, a networking card **504**, an internet **505**, **508** and **510**, a database **506** and **511**, a machine memory **507** and a APIwebsite.com GUI **509**. The STR3EM Machine GUI **501** prompts the user to connect or load a key file to authorize the device through the connect icon **502** and the load key file icon **503**. The STR3EM Machine GUI **501** is connected to the networking card **504**. The networking card **504** facilitates querying of optional metadata branding process and referenced. Further, the STR3EM machine GUI **501** is connected to the database **506** via the internet **505**. The database **506** is the database used to read/write and store the tokens. Moreover, STR3EM Machine GUI **501** is connected to the machine memory **507**. The machine memory **507** represents the internal memory of the machine or device so authorizations can be saved for access of the digital media. The APIwebsite.com GUI **509** is connected to the STR3EM machine GUI through the internet **508**. Further, APIwebsite.com GUI **509** is connected to the database **511** through the internet **510**. The APIwebsite.com GUI **509** prompts the user to enter the login id and a password to authorize the access to digital media. The database **511** is the database connected to the web service membership in which the user's electronic ID is queried from.

[00049] FIG.6 shows a flowchart for monitoring access to an encrypted digital media according to an embodiment of the present invention. At step **602**, a branding request is made by a user from at least at least one communications console of the plurality of data processing devices. The branding request is a read and write request of metadata of the encrypted digital media.

[00050] According to an embodiment of the present invention, the request includes a membership verification token corresponding to the encrypted digital media.

[00051] Subsequently, the membership verification token is authenticated at step **604**. The authentication is performed in connection with a token database. Further, connection with the at least communication console is established at step **606**. Afterwards, at least one electronic identification reference is requested from the at least one communications console at the step **608**. At step **610**, at least one electronic identification reference in received from the at least one communication console. Finally, metadata of the encrypted digital media is branded by writing the membership verification token and the electronic identification reference into the metadata at the step **612**.

[00052] **FIG.7** shows a flowchart showing authoring an encrypted digital media according to an embodiment of the present invention. At step **702**, one or more media items are selected by the user to form the encrypted digital media. Subsequently, a master password is entered for providing access to the encrypted digital media for editing at step **704**. Afterwards, the user customizes the user panel of the encrypted digital media at step **706**. Further, the encrypted digital media is connected to a database of membership verification tokens required for decrypting the encrypted digital media at the step **708**. Finally, the one or more media items are encrypted to create the encrypted digital media at the step **710.**

[00053] According to various embodiments of the present invention, the verification is facilitated by at least one token handled by at least one excelsior enabler. Examples of the token include, and are not limited to, a structured or random password, e-mail address associated with an e-commerce payment system used to make an authorization payment, or other redeemable instruments of trade for access rights of digital media. Examples of e-commerice systems are PayPal, Amazon Payments, and other credit card services.

[00054] According to an embodiment of the present invention, an identifier for the digital media is stored in a database with another database of a list of associated tokens for cross-reference identification for verification.

[00055] According to an embodiment of the present invention, the database of a list of associated tokens includes Instant Payment Notification (IPN) received from successful financial e-commerce transactions that includes the identifier for the digital media; import of CSV password lists, and manually created reference phrases.

[00056] For this discussion, the structured or random password example will be used as reference. The 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.

[00057] According to an embodiment of the present invention, the tokens are stored in a relational database such as MySQL or Oracle.. 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.

[00058] The verification will reference to the 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 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. 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 my 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 an 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 the apparatus. By using the "PUT" requests parameter, tokens generated by the apparatus are monitored,

calculated, and charged to clients of the apparatus provider. For example: the default charge measure for DevPay is $0.05 for every 1000 PUT requests. By changing the amount to $100 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.

[00059] The authentication element of this invention is at least handled first by the at least one excelsior enabler with a connection to a membership. In the present discussion, 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 the connected apparatus might look like:

API Key

37a925fc5ee9b4752af981b9a30e9a73gh

Application Secret

f2a2d92ef395cce88eb0261d4b4gsa782

Application ID

51920566446

[00060] The 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 encrypted digital media metadata and inserted on-the-fly into calls made to the API from the connected apparatus. This allows dynamic API connection of the apparatus using keys issued to individual content providers so in the event of a reprimand of a single the individual content provider by the API provider, the collective the individual content providers and the enablers of the connected apparatus are not affected.

[00061] Upon an access request of the digital media, the excelsior enabler interacts with the apparatus, usually software or web application, to enter membership credentials in a GUI front-end connected to the API. The membership credentials are usually comprised of a login element comprising a name, phrase, or e-mail address, and a secret password. The credentials can be generated by the enabler or automatically generated by the web service. Once the enabler authenticates their identity with the 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 the 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.

[00062] 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 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>

[00063] When authenticating a compatible device or machine which may not have access to a connection for the authentication element, a key file or part of the metadata thereof could be made on another connected compatible device or machine and allow the enabler to execute Friends.get API command to collect and store the complete list of a plurality of FBID to the

key file or the metadata thereof. The compatible device or machine which may not have access to a connection for the authentication element with an embedded interaction console, usually a user GUI, can request and load the key file or part of the metadata thereof to save the complete list of a plurality of electronic identification references, in this discussion is reference as the FBID, to storage or metadata as part of the compatible device or machine. This step ensures the cross-referencing element requirement of the invention can take place in the event the connection for the authentication element is not present in the compatible device or machine.

[00064] 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 Facbeook "Friends.areFriends" API command.

[00065] XML return example of the Facebeook "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>

[00066] Such usability can be important to sustain "fair use" rights of consumers of the 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.

[00067] Once the information of the verification and authentication elements is acquired, the apparatus handles the next process of writing the information to the 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 the 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 the 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 the 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 the plurality of electronic identifications to the metadata of the at least one encrypted digital media asset by; obtaining the decryption key to decrypt the 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 digital media asset metadata to prepare for the instant or delayed cross-referencing element of the invention. The same process of writing the information to the digital media metadata is true with secondary enablers allowing the same benefits of cross-referencing.

[00068] 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 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 rights are granted to the enabler. If the comparison fails, then the apparatus can either ask the enabler to participate in communication with the authentication element of the invention, or could deny further interactivity with the enabler. In this discussion, the apparatus requires the 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 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 the encrypted digital media asset and access rights is granted to the excelsior enabler. 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; 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.

