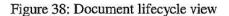
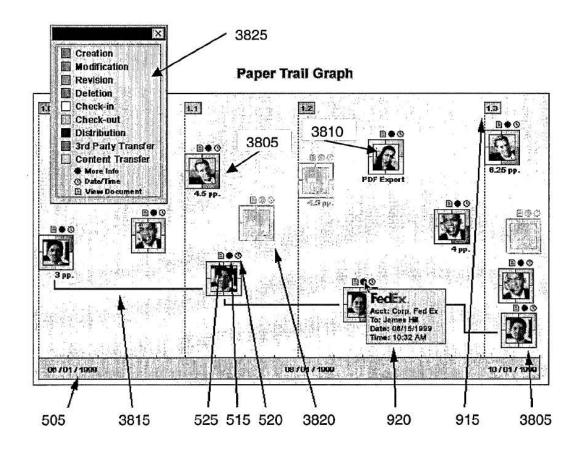
WO 03/067497

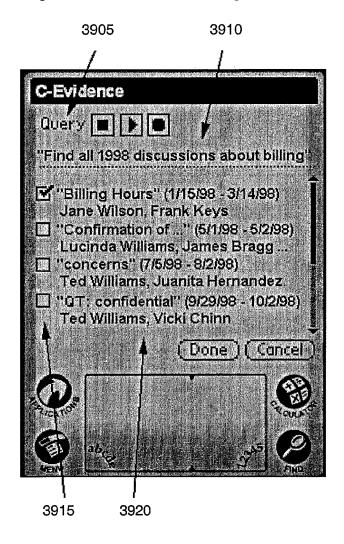
40/42



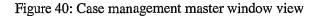


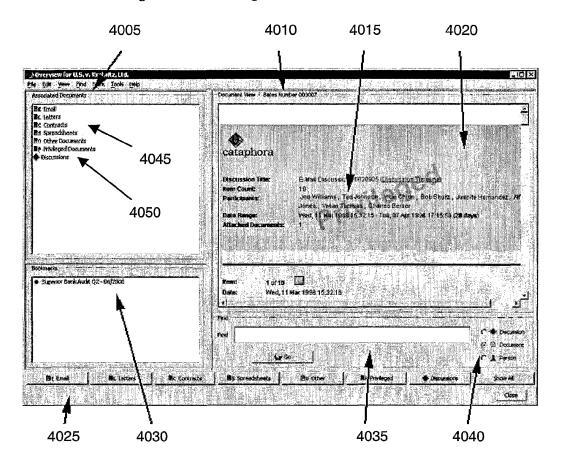
41/42

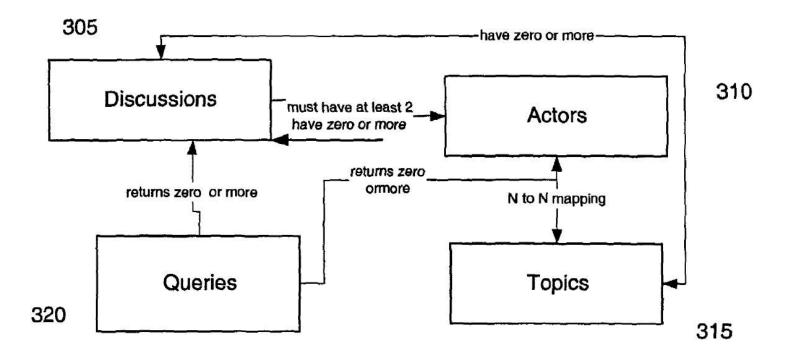
Figure 39: User interface for viewing discussions on a PalmOS-based mobile device



42/42







| Electronic Patent Application Fee Transmittal | | | | | |
|---|---|------------------|----------|-----------------------|-------------------------|
| Application Number: | 13 | 615419 | | | |
| Filing Date: | 13. | -Sep-2012 | | | |
| Title of Invention: | Handheld Electronic Device and Associated Method Providing Time Data Messaging Environment | | | viding Time Data in a | |
| First Named Inventor/Applicant Name: | Ge | rhard D. Klassen | | | |
| Filer: | Brett Joseph Slaney/Judith Martin | | | | |
| Attorney Docket Number: | 70 | 314/01061 | | | |
| Filed as Large 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: | | | | |
| Submission- Information Disclosure Stmt | 1806 | 1 | 180 | 180 |
| | Tot | al in USD |) (\$) | 180 |
| | | | | |

| Electronic Acknowledgement Receipt | | | | |
|--------------------------------------|--|--|--|--|
| EFS ID: | 16115958 | | | |
| Application Number: | 13615419 | | | |
| International Application Number: | | | | |
| Confirmation Number: | 2640 | | | |
| Title of Invention: | Handheld Electronic Device and Associated Method Providing Time Data in a Messaging Environment | | | |
| First Named Inventor/Applicant Name: | Gerhard D. Klassen | | | |
| Customer Number: | 91704 | | | |
| Filer: | Brett Joseph Slaney/Judith Martin | | | |
| Filer Authorized By: | Brett Joseph Slaney | | | |
| Attorney Docket Number: | 70314/01061 | | | |
| Receipt Date: | 21-JUN-2013 | | | |
| Filing Date: | 13-SEP-2012 | | | |
| Time Stamp: | 13:47:48 | | | |
| Application Type: | Utility under 35 USC 111(a) | | | |

Payment information:

| Submitted with Payment | yes | | |
|--|-----------------|--|--|
| Payment Type | Deposit Account | | |
| Payment was successfully received in RAM | \$180 | | |
| RAM confirmation Number | 11158 | | |
| Deposit Account | 022553 | | |
| Authorized User | | | |
| 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 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

| File Listin | g: | | | | |
|---|---|---|---|------------------------------|-----------------------|
| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
| 1 | | | 139000 | | 3 |
| 1 | | 11144-US-CNT5_IDS.pdf | 79ad5e6a906f153121456f5e222f084b727a dd2f | yes | |
| | Multip | oart Description/PDF files in . | zip description | | |
| | Document Des | scription | Start | E | nd |
| | Transmittal | Letter | 1 | | 2 |
| | Information Disclosure Stater | nent (IDS) Form (SB08) | 3 | | 3 |
| Warnings: | | | • | | |
| Information: | | | | | |
| 2 | Foreign Reference | 11144-US-CNT5 FP1.pdf | 16409558 | no | 104 |
| | | | e34de142e1b3f49cacde5aca8ca7ca2154dc e1b9 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 3 | Fee Worksheet (SB06) | fee-info.pdf | 30288 | no | 2 |
| | | | 44441f1aedf0a8b84101a05f35d4290f3937 c520 | | L |
| Warnings: | | | | | |
| Information: | | | | | |
| | | Total Files Size (in bytes) | : 165 | 578846 | |
| characterized Post Card, as <u>New Applica</u> If a new appl 1.53(b)-(d) ar | ledgement Receipt evidences receip d by the applicant, and including pay described in MPEP 503. tions Under 35 U.S.C. 111 ication is being filed and the applica nd MPEP 506), a Filing Receipt (37 CF ement Receipt will establish the filin | ge counts, where applicable. tion includes the necessary o R 1.54) will be issued in due | It serves as evidence components for a filin | of receipt s og date (see | imilar to a 37 CFR |
| lf a timely su U.S.C. 371 an | ge of an International Application ur bmission to enter the national stage d other applicable requirements a F Je submission under 35 U.S.C. 371 wi | of an international applicati orm PCT/DO/EO/903 indicati | ng acceptance of the | application | |
| lf a new inter an internatio and of the In | tional Application Filed with the USP mational application is being filed an mal filing date (see PCT Article 11 an ternational Filing Date (Form PCT/RG urity, and the date shown on this Ack on. | nd the international applicat d MPEP 1810), a Notification D/105) will be issued in due c | of the International <i>I</i> ourse, subject to pres | Application scriptions co | Number oncerning |

Application No. 13/615,419

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Appl. No.: **13/615,419**

Applicant: KLASSEN, Gerhard D. et al.

Filed: September 13, 2012

Title: Handheld Electronic Device and Associated Method Providing Time Data in a Messaging Environment

Art Unit: **2457**

Examiner: LAI, Michael C.

Docket No.: 70314/01061

Mail Stop Amendment U.S. Patent & Trademark Office Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

FIRST SUPPLEMENTAL

INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty to disclose under 37 CFR §1.56, Applicant submits herewith a Form PTO/SB/08 listing references of which the Applicant is aware and which are brought to the attention of the Examiner. In accordance with 37 CFR §1.98(a)(2), a copy of each foreign patent document and non-patent reference document listed in the enclosed Form PTO/SB/08 is submitted herewith.

Pursuant to 35 USC §120, this application relies on the earlier filing date(s) of the following prior application(s):

| <u>Serial Number</u> | Filing Date |
|----------------------|--------------------|
| 13/111,675 | May 19, 2011 |
| 10/944,925 | September 20, 2004 |

The filing of this IDS shall not be construed as a representation that a search has been made, an admission that the information cited is, or is considered to be, material for patentability, or

Application No. 13/615,419

that no other material information exists. This filing shall not be construed as an admission against interest in any matter.

This IDS is being submitted pursuant to 37 CFR 1.97(d).

Applicant hereby <u>certifies</u> that each item of information contained in the present Information Disclosure Statement was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than 3 months prior to the filing of the present Information Disclosure Statement.

The fee amount prescribed under 37 CFR 1.17(p), pursuant to 37 CFR 1.97(d)(2), is to be paid by deposit account via EFS-Web. Should any additional fees be required the Office is authorized to charge Deposit Account No. **02-2553**.

Applicant respectfully requests consideration of the items listed and requests the Examiner to return a copy of the attached Form PTO/SB/08 after being marked as being considered by the Examiner.

Respectfully submitted,

Date: June 21/13

Brett J Slaney Registration No. 58,772 Agent for Applicant

BLAKE, CASSELS & GRAYDON LLP 199 Bay Street Suite 2800, Commerce Court West Toronto, Ontario, M5L 1A9 Canada

Tel 416-863-2518 Fax 416-863-2653

BSL/jm

(✓) encl.



UNITED STATES PATENT AND TRADEMARK OFFICE

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|------------------------|----------------------------------|----------------------|---------------------|------------------|
| 13/615,419 | 09/13/2012 | Gerhard D. Klassen | 70314/01061 | 2640 |
| 91704 Blake Cassels | 7590 06/05/2013 & Graydon LLP | | EXAM | INER |
| | EET, SUITE 4000 | | LAI, MIC | HAEL C |
| COMMERCE TORONTO, O | COURT WEST N M5L 1A9 | | ART UNIT | PAPER NUMBER |
| CANADA | | | 2457 | |
| | | | 12 | |
| | | | NOTIFICATION DATE | DELIVERY MODE |
| | | | 06/05/2013 | 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):

rimpatent@blakes.com brett.slaney@blakes.com portfolioprosecution@blackberry.com

PTOL-90A (Rev. 04/07)

| | Application No. | Applicant(s) |
|--|--|--|
| | 13/615,419 | KLASSEN ET AL. |
| Office Action Summary | Examiner | Art Unit |
| | MICHAEL C. LAI | 2457 |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the o | correspondence address |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed n the mailing date of this communication. ED (35 U.S.C. § 133). |
| Status | | |
| 1) Responsive to communication(s) filed on 23 M | l <u>ay 2013</u> . | |
| 2a) This action is FINAL . 2b) This | action is non-final. | |
| 3) An election was made by the applicant in respo | onse to a restriction requirement | set forth during the interview on |
| ; the restriction requirement and election | have been incorporated into this | s action. |
| 4) Since this application is in condition for allowar | nce except for formal matters, pro | osecution as to the merits is |
| closed in accordance with the practice under E | <i>Ex parte Quayle</i> , 1935 C.D. 11, 4 | 53 O.G. 213. |
| Disposition of Claims | | |
| 5) Claim(s) <u>1-17</u> is/are pending in the application. | | |
| 5a) Of the above claim(s) is/are withdraw | wn from consideration. | |
| 6) Claim(s) is/are allowed. | | |
| 7) Claim(s) <u>1-17</u> is/are rejected. | | |
| 8) Claim(s) is/are objected to. | | |
| 9) Claim(s) are subject to restriction and/or | r election requirement. | |
| * If any claims have been determined <u>allowable</u> , you may program at a participating intellectual property office for t <u>http://www.uspto.gov/patents/init_events/pph/index.isp</u> o | he corresponding application. Fo | or more information, please see |
| Application Papers | | |
| 10) The specification is objected to by the Examine | r. | |
| 11) The drawing(s) filed on is/are: a) acce | epted or b) objected to by the | Examiner. |
| Applicant may not request that any objection to the | | |
| Replacement drawing sheet(s) including the correct | | |
| Priority under 35 U.S.C. § 119 | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: | priority under 35 U.S.C. § 119(a |)-(d) or (f). |
| 1. Certified copies of the priority documents | s have been received. | |
| 2. Certified copies of the priority documents | s have been received in Applicat | ion No |
| 3. Copies of the certified copies of the prior | • | ed in this National Stage |
| application from the International Bureau | | |
| * See the attached detailed Office action for a list | or the certified copies not receive | 3 U. |
| Attachment(s) | | |
| 1) Notice of References Cited (PTO-892) | 3) 🔲 Interview Summary Paper No(s)/Mail D | |
| 2) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 4) Other: | |
| U.S. Patent and Trademark Office PTOL-326 (Rev. 09-12) Office Ac | ction Summary Pa | art of Paper No./Mail Date 20130529 |

Page 212 of 394

DETAILED ACTION

1. This office action is responsive to communication filed on 05/23/2013.

Response to Amendment

 The examiner has acknowledged the amended specification and amended claims 1, 5, 8, 9, 13, and 15-17. The objections to claims 5, 8, 13, 15, and 16 have been corrected and withdrawn accordingly. The objection to the specification has been addressed and withdrawn accordingly. Claims 1-17 are pending.

Response to Arguments

 Applicant's arguments filed on 05/23/2013 have been fully considered but they are not persuasive.

In the remarks, the applicant argues in substance that: A) Although Lapuyade shows a prompt allowing the user to select an option to change to a new time zone, it is unclear to Applicant how such a feature would suggest automatically changing time information in an instant messaging conversation. B) There is nothing to motivate a person skilled in the art to make a modification to Appelman. Consequently, at most, the two features would be used in the same device which says nothing more than in addition to displaying time stamps for instant messages, the device can also prompt a user of a new time zone.

In response to A), Appelman displaying a first time information for an instant message in the conversation in response to a first input [see at least Figs. 17-18, the display of timestamp "13:21:12"; col. 9, lines 49-67. The examiner considers

the entry of "How are you?" in Fig. 17 as the input]. Lapuyade discloses displaying time and time zone information when a change in time zone has occurred [see at least Fig. 7 and col. 6, lines 21-43]. As the user travels (i.e., time progress) from time zone 1 (first time information) to time zone 2 (second time information), displayed time is automatically changed from time zone 1 to time zone 2. Thus the combination of Appelman and Lapuyade clearly meets the limitation of "<u>automatically changing the first time information for the instant</u> message to a second time information <u>as time progresss</u> and <u>displaying the</u> second time information instead of the first time information" as recited in claim 1.

For B), in response to applicant's argument that there is no teaching, suggestion, or motivation to combine the references, the examiner recognizes that obviousness may be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves **or in the knowledge generally available to one of ordinary skill in the art**. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988), *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992), and *KSR International Co. v. Teleflex, Inc.*, 550 U.S. 398, 82 USPQ2d 1385 (2007). In this case, as applicant indicated that the two features would be used in the same device: in addition to displaying time stamps for instant messages, the device can also prompt a user of a new time zone. It would be well within the knowledge generally available to one of ordinary skill in the art to combine these two features to automatically

change the first time information in the first time zone for the instant message to

a second time information as time progresses (i.e., cross time zone boundary)

and displaying the second time information in the second time zone instead of

the first time information.

Thus, in view of such, the rejection is sustained as follows:

Claim Objections

4. The following claims are objected to because of the following informalities:

Claim 9, in line 11, the term "displaying" should be "display".

Claim 17, in line 8, the term "displaying" should be "display".

Claim Rejections - 35 USC § 103

5. 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.

6. Claims 1-4, 9-12, and 17 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Appelman et al. (US 7,181,497 B1, hereinafter Appelman), in

view of Lapuyade et al. (US 7,219,109 B1, hereinafter Lapuyade).

Regarding claim 1, Appelman discloses a method of displaying an instant

messaging conversation on a display of an electronic device, the method

comprising:

displaying a conversation of instant messages [see at least Figs. 16-17,

"F>" (from) and "T>" (to) messages; col. 9, lines 23-48];

displaying a first time information for an instant message in the conversation in response to a first input [see at least Figs. 17-18, the display of timestamp "13:21:12"; col. 9, lines 49-67. The examiner considers the entry of "How are you?" in Fig. 17 as the input].

Appelman does not disclose: <u>automatically</u> changing the first time information for the instant message to a second time information as time progresses <u>and</u> <u>displaying the second time information instead of the first time information</u>. However, Lapuyade disclose displaying time and time zone information as a result of user input when a change in time zone has occurred [see at least Fig. 7 and col. 6, lines 21-43]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Lapuyade's teaching into Appelman's method for the purpose of alerting the user when a time zone change has occurred by confirming and displaying time information according to desired time zone, thereby providing better management of time zone information on a handheld computer [see the abstract].

Regarding claim 2, Appelman further discloses wherein the first time information comprises an absolute time [see at least Fig. 18, field 666].

Regarding claim 3, Appelman and Lapuyade disclose the claim invention including wherein the second time information further comprises additional

information [see at least Lapuyade: Fig. 2, time zone information, and col. 6, lines 21-43]. See claim 1 for motivation.

Regarding claim 4, Appelman and Lapuyade disclose the claim invention including wherein the additional information comprises an indication of a day on which the instant message was sent [see at least Lapuyade: Fig. 2, date, and col. 6, lines 21-43]. See claim 1 for motivation.