[00069] While the present invention has been described in connection with preferred embodiments, it will be understood by those skilled in the art that variations and modifications of the preferred embodiments described above may be made without departing from the scope of the invention. Other embodiments will be apparent to those skilled in the art from a consideration of the specification or from a practice of the invention disclosed herein. It is intended that the specification and the described examples are considered exemplary only, with the true scope of the invention indicated by the following claims.

CLAIMS

What is claimed is:

1. 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:

    a. receiving a branding request from at least one communications console of the plurality of data processing devices, the branding request being a read and write request of metadata of the encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media;

    b. authenticating the membership verification token, the authentication being performed in connection with a token database;

    c. establishing connection with the at least one communications console;

    d. requesting at least one electronic identification reference from the at least one communications console;

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

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

2. 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. The method according to claim 1, wherein the branding request being a request from an excelsior enabler through a data processing device of the plurality of data processing devices, the excelsior enabler being the user acquiring access rights to the encrypted digital media.

4. The method according to claim 3, wherein the branding request being a request from one or more secondary enablers connected to the excelsior enabler, the plurality of second enablers comprising one or more of human beings and programmed computerized mechanisms in network of the excelsior enabler.

5. The method according to claim 1, wherein the membership verification token represents verification from content provider to grant access rights to the excelsior enabler and the one or more secondary enablers.

6. The method according to claim 1, wherein the encrypted digital media is shared with one or more users after a predefined period.

7. The method according to claim 6, wherein the one or more users is a network of friends of the excelsior enabler.

8. 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 corresponding token from the list of associated tokens stored in the token database for verification.

9. The method according to claim 1, wherein the connection is established through one of internet, intranet, Bluetooth, VPN, Infrared, and LAN.

10. The method according to claim 1, wherein the communications console is a combination of an Applications Programmable Interface (API) protocol and graphic user interface (GUI).

11. 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. The method according to claim 1, wherein the electronic identification reference is a web service account, the web service capable of facilitating service two way data exchange to complete the verification process.

13. The method according to claim 1, wherein the electronic identification reference is a key certificate, the key certificate being uploaded by the at least one communications console for branding the encrypted digital media.

14. The method according to claim 1, wherein the plurality of data processing devices comprises one or more of a computer, laptop, notebook, cell phone and a PDA.

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

    a. a first receipt module, the first receipt module receiving a branding request from at least one communications console of the plurality of data processing devices, the branding request being a read and write request of metadata of the encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media;

b. an authentication module, the authentication module authenticating the membership verification token, the authentication being performed in connection with a token database;

c. a connection module, the connection module establishing connection with the at least one communications console;

d. a request module, the request module requesting at least one electronic identification reference from the at least one communications console;

e. a second receipt module, the second receipt module receiving the at least one electronic identification reference from the at least one communications console; and

f. 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. The system according to claim 15, wherein the connection is established through one of internet, intranet, Bluetooth, VPN, Infrared, and LAN.

17. The system according to claim 15, wherein the communications console is a combination of an Applications Programmable Interface (API) protocol and graphic user interface (GUI) as part of a web service.

18. 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.

19. The system according to claim 15, wherein the electronic identification reference is a web service account, the web service capable of facilitating service two way data exchange to complete the verification process.

20. The system according to claim 15, wherein the electronic identification reference is a key certificate, the key certificate being uploaded by the at least one communications console for branding the encrypted digital media.

21. The system according to claim 15, wherein the data processing device is one of a computer, laptop, notebook, cell phone and a PDA.

22. A computer program product for use with a computer, the computer program product comprising a 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:

    a. receiving a branding request from at least one communications console of the plurality of data processing devices, the branding request being a read and write request of metadata of the encrypted digital media, the request comprising a membership verification token corresponding to the encrypted digital media;

    b. authenticating the membership verification token, the authentication being performed in connection with a token database;

    c. establishing connection with the at least one communications console;

    d. requesting at least one electronic identification reference from the at least one communications console;

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

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

23. The computer program product according to claim 22, 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.

24. The computer program product according to claim 22, wherein the branding request being a request from an excelsior enabler through a data processing device of the plurality of data processing devices, the excelsior enabler being the user acquiring access rights to the encrypted digital media.

25. The computer program product according to claim 24, wherein the branding request being a request from one or more secondary enablers connected to the excelsior enabler, the plurality of second enablers comprising one or more of human beings and programmed computerized mechanisms in network of the excelsior enabler.

26. The computer program product according to claim 24, wherein the membership verification token represents verification from content provider to grant access rights to the excelsior enabler and the one or more secondary enablers.

27. The computer program product according to claim 24, wherein the encrypted digital media is shared with one or more users after a predefined period.

28. The computer program product according to claim 27, wherein the one or more users is a network of friends of the excelsior enabler.

29. 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. A system for authoring an encrypted digital media capable of unlimited interoperability between a plurality of data processing devices, the system comprising:

    a. a selection module, the selection module selecting one or more media items to form the encrypted digital media;

    b. a password module, the password module entering a master password which provides access to the encrypted digital media for editing;

    c. a customization module, the customization module customizing user access panel of the encrypted digital media;

    d. 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

    e. an encryption module, the encryption module encrypting the one or more media items to create the encrypted digital media.

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.

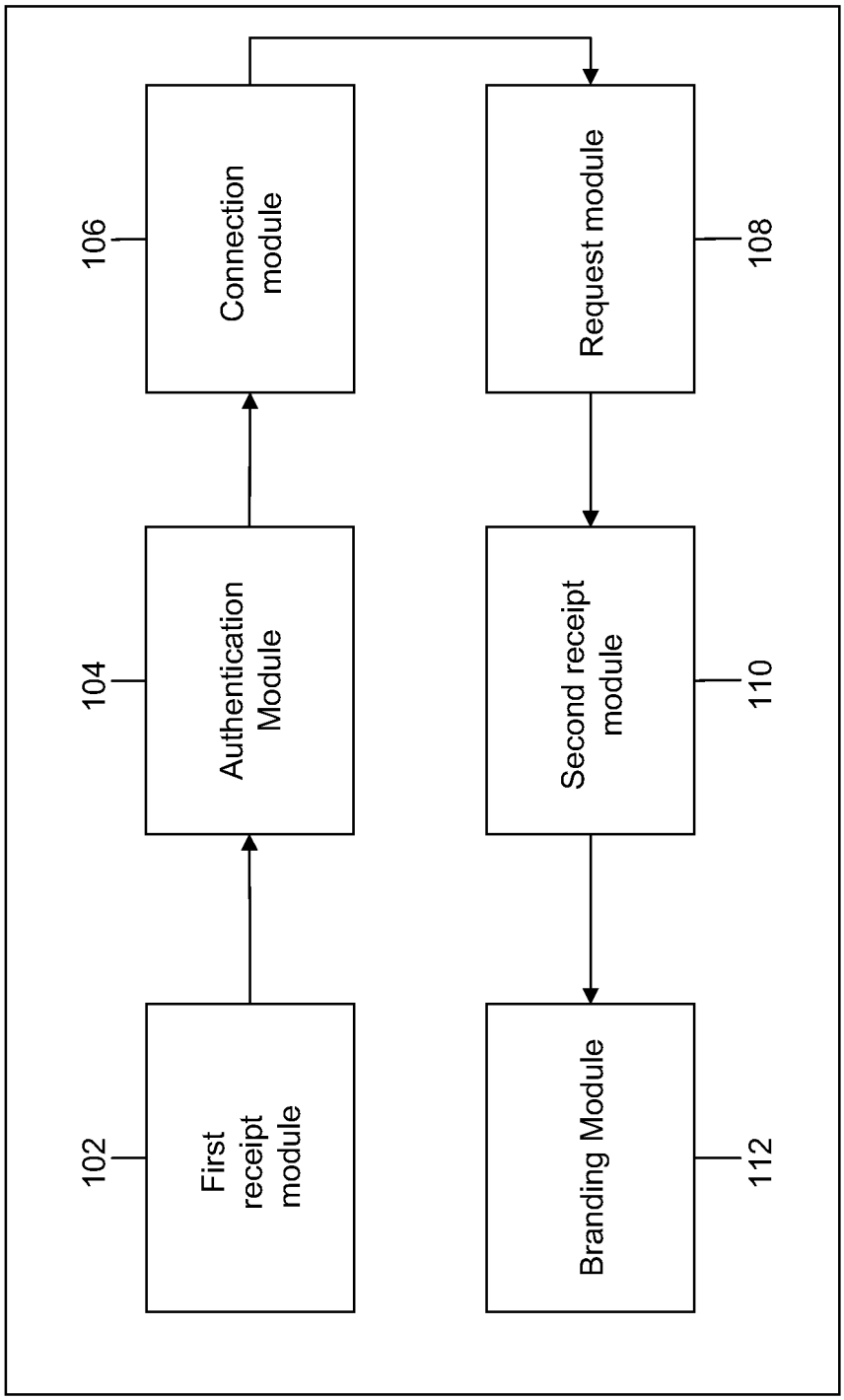
First receipt module
102
Authentication Module
104
Connection module
106
Request module
108
Second receipt module
110
Branding Module
112

FIG.1

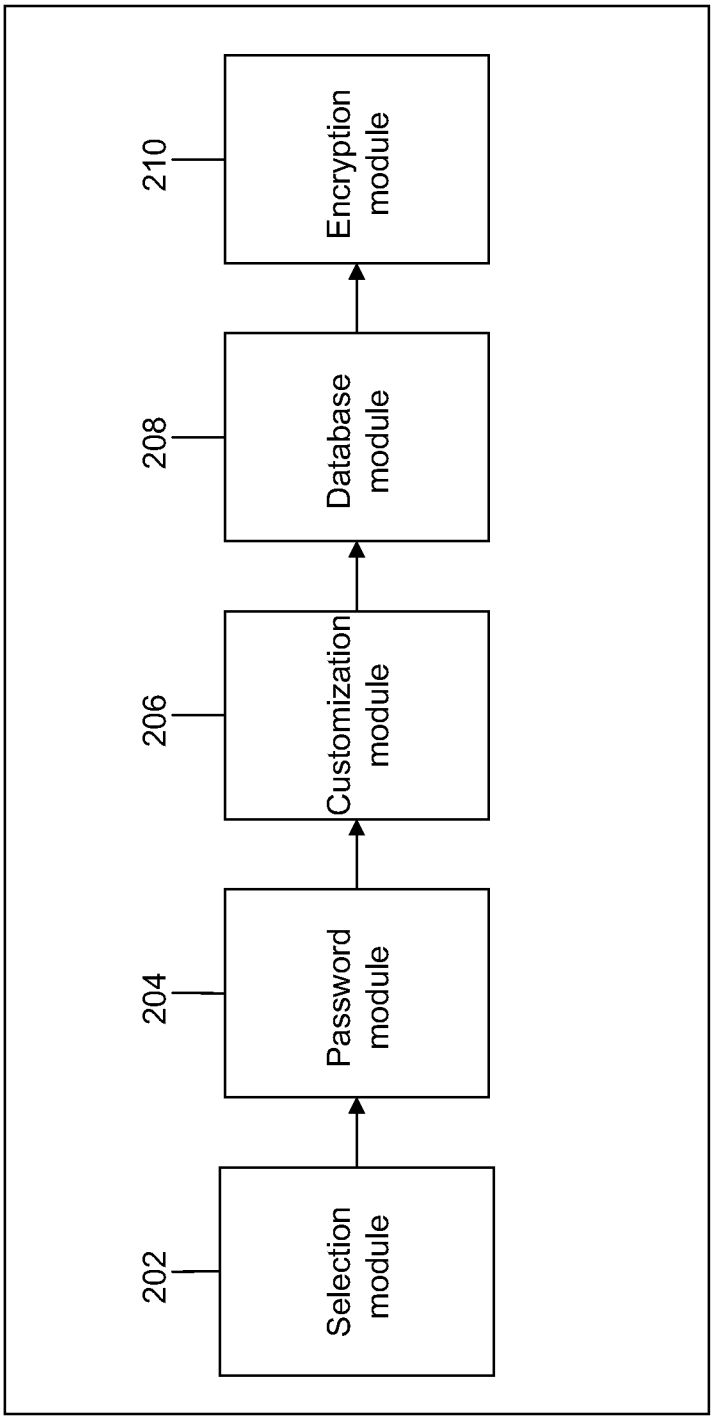
202
Selection module
204
Password module
206
Customization module
208
Database module
210
Encryption module