Regarding claim 9, Appelman discloses an electronic device for displaying an instant messaging conversation, the electronic device comprising:

a display; a memory; and a processor electronically coupled with the display and the memory [see e.g., Figs. 1, 2, client stations], the processor configured to:

display a conversation of instant messages [see at least Figs. 16-17, "F>" (from) and "T>" (to) messages; col. 9, lines 23-48];

display a first time information for an instant message in the conversation in response to a first input [see at least Figs. 17-18, the display of timestamp "13:21:12"; col. 9, lines 49-67. The examiner considers the entry of "How are you?" in Fig. 17 as the input].

Appelman does not disclose: <u>automatically</u> change the first time information for the instant message to a second time information as time progresses <u>and</u> <u>displaying the second time information instead of the first time information</u>.

However, Lapuyade disclose displaying time and time zone information as a result of user input when a change in time zone has occurred [see at least Fig. 7 and col. 6, lines 21-43]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Lapuyade's teaching into Appelman's method for the purpose of alerting the user when a time zone change has occurred by confirming and displaying time information according to desired time zone, thereby providing better management of time zone information on a handheld computer [see the abstract].

Regarding claim 10, Appelman further discloses wherein the first time information comprises an absolute time [see at least Fig. 18, field 666].

Regarding claim 11, Appelman and Lapuyade disclose the claim invention including wherein the second time information further comprises additional information [see at least Lapuyade: Fig. 2, time zone information, and col. 6, lines 21-43]. See claim 1 for motivation.

Regarding claim 12, Appelman and Lapuyade disclose the claim invention including wherein the additional information comprises an indication of a day on which the instant message was sent [see at least Lapuyade: Fig. 2, date, and col. 6, lines 21-43]. See claim 1 for motivation.

Regarding claim 17, Appelman discloses a non-transitory computer readable medium comprising computer executable instructions embedded thereon [see

col. 3, lines 25-38] for execution by a processor of an electronic device such that, when executed, cause the processor to:

display a conversation of instant messages [see at least Figs. 16-17, "F>" (from) and "T>" (to) messages; col. 9, lines 23-48];

display a first time information for an instant message in the conversation in response to a first input [see at least Figs. 17-18, the display of timestamp "13:21:12"; col. 9, lines 49-67. The examiner considers the entry of "How are you?" in Fig. 17 as the input].

Appelman does not disclose: <u>automatically</u> change the first time information for the instant message to a second time information as time progresses <u>and</u> <u>displaying the second time information instead of the first time information</u>. However, Lapuyade disclose displaying time and time zone information as a result of user input when a change in time zone has occurred [see at least Fig. 7 and col. 6, lines 21-43]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Lapuyade's teaching into Appelman's method for the purpose of alerting the user when a time zone change has occurred by confirming and displaying time information according to desired time zone, thereby providing better management of time zone information on a handheld computer [see the abstract].

 Claims 5, 6, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Appelman and Lapuyade as applied to claim 1, and further in view of Mathewson, II et al. (US 7,305,441 B2, hereinafter Mathewson).

Regarding claim 5, Appelman and Lapuyade disclose the method of claim 1, but are silent about wherein at least one of the first time information and the second time information comprises a relative time. However, Mathewson teaches that alternatively, time sensitivity may be indicated in terms of elapsed time [col. 7, lines 40-47]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Mathewson's teaching into Appelman's and Lapuyade's method for the purpose of providing the user an expedited understanding of the time aspects of the message by displaying a relative time stamp representative of time elapsed between communication of the consecutive messages, thereby providing users greater convenience.

Regarding claim 6, Appelman, Lapuyade, and Mathewson disclose the claimed invention including wherein the second time information comprises an absolute time after expiration of a predetermined duration of time [Lapuyade: Fig. 2, time and date information, and col. 6, lines 21-43].

Regarding claim 13, Appelman and Lapuyade disclose the electronic device of claim 9, but are silent about wherein at least one of the first time information and the second time information comprises a relative time. However, Mathewson teaches that alternatively, time sensitivity may be indicated in terms

of elapsed time [col. 7, lines 40-47]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Mathewson's teaching into Appelman's and Lapuyade's system for the purpose of providing the user an expedited understanding of the time aspects of the message by displaying a relative time stamp representative of time elapsed between communication of the consecutive messages, thereby providing users greater convenience.

Regarding claim 14, Appelman, Lapuyade, and Mathewson disclose the claimed invention including wherein the second time information comprises an absolute time after expiration of a predetermined duration of time [Lapuyade: Fig. 2, time and date information, and col. 6, lines 21-43].

 Claims 7, 8, 15, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Appelman and Lapuyade as applied to claim 1, and further in view of MacPhail (US 6,636,243 B1, hereinafter MacPhail).

Regarding claim 7, Appelman and Lapuyade disclose the method of claim 1, but are silent about wherein the first time information is displayed for only a predetermined duration of time. However, MacPhail teaches a blinking is initiated upon the range crossing, and continued for a predetermined time interval, where the time interval may be set by, for example, a developer of an application using the display representation, or a viewer of the display [see Fig. 4 and col. 9, line 37 through col. 10, line 2]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to

incorporate MacPhail's teaching into Appelman's and Lapuyade's method to display the first time information for only a predetermined duration of time. The motivation is to provide effective displays on devices having diverse sizes including those with small, monochrome displays and capabilities [see the abstract and col. 2, lines 53-56].

Regarding claim 8, Appelman and Lapuyade disclose the method of claim 1, but are silent about wherein at least one of the first input and the second input comprises detecting a pointing device in proximity to the instant message. However, MacPhail teaches a timestamp indicating the most recent time of a status change could be displayed only upon request by a viewer (or "user"), as illustrated in FIG. 4(b), icon 80. MacPhail further discloses by simply positioning a pointer over an icon (read as a request or an input) may be sufficient to cause display of the timestamp [see col. 10, lines 3-22]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate MacPhail's teaching into Appelman's and Lapuyade's method for the purpose of providing displays on-demand by outputting a time stamp responsive to detecting a pointing device in proximity to the instant message, thereby providing effective displays on devices having diverse sizes including those with small, monochrome displays and capabilities [see the abstract and col. 2, lines 53-56].

Regarding claim 15, Appelman and Lapuyade disclose the electronic device claim 9, but are silent about wherein the first time information is displayed for

only a predetermined duration of time. However, MacPhail teaches a blinking is initiated upon the range crossing, and continued for a predetermined time interval, where the time interval may be set by, for example, a developer of an application using the display representation, or a viewer of the display [see Fig. 4 and col. 9, line 37 through col. 10, line 2]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate MacPhail's teaching into Appelman's and Lapuyade's method to display the first time information for only a predetermined duration of time. The motivation is to provide effective displays on devices having diverse sizes including those with small, monochrome displays and capabilities [see the abstract and col. 2, lines 53-56].

Regarding claim 16, Appelman and Lapuyade disclose the electronic device of claim 9, but are silent about wherein at least one of the first input and second input comprises detecting a pointing device in proximity to the instant message. However, MacPhail teaches a timestamp indicating the most recent time of a status change could be displayed only upon request by a viewer (or "user"), as illustrated in FIG. 4(b), icon 80. MacPhail further discloses by simply positioning a pointer over an icon (read as a request or an input) may be sufficient to cause display of the timestamp [see col. 10, lines 3-22]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate MacPhail's teaching into Appelman's and Lapuyade's system for the purpose of providing displays on-demand by outputting a time

stamp responsive to detecting a pointing device in proximity to the instant message, thereby providing effective displays on devices having diverse sizes including those with small, monochrome displays and capabilities [see the abstract and col. 2, lines 53-56].

Conclusion

THIS ACTION IS MADE FINAL. 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 mailing date of this final action.

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially

teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner. In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL C. LAI whose telephone number is (571)270-3236. The examiner can normally be reached on M-F 9:00 - 5:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. 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://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (tollfree). 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.

Michael C. Lai Art Unit 2457 Phone: (571) 270-3236 Fax: (571) 270-4236

/ARIO ETIENNE/ Supervisory Patent Examiner, Art Unit 2457

| | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|--------------|-------------------------|--|
| Search Notes | 13615419 | KLASSEN ET AL. |
| | Examiner | Art Unit |
| | MICHAEL C LAI | 2457 |

| CPC- SEARCHED | | |
|---------------|------|----------|
| Symbol | Date | Examiner |

| CPC COMBINATION SETS - SEARCHED | | | | |
|---------------------------------|------|----------|--|--|
| Symbol | Date | Examiner | | |
| | | | | |

| US CLASSIFICATION SEARCHED | | | | |
|----------------------------|----------|----------|----------|--|
| Class | Subclass | Date | Examiner | |
| 709 | 206, 207 | 02/19/13 | Lai | |
| Inventor search | | 02/19/13 | Lai | |

| SEARCH NOTES | | | | | | | | | |
|---------------------------|----------|----------|--|--|--|--|--|--|--|
| Search Notes | Date | Examiner | | | | | | | |
| EAST | 02/19/13 | Lai | | | | | | | |
| EIC fast and focus search | 02/20/13 | Lai | | | | | | | |
| EAST | 05/29/13 | Lai | | | | | | | |

| INTERFERENCE SEARCH | | | | | | | | |
|-------------------------|-------------------------|------|----------|--|--|--|--|--|
| US Class/ CPC Symbol | US Subclass / CPC Group | Date | Examiner | | | | | |

| · | |
|---|--|
| | |
| | |
| | |
| | |

U.S. Patent and Trademark Office

-

r.

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp | |
|----------|-------|---|--|---------------------|---------|---------------------|--|
| L16 | 0 | (time\$1stamp\$1 or stamp\$1) near6 (tomorrow or next adj day) near6 chang\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 10:49 | |
| L17 | 0 | (time\$1stamp\$1 or stamp\$1) near9 (tomorrow or next adj day) near9 chang\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 10:50 | |
| L18 | 0 | (time\$1stamp\$1 or stamp\$1) with (tomorrow or next adj day) with chang\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 10:50 | |
| L19 | 16 | (time\$1stamp\$1 or stamp\$1) near6 (tomorrow or next adj day) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 10:51 | |
| L20 | 3 | 19 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 10:51 | |
| L21 | 13 | 19 not 20 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 10:54 | |
| L22 | 33 | (time\$1stamp\$1 or stamp\$1) with (tomorrow or next adj day) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 10:56 | |
| L23 | 16589 | 709/206,207.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 10:56 | |
| L24 | 0 | 22 and L23 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 10:56 | |
| L25 | 39 | (time\$1stamp\$1 or stamp\$1) with (yesterday or previous adj day) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 10:58 | |
| L26 | 5 | 25 and L23 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 10:58 | |
| L27 | 13 | 25 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 10:59 | |

 $file:///Cl/Users/mlai/Documents/e-Red\% 20 Folder/13615419/EASTS earchHistory. 13615419_AccessibleVersion.htm [5/29/2013\ 11:47:17\ AM]$

Page 228 of 394

| L28 | 9 | 22 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 11:16 |
|-----|--------|---|--|-----|-----|---------------------|
| L29 | 954682 | (time\$1stamp\$1 or time) near6 chang\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 11:21 |
| L30 | 2603 | 23 29 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 11:21 |
| L31 | 3305 | (time\$1stamp\$1) near6 chang\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 11:22 |
| L32 | 48 | 23 31 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 11:22 |
| L33 | 10 | 32 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 11:23 |
| L34 | 42 | (time\$1stamp\$1) near6 chang\$4 near9 display\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 11:32 |
| L35 | 10 | 34 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 11:32 |
| L36 | 0 | (time\$1stamp\$1) with (time adj progress\$4) with chang\$4 with display\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 11:44 |
| L37 | 1 | (time\$1stamp\$1) with (time adj progress\$4) with display\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/05/29 11:45 |

EAST Search History (Interference)

< This search history is empty>

5/ 29/ 2013 11:47:05 AM C:\ Users\ mlai\ Documents\ EAST\ Workspaces\ 13111675.wsp

| | | | | | | Application/Control No. | | | | | Applicant(s)/Patent Under Reexamination | | | | | | |
|-----------------|--------|------------|-----------------------|-----|---------------------|-------------------------|-------|------|-------------|----------------|--|---|-------|------------|------|--------|--|
| Index of Claims | | | | | 2 | 13615419 | | | | KLASSEN ET AL. | | | | | | | |
| | | | | | | Examiner | | | | | Art Unit | | | | | | |
| | | | | Ĵ | MICHAEL C LAI | | | | | 2457 | | | | | | | |
| ✓ Rejected - | | | | Ca | Cancelled N Non-Ele | | | Eleo | ected A App | | | | peal | | | | |
| = Allowed ÷ | | | | | Re | Restricted I Interfere | | | | | ence O Obje | | | | Obje | ected | |
| | Claims | renumbered | in the sa | ame | order as | presented by a | pplic | ant | | | СРА | E |] т.с |) . | | R.1.47 | |
| | CL | AIM | | | | DATE | | | | | | | | | | | |
| Fi | nal | Original | 02/25/2 | 013 | 05/29/20 | 13 | | 1 | | 1 | | | | | | | |
| | | 1 | ✓ | | ~ | | | | | | | | | | | | |
| | | 2 | 1 | | 1 | | | | | | | | | | | | |
| | | 3 | 1 | | ~ | | | | | | | | 1 | | | | |
| | | 4 | 1 | | ~ | | | | | | | | | | | | |
| | | 5 | × | _ | ~ | | | | | | | | Ĩ | | | | |
| | | 6 | 1 | | ~ | | | | | | | | | | | | |
| | | 7 | ~ | | ✓ | | | | | | | | | | | | |
| | | 8 | 1 | | ~ | | | | | | | | | | | | |
| | | 9 | ~ | | ~ | | | | | | | | | | | | |
| | | 10 | 1 | | ~ | | | | | | | | Í | | | | |
| | | 11 | 1 | | ~ | | | | | | | | | | | | |
| | | 12 | 1 | | ~ | | | | | | | | | | | | |
| | | 13 | × | | ~ | | | | | | | | | | | | |
| | | 14 | × | | ~ | | | | | | | | 1 | | | | |
| | | 15 | × | | ~ | | | 1 | | | | | | | | | |
| | | 16 | 1 | | ~ | | | | | | | | i i | | | | |
| | | 17 | ✓ | | ~ | | | | | | | | | | | | |

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Appl. No.: 13/615,419

Applicant: KLASSEN, Gerhard D. et al.

Filed: September 13, 2012

Title: Handheld Electronic Device and Associated Method Providing Time Data in a Messaging Environment

Art Unit: 2457

Examiner: LAI, Michael C.

Docket No.: 70314/01061

Mail Stop Amendment U.S. Patent & Trademark Office Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

RESPONSE

Sir:

This is further to the Office Action dated March 14, 2013. Applicant wishes to amend the above-identified application as follows:

Amendments to the Specification: begin on page 2 of this paper.

Amendments to the Claims: are reflected in the listing of claims which begins on page 3 of this paper.

Remarks: begin on page 6 of this paper.

Amendments to the Specification

Please replace paragraph [0001] of the application as filed with the following amended paragraph:

[0001] This application is a continuation of U.S. Patent Application No. 13/111,675 filed on May 19, 2011, now U.S. Patent No. 8,301,713; which is a continuation of U.S. Patent Application No. 10/944,925 filed on September 20, 2004, now U.S. Patent No. 7,970,849, which claims the benefit of U.S. Provisional Application No. 60/504,379 entitled filed on Sep. 19, 2003, all of which are hereby incorporated into the present application by reference.

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

1. (Currently amended) A method of displaying an instant messaging conversation on a display of an electronic device, the method comprising:

displaying a conversation of instant messages;

displaying a first time information for an instant message in the conversation in response to a first input; and

<u>automatically</u> changing the first time information for the instant message to a second time information as time progresses <u>and displaying the second time information instead of the first time information; and</u>

displaying the second time information in response to a second input.

2. (Original) The method of claim 1, wherein the first time information comprises an absolute time.

3. (Original) The method of claim 2, wherein the second time information further comprises additional information.

4. (Original) The method of claim 3, wherein the additional information comprises an indication of a day on which the instant message was sent.

5. (Currently amended) The method of claim 1, wherein at least one of the first time information and <u>the</u> second time information comprises a relative time.

6. (Original) The method of claim 5, wherein the second time information comprises an absolute time after expiration of a predetermined duration of time.

7. (Original) The method of claim 1, wherein the first time information is displayed for only a predetermined duration of time.

8. (Currently amended) The method of claim 1, wherein at least one of the first input and <u>the</u> second input comprises detecting a pointing device in proximity to the instant message.

9. (Currently amended) An electronic device for displaying an instant messaging conversation, the electronic device comprising:

a display;

a memory; and

a processor electronically coupled with the display and the memory, the processor configured to:

display a conversation of instant messages;

display a first time information for an instant message in the conversation in response to a first input; and

<u>automatically</u> change the first time information for the instant message to a second time information as time progresses <u>and displaying the second time information instead of the first time information</u>; and

display the second time information in response to a second input.

10. (Original) The electronic device of claim 9, wherein the first time information comprises an absolute time.

11. (Original) The electronic device of claim 10, wherein the second time information further comprises additional information.

12. (Original) The electronic device of claim 11, wherein the additional information comprises an indication of a day on which the instant message was sent.

13. (Currently amended) The electronic device of claim 9, wherein at least one of the first time information and <u>the</u> second time information comprises a relative time.

14. (Original) The electronic device of claim 13, wherein the second time information comprises an absolute time after expiration of a predetermined duration of time.

15. (Currently amended) The method <u>electronic device</u> of claim 9, wherein the first time information is displayed for only a predetermined duration of time.

16. (Currently amended) The electronic device of claim 9, wherein at least one of the first input and <u>the</u> second input comprises detecting a pointing device in proximity to the instant message.

17. (Currently amended) A non-transitory computer readable medium comprising computer executable instructions embedded thereon for execution by a processor of an electronic device such that, when executed, cause the processor to:

display a conversation of instant messages;

display a first time information for an instant message in the conversation in response to a first input; and

<u>automatically</u> change the first time information for the instant message to a second time information as time progresses <u>and displaying the second time information instead of the first time information; and</u>

-----display the second time information in response to a second input.

REMARKS

Applicant wishes to thank the Examiner for reviewing the present application.

Specification Objection

The cross-reference section of the specification has been amended as suggested by the Examiner to identify the related applications by their respective patent numbers, thus overcoming the objection to the specification.

Applicant respectfully submits that no new subject matter has been added by way of these amendments.

Claim Amendments

Claim 1 has been amended to clarify the protection being sought by combining the final two operations and specifying that the "changing" is done automatically. Claim 1 as amended recites: "automatically changing the first time information for the instant message to a second time information as time progresses and displaying the second time information instead of the first time information". Support for this amendment can be found in at least FIG. 10 and paragraphs [0052] to [0054] of the application as filed.

Claims 5, 8, 13, and 16 have been amended as suggested by the Examiner inserting "the" where specified.

Claim 15 has been amended to correct the preamble and refer to the "electronic device" as suggested by the Examiner.

Claims 9 and 17 have been amended in a manner consistent with claim 1 as amended.

Applicant respectfully submits that no new subject matter has been added by way of these amendments.

Claim Objections

Claims 5, 8, 13, 15, and 16 have been objected to for various informalities set forth in the Office Action. As noted above, these claims have been amended as suggested by the Examiner, thus overcoming the objections.

Application No. 13/615,419 Amendment Dated: May 23, 2013 Reply to Office Action of: March 14, 2013

Claim Rejections – 35 U.S.C. 103

Claims 1-4, 9-12, and 17 have been rejected under 35 U.S.C. 103(a) as being unpatentable over Appelman (U.S. Patent No. 7,181,497) in view of Lapuyade (U.S. Patent No. 7,219,109). Claims 5, 6, 13 and 14 have been rejected under 35 U.S.C. 103(a) as being unpatentable over Appelman and Lapuyade in further view of Mathewson (U.S. Patent No. 7,305,441). Claims 7, 8, 15 and 16 have been rejected under 35 U.S.C. 103(a) as being unpatentable over Appelman and Lapuyade in further view of MacPhail (U.S. Patent No. 6,636,243). Applicant respectfully traverses the rejections as follows.

The present application recognizes the advantages of providing particular time information in an instant messaging application, in particular circumstances. In one aspect, it has been recognized that a given time stamp may be a "smart" time stamp and provide additional information depending upon the prevailing circumstances. For instance, if the first time stamp of FIG. 4 was output as indicated above, and if the conversation was not resumed until the following day, the first time stamp potentially could be configured to automatically change from being displayed as "2:44 pm" on the day of communication of the non-responded-to message 80 to being displayed as, for instance, "2:44 pm Thursday" or, for instance, "2:44 PM September 17, 2004" or, for instance, "2:44 pm yesterday" on the following day (see paragraph [0052] of the application as filed).

Also, such time stamps could be configured to be "active" time stamps and would change as time progressed. For instance, the time stamp could progressively change from saying "less than one minute ago" to saying "one minute ago", "two minutes ago", "forty-five minutes ago", and the like as time progressed. Such a time stamp also could be configured, for instance, to revert back to displaying an absolute time after the expiration of a given time duration. For example, once the message is one hour old, for instance, the time stamp might be configured to no longer output a relative time such as "fifty-nine minutes ago", and rather to output an absolute time such as "2:54 pm".

Claim 1 as amended clarifies this concept by reciting in part:

"<u>automatically changing</u> the first time information for the instant message to a second time information <u>as time progresses</u> and <u>displaying the</u> <u>second time information instead of</u> the first time information" [emphasis added].

Applicant respectfully submits that none of the cited references teach or suggest such an automatic changing of time information.

7

22358916.1

Application No. 13/615,419 Amendment Dated: May 23, 2013 Reply to Office Action of: March 14, 2013

Appelman teaches a messaging application user interface that has an input element for receiving electronic messages and an output element for displaying electronic messages (e.g., see FIGS. 12-31). The messaging application user interface is implemented to, among other things, maintain a subset of a plurality of potential message recipients, auto-complete a partially entered address based on the partial list of potential message recipients, and modify auto-completion behavior using user-selectable signals. Appelman shows displaying a timestamp with each message, and fails to teach or suggest changing any of these timestamps under any circumstances. There is nothing in Appelman that would provide any motivation to perform such an operation.

The Examiner acknowledges that Appelman fails to disclose: "changing the first time information for the instant message to a second time information as time progresses..." and cites Lapuyade as teaching what is missing from Appelman. Although Applicant believes that there is nothing in Appelman that would suggest such a modification, for the sake of argument, Applicant submits that Lapuyade fails to teach what is missing from Appelman.

Lapuyade teaches a time zone management system for a date book like application. Although Lapuyade shows a prompt allowing the <u>user</u> to <u>select</u> an option to change to a new time zone, it is unclear to Applicant how such a feature would suggest automatically changing time information <u>in an instant messaging conversation</u>.

Changing time zone information is quite different from changing time information for a message in an instant messaging conversation. Time zones change as the device moves and thus providing a prompt such as that shown in Lapuyade is understandable to enable the device to be displaying time related items according to that time zone, particularly for a date book application.

In contrast, changing time information for a message in an instant messaging conversation is entirely different from what was done in the prior art, for example, as shown in Appelman. In Appelman, a time stamp is recorded and displayed for each message. There is simply nothing that even hints at changing these time stamps, let alone as time progresses. Appelman is entirely silent in that regard.

Also, since changing a time zone for a date book application is quite different from changing time information for a message in an instant messaging conversation, there is nothing to motivate a person skilled in the art to make a modification to Appelman. Consequently, at most, the two features would be used in the same device which says nothing more than in addition to displaying time stamps for instant messages, the device can also prompt a user of a new time zone.

For at least these reasons, not only do Appelman and Lapuyade fail to teach each and every element in claim 1, there is not teaching, suggestion, or motivation to even consider the references together, let alone to modify Appelman in the way suggested by the Examiner. Accordingly,

8

22358916.1

Application No. 13/615,419 Amendment Dated: May 23, 2013 Reply to Office Action of: March 14, 2013

Applicant respectfully submits that claims 1-4, 9-12, and 17 are patentable over Appelman in view of Lapuyade.

With respect to Mathewson, although Mathewson may be construed as suggesting outputting a duration of time, Applicant respectfully submits that Mathewson does not teach what is believed to be missing from Appelman and Lapuyade per the above and, as such, it is respectfully submitted that claims 5, 6, 13, and 14 are patentable over Appelman and Lapuyade, in further view of Mathewson.

With respect to MacPhail, MacPhail teaches a system in which icons representing critical indicators are displayed in superposition with a reference shape. The reference shape is divided into "higher-interest" and "lower-interest" portions such that display of an icon over the higher-interest portion of the reference shape indicates a higher-interest value of the corresponding value. Although MacPhail may suggest displaying timestamps to indicate a change in status (e.g. according to a predetermined period of time), there is nothing in MacPhail that teaches or suggests what is missing from Appelman and Lapuyade per the above and, as such, it is respectfully submitted that claims 7, 8, 15, and 16 are patentable over Appelman and Lapuyade, in further view of MacPhail.

In view of the foregoing, Applicant respectfully submits that the present application is in condition for allowance and thus requests early reconsideration and allowance of the present application.

Respectfully submitted,

Breft J. Slanev Agent for Applicant Registration No. 58,772

Date: May 23, 2013

BLAKE, CASSELS & GRAYDON LLP 199 Bay Street Suite 4000, Commerce Court West Toronto ON M5L 1A9 Canada

Tel: 416-863-2518 BS/

22358916.1

| Electronic Acl | knowledgement Receipt |
|--------------------------------------|--|
| EFS ID: | 15855381 |
| Application Number: | 13615419 |
| International Application Number: | |
| Confirmation Number: | 2640 |
| Title of Invention: | Handheld Electronic Device and Associated Method Providing Time Data in a Messaging Environment |
| First Named Inventor/Applicant Name: | Gerhard D. Klassen |
| Customer Number: | 91704 |
| Filer: | Brett Joseph Slaney/Judith Martin |
| Filer Authorized By: | Brett Joseph Slaney |
| Attorney Docket Number: | 70314/01061 |
| Receipt Date: | 23-MAY-2013 |
| Filing Date: | 13-SEP-2012 |
| Time Stamp: | 14:52:41 |
| 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)/ Multi Message Digest Part /.zij | | Pages (if appl.) | |
| 1 | | 11144-US-CNT5_OA-Response. | 375602 | yes | 9 | |
| | | pdf | 990dde6f73223c094a4178584141da27759 1d3e2 | | 2 | |

| | Multipart Description/PDF files in .zip description | | | | | | |
|--------------|---|-------|-------|--|--|--|--|
| | Document Description | Start | End | | | | |
| | Amendment/Req. Reconsideration-After Non-Final Reject | 1 | 1 | | | | |
| | Specification | 2 | 2 | | | | |
| | Claims | 3 | 5 | | | | |
| | Applicant Arguments/Remarks Made in an Amendment | 6 | 9 | | | | |
| Warnings: | | | | | | | |
| Information: | | | | | | | |
| | Total Files Size (in bytes): | 37 | 75602 | | | | |

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|------------------------|----------------------------------|----------------------|---------------------|-----------------|
| 13/615,419 | 09/13/2012 | Gerhard D. Klassen | 70314/01061 | 2640 |
| 91704 Blake Cassels | 7590 03/14/2013 & Graydon LLP | | EXAM | INER |
| | EET, SUITE 4000 | | LAI, MIC | HAEL C |
| COMMERCE TORONTO, O | COURT WEST N M5L 1A9 | | ART UNIT | PAPER NUMBER |
| CANADA | | | 2457 | |
| | | | .2 | |
| | | | NOTIFICATION DATE | DELIVERY MODE |
| | | | 03/14/2013 | 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):

rimpatent@blakes.com brett.slaney@blakes.com portfolioprosecution@blackberry.com

PTOL-90A (Rev. 04/07)

| | Application No. | Applicant(s) | | | |
|---|--|--|----------------|--|--|
| | 13/615,419 | KLASSEN ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | MICHAEL C. LAI | 2457 | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence ad | ldress | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed the mailing date of this c D (35 U.S.C. § 133). | | | |
| Status | | | | | |
| 1) Responsive to communication(s) filed on <u>13 Sec</u> | eptember 2012. | | | | |
| 2a) This action is FINAL . 2b) This | action is non-final. | | | | |
| 3) An election was made by the applicant in resp | onse to a restriction requirement | set forth during th | e 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 E | <i>x parte Quayle</i> , 1935 C.D. 11, 45 | 53 O.G. 213. | | | |
| Disposition of Claims | | | | | |
| 5) ☑ Claim(s) <u>1-17</u> 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) <u>1-17</u> is/are rejected. | | | | | |
| 8) Claim(s) is/are objected to. | coloction requirement | | | | |
| 9) Claim(s) are subject to restriction and/o | · | | | | |
| * If any claims have been determined <u>allowable</u> , you may program at a participating intellectual property office for t <u>http://www.uspto.gov/patents/init_events/pph/index.jsp</u> o | he corresponding application. Fo | r more informatio | | | |
| Application Papers | | | | | |
| 10) The specification is objected to by the Examine | r. | | | | |
| 11) The drawing(s) filed on <u>13 September 2012</u> is/a | are: a)🛛 accepted or b)🗌 objec | ted to by the Exa | miner. | | |
| Applicant may not request that any objection to the | drawing(s) be held in abeyance. See | e 37 CFR 1.85(a). | | | |
| Replacement drawing sheet(s) including the correct | ion is required if the drawing(s) is obj | ected to. See 37 C | FR 1.121(d). | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: | priority under 35 U.S.C. § 119(a) | -(d) or (f). | | | |
| 1. Certified copies of the priority documents | s have been received | | | | |
| 2. Certified copies of the priority documents | | on No | | | |
| 3. Copies of the certified copies of the prior | | | Stage | | |
| application from the International Bureau | | | elage | | |
| * See the attached detailed Office action for a list | | d. | | | |
| | | | | | |
| Attachment(s) 1) X Notice of References Cited (PTO-892) | a) 🗖 Internition Comm | | | | |
| | 3) 🗌 Interview Summary Paper No(s)/Mail Da | | | | |
| 2) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>10/22/2012</u>. U.S. Patent and Trademark Office | 4) 🗌 Other: | | | | |
| | tion Summary Pa | rt of Paper No./Mail D | ate 20130219 | | |

Page 243 of 394

DETAILED ACTION

 This office action is responsive to communication filed on 09/13/2012. Claims 1-17 have been examined.

Priority

 This application is a continuation of U.S. Patent Application No. 13/111,675 filed on May 19, 2011, now Patent No. 8,301,713, which is a continuation of U.S. Patent Application No. 10/944,925 filed on September 20, 2004, now Patent No. 7,970,849, which claims the benefit of U.S. Provisional Application No. 60/504,379, filed on September 19, 2003.

Specification

 The disclosure is objected to because of the following informalities: references to US Patent No. 8,301,713 and 7,970,849 should be provided in the "Cross Reference to Related Applications" section.

Claim Objections

4. The following claims are objected to because of the following informalities:

Claim 5, in lines 1-2, the term "second time information" should be "the second time information".

Claim 8, in line 1, the term "second input" should be "the second input".

Claim 13, in line 2, the term "second time information" should be "the second time information".

Claim 15, in line 1, the term "method of claim 9" should be "electronic device of claim 9".

Claim 16, in line 1, the term "second input" should be "the second input".

Claim Rejections - 35 USC § 103

5. 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.

6. Claims 1-4, 9-12, and 17 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Appelman et al. (US 7,181,497 B1, hereinafter Appelman), in view of Lapuyade et al. (US 7,219,109 B1, hereinafter Lapuyade).

Regarding claim 1, Appelman discloses a method of displaying an instant

messaging conversation on a display of an electronic device, the method

comprising:

displaying a conversation of instant messages [see at least Figs. 16-17,

"F>" (from) and "T>" (to) messages; col. 9, lines 23-48];

displaying a first time information for an instant message in the

conversation in response to a first input [see at least Figs. 17-18, the display

of timestamp "13:21:12"; col. 9, lines 49-67. The examiner considers the

entry of "How are you?" in Fig. 17 as the input].

Appelman does not disclose: changing the first time information for the instant message to a second time information as time progresses; and displaying the second time information in response to a second input. However, Lapuyade

disclose displaying time and time zone information as a result of user input when a change in time zone has occurred [see at least Fig. 7 and col. 6, lines 21-43]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Lapuyade's teaching into Appelman's method for the purpose of alerting the user when a time zone change has occurred by confirming and displaying time information according to desired time zone, thereby providing better management of time zone information on a handheld computer [see the abstract].

Regarding claim 2, Appelman further discloses wherein the first time information comprises an absolute time [see at least Fig. 18, field 666].

Regarding claim 3, Appelman and Lapuyade disclose the claim invention including wherein the second time information further comprises additional information [see at least Lapuyade: Fig. 2, time zone information, and col. 6, lines 21-43]. See claim 1 for motivation.

Regarding claim 4, Appelman and Lapuyade disclose the claim invention including wherein the additional information comprises an indication of a day on which the instant message was sent [see at least Lapuyade: Fig. 2, date, and col. 6, lines 21-43]. See claim 1 for motivation.

Regarding claim 9, Appelman discloses an electronic device for displaying an instant messaging conversation, the electronic device comprising:

a display; a memory; and a processor electronically coupled with the display and the memory [see e.g., Figs. 1, 2, client stations], the processor configured to:

display a conversation of instant messages [see at least Figs. 16-17, "F>" (from) and "T>" (to) messages; col. 9, lines 23-48];

display a first time information for an instant message in the conversation in response to a first input [see at least Figs. 17-18, the display of timestamp "13:21:12"; col. 9, lines 49-67. The examiner considers the entry of "How are you?" in Fig. 17 as the input].

Appelman does not disclose: change the first time information for the instant message to a second time information as time progresses; and display the second time information in response to a second input. However, Lapuyade disclose displaying time and time zone information as a result of user input when a change in time zone has occurred [see at least Fig. 7 and col. 6, lines 21-43]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Lapuyade's teaching into Appelman's method for the purpose of alerting the user when a time zone change has occurred by confirming and displaying time information according to desired time zone, thereby providing better management of time zone information on a handheld computer [see the abstract].

Regarding claim 10, Appelman further discloses wherein the first time information comprises an absolute time [see at least Fig. 18, field 666].

Regarding claim 11, Appelman and Lapuyade disclose the claim invention including wherein the second time information further comprises additional information [see at least Lapuyade: Fig. 2, time zone information, and col. 6, lines 21-43]. See claim 1 for motivation.

Regarding claim 12, Appelman and Lapuyade disclose the claim invention including wherein the additional information comprises an indication of a day on which the instant message was sent [see at least Lapuyade: Fig. 2, date, and col. 6, lines 21-43]. See claim 1 for motivation.

Regarding claim 17, Appelman discloses a non-transitory computer readable medium comprising computer executable instructions embedded thereon [see col. 3, lines 25-38] for execution by a processor of an electronic device such that, when executed, cause the processor to:

display a conversation of instant messages [see at least Figs. 16-17, "F>" (from) and "T>" (to) messages; col. 9, lines 23-48];

display a first time information for an instant message in the conversation in response to a first input [see at least Figs. 17-18, the display of timestamp "13:21:12"; col. 9, lines 49-67. The examiner considers the entry of "How are you?" in Fig. 17 as the input]. Appelman does not disclose: change the first time information for the instant message to a second time information as time progresses; and display the second time information in response to a second input. However, Lapuyade disclose displaying time and time zone information as a result of user input when a change in time zone has occurred [see at least Fig. 7 and col. 6, lines 21-43]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Lapuyade's teaching into Appelman's method for the purpose of alerting the user when a time zone change has occurred by confirming and displaying time information according to desired time zone, thereby providing better management of time zone information on a handheld computer [see the abstract].

 Claims 5, 6, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Appelman and Lapuyade as applied to claim 1, and further in view of Mathewson, II et al. (US 7,305,441 B2, hereinafter Mathewson).