FIG.2

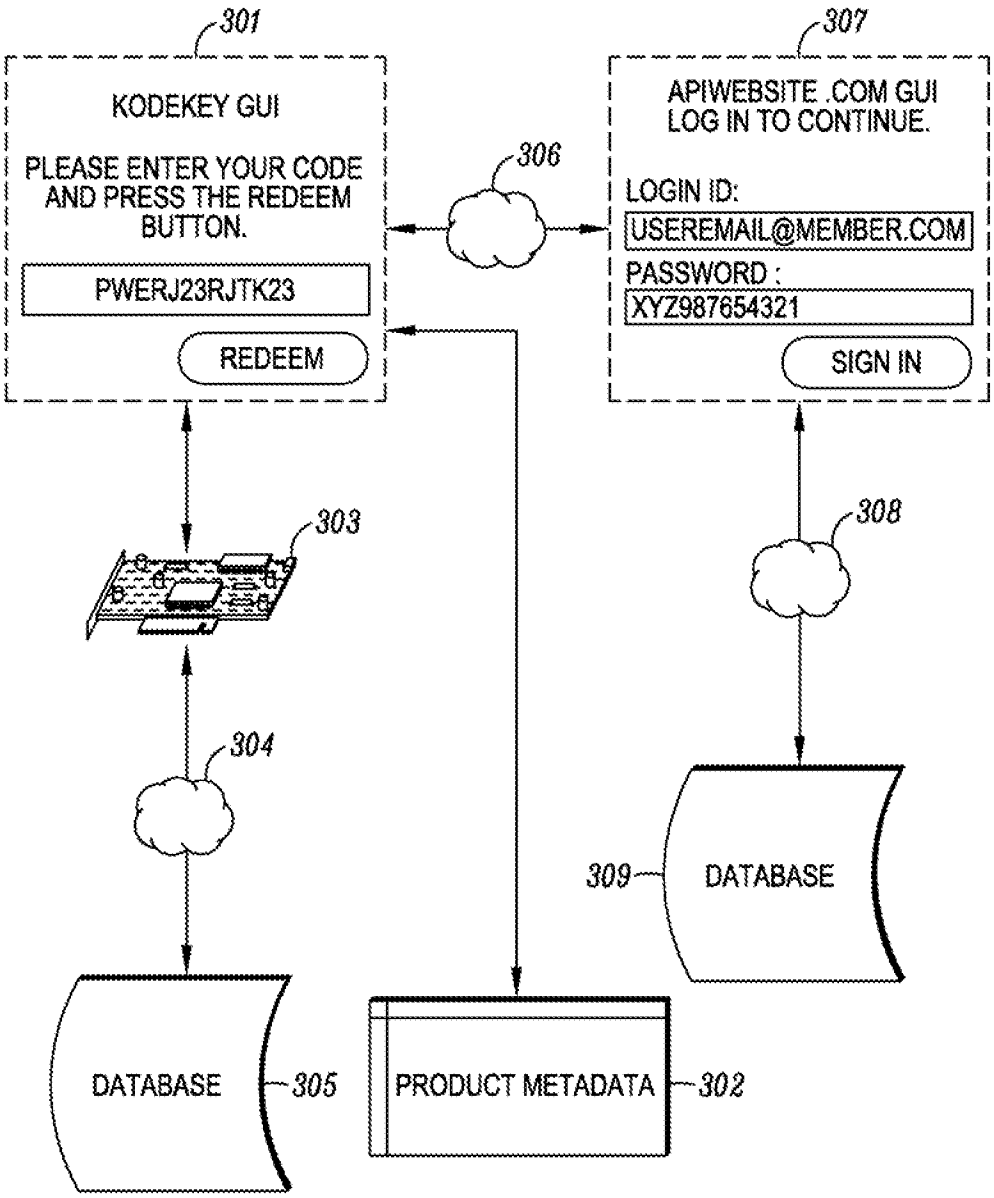
301
KODEKEY GUI
PLEASE ENTER YOUR CODE AND PRESS THE REDEEM BUTTON.
PWERJ23RJTK23
REDEEM
306
307
APIWEBSITE .COM GUI
LOG IN TO CONTINUE.
LOGIN ID:
USEREMAIL@MEMBER.COM
PASSWORD :
XYZ987654321
SIGN IN
303
304
308
309
DATABASE
DATABASE
305
PRODUCT METADATA
302