Regarding claim 5, Appelman and Lapuyade disclose the method of claim 1, but are silent about wherein at least one of the first time information and second time information comprises a relative time. However, Mathewson teaches that alternatively, time sensitivity may be indicated in terms of elapsed time [col. 7, lines 40-47]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Mathewson's teaching into Appelman's and Lapuyade's method for the purpose of providing the user an expedited understanding of the time aspects of the message by displaying a

relative time stamp representative of time elapsed between communication of the consecutive messages, thereby providing users greater convenience.

Regarding claim 6, Appelman, Lapuyade, and Mathewson disclose the claimed invention including wherein the second time information comprises an absolute time after expiration of a predetermined duration of time [Lapuyade: Fig. 2, time and date information, and col. 6, lines 21-43].

Regarding claim 13, Appelman and Lapuyade disclose the electronic device of claim 9, but are silent about wherein at least one of the first time information and second time information comprises a relative time. However, Mathewson teaches that alternatively, time sensitivity may be indicated in terms of elapsed time [col. 7, lines 40-47]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Mathewson's teaching into Appelman's and Lapuyade's system for the purpose of providing the user an expedited understanding of the time aspects of the message by displaying a relative time stamp representative of time elapsed between communication of the consecutive messages, thereby providing users greater convenience.

Regarding claim 14, Appelman, Lapuyade, and Mathewson disclose the claimed invention including wherein the second time information comprises an absolute time after expiration of a predetermined duration of time [Lapuyade: Fig. 2, time and date information, and col. 6, lines 21-43].

 Claims 7, 8, 15, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Appelman and Lapuyade as applied to claim 1, and further in view of MacPhail (US 6,636,243 B1, hereinafter MacPhail).

Regarding claim 7, Appelman and Lapuyade disclose the method of claim 1, but are silent about wherein the first time information is displayed for only a predetermined duration of time. However, MacPhail teaches a blinking is initiated upon the range crossing, and continued for a predetermined time interval, where the time interval may be set by, for example, a developer of an application using the display representation, or a viewer of the display [see Fig. 4 and col. 9, line 37 through col. 10, line 2]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate MacPhail's teaching into Appelman's and Lapuyade's method to display the first time information for only a predetermined duration of time. The motivation is to provide effective displays on devices having diverse sizes including those with small, monochrome displays and capabilities [see the abstract and col. 2, lines 53-56].

Regarding claim 8, Appelman and Lapuyade disclose the method of claim 1, but are silent about wherein at least one of the first input and second input comprises detecting a pointing device in proximity to the instant message. However, MacPhail teaches a timestamp indicating the most recent time of a status change could be displayed only upon request by a viewer (or "user"), as illustrated in FIG. 4(b), icon 80. MacPhail further discloses by simply positioning

a pointer over an icon (read as a request or an input) may be sufficient to cause display of the timestamp [see col. 10, lines 3-22]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate MacPhail's teaching into Appelman's and Lapuyade's method for the purpose of providing displays on-demand by outputting a time stamp responsive to detecting a pointing device in proximity to the instant message, thereby providing effective displays on devices having diverse sizes including those with small, monochrome displays and capabilities [see the abstract and col. 2, lines 53-56].

Regarding claim 15, Appelman and Lapuyade disclose the electronic device claim 9, but are silent about wherein the first time information is displayed for only a predetermined duration of time. However, MacPhail teaches a blinking is initiated upon the range crossing, and continued for a predetermined time interval, where the time interval may be set by, for example, a developer of an application using the display representation, or a viewer of the display [see Fig. 4 and col. 9, line 37 through col. 10, line 2]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate MacPhail's teaching into Appelman's and Lapuyade's method to display the first time information for only a predetermined duration of time. The motivation is to provide effective displays on devices having diverse sizes including those with small, monochrome displays and capabilities [see the abstract and col. 2, lines 53-56].

Regarding claim 16, Appelman and Lapuyade disclose the electronic device of claim 9, but are silent about wherein at least one of the first input and second input comprises detecting a pointing device in proximity to the instant message. However, MacPhail teaches a timestamp indicating the most recent time of a status change could be displayed only upon request by a viewer (or "user"), as illustrated in FIG. 4(b), icon 80. MacPhail further discloses by simply positioning a pointer over an icon (read as a request or an input) may be sufficient to cause display of the timestamp [see col. 10, lines 3-22]. Thus it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate MacPhail's teaching into Appelman's and Lapuyade's system for the purpose of providing displays on-demand by outputting a time stamp responsive to detecting a pointing device in proximity to the instant message, thereby providing effective displays on devices having diverse sizes including those with small, monochrome displays and capabilities [see the abstract and col. 2, lines 53-56].

Conclusion

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially

teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner. In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Lai whose telephone number is (571) 270-3236. The examiner can normally be reached on M-F 8:30 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. 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://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (tollfree). 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.

Michael C. Lai Art Unit 2457 Phone: (571) 270-3236 Fax: (571) 270-4236

/MICHAEL C LAI/

Examiner, Art Unit 2457

| | | | | | Application/ 13/615,419 | Control No. | Applicant(s)/P Reexaminatio | n |
|---|---|--|--------------------|-----------|----------------------------|--------------------------|--------------------------------|----------------|
| | | Notice of Reference | s Cited | | | | KLASSEN ET | AL. |
| | | | | | Examiner | | Art Unit | Page 1 of 2 |
| | | | | | MICHAEL C | | 2457 | |
| | | Document Number | Date | U.S. P/ | ATENT DOCUM | IENTS | | |
| * | | Country Code-Number-Kind Code | MM-YYYY | | | Name | | Classification |
| * | А | US-2002/0147135 A1 | 10-2002 | Schnell | , Oliver | | | 514/3 |
| * | В | US-2003/0001890 A1 | 01-2003 | Brin, G | len David | | | 345/753 |
| * | С | US-2003/0104841 A1 | 06-2003 | Yamarr | noto, Katsuaki | | | 455/566 |
| * | D | US-6,603,389 B1 | 08-2003 | Murray | , Bradley A. | | | 340/7.2 |
| * | Е | US-2004/0205775 A1 | 10-2004 | Heikes | et al. | | | 719/318 |
| * | F | US-2005/0080866 A1 | 04-2005 | Kent et | al. | | | 709/207 |
| * | G | US-6,889,063 B2 | 05-2005 | Yamad | a, Hironori | | | 455/567 |
| * | Н | US-2005/0165543 A1 | 07-2005 | Yokota | , Tatsuo | | | 701/204 |
| * | Ι | US-7,099,700 B2 | 08-2006 | Hwang | et al. | | | 455/566 |
| * | J | US-7,111,044 B2 | 09-2006 | Lee, Jir | ו Woo | | | 709/204 |
| * | К | US-7,181,497 B1 | 02-2007 | Appelm | nan et al. | | | 709/206 |
| * | L | US-7,219,109 B1 | 05-2007 | Lapuya | de et al. | | | 719/318 |
| * | М | US-7,305,441 B2 | 12-2007 | Mathew | Mathewson et al. | | | 709/206 |
| | | | | FOREIGN | PATENT DOC | UMENTS | | |
| * | | Document Number Country Code-Number-Kind Code | Date MM-YYYY | 0 | Country | Name | | Classification |
| * | Ν | GB 2350746 A | 12-2000 | United | Kingdom | NOBUKIYO, TAKAH | IRO | H04L 12/54 |
| | 0 | | | | | | | |
| | Ρ | | | | | | | |
| | Q | | | | | | | |
| | R | | | | | | | |
| | S | | | | | | | |
| | Т | | | | | | | |
| | | | | NON-P | ATENT DOCU | IENTS | | |
| * | | Inclue | de as applicable | : Author, | Title Date, Publi | sher, Edition or Volume, | Pertinent Pages) | |
| | | | | | | | | |
| | U | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | V | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | W | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | Х | | | | | | | |
| | | is reference is not being furnished with t | in Office entire (| | 8 707 05(0)) | | | |

*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.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Part of Paper No. 20130219

| Notice of References Cited | Application/Control No. 13/615,419 | Applicant(s)/Patent Under Reexamination KLASSEN ET AL. | |
|----------------------------|---------------------------------------|--|-------------|
| | Examiner | Art Unit | |
| | MICHAEL C. LAI | 2457 | Page 2 of 2 |

U.S. PATENT DOCUMENTS

| * | | Document Number Country Code-Number-Kind Code | Date MM-YYYY | Name | Classification |
|---|---|--|-----------------|----------------------------|----------------|
| * | А | US-7,349,947 B1 | 03-2008 | Slage et al. | 709/217 |
| * | В | US-6,636,243 | 10-2003 | MacPhail, Margaret Gardner | 715/772 |
| | С | US- | | | |
| | D | US- | | | |
| | Е | US- | | | |
| | F | US- | | | |
| | G | US- | | | |
| | Н | US- | | | |
| | Ι | US- | | | |
| | J | US- | | | |
| | к | US- | | | |
| | L | US- | | | |
| | М | US- | | | |

FOREIGN PATENT DOCUMENTS

| * | | Document Number Country Code-Number-Kind Code | Date MM-YYYY | Country | Name | Classification |
|---|---|--|-----------------|---------|------|----------------|
| | Ν | | | | | |
| | 0 | | | | | |
| | Р | | | | | |
| | Q | | | | | |
| | R | | | | | |
| | s | | | | | |
| | т | | | | | |

NON-PATENT DOCUMENTS

| * | | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|---|
| | U | |
| | v | |
| | w | |
| | x | is reference is not being furnished with this Office actions (See MDED \$ 707.05(s).) |

*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.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

| 200 M 1992 | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|--------------|-------------------------|--|
| Search Notes | 13615419 | KLASSEN ET AL. |
| | Examiner | Art Unit |
| | MICHAEL C LAI | 2457 |

| CPC- SEARCHED | | |
|---------------|------|----------|
| Symbol | Date | Examiner |

| CPC COMBINATION SETS - SEARCHED | | | | | |
|---------------------------------|----------|--|--|--|--|
| Date | Examiner | | | | |
| | | | | | |

| US CLASSIFICATION SEARCHED | | | | | | | |
|----------------------------|----------|----------|----------|--|--|--|--|
| Class | Subclass | Date | Examiner | | | | |
| 709 | 206, 207 | 02/19/13 | Lai | | | | |
| Inventor search | | 02/19/13 | Lai | | | | |

| SEARCH NOTES | | | | | | |
|---------------------------|----------|----------|--|--|--|--|
| Search Notes | Date | Examiner | | | | |
| EAST | 02/19/13 | Lai | | | | |
| EIC fast and focus search | 02/20/13 | Lai | | | | |

| INTERFERENCE SEARCH | | | | | | |
|-------------------------|-------------------------|------|----------|--|--|--|
| US Class/ CPC Symbol | US Subclass / CPC Group | Date | Examiner | | | |
| - | | | | | | |

| · |
|---|

U.S. Patent and Trademark Office

-

r

r

NPL 13615419

11/5/1 (Item 1 from file: 8)DIALOG(R)File 8: Ei Compendex(R)(c) 2013 Elsevier Eng. Info. Inc. All rights reserved.

0015298202 E.I. COMPENDEX No: 2002497253603

Internet-based collaboration system: Press-die design process for automobile manufacturer

Kong, S.H.; Noh, S.D.; Han, Y.-G.; Kim, G.; Lee, K.I.

Corresp. Author/Affil: Kong, S.H.: Automatic Control Research Centre, Seoul National University, San 56-1, Shinlim-dong, Kwanak-ku, Seoul 151-742, Korea, Republic of

Corresp. Author email: silkysix@snu.ac.kr

International Journal of Advanced Manufacturing Technology (Int J Adv Manuf Technol) (United Kingdom) 2002 20/9 (701-708)

Publication Date: 20021203

Publisher: Springer-Verlag London Ltd

CODEN: IJATE ISSN: 0268-3768

Item Identifier (DOI): 10.1007/s001700200209

Document Type: Article; Journal **Record Type:** Abstract

Treatment: T; (Theoretical)

Language: English Summary Language: English

Number of References: 11

To survive in a severe competitive environment, manufacturing enterprises must accomplish objectives such as cost reduction, quality improvement and short time-tomarket. Also, as the manufacturing environment becomes more globalised and distributed, it is important to manage the workflow harmoniously and to share the information efficiently among geographically dispersed users. In this research, we propose a collaborative design and engineering system, which manages various design processes in an integrated manner and enables the sharing of design information. Because design information is usually verylarge in its size, it is very difficult to synchronise the individual design data of each designer with the entire design data. As a solution for efficient data sharing among the designers in networks, CORBA can be applied to synchronise the states of the design information. If one user modifies design data on his/her computer, this operation is detected and transmitted to other users who are related with the design modification. A receiver's computer automatically synchronises its data with the sender's message. In this paper, an Internet-based collaboration system for a press-die design process for automobile manufacturers is developed with CORBA, Java, Java3D and a relational database system. After modelling a practical press-die design process with the UML language, workflow routing paths are created by the modelling data. Cost and time for design can be estimated by the concurrent quasi-procedural method. The system developed can notify design modification to users when it is required, and enables users to share design models and analysis results. Designers can exchange opinions about common design matters by the conferencing function of the system.

Descriptors: Computer aided design; Computer programming languages; Dies; Information science; Internet; Presses (machine tools); *Automobile manufacture **Identifiers:** Design information

Classification Codes:

723.1.1 (Computer Programming Languages)
723.5 (Computer Applications)
662.1 (Automobiles)
603.1 (Machine Tools, General)
534.1 (Foundries)
603.2 (Machine Tool Accessories)
723 (Computer Software, Data Handling & Applications)
903 (Information Science)

11/5/2 (Item 1 from file: 2) DIALOG(R)File 2: INSPEC (c) 2013 The IET. All rights reserved.

08959834

Title: Efficient causality-tracking timestamping Author(s): Helary, J.-M.¹; Raynal, M.¹; Melideo, G.; Baldoni, R. Affiliation(s): ¹ IRISA, Rennes, France Journal: IEEE Transactions on Knowledge and Data Engineering, vol.15, no.5, pp.1239-50 Publisher: IEEE Country of Publication: USA Publication Date: Sept.-Oct. 2003 **ISSN:** 1041-4347 **ISSN Type:** print SICI: 1041-4347(200309/10)15:5L.1239:ECTT;1-9 CODEN: ITKEEH U.S. Copyright Clearance Center Code: 1041-4347/03/\$17.00 Item Identifier (DOI): 10.1109/TKDE.2003.1232275 Language: English **Document Type:** Journal Paper (JP) **Treatment:** Practical (P); Theoretical or Mathematical (T) **Abstract:** Vector clocks are the appropriate mechanism used to track causality among the events produced by a distributed computation. Traditional implementations of vector clocks require application **messages** to piggyback a vector of n integers (where n is the number of processes). This paper investigates the tracking of the causality relation on a subset of events (namely, the events that are defined as "relevant" from the application point of view) in a context where communication channels are not required to be FIFO. and where there is no a priori information on the connectivity of the communication

graph or the communication pattern. **More specifically**, the paper proposes a suite of simple and efficient implementations of vector clocks that address the **reduction** of the size of **message timestamps**, i.e., they do their best to have **message** timestamps whose size is less than n. The relevance of such a suite of protocols is twofold. From a practical side, it constitutes the core of an adaptive timestamping software layer that can used by underlying applications. From a theoretical side, it provides a comprehensive view that helps better understand distributed causality-tracking

mechanisms. (20 refs.)

Subfile(s): C (Computing & Control Engineering)

Descriptors: clocks; concurrency theory; distributed

programming; message passing

Identifiers: causality-tracking timestamping; vector clocks; distributed computation; application **messages**; causality relation; communication channels; FIFO; communication graph; communication pattern; **message** timestamps; adaptive timestamping software layer; distributed causality-tracking mechanisms; asynchronous distributed computation; **message**-passing

Classification Codes: C6150N (Distributed systems software); C4240P (Parallel programming and algorithm theory)

International Patent Classification:

G06F-0001/04 (Generating or distributing clock signals or signals derived directly therefrom)

INSPEC Update Issue: 2004-019

Copyright: 2004, IEE

11/5/3 (Item 2 from file: 2) DIALOG(R)File 2: INSPEC (c) 2013 The IET. All rights reserved.

06021072

Title: Selective specialization for object-oriented languages Author(s): Dean, J.¹; Chambers, C.¹; Grove, D.¹ Affiliation(s): ¹ Dept. of Comput. Sci. & Eng., Washington Univ., Seattle, WA, USA Journal: SIGPLAN Notices , vol.30 , no.6 , pp.93-102 Country of Publication: USA Publication Date: June 1995 Conference Title: ACM SIGPLAN '95 Conference on Programming Language Design and Implementation (PLDI) Conference Date: 18-21 June 1995 Conference Location: La Jolla, CA, USA Conference Sponsor: ACM ISSN: 0362-1340 ISSN Type: print SICI: 0362-1340(199506)30:6L.93:SSOO;1-W

CODEN: SINODQ

Language: English **Document Type:** Conference Paper in Journal (PA) **Treatment:** Theoretical or Mathematical (T) **Abstract:** Dynamic dispatching is a major source of run-time overhead in objectoriented languages, due both to the direct cost of method lookup and to the indirect effect of preventing other optimizations. To reduce this overhead, optimizing compilers for object-oriented languages analyze the classes of objects stored in program variables, with the goal of bounding the possible classes of **message** receivers enough so that the compiler can uniquely determine the target of a **message** send at compile time and replace the **message** send with a direct procedure call. Specialization is one important technique for improving the precision of this static class information: by compiling multiple versions of a method, each applicable to a subset of the possible argument classes of the method, more precise static information about the classes of the method's arguments is obtained. Previous specialization strategies have not been selective about where this technique is applied, and therefore tended to significantly **increase** compile **time** and **code** space usage, particularly for large applications. We present a more general framework for specialization in objectoriented languages and describe a goal-directed specialization algorithm that makes selective decisions to apply specialization to those cases where it provides the highest benefit. Our results show that our algorithm improves the performance of a group of sizeable programs by 65% to 275% while increasing compiled code space requirements by only 4% to 10%. Moreover, when compared to the previous state-of-the-art specialization scheme, our algorithm improves performance by 11% to 67% while simultaneously reducing code space requirements by 65% to 73%. (26 refs.) **Subfile(s):** C (Computing & Control Engineering)

Descriptors: abstract data types; **message** passing; object-oriented languages ; object-oriented programming; optimising compilers; system monitoring **Identifiers:** object-oriented languages; selective specialization; goal-directed specialization algorithm; selective decisions; program performance; compiled code space requirements; dynamic dispatching; run-time overhead; method lookup;

optimizations; optimizing compilers; object classes; program

variables; **message** receivers; **message** send; direct procedure call; static class information; multiple versions; static information

Classification Codes: C6110J (Object-oriented programming); C6140D (High level languages); C6150C (Compilers, interpreters and other processors); C6120 (File organisation); C6150G (Diagnostic, testing, debugging and evaluating systems) **International Patent Classification:**

G06F-0009/44 (Arrangements for executing specific programmes) G06F-0009/45 (Compilation or interpretation of high level programme languages) G06F-0011/36 (Preventing errors by testing or debugging of software) G06F-0012/00 (Accessing, addressing or allocating within memory systems or architectures)

INSPEC Update Issue: 1995-031

Copyright: 1995, IEE

11/5/4 (Item 1 from file: 95) DIALOG(R)File 95: TEMA-TECHNOLOGY & MANAGEMENT . All rights reserved.

01933748 20050202262

Model based development environment at Siemens VDO Automotive AG division powertrain

(Modellbasierte Entwicklungsumgebung in der Powertrain-Division der Siemens VDO Automotive AG)

Kunze, Marco; Reuther, Achim

IAC 2004, 4. Internat. Automotive Conf., Users of the MATLAB product family present: Pioneering Design Methods in the Automotive Industry, Stuttgart, DE, Jun 15-16, 2004, 2004

Document type: Conference paper **Language:** English **Record type:** Abstract **ISBN:** 3-8322-2872-1

Abstract:

With this paper the model based development environment based on Matlab / Simulink / Stateflow as used at Siemens VDO Automotive AG, Division Powertrain has been presented. The introduction of the model based development environment at SV P has been motivated by 3 topics: Reduction of development cycles and time to market; Possibility of enhanced documentation; Usage of modelling techniques in general. Using an executable specification with PC based simulation an early testing of the controller strategies without the necessity of manual coding is possible. This decreases the number of development loops between function **specification** and software coding. Additionally the executable specification in form of a Simulink model can be used as basis for real time simulation on the Rapid Prototyping Unit or for early validation directly in the car. Finally the model can also be used as basis for Automatic Coding and by this reduces the coding effort. Based on the interfaces given by the software development in the Automotive Industry the basic concepts have been discussed. SV P uses a generic and XML-based interface to the Configuration Management that is independent of the proprietary CM system. Together with the introduction of a defined architecture of the executable Simulink model, and the system scheduler, a kind of simulated operating system, a generic solution for a multi-user & multi-project development environment for Matlab/Simulink/Stateflow is available. The development environment allows to easily integrating the working results of different developers with clearly defined and documented execution order. The used concept for model based documentation was presented, including the separation between functional content and textual description. Finally, the identified requirements for the next releases of Simulink have been addressed.

Descriptors: CASE ENVIRONMENT; ELECTRIC CONTROLLERS; ELECTRONIC CONTROL; VEHICLE DRIVES; AUTOMOBILE ELECTRONICS; MODEL SIMULATION; PROGRAM DEVELOPMENT; COMPUTER AIDED SOFTWARE ENGINEERING; COMPUTER MODELLING; SIMULATION MODELLING; SOFTWARE TECHNIQUE; SUPPLIER

Identifiers: Antriebselektronik; modellbasierte Entwicklungsumgebung; Autocode

11/5/5 (Item 1 from file: 60) DIALOG(R)File 60: ANTE: Abstracts in New Tech & Engineer (c) 2013 CSA. All rights reserved.

0004363979 IP Accession No: 201115107777 Coding over space and time for wireless systems

Brink, S.T.

IEEE Wireless Communications Magazine , v 13 , n 4 , p [np] , 2006 **Publisher:** Institute of Electrical and Electronics Engineers, Inc. , 3 Park Avenue, 17th FI New York NY 10016-5997 USA , New York , NY , 10016-5997 **Country Of Publication:** USA

Document Type: Journal Article Record Type: Abstract Language: English ISSN: 1536-1284 DOI: <u>10.1109/MWC.2006.1678162</u> File Segment: ANTE: Abstracts in New Technologies and Engineering

Abstract:

In wireless communications, channel coding is used to combat impairments such as noise or fading. Redundant **information** is**added** at the transmitter, to enable reliable detection and decoding of the **message** at the receiver. With the advent of multipleantenna techniques, coding for the wireless channel has become an attractive topic of research. Several original schemes have been devised over the past decade that benefit particularly well from the added spatial dimension: clever space-time diversity mappings, coined "space-time coding," increase the reliability of the wireless link, while "spatial multiplexing" and its corresponding demultiplexing and detection algorithms achieve **high data** rates at unprecedented spectral efficiencies. The combination of channel coding with numerous variations and mixtures of the above poses interesting design challenges. In this article we, admittedly, take a more channel-coding-centric view of a wireless communication link, and outline the current state of the art as well as future trends in coding over space and time

Descriptors: Algorithms; Channels; Coding; Demultiplexing; Fading; Impairment; Links; Wireless communication

11/5/6 (Item 2 from file: 60) DIALOG(R)File 60: ANTE: Abstracts in New Tech & Engineer (c) 2013 CSA. All rights reserved.

0001943543 IP Accession No: 20081897044 Method and system for prevention of network denial-of-service attacks

Grimm, Martin; Barfield, Brad; Fritzges, Eric; Prasad, Hema; Branum Jr, Robert R , USA **Publisher Url:** http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u =/netaht ml/PTO/searchadv.htm&r=1&p=1&f=G&I=50&d=PTXT&S1=74 24741.PN.&OS=pn/7424741& RS=PN/7424741

Document Type: Patent **Record Type:** Abstract **Language:** English **File Segment:** ANTE: Abstracts in New Technologies and Engineering

Abstract:

An approach for preventing denial-of-service attacks on Secure Sockets Layer ('SSL') protocol is described. Queues are generated for handshake state connections and data transmission connections. A connection object representing a new SSL connection is time-stamped as it enters the handshake portion of the SSL protocol. A connection pointer to the connection object is placed at the head of the handshake queue. As new SSL **messages** are transferred between client and SSL server, the **time**-**stamp** is **updated** when the entire **message** is received, the connection pointer is repositioned to the head of the queue. A timer event periodically surveys the queues. If connection packet transmission gaps remain below a specified maximum handshake gap **time**, a connection is allowed to **progress** to the **data** transmission state. If any connection **exceeds**the **specified** gap **time**, the SSL connection is dropped.

Descriptors: Joints; Queues; **Messages**; Data transmission; Timing devices; Sockets ; Packet transmission; United States; Servers; Gaps; Networks; Surveys

Inventors: Grimm; Martin (Suwanee, GA), Barfield; Brad (Gainesville, GA), Fritzges; Eric (Austell, GA), Prasad; Hema (Alpharetta, GA), Branum, Jr.; Robert R. (Roswell, GA)

Assignee: Cisco Technology, Inc. (San Jose, CA)

Appl. No.: 10/152,541

Filed: May 20, 2002

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|-------|---------------------|---|---------------------|---------|---------------------|
| S1 | 1 | WO 01/30091 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/20 11:53 |
| S2 | 3 | WO "0130091" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/20 12:18 |
| S3 | 5 | "6603389" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/20 12:22 |
| S4 | 1 | GB "0228076" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/20 12:44 |
| S5 | 5 | GB "2384150" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/20 12:45 |
| S6 | 1 | EP "0743762" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/20 13:05 |
| S7 | 2 | "20030104841" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/20 13:16 |
| S8 | 3 | "20030060240" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/20 13:24 |
| S9 | 35 | "6727930" "6721651" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/07/20 13:29 |
| S10 | 12571 | 709/206,207.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/29 10:50 |

 $file: ///Cl/Users/mlai/Documents/e-Red\% 20 Folder/13615419/EASTS earch History. 13615419_Accessible Version.htm [2/25/2013\ 2:36:05\ PM]$

Page 266 of 394

| S11 | 11361 | 709/206.ccls. | US-PGPUB; USPAT; EPO; | AND | OFF | 2011/07/29 10:50 |
|-----|--------|---|---|-----|-----|---------------------|
| | | | JPO; DERWENT; IBM_TDB | | | |
| S12 | 2238 | 709/207.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/29 10:50 |
| S13 | 1028 | S11 S12 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/29 10:50 |
| S14 | 5822 | time\$1stamp\$4 with (expir\$5 or duration or period) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/29 11:19 |
| S15 | 478751 | (without or no or interrupt\$4 or discontinu\$4 or disconnnect\$4) with (communication or conversation or chat\$4 or messag\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/29 11:21 |
| S16 | 162 | S14 same S15 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/29 11:22 |
| S17 | 95 | S14 with S15 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/29 11:22 |
| S18 | 3 | S10 S17 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/29 11:22 |
| S19 | 11 | S10 S16 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB | AND | OFF | 2011/07/29 11:31 |
| S20 | 8 | S19 not S18 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/29 11:31 |
| S21 | 1 | S20 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/29 11:32 |
| S22 | 718 | (interrupt\$4 or discontinu\$4) with (IM or instant adj1 messag\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/29 11:50 |

| S23 | 0 | S14 same S22 | US-PGPUB; USPAT; EPO; JPO; DERWENT; | AND | OFF | 2011/07/29 11:50 |
|-----|-------|--|--|-----|-----|---------------------|
| S24 | 1 | S14 S22 | IBM_TDB US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2011/07/29 11:50 |
| S25 | 15 | "7181497" "6889063" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/07/29 13:04 |
| S26 | 41 | "7111044" "7099700" "7305441" | US-PGPUB; USPAT | OR | OFF | 2011/07/29 |
| S27 | 12343 | (time or time\$1stamp\$4) with (display\$4 or output\$4) with (expir\$5 or duration or period) with timer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 10:18 |
| S28 | 1528 | (time or time\$1stamp\$4) with (display\$4 or output\$4) with (expir\$5) with timer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 10:19 |
| S29 | 3 | (time\$1stamp\$4) with (display\$4 or output\$4) with (expir\$5) with timer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 10:20 |
| S30 | 2 | (time\$1stamp\$4) near3 (display\$4 or output\$4) with timer near2(expir\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 10:40 |
| S31 | 205 | (time or time\$1stamp\$4) near3 (display\$4 or output\$4) with timer near2 (expir\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 10:41 |
| S32 | 2 | (time\$1stamp\$4) near3 (display\$4 or output\$4) with timer near2 (expir\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 10:41 |
| S33 | 77 | S31 messag\$4 (mobile or pda or cellular or phone) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 10:43 |
| S34 | 46 | S31 messag\$4 same (mobile or pda or cellular or phone) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 10:43 |
| S35 | 5 | S34 @ad < "20030919" | US-PGPUB; USPAT; EPO; | AND | OFF | 2012/01/23 10:44 |

| | | | JPO; DERWENT; IBM_TDB | | | |
|-----|-----|---|---|-----|-----|---------------------|
| S36 | 205 | (time or time\$1stamp\$4) near3 (display\$4 or output\$4) with timer near2 (expir\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:15 |
| S37 | 77 | S36 messag\$4 (mobile or pda or cellular or phone) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:15 |
| S38 | 11 | S37 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:15 |
| S39 | 11 | S38 not "s36" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:15 |
| S40 | 116 | (time or time\$1stamp\$4) near3 (display\$4 or output\$4) with timer adj2 (expir\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:21 |
| S41 | 33 | S37 S40 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:22 |
| S42 | 7 | S41 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:22 |
| S43 | 0 | S42 not S39 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:22 |
| S44 | 59 | S40 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:23 |
| S45 | 52 | S44 not S39 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:24 |
| S46 | 22 | S40 same messag\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:30 |
| S47 | 7 | S46 @ad < "20030919" | US-PGPUB; USPAT; EPO; | AND | OFF | 2012/01/23 12:31 |

| | | | JPO; DERWENT; IBM_TDB | | | |
|-----|----|---|---|-----|-----|---------------------|
| S48 | 5 | S47 not S39 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:31 |
| S49 | 67 | (time or time\$1stamp\$4) adj3 (display\$4 or output\$4) with timer adj2 (expir\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:33 |
| S50 | 16 | S49 same messag\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:34 |
| S51 | 5 | S50 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:34 |
| S52 | 6 | (time or time\$1stamp\$4) adj3 (display\$4 or output\$4) adj3 timer adj2 (expir\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:35 |
| S53 | 2 | S52 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:36 |
| S54 | 14 | timer adj2 (expir\$5) adj4 (time or time\$1stamp\$4) adj3 (display\$4 or output\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:37 |
| S55 | 10 | S54 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:37 |
| S56 | 21 | timer adj4 (expir\$5) adj6 (time or time\$1stamp\$4) adj3 (display\$4 or output\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:42 |
| S57 | 15 | S56 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:42 |
| S58 | 5 | S57 not S55 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 12:43 |
| S59 | 1 | 10/685626.app. | US-PGPUB; USPAT; EPO; | AND | OFF | 2012/01/23 18:14 |

| | | | JPO; DERWENT; IBM_TDB | | | |
|-----|-------|---|---|-----|-----|---------------------|
| S60 | 5 | "6021313" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 18:28 |
| S61 | 28 | "5786805" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 18:47 |
| S62 | 721 | time\$4 adj1 out adj6 (time or time\$1stamp\$4) near3 (display\$4 or output\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 18:51 |
| S63 | 432 | S62 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 18:51 |
| S64 | 18 | S63 (messag\$4 same (mobile or pda or cellular or phone)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 18:53 |
| S65 | 0 | time\$4 adj1 out adj6 (time\$1stamp\$4) near3 (display\$4 or output\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:00 |
| S66 | 1987 | (time\$1stamp\$4) near3 (display\$4 or output\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:01 |
| S67 | 94840 | (timer adj2 expir\$5) or time\$1out | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:03 |
| S68 | 15 | S66 same S67 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:03 |
| S69 | 2 | S66 with S67 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:03 |
| S70 | 1 | S68 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:04 |
| S71 | 12537 | (after or when) adj4 ((timer adj2 expir\$5) or time\$1out) | US-PGPUB; USPAT; EPO; | AND | OFF | 2012/01/23 20:14 |

EAST Search History

| | | | JPO; DERWENT; I BM_TDB | | | |
|-----|--------|--|---|-----|-----|---------------------|
| S72 | 31 | S66 S71 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:14 |
| S73 | 0 | S66 with S71 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:14 |
| S74 | 0 | S66 same S71 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:14 |
| S75 | 653211 | (time or time\$1stamp\$4) near3 (display\$4 or output\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:15 |
| S76 | 2351 | S71 S75 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:15 |
| S77 | 208 | S71 same S75 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:15 |
| S78 | 98 | S71 with S75 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:15 |
| S79 | 44 | S78 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/01/23 20:16 |
| S80 | 3 | "20030001890" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/06/04 17:17 |
| S81 | 1 | "7970849" | USPAT | OR | OFF | 2012/06/20 19:34 |
| S82 | 5911 | 709/204.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/06/20 19:46 |
| S83 | 872 | 715/772.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/06/20 19:47 |

| | 0100 | | | | | |
|------|-------|---|---|-----|-----|---------------------|
| S84 | 6196 | 455/566,567.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/06/20 19:48 |
| S85 | 57912 | (time time\$1stamp\$4) with (stylus cursor (pointing adj1 device\$1) (user adj1 input)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/06/20 20:03 |
| S86 | 777 | (interrupt\$4 or discontinu\$4) with (IM or instant adj1 messag\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/06/20 20:04 |
| S87 | 58 | S85 and S86 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/06/20 20:04 |
| S88 | 14475 | 709/206,207.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/06/20 20:05 |
| S89 | 26302 | S82 S83 S84 S88 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2012/06/20 20:05 |
| S90 | 10 | S87 and S89 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB | OR | ON | 2012/06/20 20:05 |
| S91 | 2 | S90 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/06/20 20:05 |
| S98 | 15313 | 709/206,207.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/10/31 12:15 |
| S99 | 9 | "8301713" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/10/31 12:15 |
| S100 | 3 | "20040205775" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/10/31 14:36 |
| S101 | 15313 | 709/206,207.ccls. | US-PGPUB; | AND | OFF | 2012/10/31 |

| | | | USPAT; EPO; JPO; DERWENT; IBM_TDB | | | 16:24 |
|------|--------|---|---|-----|-----|---------------------|
| S102 | 7187 | time\$1stamp\$4 with (expir\$5 or duration or period) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/10/31 16:24 |
| S103 | 548873 | (without or no or interrupt\$4 or discontinu\$4 or disconnnect\$4) with (communication or conversation or chat\$4 or messag\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/10/31 16:24 |
| S104 | 107 | S102 with S103 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/10/31 16:24 |
| S105 | 6 | S101 S104 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2012/10/31 16:24 |
| S106 | 66 | S104 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/10/31 16:31 |
| S107 | 65 | S106 not S105 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/10/31 16:32 |
| S108 | 206 | (varied depend\$4) with (frequency (how adj often)) with (duration period) with (conversation communication) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/10/31 16:49 |
| S109 | 23 | (varied depend\$4) with (frequency (how adj often)) with (duration period) with (conversation communication) with message\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2012/10/31 16:49 |
| S110 | 5 | S109 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/10/31 16:50 |
| S111 | 8 | GB "2350746" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2012/10/31 17:27 |
| S112 | 11 | "7236472" | USPAT | OR | OFF | 2013/01/10 11:17 |
| S113 | 42 | EP "1176840" | US-PGPUB; USPAT; EPO; JPO; DERWENT; | AND | OFF | 2013/01/10 11:23 |