FIG. 3

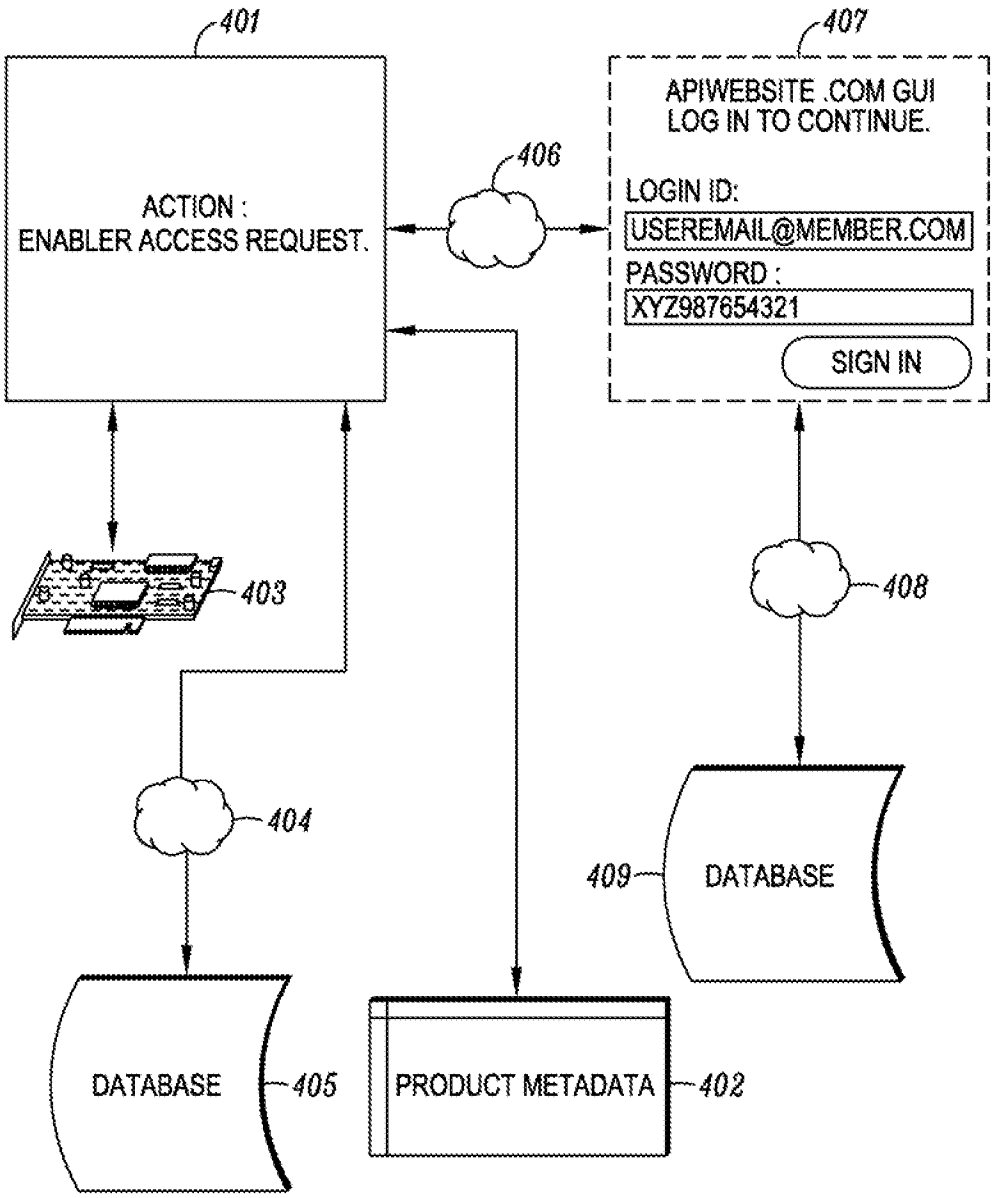
401
ACTION :
ENABLER ACCESS REQUEST.
406
407
APIWEBSITE .COM GUI
LOG IN TO CONTINUE.
LOGIN ID:
USEREMAIL@MEMBER.COM
PASSWORD :
XYZ987654321
SIGN IN
403
408
404
409
DATABASE
DATABASE
405
PRODUCT METADATA
402

FIG. 4

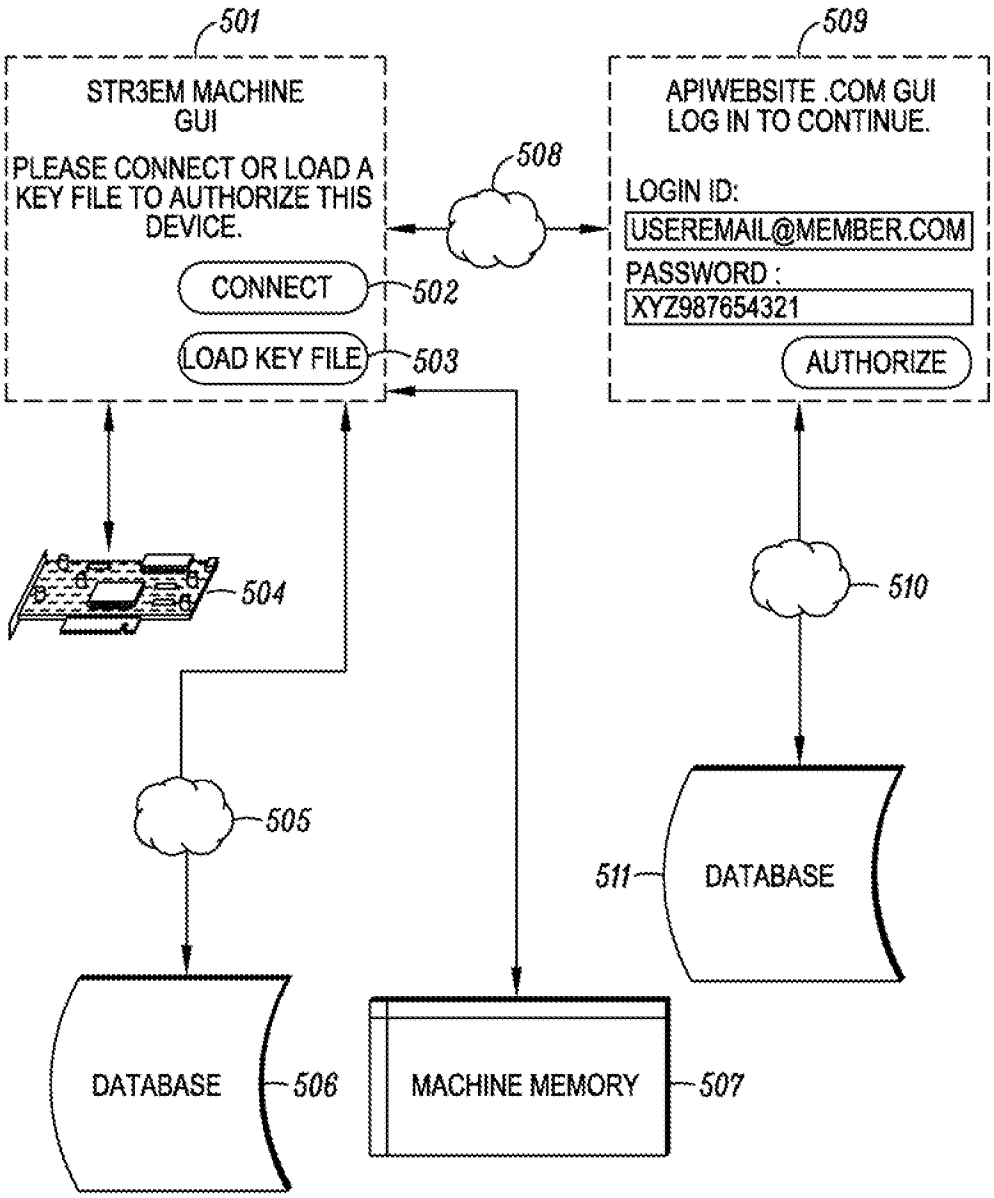
501
STR3EM MACHINE GUI
PLEASE CONNECT OR LOAD A KEY FILE TO AUTHORIZE THIS DEVICE.
CONNECT
502
LOAD KEY FILE
503
508
509
APIWEBSITE .COM GUI
LOG IN TO CONTINUE.
LOGIN ID:
USEREMAIL@MEMBER.COM
PASSWORD :
XYZ987654321
AUTHORIZE
504
505
510
511
DATABASE
DATABASE
506
MACHINE MEMORY
507

FIG. 5

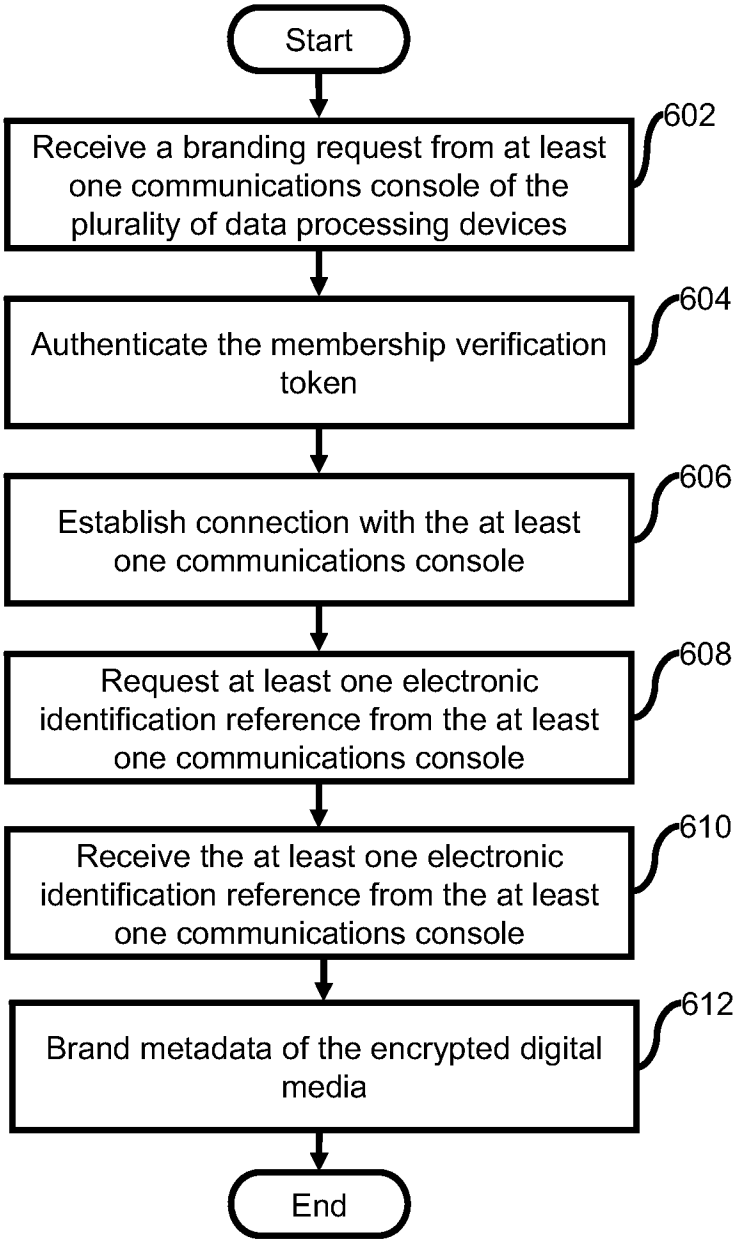
Start
Receive a branding request from at least one communications console of the plurality of data processing devices
602
Authenticate the membership verification token
604
Establish connection with the at least one communications console
606
Request at least one electronic identification reference from the at least one communications console
608
Receive the at least one electronic identification reference from the at least one communications console
610
Brand metadata of the encrypted digital media
612
End

FIG.6

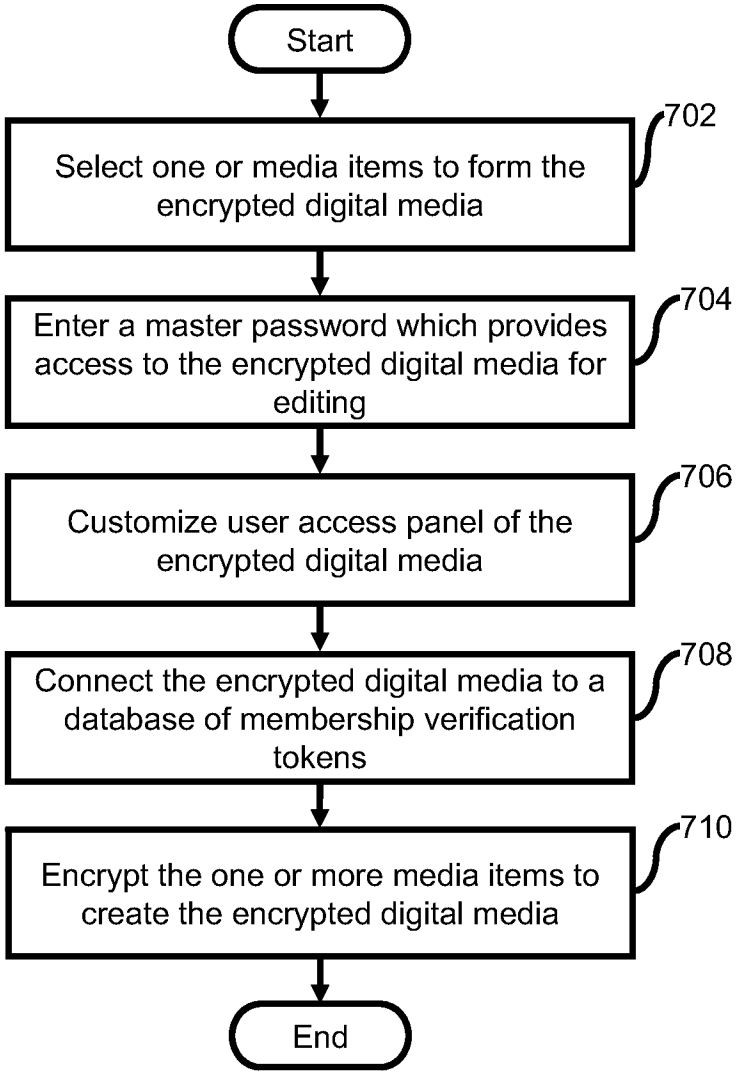
Start
Select one or media items to form the encrypted digital media
702
Enter a master password which provides access to the encrypted digital media for editing
704
Customize user access panel of the encrypted digital media
706
Connect the encrypted digital media to a database of membership verification tokens
708
Encrypt the one or more media items to create the encrypted digital media
710
End