| | | | IBM_TDB | | | |
|------|----|---|---|-----|-----|---------------------|
| S114 | 2 | JP "200311145" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 11:45 |
| S115 | 17 | time\$1stamp with ((infrequent or frequency) near3 (message or conversation or chat)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 12:58 |
| S116 | 11 | time\$1stamp with ((infrequent or frequency) near3 (message or conversation or chat)) with (duration or time) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 12:59 |
| S117 | 0 | S116 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 12:59 |
| S118 | 0 | S115 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 13:00 |
| S119 | 0 | time\$1stamp\$1 same ((infrequent or frequency) adj3 ((instant adj messag\$4) or conversation or chat)) with (duration or time) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 13:09 |
| S120 | 58 | ((infrequent or frequency) adj3 ((instant adj messag\$4) or conversation or chat)) with (duration or time) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 13:09 |
| S121 | 27 | S120 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 13:10 |
| S122 | 4 | time\$1stamp\$1 S121 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 13:10 |
| S123 | 24 | (varied depend\$4) with (frequency (how adj often)) with (duration period) with (conversation communication) with message\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2013/01/10 13:17 |
| S124 | 0 | (varied or depend\$4) adj3 ((frequency) adj3 ((instant adj messag\$4) or conversation or chat)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 13:34 |
| S125 | 15 | (varied or depend\$4) same ((frequency) adj3 ((instant adj messag\$4) or conversation or chat)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; | AND | OFF | 2013/01/10 13:34 |

| | | | IBM_TDB | | | |
|------|--------|---|---|-----|-----|---------------------|
| S126 | 7 | S125 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 13:35 |
| S127 | 0 | time\$1stamp\$1 with ((infrequent or frequency) near3 ((instant adj messag\$4) or conversation or chat)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 14:40 |
| S128 | 0 | time\$1stamp\$1 with ((infrequent or frequency) near6 ((instant adj messag\$4) or conversation or chat)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 14:41 |
| S129 | 0 | time\$1stamp near6 (characteristic adj3 conversation) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2013/01/10 19:47 |
| S130 | 0 | time\$1stamp with (characteristic adj3 conversation) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2013/01/10 19:48 |
| S131 | 349136 | time near2 (stamp indicat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2013/01/10 19:49 |
| S132 | 57722 | characteristic near3 (conversation connection message chat) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2013/01/10 19:51 |
| S133 | 25 | S131 with S132 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2013/01/10 19:51 |
| S134 | 21 | S133 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 19:52 |
| S135 | 31623 | frequency near3 (conversation connection message chat) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2013/01/10 20:08 |
| S136 | 125 | S131 same S135 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2013/01/10 20:08 |
| S137 | 64 | S136 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; | AND | OFF | 2013/01/10 20:09 |

| | | | IBM_TDB | | | |
|------|----|---|---|-----|-----|---------------------|
| S138 | 74 | S136 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 20:38 |
| S139 | 10 | S138 not S137 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/10 20:38 |
| S140 | 2 | "20050080866" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/01/11 11:07 |
| S141 | 0 | (active dynamic\$4) adj ((time adj information) time\$1stamp\$4) with (stylus cursor (pointing adj1 device\$1) (user adj1 input)) | USPAT; | OR | ON | 2013/02/15 16:24 |
| S142 | 0 | (active dynamic\$4) adj ((time adj information) time\$1stamp\$4) same (stylus cursor (pointing adj1 device\$1) (user adj1 input)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/15 16:25 |
| S143 | 81 | (active dynamic\$4) adj ((time adj information) time\$1stamp\$4) and (stylus cursor (pointing adj1 device\$1) (user adj1 input)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/15 16:25 |
| S144 | 1 | (active dynamic\$4) adj ((time adj information) time\$1stamp\$4) and ((stylus cursor (pointing adj1 device\$1) (user adj1 input)) with ((time adj information) time\$1stamp\$4)) | USPAT; USOCR; FPRS; | OR | ON | 2013/02/15 16:27 |
| S145 | 81 | (active dynamic\$4) adj1 ((time adj information) time\$1stamp\$4) and (stylus cursor (pointing adj1 device\$1) (user adj1 input)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/15 16:29 |
| S146 | 12 | S145 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/15 16:29 |
| S147 | 42 | (active dynamic\$4) adj1 (time\$1stamp\$4) and (stylus cursor (pointing adj1 device\$1) (user adj1 input)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/15 16:36 |
| S148 | 9 | S147 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; | AND | OFF | 2013/02/15 16:37 |

| | | | DERWENT; IBM_TDB | | | |
|------|-------|---|---|-----|-----|---------------------|
| S149 | 0 | S148 not S146 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/15 16:37 |
| S150 | 19299 | ((time adj information) time\$1stamp\$4) near4 (date day) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/15 16:48 |
| S151 | 5516 | (time\$1stamp\$4) near4 (date day) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/15 16:50 |
| S152 | 2570 | S151 and (stylus cursor (pointing adj1 device\$1) (user adj1 input)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/15 16:51 |
| S153 | 48 | S151 same (stylus cursor (pointing adj1 device\$1) (user adj1 input)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/15 16:51 |
| S154 | 3 | S153 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/15 16:51 |
| S155 | 2570 | S151 and (stylus cursor (pointing adj1 device\$1) (user adj1 input)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/15 16:54 |
| S156 | 573 | S155 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/15 16:55 |
| S157 | 2 | "20030104841" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/19 16:54 |
| S158 | 3 | "20030060240" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/19 16:58 |
| S159 | 95 | "6590529" | US-PGPUB; USPAT; EPO; JPO; | AND | OFF | 2013/02/19 17:01 |

 $file:///Cl/Users/mlai/Documents/e-Red\%20Folder/13615419/EASTS earchHistory. 13615419_AccessibleVersion.htm [2/25/2013\ 2:36:05\ PM]$

Page 278 of 394

EAST Search History

| | | | DERWENT; IBM_TDB | | | |
|------|-------|--|---|-----|-----|---------------------|
| S160 | 2 | S159 time\$1stamp\$1 message\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/19 17:03 |
| S161 | 2 | EP "0743762" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2013/02/19 17:10 |
| S162 | 43 | EP "1176840" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/19 17:16 |
| S163 | 1 | S162 time\$1stamp\$1 message\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/19 17:17 |
| S164 | 16003 | 709/206,207.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2013/02/19 23:12 |
| S165 | 6676 | 709/206,207.ccls. | USPAT | and | ON | 2013/02/19 23:13 |
| S166 | 1845 | 709/207.ccls. | USPAT | AND | ON | 2013/02/19 23:13 |
| S167 | 6037 | 709/206.ccls. | USPAT | AND | ON | 2013/02/19 23:13 |
| S168 | 1206 | S166 S167 | USPAT | AND | ON | 2013/02/19 23:14 |
| S169 | 11 | time near4 (over\$1night or following adj day) near4 display\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2013/02/19 23:26 |
| S170 | 3 | S169 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/19 23:32 |
| S171 | 5524 | (time\$1stamp\$4) near4 (date day) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/20 09:40 |
| S172 | 2975 | (time adj2 (chang\$4 progress\$4)) near9 ((display\$4) near2 time) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/20 09:43 |

| S173 | 16 | S171 and S172 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/20 09:43 |
|------|----|--|---|-----|-----|---------------------|
| S174 | 0 | S171 same S172 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/20 09:43 |
| S175 | 6 | S173 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 09:44 |
| S176 | 10 | S173 not S175 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 09:47 |
| S177 | 2 | "20070142822" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 09:51 |
| S178 | 2 | "20020147135" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 10:05 |
| S179 | 39 | (time adj1 zone adj2 (chang\$4 progress\$4)) near9 ((display\$4) near2 time) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/20 10:54 |
| S180 | 15 | S179 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 10:55 |
| S181 | 0 | (time\$1stamp\$4) near4 moving near4 (cursor stylus pointing) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/20 12:38 |
| S182 | 1 | (time\$1stamp\$4) with (moving near4 (cursor stylus pointing)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/20 12:38 |
| S183 | 76 | (time\$1stamp\$4) near4 (cursor stylus pointing) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; | OR | ON | 2013/02/20 12:42 |

file:///Cl/Users/mlai/Documents/e-Red%20Folder/13615419/EASTSearchHistory.13615419_AccessibleVersion.htm[2/25/2013 2:36:05 PM]

Page 280 of 394

| | | | IBM_TDB | | | |
|------|------|--|---|-----|-----|---------------------|
| S184 | 16 | S183 @ad < "20030919" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 12:42 |
| S185 | 25 | "6160497" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 15:40 |
| S186 | 2975 | (time adj2 (chang\$4 progress\$4)) near9 ((display\$4) near2 time) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/20 15:41 |
| S187 | 0 | S185 S186 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 15:41 |
| S188 | 6 | "6069568" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 15:47 |
| S189 | 1 | S188 (cursor with time adj stamp\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 16:01 |
| S190 | 0 | S185 (cursor with time adj stamp\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 17:22 |
| S191 | 39 | (time adj1 zone adj2 (chang\$4 progress\$4)) near9 ((display\$4) near2 time) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/20 17:34 |
| S192 | 15 | S191 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 17:34 |
| S193 | 0 | S192 (dispay\$4 with time with (select\$4 or input\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 17:34 |
| S194 | 11 | S192 (display\$4 with time with (select\$4 or input\$4 or cursor or stylus)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 17:36 |
| S195 | 8 | (gmail or google) with (display\$4 with time with (select\$4 or | US-PGPUB; USPAT; EPO; | AND | OFF | 2013/02/20 17:52 |

| | | input\$4 or cursor or stylus)) | JPO; DERWENT; IBM_TDB | | | |
|------|----------|--|---|-----|-----|---------------------|
| S196 | 0 | S195 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 17:53 |
| S197 | 20322 | (display\$4 near3 (time time\$1stamp\$1)) adj6 (select\$4 or input\$4 or cursor or stylus) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2013/02/20 18:02 |
| S198 | 7381 | S197 and ((instant adj messag\$4) message\$1 email\$1 e-mail\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2013/02/20 18:04 |
| S199 | 1061 | S197 same ((instant adj messag\$4) message\$1 email\$1 e-mail\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2013/02/20 18:04 |
| S200 | 604 | S197 with ((instant adj messag\$4) message\$1 email\$1 e-mail\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2013/02/20 18:04 |
| S201 | 333 | S200 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 18:05 |
| S202 | 16002 | 709/206,207.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 18:05 |
| S203 | 6 | S201 and S202 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/20 18:05 |
| S204 | 12720926 | (stylus cursor (pointing adj1 device\$1)) adj2 over (time time\$1stamp\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/23 22:25 |
| S205 | 218 | (stylus cursor (pointing adj1 device\$1)) adj2 over adj2 (time time\$1stamp\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/23 22:26 |
| S206 | 169277 | (time\$1stamp\$1 or time) near6 message\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/23 22:29 |

| S207 | 29 | S205 S206 | US-PGPUB; | AND | OFF | 2013/02/23 |
|------|------|---|---|-----|-----|---------------------|
| | | | USPAT; EPO; JPO; DERWENT; IBM_TDB | | | 22:29 |
| S208 | 13 | S207 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/23 22:30 |
| S209 | 0 | (stylus cursor (pointing adj1 device\$1)) adj2 over adj2 (time\$1stamp\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/23 22:46 |
| S210 | 25 | (stylus cursor (pointing adj1 device\$1)) adj6 (time\$1stamp\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/23 22:47 |
| S211 | 5 | S210 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/23 22:47 |
| S212 | 6992 | (time\$1stamp\$4) near6 (date day (absolute adj time) (relative adj time)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/24 08:56 |
| S213 | 8002 | (time\$1stamp\$4) near6 (date day (absolute adj time) (relative adj time) duration) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/24 08:57 |
| S214 | 4204 | (time\$1stamp\$1) near6 (select\$4 or input\$4 or cursor or stylus) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/24 08:58 |
| S215 | 876 | S213 S214 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/24 08:59 |
| S216 | 5229 | (time\$1stamp\$1) near3 (first or second) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/24 09:01 |
| S217 | 262 | S215 S216 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/24 09:01 |
| S218 | 29 | S217 (IM or instant adj | US-PGPUB; | AND | OFF | 2013/02/24 |

| | | messag\$4 or chat\$4) | USPAT; EPO; JPO; DERWENT; IBM_TDB | | | 09:02 |
|------|-----|---|---|-----|-----|---------------------|
| S219 | 11 | S218 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/24 09:03 |
| S220 | 261 | S213 same S214 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/24 09:22 |
| S221 | 9 | S220 first adj (time\$1stamp\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/24 09:23 |
| S222 | 4 | S221 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/24 09:23 |
| S223 | 21 | (time\$1stamp\$4) near6 (date day) and (absolute adj time) and (relative adj time) and duration | US-PGPUB; USPAT; USCCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/24 09:29 |
| S224 | 1 | S223 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/24 09:29 |
| S225 | 39 | (time adj1 zone adj2 (chang\$4 progress\$4)) near9 ((display\$4) near2 time) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/25 09:37 |
| S226 | 15 | S225 @ad < "20040920" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2013/02/25 09:37 |

EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|------|-----------------------|--------------------------|---------------------|---------|---------------------|
| S92 | 1637 | 709/207.ccls. | USPAT | AND | OFF | 2012/06/20 19:49 |
| S93 | 2533 | 709/207.ccls. | US-PGPUB; USPAT; UPAD | AND | OFF | 2012/06/20 19:49 |
| S94 | 235 | klassen-gerhard\$.in. | US-PGPUB; USPAT; UPAD | AND | ON | 2012/06/20 19:51 |
| S95 | 62 | klassen-gerhard\$.in. | USPAT | AND | ON | 2012/06/20 19:51 |

| S96 | 18 | wormald- | USPAT | AND | ON | 2012/06/20 |
|-----|----|---------------------|-------|-----|----|------------|
| | | christopher\$.in. | | | | 19:55 |
| S97 | | kuhl-lawrence\$.in. | USPAT | AND | ON | 2012/06/20 |
| | | | | | | 19:56 |

2/25/2013 2:36:03 PM

Patents 13615419

8/3,K/1 (Item 1 from file: 347) DIALOG(R)File 347: JAPIO (c) 2013 JPO & JAPIO. All rights reserved.

04948186 **Image available** VOICE RECORDING AND REPRODUCING DEVICE

Pub. No.: 07-240786 [JP 7240786 A]
Published: September 12, 1995 (19950912)
Inventor: MATSUZAKI NOBUO TAKENAKA AKIHIRO
Applicant: TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)
TOSHIBA COMMUN TECHNOL KK [000000] (A Japanese Company or Corporation), JP (Japan)
Application No.: 06-029198 [JP 9429198]
Filed: February 28, 1994 (19940228) ...
Published: 19950912)

ABSTRACT

PURPOSE: To **reduce** the recording information quantity of **time stamp information** and to **increase** the number of**messages** per unit recording capacity as a result... ...the constituent of the time stamp information is stored in the code storage area 12a of an ICM circuit 12 at every reception of the **message** corresponding to the **message**. Also, in a **message** reproduction mode, the code data of the time stamp information is read out from the code storage area 12a of the ICM circuit 12, and... ...to an OGM circuit 11, thereby, synthesized speech data in accordance with the code data is generated from the OGM circuit 11, and the voice **message** of the time stamp information can be reproduced and outputted. Di01

8/3,K/2 (Item 1 from file: 350) DIALOG(R)File 350: Derwent WPIX (c) 2013 Thomson Reuters. All rights reserved.

0015589284 *Drawing available* WPI Acc no: 2006-153449/200616 XRPX Acc No: N2006-132573

Communication device for distributed control system, has communication controller automatically storing time stamp values in response to event pulses corresponding to events associated with received and transmittedmessages Patent Assignee: BENSON R R (BENS-I); FISHER-ROSEMOUNT SYSTEMS INC (ROEC); FRANCHUK B A (FRAN-I) Inventor: BENSON R R; FRANCHUK B A; BENSON R; FRANCHUK B

| | l | Patent Fam | ily (9 patents, 110 cc | ountries | S) | | |
|----------------|------|------------|-------------------------|----------|----------|--------|------|
| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Туре |
| US 20060026314 | A1 | 20060202 | US 2004903317 | Α | 20040730 | 200616 | В |
| WO 2006020278 | A2 | 20060223 | WO 2005US25506 | Α | 20050715 | 200616 | E |
| EP 1784739 | A2 | 20070516 | EP 2005773007 | Α | 20050715 | 200734 | E |
| | | | WO 2005US25506 | Α | 20050715 | | |
| JP 2008508796 | W | 20080321 | WO 2005US25506 | Α | 20050715 | 200823 | E |
| | | | JP 2007523634 | Α | 20050715 | | |
| CN 101390072 | Α | 20090318 | CN 200580032849 | Α | 20050715 | 200925 | E |
| | | | WO 2005US25506 | Α | 20050715 | | |
| US 7689687 | B2 | 20100330 | US 2004903317 | Α | 20040730 | 201023 | E |
| JP 4847955 | B2 | 20111228 | WO 2005US25506 | Α | 20050715 | 201203 | E |
| | | | JP 2007523634 | Α | 20050715 | | |
| WO 2006020278 | A3 | 20070301 | WO 2005US25506 | Α | 20050715 | 201224 | E |
| CN 101390072 | В | 20120530 | CN 200580032849 | Α | 20050715 | 201257 | E |
| | | | WO 2005US25506 | Α | 20050715 | | |

...for distributed control system, has communication controller automatically storing time stamp values in response to event pulses corresponding to events associated with received and transmitted messages Alerting Abstract...NOVELTY

- A medium attachment unit (MAU) receives and transmits **messages** on communication medium. A CPU processes data in received **messages** and creates data to be contained in **messages** to be transmitted. A communication controller interfacing between MAU and CPU, produces event pulses corresponding to events associated with received and transmitted **messages** and automatically stores time stamp values in response to event pulses. ... method of time stamping**messages**; and device for time stamping **messages**. scale, transducer, valve positioner, valve controller, actuator, solenoid and indicator light of process control systems and distributed control system (DCS) in industrial plant, for

communicating **messages** comprising secondary process variables, diagnostic information e.g. sensor, device, wiring and process diagnostics, operating temperature, sensor temperature, calibration information, device identification (ID) number, materials... ... ADVANTAGE - Automatic time stamping in communication controller, eliminates the software overhead required to do all the calculations and encoding of **time stamp data** and greatly **increases** accuracy of **time stamp** values. Frees the application processor or CPU to perform other functions, since communication controller performs processing of**messages** and timer management**Title Terms** .../Index Terms/Additional Words: **MESSAGE Class Codes** Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:** Devices in a process control system communicate by data **messages** over a communication medium segment. Each device includes a communication controller that automatically time stamps events associated with received and transmitted **messages**. Devices in a process control system communicate by data **messages** over a communication medium segment. Each device includes a communication controller that automatically time stamps events associated with received and transmitted **messages**. Devices in a process control system communicate by data messages over a communication medium segment. Each device includes a communication controller that automatically time stamps events associated with received and transmitted **messages**. Devices in a process control system communicate by data messages over a communication medium segment. Each device includes a communication controller that automatically time stamps events associated with received and transmitted **messages**. Devices in a process control system communicate by data **messages** over a communication medium segment. Each device includes a communication controller that automatically time stamps events associated with received and transmitted messages. L'invention concerne des dispositifs dans un systeme de commande de processus qui communiquent par **messages** de donnees sur un segment de support de communication. Chaque dispositif comprend un controleur qui assure automatiquement l'horodatage d'evenements associes a des **messages** recus et envoyes..... Devices in a process control system communicate by data messages over a communicationmedium segment. Each device includes a communication controller that automaticallytime stamps events associated with received and transmitted messages. Claims:[CLAIM 1] A device for communicating over a communication medium, the device comprising: a medium attachment unit (MAU) for receiving and transmitting messages on the communication medium; a central processing unit (CPU) for processing data contained in messages received and creating data to be contained in messages to be transmitted; and a communication controller for interfacing between the MAU and the CPU, the communication controller producing event pulses corresponding to events associated with received and transmittedmessages and automatically storing time stamp values in response to the event pulses.....CLAIM 2] The device according to claim 1, wherein the communication controller inserts a stored time stamp value into a **message** being transmitted... ... CLAIM 3] The device according to claim 2, wherein the event pulses include a start of **message** event pulse and, wherein the stored time stamp value inserted into the **message** represents a local time of the device when the start of **message** event pulse occurred... ...CLAIM 4] The device according to claim 2, wherein the communication controller detects what type of **message** is being transmitted and selects a location within the **message** for insertion of the time stamp value based on the type of message. [... ... CLAIM 5] The device according to claim 1, wherein the event pulses include an end of message event pulse produced by the communication controller when a received **message** ends......The device according to claim 1, wherein the event pulses include an end of transmission event pulse produced by the communication controller when a transmitted messageends......The device according to claim 1, wherein the event pulses include a start of activity event pulse produced by the communication controller when a received **message** starts to be decoded...CLAIM 15] A method of time stamping messages exchanged between devices over a network, the method comprising: transmitting and receiving **messages** over a network; generating a first timer value that changes at a first **clock rate**; producing event pulses

corresponding to selected events associated with transmitted and received **messages**; and storing a first time stamp value representing the first timer value when one of the event pulses is produced... ... CLAIM 16] The method according to claim 15, further comprising: generating a second timer value that changes at a second clock rate that is higher than the first **clock rate**; and storing a second **time** stamp value representing the second timer value when one of the event pulses is produced... ... CLAIM 18] The method according to claim 17, wherein the first and second **clock rates** are variable and synchronized......CLAIM 19] The method according to claim 15, further comprising: inserting the first time stamp value into a **message** being transmitted... ... CLAIM 20] The method according to claim 19, wherein the event pulses include a start of **message** event pulse and, wherein the first time stamp value inserted into the **message** represents a local time of the device when the start of **message** event pulse occurred.....CLAIM 21] The method according to claim 19, further comprising: detecting what type of **message** is being transmitted; and selecting a location within the **message** for insertion of the time stamp value based on the type of **message**. [... ...CLAIM 22] The device according to claim 15, wherein the event pulses include an end of message event pulse produced when a received message ends... ... CLAIM 23] The device according to claim 15, wherein the event pulses include an end of transmission event pulse produced when a transmitted **message** ends include a start of activity event pulse produced when a received message starts to be decoded... ... CLAIM 25] A method of time stamping **messages** transmitted and received by devices over a process control network, the method comprising: synchronizing in each device a local internal sense of time with a node sense of time on a segment of the network; producing event pulses when events associated with the **messages** occur; and transferring time stamp values corresponding to the local and node senses of time to snapshot registers when an event pulse occurs... ... CLAIM 26] The method according to claim 25, wherein the event pulses include an End of Message (EOM) pulse, an End of Transmission (EOT) pulse, a Start of Activity (SOA) pulse, and a Start of Transmission (SOT) pulse... ... CLAIM 1] A device for communicating over a communication medium, wherein the device comprises: a medium attachment unit (MAU) for receiving and transmitting **messages** on the communication medium; a central processing unit (CPU) for processing data contained in **messages** received and creating data to be contained in messages to be transmitted; and a communication controller for interfacing between the MAU and the CPU, the communication controller producing event pulses corresponding to events associated with received and transmitted messages and automatically storing time stamp values in response to the event pulses. a communication controller comprises: The first timer, for providing of the earliest a..... 1. A device for communicating over a communication medium, the device comprising:a medium attachment unit (MAU) for receiving and transmitting messages on the communication medium; a central processing unit (CPU) for processing data contained inmessages received and creating data to be contained in messages to be transmitted; anda communication controller for interfacing between the MAU and the CPU, the communication controller producing event pulses corresponding to events associated with received and transmitted messages and automatically storing time stamp values in response to the event pulses... ... The invention claimed is: 1. A device for communicating over a communication medium, the device comprising: a medium

attachment unit (MAU) for receiving and transmitting **messages** on the communication medium; a central processing unit (CPU) for processing data contained in **messages** received and creating data to be contained in **messages** to be transmitted; and a communication controller for interfacing between the MAU and the CPU, the communication controller producing event pulses corresponding to events associated with received and transmitted **messages** and automatically storing time stamp values in response to the event pulses, wherein the communication controller includes a first timer for providing a first time... Basic Derwent Week: 200616

8/3,K/3 (Item 2 from file: 350)DIALOG(R)File 350: Derwent WPIX(c) 2013 Thomson Reuters. All rights reserved.

0013660944 Drawing available

WPI Acc no: 2003-757198/200371 XRPX Acc No: N2003-606787

Video signal format inversion method, involves attaching information indicating frame position of video signal whose video data varied due to format conversion to time code signal corresponding to video signal

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU); MATSUSHITA ELECTRIC IND CO LTD (MATU)

Inventor: HOSODA T; SHIMAMURA Y; UENO M; UJI K; URO K

| | | Patent Fan | nily (5 patents, 29 c | ountries |) | | |
|----------------|------|------------|------------------------|----------|----------|--------|------|
| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Туре |
| WO 2003079685 | A1 | 20030925 | WO 2003JP2977 | Α | 20030313 | 200371 | В |
| JP 2003274370 | Α | 20030926 | JP 200276104 | Α | 20020319 | 200373 | E |
| EP 1487209 | A1 | 20041215 | EP 2003710333 | Α | 20030313 | 200482 | E |
| | | | WO 2003JP2977 | Α | 20030313 | | |
| US 20050162546 | A1 | 20050728 | WO 2003JP2977 | Α | 20030313 | 200550 | E |
| | | | US 2004508051 | Α | 20040917 | | |
| US 7310117 | B2 | 20071218 | WO 2003JP2977 | Α | 20030313 | 200802 | E |
| | | | US 2004508051 | Α | 20040917 | | |

Alerting Abstract ... DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the time code transmitting apparatus. (Drawing includes non-English language text).Original Publication Data by AuthorityArgentina**Publication No...Original Abstracts:**is attached to the time code signal to be transmitted. Alternatively, information indicating a synchronous state between frame conversion cycles in the format conversion and **time** code **progression** is attached to the **time** code signal. In the foregoingmanner, a relationship between the frame position and the time code can be accurately grasped. Further, a secondary conversion (inverse conversion... ... is attached to the time code signal to be transmitted. Alternatively, information indicating a synchronous state between frame conversion cycles in the format conversion and **time** code **progression** is attached to the **time** code signal. In the fore going manner, a relationship between the frame position and the time code can be accurately grasped. Further, a secondary conversion... ... is attached to the time code signal to be transmitted. Alternatively, information indicating a synchronous state between frame conversion cycles in the format conversion and **time** code **progression** is attached to the **time** code signal. In the foregoing manner, a relationship between the frame position and the time code can be accurately grasped. Further, a secondary conversion and the time code can be accurately grasped. Further, a secondary conversion (inverse... ... in the number of frames per second, information indicative of the frame position of the video signal whose video data varies due to the format **conversion** is attached to the **time code** signal to be transmitted. **Additionally, information** indicative of the state of synchronism between the frame conversion period at the time of the format conversion and the time code process is also... Basic Derwent Week: 200371

8/3,K/4 (Item 3 from file: 350) DIALOG(R)File 350: Derwent WPIX (c) 2013 Thomson Reuters. All rights reserved.

0013650583 Drawing available

WPI Acc no: 2003-746612/200370

XRPX Acc No: N2003-598293

Extended markup language client abstraction layer for web- based application design, has XML parser to provide new features to XML templates

Patent Assignee: DENCKER T (DENC-I); FISCHER C (FISC-I); ROESSLER A (ROES-I); SAP AG (SSAP)

Inventor: DENCKER T; FISCHER C; ROESSLER A; ROEESSLER A

| Patent Family (2 patents, 1 countries) | | | | | | | | | |
|--|------|----------|-----------------------|------|----------|--------|------|--|--|
| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Туре | | |
| US 20030172344 | A1 | 20030911 | US 200295354 | Α | 20020311 | 200370 | В | | |
| US 7131064 | B2 | 20061031 | US 200295354 | Α | 20020311 | 200672 | E | | |

Alerting Abstract USE - For design of web-based applications involving generation of different hyper **text** markup language (HTML) pages... ...error handling, central management of browser dependencies, syntax and plausibility checks, tracing and debugging, lessening of training effort required, easily readable and understandable templates, device **specific** views, better performance and **increased** stability. The XSLT derives run **time code** from the XML pages, hence development is standardized. Hence, programmers need not use own special programming techniques to develop code. Hence maintainability of code is... Basic Derwent Week: 200370

8/3,K/5 (Item 4 from file: 350) DIALOG(R)File 350: Derwent WPIX (c) 2013 Thomson Reuters. All rights reserved.

0012299132 WPI Acc no: 2002-240296/200229 Related WPI Acc No: 2002-321214 XRPX Acc No: N2002-185460

CPI-type image processing apparatus for AV stream data recording in which EPmap type is used if position of I picture can be analyzed else U-map type is used Patent Assignee: SONY CORP (SONY); HAMADA T (HAMA-I); KATO M (KATO-I) Inventor: HAMADA T; KATO M

| | ł | Patent Fam | ily (69 patents, 47 c | ountries | S) | | |
|----------------|------|------------|------------------------|----------|----------|--------|------|
| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Туре |
| WO 2001082606 | A1 | 20011101 | WO 2001JP3415 | Α | 20010420 | 200229 | В |
| AU 200154403 | Α | 20011107 | AU 200154403 | Α | 20010420 | 200229 | E |
| NO 200106292 | Α | 20020220 | WO 2001JP3415 | Α | 20010420 | 200229 | E |
| | | | NO 20016292 | Α | 20011220 | | |
| BR 200106082 | A | 20020521 | BR 20016082 | A | 20010420 | 200238 | E |
| | | | WO 2001JP3415 | A | 20010420 | | |
| JP 2002158972 | Α | 20020531 | JP 200191830 | A | 20010328 | 200239 | E |
| KR 2002020918 | A | 20020316 | KR 2001716422 | Α | 20011221 | 200263 | E |
| US 20020135607 | A1 | 20020926 | WO 2001JP3415 | A | 20010420 | 200265 | E |
| | | [| US 200218846 | A | 20020412 | | |
| HU 200202198 | В | 20021028 | WO 2001JP3415 | A | 20010420 | 200277 | E |
| | [| | HU 20022198 | A | 20010420 | | |
| CZ 200104489 | A3 | 20021016 | CZ 20014489 | A | 20010420 | 200279 | E |
| | | | WO 2001JP3415 | A | 20010420 | | |
| SK 200101898 | A3 | 20030109 | SK 20011898 | A | 20010420 | 200309 | E |
| | | | WO 2001JP3415 | A | 20010420 | | |
| EP 1280347 | A1 | 20030129 | EP 2001921964 | A | 20010420 | 200310 | E |
| | | | WO 2001JP3415 | A | 20010420 | | |
| CN 1381137 | A | 20021120 | CN 2001801571 | A | 20010420 | 200319 | E |
| MX 2001013122 | A1 | 20020601 | WO 2001JP3415 | A | 20010420 | 200365 | E |
| | | | MX 200113122 | A | 20011218 | | |
| ZA 200110323 | Α | 20030923 | ZA 200110323 | Α | 20011214 | 200368 | E |
| NZ 516140 | Α | 20031219 | NZ 516140 | Α | 20010420 | 200404 | E |

| | | | WO 2001JP3415 | Α | 20010420 | | |
|----------------|----|----------|-----------------|---|----------|--------|---|
| US 20050025461 | A1 | 20050203 | WO 2001JP3415 | Α | 20010420 | 200511 | E |
| | | | US 200218846 | Α | 20020412 | | |
| | | | US 2004925658 | Α | 20040823 | | |
| AU 779673 | B2 | 20050203 | AU 200154403 | Α | 20010420 | 200525 | E |
| CN 1607825 | A | 20050420 | CN 2001801571 | Α | 20010420 | 200554 | E |
| | | | CN 200410085788 | A | 20010420 | | • |
| EP 1569449 | A2 | 20050831 | EP 2001921964 | Α | 20010420 | 200561 | E |
| | | | EP 200576079 | Α | 20010420 | | |
| RU 2273109 | C2 | 20060327 | WO 2001JP3415 | Α | 20010420 | 200622 | E |
| | | | RU 2002101128 | A | 20010420 | | |
| MX 235210 | В | 20060327 | WO 2001JP3415 | Α | 20010420 | 200651 | E |
| | | | MX 200113122 | A | 20011218 | | |
| IN 200101585 | P3 | 20070427 | WO 2001JP3415 | Α | 20010420 | 200737 | E |
| | | | IN 2001MN1585 | Α | 20011213 | | |
| RU 2314653 | C2 | 20080110 | RU 2002101128 | Α | 20010420 | 200805 | E |
| | | | RU 2005117968 | Α | 20010420 | | |
| CN 100348033 | С | 20071107 | CN 2001801571 | Α | 20010420 | 200830 | E |
| IL 147155 | А | 20080708 | IL 147155 | Α | 20010420 | 200852 | E |
| CN 100394791 | С | 20080611 | CN 200410085788 | Α | 20010420 | 200865 | E |
| RO 122068 | B1 | 20081128 | RO 20011351 | Α | 20010420 | 200910 | E |
| | | | WO 2001JP3415 | Α | 20010420 | | |
| KR 2008091525 | А | 20081013 | WO 2001JP3415 | Α | 20010420 | 200912 | E |
| | | | KR 2001716422 | Α | 20011221 | | |
| | | | KR 2008723241 | Α | 20080923 | | |
| KR 875782 | B1 | 20081224 | WO 2001JP3415 | Α | 20010420 | 200914 | E |
| | | | KR 2001716422 | Α | 20011221 | | |
| MX 263798 | В | 20090114 | WO 2001JP3415 | Α | 20010420 | 200961 | E |
| | | | MX 20054291 | A | 20011218 | | |
| IN 212053 | В | 20080125 | WO 2001JP3415 | Α | 20010420 | 200966 | E |
| | | | IN 2001MN1585 | A | 20011213 | | |
| | | | IN 2001MN1585 | A | 20011213 | | |
| KR 948439 | B1 | 20100317 | WO 2001JP3415 | Α | 20010420 | 201035 | E |
| | | | KR 2001716422 | A | 20011221 | | |
| | | | KR 2008723241 | A | 20080923 | | |

| US 7738776 | B2 | 20100615 | WO 2001JP3415 | Α | 20010420 | 201039 | E |
|---------------|----|----------|---------------|---|----------|--------|---|
| | | | US 200218846 | Α | 20020412 | | |
| JP 2010148140 | Α | 20100701 | JP 200191830 | Α | 20010328 | 201043 | E |
| | | | JP 201020766 | Α | 20100201 | | |
| EP 2256736 | A2 | 20101201 | EP 2001921964 | Α | 20010420 | 201079 | E |
| | | | EP 2010177097 | Α | 20010420 | | |
| EP 2256737 | A2 | 20101201 | EP 2001921964 | Α | 20010420 | 201079 | E |
| | | | EP 2010177393 | Α | 20010420 | | |
| EP 2256738 | A2 | 20101201 | EP 2001921964 | A | 20010420 | 201079 | E |
| | | | EP 2010177417 | Α | 20010420 | | |
| EP 2256739 | A2 | 20101201 | EP 2001921964 | Α | 20010420 | 201079 | E |
| | | | EP 2010177420 | Α | 20010420 | | |
| JP 4599740 | B2 | 20101215 | JP 200191830 | A | 20010328 | 201082 | E |
| JP 2011004413 | A | 20110106 | JP 200191830 | A | 20010328 | 201104 | E |
| | | | JP 2010175703 | A | 20100804 | | |
| JP 2011135616 | A | 20110707 | JP 201020766 | Α | 20010328 | 201144 | E |
| | | | JP 201165247 | Α | 20110324 | | |
| JP 2011166800 | A | 20110825 | JP 201020766 | Α | 20010328 | 201156 | E |
| | | | JP 201165243 | Α | 20110324 | | |
| JP 2011166801 | A | 20110825 | JP 201020766 | Α | 20010328 | 201156 | E |
| | | | JP 201165244 | Α | 20110324 | | |
| JP 2011166802 | A | 20110825 | JP 201020766 | Α | 20010328 | 201156 | E |
| | | | JP 201165245 | Α | 20110324 | | |
| JP 2011166803 | A | 20110825 | JP 201020766 | A | 20010328 | 201156 | E |
| | | | JP 201165246 | Α | 20110324 | | |
| EP 2256736 | A3 | 20120111 | EP 2001921964 | Α | 20010420 | 201204 | E |
| | | | EP 2010177097 | Α | 20010420 | | |
| EP 2256737 | A3 | 20120111 | EP 2001921964 | A | 20010420 | 201204 | E |
| | | | EP 2010177393 | A | 20010420 | | |
| EP 2256738 | A3 | 20120118 | EP 2001921964 | Α | 20010420 | 201206 | E |
| | | | EP 2010177417 | Α | 20010420 | | |
| EP 2256739 | A3 | 20120118 | EP 2001921964 | A | 20010420 | 201206 | E |
| | | | EP 2010177420 | Α | 20010420 | | |
| JP 2012065359 | Α | 20120329 | JP 201165243 | Α | 20010328 | 201223 | E |
| | | | JP 2011271259 | A | 20111212 | | |