FIG.7

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.

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

☑ Declaration Submitted With Initial Filing *OR* ☐ Declaration Submitted after Initial Filing

Attorney Docket Number	B7-1
First Named Inventor	William Grecia
COMPLETE IF KNOWN	
Application Number	Not Yet Assigned
Filing Date	Herewith
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)

(Title of the Invention)

the specification of which

☑ is attached hereto

OR

☐ was filed on (MM/DD/YYYY) ☐ as United States Application Number or PCT International Application Number ☐ and was amended on (MM/DD/YYYY) ☐ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES	NO
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1.11 and 1.14. This collection is estimated to take 21 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, 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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PTO/SB/01 (06-07)
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DECLARATION —Utility or Design Patent Application

Direct all correspondence to:	☑ The address associated with Customer Number:	000070984	OR ☐	Correspondence address below

Name		
Address		
City	State	ZIP
Country	Telephone	Email

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

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 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR:	☐ A petition has been filed for this unsigned inventor
Given Name (first and middle (if any)) **William**	Family Name or Surname **Grecia**
Inventor's Signature **/william grecia/**	Date **02/15/2012**

Residence: City **Grandville**	State **Michigan**	Country **USA**	Citizenship **USA**
Mailing Address **2885 Sanford Avenue, Southwest, #13208**			
City **Grandville**	State **Michigan**	Zip **49418**	Country **USA**

☐ Additional inventors or a legal representative are being named on the _____ supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Filer:	David Lewis
Attorney Docket Number:	B7-1

Filed as Small Entity

Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	95	95
Utility Search Fee	2111	1	310	310
Utility Examination Fee	2311	1	125	125
Request for Prioritized Examination	2817	1	2400	2400
Pages:				
Claims:				
Claims in excess of 20	2202	10	30	300
Independent claims in excess of 3	2201	1	125	125

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous-Filing:				
Publ. Fee- early, voluntary, or normal	1504	1	300	300
Processing Fee, except for Provis. apps	1808	1	130	130
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**3785**

Electronic Acknowledgement Receipt

EFS ID:	12086357
Application Number:	13397517
International Application Number:	
Confirmation Number:	6106
Title of Invention:	PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)
First Named Inventor/Applicant Name:	William Grecia
Customer Number:	000070984
Filer:	David Lewis
Filer Authorized By:	
Attorney Docket Number:	B7-1
Receipt Date:	15-FEB-2012
Filing Date:	
Time Stamp:	18:27:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$3785
RAM confirmation Number	6440
Deposit Account	503345
Authorized User	LEWIS,DAVID

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	**Document Description**	**File Name**	**File Size(Bytes)/ Message Digest**	**Multi Part /.zip**	**Pages (if appl.)**
1	Transmittal Letter	UTILITY-TRANSMITTAL.pdf	122006 b6b8f39c54c1092467559677e164a1be03da66a1	no	1
Warnings:					
Information:					
2	Miscellaneous Incoming Letter	FEE-TRANSMITTAL.pdf	251866 fe906d21f67c4cddcf640ba68f805e59f8c31fcc	no	2
Warnings:					
Information:					
3	TrackOne Request	TRACK-ONE-REQUEST.pdf	107014 29431e00849a8b80b2dd60f4e0af828488440fbc	no	1
Warnings:					
Information:					
4	Specification	SPECIFICATION.pdf	235883 a43cfb48de4e87614d7f5828d1757b609d9cba86	no	34
Warnings:					
Information:					
5	Drawings-only black and white line drawings	DRAWINGS.pdf	180083 379c0bc78d72636f6132c39f40dd937473afa216	no	7
Warnings:					
Information:					
6	Oath or Declaration filed	DECLARATION.pdf	434344 bb797aa093c414b83a44299fc1feb27be863ab9c	no	2
Warnings:					
Information:					
7	Fee Worksheet (SB06)	fee-info.pdf	43256 020eccb854d68e06ae0d7adffa4b24a16f8aefe9	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1374452		

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.

Modified PTO/SB/05 (05-07)
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	**B7-1**
First Inventor	**William Grecia**
Title	**PERSONALIZED DIGITAL MEDIA ACCESS SYSTEM (PDMAS)**
Express Mail Label No.	**Not Applicable**

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☑ **Fee Transmittal Form** (e.g., PTO/SB/17)
   (Submit an original and a duplicate for fee processing)
2. ☑ **Applicant claims small entity status.** See 37 CFR 1.27.
3. ☑ **Specification** [*Total Pages* 34]
   Both the claims and abstract must start on a new page
   (For information on the preferred arrangement, see MPEP 608.01(a))
4. ☑ **Drawing(s)** (*35 U.S.C. 113*) [*Total Sheets* 7]
5. **Oath or Declaration** [*Total Sheets* 2]
   a. ☑ Newly executed (original or copy)
   b. ☐ A copy from a prior application (37 CFR 1.63(d))
   (for continuation/divisional with Box 18 completed)
   i. ☐ DELETION OF INVENTOR(S)
   Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ **Application Data Sheet.** See 37 CFR 1.76
7. ☐ **CD-ROM or CD-R** in duplicate, large table or Computer Program *(Appendix)*
   ☐ Landscape Table on CD
8. **Nucleotide and/or Amino Acid Sequence Submission**
   (if applicable, items a. – c. are required)
   a. ☐ Computer Readable Form (CRF)
   b. Specification Sequence Listing on:
      i. ☐ CD-ROM or CD-R (2 copies); or
      ii. ☐ Paper
   c. ☐ Statements verifying identity of above copies

ADDRESS TO:
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

ACCOMPANYING APPLICATION PARTS

9. ☐ **Assignment Papers** (cover sheet & document(s))
   The Assignment has been filed via the Electronic Assignment System, and a copy of the Assignment is Attached
   Name of Assignee _____
10. ☐ **37 CFR 3.73(b) Statement** *(when there is an assignee)* ☐ **Power of Attorney**
11. ☐ **English Translation Document** *(if applicable)*
12. ☐ **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    ☐ Copies of citations attached
13. ☐ **Preliminary Amendment**
14. ☐ **Return Receipt Postcard** (MPEP 503)
    (Should be specifically itemized)
15. ☐ **Certified Copy of Priority Document(s)**
    (if foreign priority is claimed)
16. ☐ **Nonpublication Request** under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
17. ☑ Other: **Track One Priority Request**

18. If a CONTINUING APPLICATION, *check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:*

☑ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.(s): 12/985,351

Prior application information: *Examiner* Not Yet Assigned *Art Unit:* 2432

19. CORRESPONDENCE ADDRESS

☑ The address associated with Customer Number: **000070984** ***OR*** ☐ Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone		Email	

Signature	David Lewis	Date	Feb-15, 2012
Name (Print/Type)	**David Lewis**	Registration No. (Attorney/Agent)	**33,101**

This collection of information is required by 37 CFR 1.53(b). 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 1.11 and 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, 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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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL
For FY 2011

☑ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT ($) 3785

Complete if Known	
Application Number	Not Assigned
Filing Date	Herewith
First Named Inventor	William Grecia
Examiner Name	Examiner Not Assigned
Art Unit	Not Assigned
Attorney Docket No.	B7-1

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☑ Money Order ☐ None ☐ Other (please identify): _____

☑ Deposit Account Deposit Account Number: 503345 Deposit Account Name: David Lewis

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, **except for the filing fee**

☑ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☑ Credit any overpayments

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES Fee ($)	FILING FEES Small Entity Fee ($)	SEARCH FEES Fee ($)	SEARCH FEES Small Entity Fee ($)	EXAMINATION FEES Fee ($)	EXAMINATION FEES Small Entity Fee ($)	Fees Paid ($)
Utility	330	165	540	270	220	110	530
Design	220	110	100	50	140	70	
Plant	220	110	330	165	170	85	
Reissue	330	165	540	270	650	325	
Provisional	220	110	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee ($)	Small Entity Fee ($)
Each claim over 20 (including Reissues)	52	26
Each independent claim over 3 (including Reissues)	220	110
Multiple dependent claims	390	195

Total Claims		Extra Claims	Fee ($)		Fee Paid ($)
30	- 20 or HP =	10	x 30	=	300

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims		Extra Claims	Fee ($)		Fee Paid ($)
4	- 3 or HP =	1	x 125	=	125

HP = highest number of independent claims paid for, if greater than 3.

Multiple Dependent Claims Fee ($)	Fee Paid ($)

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due 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).

Total Sheets		Extra Sheets	Number of each additional 50 or fraction thereof		Fee ($)		Fee Paid ($)
41	- 100 =		/ 50 =	(round **up** to a whole number)	x	=	

4. OTHER FEE(S)

	Fees Paid ($)
Non-English Specification, $130 fee (no small entity discount)	
Other (e.g., late filing surcharge): **Track One Request ($2,400), Publication ($300), Processing ($130)**	2830

SUBMITTED BY

Signature	/David Lewis/	Registration No. (Attorney/Agent) 33,101	Telephone (408) 993-1800
Name (Print/Type)	David Lewis		Date 7/25/2012

This collection of information is required by 37 CFR 1.136. 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 30 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, 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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Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL
For FY 2011

☑ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT ($) 3785

Complete if Known	
Application Number	Not Assigned
Filing Date	Herewith
First Named Inventor	William Grecia
Examiner Name	Examiner Not Assigned
Art Unit	Not Assigned
Attorney Docket No.	B7-1

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☑ Money Order ☐ None ☐ Other (please identify): _____

☑ Deposit Account Deposit Account Number: 503345 Deposit Account Name: David Lewis

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, **except for the filing fee**

☑ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☑ Credit any overpayments

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

	FILING FEES		SEARCH FEES		EXAMINATION FEES		
		Small Entity		Small Entity		Small Entity	
Application Type	Fee ($)	Fee ($)	Fee ($)	Fee ($)	Fee ($)	Fee ($)	Fees Paid ($)
Utility	330	165	540	270	220	110	530
Design	220	110	100	50	140	70	
Plant	220	110	330	165	170	85	
Reissue	330	165	540	270	650	325	
Provisional	220	110	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee ($)	Small Entity Fee ($)
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Each independent claim over 3 (including Reissues)	220	110
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HP = highest number of total claims paid for, if greater than 20.

Indep. Claims		Extra Claims	Fee ($)	Fee Paid ($)
4	- 3 or HP =	1	x 125 =	125

HP = highest number of independent claims paid for, if greater than 3.

Multiple Dependent Claims	
Fee ($)	Fee Paid ($)

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due 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).

Total Sheets		Extra Sheets	Number of each additional 50 or fraction thereof	Fee ($)	Fee Paid ($)
41	- 100 =		/ 50 = (round up to a whole number)	x	=

4. OTHER FEE(S)

	Fees Paid ($)
Non-English Specification, $130 fee (no small entity discount)	
Other (e.g., late filing surcharge): Track One Request ($2,400), Publication ($300), Processing ($130)	2830

SUBMITTED BY

Signature	/David Lewis/	Registration No. (Attorney/Agent) 33,101	Telephone (408) 993-1800
Name (Print/Type)	David Lewis		Date Feb 15 2012

This collection of information is required by 37 CFR 1.136. 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 30 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, 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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