| JP 2012065361 | A | 20120329 | JP 201165244 | A | 20010328 | 201223 | E |
|---------------|----|----------|---------------|---|----------|--------|---|
| | | | JP 2011272073 | Α | 20111213 | | |
| JP 2012065363 | Α | 20120329 | JP 201165245 | Α | 20010328 | 201223 | E |
| | | | JP 2011272992 | Α | 20111214 | | |
| JP 4915484 | B2 | 20120411 | JP 201020766 | Α | 20010328 | 201225 | E |
| | | | JP 201165243 | A | 20110324 | | |
| JP 4919127 | B2 | 20120418 | JP 201020766 | Α | 20010328 | 201227 | E |
| | | | JP 201165244 | Α | 20110324 | | |
| JP 4919128 | B2 | 20120418 | JP 201020766 | Α | 20010328 | 201227 | E |
| | 1 | | JP 201165245 | Α | 20110324 | | |
| JP 4919129 | B2 | 20120418 | JP 201020766 | Α | 20010328 | 201227 | E |
| | | | JP 201165246 | A | 20110324 | | |
| JP 4919130 | B2 | 20120418 | JP 201020766 | A | 20010328 | 201227 | E |
| | | | JP 201165247 | Α | 20110324 | | |
| JP 4947159 | B2 | 20120606 | JP 200191830 | Α | 20010328 | 201237 | E |
| | | | JP 201020766 | A | 20100201 | | |
| JP 2012130005 | Α | 20120705 | JP 201165246 | Α | 20010328 | 201244 | E |
| | | | JP 2011272074 | Α | 20111213 | | |
| JP 2012130006 | Α | 20120705 | JP 201165247 | Α | 20010328 | 201244 | Е |
| | | | JP 2011272991 | Α | 20111214 | | |
| JP 2012130019 | Α | 20120705 | JP 201020766 | Α | 20010328 | 201244 | Е |
| | | | JP 20124836 | Α | 20120113 | | |
| JP 4999972 | B2 | 20120815 | JP 200191830 | Α | 20010328 | 201253 | Е |
| | | | JP 2010175703 | Α | 20100804 | | |
| JP 5051802 | B2 | 20121017 | JP 201165243 | Α | 20010328 | 201268 | E |
| | | | JP 2011271259 | Α | 20111212 | | |
| JP 5051803 | B2 | 20121017 | JP 201165244 | A | 20010328 | 201268 | E |
| | | | JP 2011272073 | A | 20111213 | | |
| JP 5051804 | B2 | 20121017 | JP 201165246 | Α | 20010328 | 201268 | Е |
| | | | JP 2011272074 | Α | 20111213 | | |
| JP 5051805 | B2 | 20121017 | JP 201165245 | Α | 20010328 | 201268 | Е |
| | | | JP 2011272992 | Α | 20111214 | | |
| JP 5051807 | B2 | 20121017 | JP 201020766 | Α | 20010328 | 201268 | E |
| | | | JP 20124836 | Α | 20120113 | | |
| JP 5063808 | B2 | 20121031 | JP 201165247 | Α | 20010328 | 201271 | E |

| | | | | A | 20111214 |
|------------|----|----------|--------------|---|-------------------|
| EP 1569449 | B1 | 20121121 | | Α | 20010420 201276 E |
| | | | EP 200576079 | A | 20010420 |

Alerting Abstract ... DESCRIPTION OF DRAWINGS - The drawing shows a block diagram (the drawing includes non-English language **text)**. Original Publication Data by AuthorityArgentinaPublication No. ...Original Abstracts:of the deletion with a user's instruction indication after demanding confirmation (warning) from a user with respect to operation called deletion by displaying a **message** etc. which are called "Virtual PlayList which is referring the stream part of Clip which the Real PlayList is referring exists, Erasure/elimination of the... subpath/pass.Postrecording of this audio is supported by the application format. An additional audio stream is added to AV stream of a main path pass of Virtual PlayList as a subpath pass. As operation common to Real PlayList and Virtual PlayList, there exists a change (Moving) of the reproduction/regeneration...map has a list/wrist of time unit (TU) data based on the arrival time of the transport packet inputted through a digital interface. This gives the relationship between the time of... Decimal(BCD).For example, it is used as it said that the recording/reproducing apparatus 1 erase|eliminated automatically PlayList over which this active/validity period passed. For example, 2001/05/07 is encoded with"0x20010507".maker...freely.When this flag is set to 1, before a user eraseleliminates, edits or overwrites that PlayList, the recording/reproducing apparatus 1 displays a **message** which is reconfirmed to a user.Real PlayList by which write...time is a 32 bit field and stores the reproduction regeneration finish time of PlayItem. The semantics of OUT...PlayItem shows the time in which sub path carries out the reproduction/regeneration start on the time-axis of main path, 32 bits of high-orders of PTS(Presentaiotn...stream corresponding to Clip is recorded is stored, 14 numbers are encoded by 4 bits Binary Coded Decimal(BCD) about a /part / second at the time of year / month /day/.For example, 2001/12/23:01:02:03 are encoded with"0x20011223010203".duration is the 24 bits field which showed the... flag is 1, it shows that recording mode is a mode in which it is recorded with respect to the time passage after recording as file size is proportional, You have to satisfy/fill the conditions shown in following Formula. TS.....time)+(alpha)Here, TS.....the average bit rate of the transport stream of AV stream file with a bytes/second unit.Moreover, in an above formula, t shows the time represented by a based on the second, and start...rate.When timeflag is set to zero, recording mode shows not controlling so that the file size of AV stream is proportional to the time passage of recording. For example, this is a case where transparent recording of the input transport stream is carried out.When time...sequence.When AV stream contains the STC discontinuous point of N (N(muchgreater than) 0) piece, the system time base of Clip is divided|segmented into STC... type is equal to one ('audio'), this field shows the relative address of the source/sauce pocket containing the 1st byte/cutting-tool eye/ texture of the audio flame|frame of the access unit referred by PTS ...time in TU... ...time ...Claims: of the sub reproduction pass and the AV stream which the sub reproduction pass refers and sub reproduction pass and out point, and sub reproduction **pass**, and the **time** axis of the main path and which the time axis

disclose...CLAIM 61] The information processing unit including the presentation time stamp of claim 60, wherein the path control information shows the presentation initiation time of the supplementary **pass** based on the time axis of the main path... ... unit including the IN time information and OUT time information of claim 60, wherein the path control information shows the presentation initiation time and finish time of the supplementary pass. [......Information and/or audio, and the path control information and the output unit outputting the map information; and the sub play item on the supplementary **pass** is synchronized in the **time** axis of the play item on the main path of the information processing unit comprising the main path information showing the presentation pass consisting of... CLAIM 71] The method for information processing including the presentation time stamp of claim 70, wherein the path control information shows the presentation initiation time of the supplementary pass based on the **time** axis of the main path.....processing including the IN time information and OUT time information of claim 70, wherein the path control information shows the presentation initiation time and finish time of the supplementary pass. [.....CLAIM 76] The method for information processing having the presentation initiation time which includes; and the sub play item on the supplementary **pass** is synchronized in the **time** axis of the play item on the main path a step for the path control information including the secondary pass information showing the comprised presentation...picture information reproducing apparatus and/or the audio including the presentation time stamp of claim 80, wherein the path control information shows the presentation initiation time of the supplementary pass based on the time axis of the main path... ...audio including the IN time information and OUT time information of claim 80, wherein the path control information shows the presentation initiation time and finish time of the supplementary pass. [...picture information playback method and/or the audio including the presentation time stamp of claim 90, wherein the path control information shows the presentation initiation time of the supplementary pass based on the time axis of the main path... ... audio including the IN time information and OUT time information of claim 90, wherein the path control information shows the presentation initiation time and finish **time** of the supplementary **pass**. [...CLAIM 96] The picture information playback method and/or audio having the presentation initiation time which includes; and the sub play item on the supplementary **pass** is synchronized in the **time** axis of the play item on the main path a step for reproducing the path control information, a step for restoring the path control information...CLAIM 107] The main path information showing the presentation **pass** consisting of the presentation **time** stamp of the entry point of the play item, and the map information describing relation with the address of the access unit relating to the information showing the comprised presentation pass is recording medium having the presentation initiation time which is recorded; and the sub play item on the supplementary **pass** is synchronized in the **time** axis of the play item on the main path as to the recording medium which can be used in computer... ... or the picture Information, and the map information describing relation with the address with the presentation time stamp of the entry point and the presentation **pass** including the IN time and the second play item indicating the OUT time of one or more second elementary streams having the presentation time stamp the play list file......CLAIM 2] The information processing unit which the presentation time stamp showing the presentation initiation time of the supplementary **pass** as to the first claim is based on

the time axis of the main path to the first claim, and OUT time is the presentation initiation time of the supplementary pass and the information processing unit for showing the finish time.....CLAIM 5] Information processing unit equipped with the identifying information showing the system time clock domain having the supplementary **pass** information, is the IN **time** and OUT time as to claim 4.....the map information describing relation with the address of the presentation time stamp of the entry point and the access unit relating to the presentation timestamp and the secondary **pass** information showing the presentation **pass** including the IN time and one or more secondary play item (sub-play item) indicating the OUT time of one or more second elementary streams having the presentation time.....picture Information and/or the picture Information. The information processing unit which the presentation initiation time of the supplementary play item included in the supplementary **pass** information is synchronized in the time axis of the first play item...the map information describing relation with the address with the presentation time stamp of the entry point and the secondary pass information showing the presentation **pass** including the IN **time** and the second play item indicating the OUT time of one or more second elementary streams having presentation time stamp data step of outputting the... ... CLAIM 12] The method for information processing which the presentation time stamp showing the presentation initiation time of the supplementary pass as to the eleventh claim is based on the time axis of the main path... ... CLAIM 13] The IN time of one or more second elementary streams as to the eleventh claim, and OUT time is the presentation initiation time of the supplementary pass and the method for information processing for showing the finish time... ... the map information describing relation with the address of the presentation time stamp of the entry point and the access unit relating to the presentation time stamp and the secondary pass information showing the presentation **pass** including the IN time and one or more secondary play item indicating the OUT time of one or more second elementary streams having presentation time stamp data step of.....the picture Information and/or the picture Information. The method for information processing which the presentation pass of the supplementary play item on the supplementary **pass** information is synchronized in the **time** axis of the play item on the main path information...and the clip information and audio and/or the picture Information are included; the path control information includes the main path information showing the presentation **pass** including the IN time and the first play item indicating the OUT time of one or more first elementary streams and the secondary pass information showing the presentation pass which contains the IN time of one or more second elementary streams except the elementary stream and the second play item indicating the OUT time to show with the first.....the map information describing relation with the address with the presentation time stamp of the entry point and the secondary pass information showing the presentation **pass** including the IN time of the elementary stream except the elementary stream which is shown with the first play item and the second play item indicating the OUT time CLAIM 22] Audio and/or the picture information reproducing apparatus which the presentation time stamp showing the presentation initiation time of the supplementary **pass** as to claim 21 is based on the time axis of the main path elementary stream except the elementary stream which is shown as to claim 21 with the first play item and OUT time is the presentation initiation time of the supplementary pass and audio and/or the picture information

reproducing apparatus for showing the finish time ... presentation time stamp from the storage media in which audio and/or the picture Information is stored and the main path information showing the presentation **pass** including the IN time and one or more play item indicating the OUT time of one or more first elementary streams and the secondary pass information showing the presentation pass including the IN time and one or more secondary play item indicating the OUT time of one or more second elementary streams having presentation time stamp data; the audio... ... or the picture Information. Audio and/or the picture information reproducing apparatus which the presentation initiation time of the supplementary play item on the supplementary pass information is synchronized in the **time** axis of one or more play item on the main path information; and one or more second elementary streams are based on the input audio... ... CLAIM 29] As to reproducer, play list file equipped with path control information having the secondary pass information showing the presentation pass including the IN time and the second play item indicating the OUT time of the main path information showing the presentation **pass** including the IN **time** and the first play item indicating the OUT time of one or more first elementary streams and one or more second elementary streams and the...audio and/or the picture Information is stored with the presentation time stamp of the entry point and the main path information showing the

presentation **pass** including the IN **time** and the first play item indicating the OUT time of one or more first elementary streams and the secondary pass information showing the presentation **pass** including the IN **time** and the second play item indicating the OUT time of one or more second elementary streams having presentation time stamp data; and one or more... ...CLAIM 32] Audio and/or the picture information playback method which the presentation time stamp showing the presentation initiation**time** of the supplementary **pass** as to claim 31 is based on the time axis of the main path... ...CLAIM 33] The IN time of one or more second elementary streams as to claim 31,

and OUT time is the presentation initiation **time** of the supplementary **pass** and audio and/or the picture information playback method for showing the finish time...

...presentation time stamp from the storage media in which audio and/or the picture Information is stored and the main path information showing the

presentation**pass** including the IN time and one or more play item indicating the OUT time of one or more first elementary streams and the secondary pass information showing the presentation **pass** including the IN **time** of one or more second elementary streams except the elementary stream which is shown with one or more play item and one or more secondary... ... presentation time stamp data. Audio and/or the picture information playback method which the presentation initiation time of the supplementary play item on the supplementary **pass** information is synchronized in the **time** axis of one or more play item on the main path information; and one or more second elementary streams are based on the input audio... CLAIM 39] As to the refresh method, play list file equipped with path control information having the secondary pass information showing the presentation **pass**including the IN time and the second play item indicating the OUT time of the main path information showing the presentation**pass** including the IN time and the first play item indicating the OUT time of one or more first elementary streams and one or more second elementary streams and step... address with the presentation time stamp of the entry point of audio and/or the picture Information and the secondary pass information showing the

presentation pass including the IN time of one or more second elementary streams except the elementary stream which is shown with the first play item and the second play item indicating..... the map information describing relation with the address of the presentation time stamp of the entry point and the access unit relating to the presentation time stamp and the secondary pass information showing the presentation **pass** including the IN **time** of one or more second elementary streams except the elementary stream which is shown with one or more play item and one or more secondary..... item indicating the OUT time having presentation time stamp data is recorded; and the presentation initiation time of the supplementary play item on the supplementary **pass** information is synchronized with the **time**axis of one or more play item on the main path information. The computer readable recording medium which one or more second elementary streams are..... readable recording medium which can be used for computer, play list file equipped with path control information having the secondary pass information showing the presentation pass including the IN time and the second play item indicating the OUT time of the main path information showing the presentation **pass** including the IN **time** and the first play item indicating the OUT time of one or more first elementary streams and one or more second elementary streams and the... Basic Derwent Week: 200229

8/3,K/6 (Item 5 from file: 350) DIALOG(R)File 350: Derwent WPIX (c) 2013 Thomson Reuters. All rights reserved.

0012279049 *Drawing available* WPI Acc no: 2002-219894/200228

XRPX Acc No: N2002-168643

Time-stamp information processor for video tape recorder, encodes time-stamp information for setting preset interval between each packet of transmitted program signal

Patent Assignee: VICTOR CO OF JAPAN (VICO) Inventor: KITAMURA H

| Patent Family (1 patents, 1 countries) | | | | | | | |
|---|------|----------|---------------|-------------|----------|-------------|--|
| Patent Number | Kind | Date | Application I | Number Kine | d Date | Update Type | |
| JP 2001177794 | A | 20010629 | JP 19993624 | 61 A | 19991221 | 200228 B | |

Alerting Abstract ... ADVANTAGE - Reduces data recording time, by recording time - stamp information at higher rate than program signal recording rate...

...DESCRIPTION OF DRAWINGS - The figure shows the block diagram of time-stamp information processor. (Drawing includes non-English language **text**). Basic Derwent Week: 200228

8/3,K/7 (Item 6 from file: 350) DIALOG(R)File 350: Derwent WPIX (c) 2013 Thomson Reuters. All rights reserved.

0010668964 *Drawing available* WPI Acc no: 2001-277648/200129 XRPX Acc No: N2001-198795

Plan assistance apparatus in market place, displays analyzed input document and converted demand expression showing the condition of goods or service, that are matched

Patent Assignee: TOSHIBA KK (TOKE)

Inventor: KYOYA Y; NOGUCHI K; SEKIMOTO C

| Patent Family (1 patents, 1 countries) | | | | | | | | |
|--|----------|-------------------|---------|----------|-------------|--|--|--|
| Patent Number Kind | Date | Application Numbe | er Kind | Date | Update Type | | | |
| JP 2001060194 A | 20010306 | JP 1999234748 | A | 19990820 | 200129 B | | | |

Alerting Abstract ... ADVANTAGE - Demand expression is extracted quickly, hence goods or service satisfying a customer can be quickly provided in a market place, thereby **reducing** labor

and **time** to **a greater** extent. **The document** which**adapts** imagination **information wh ich** includes **information regarding** goods or service, is also generated... ...

DESCRIPTION OF DRAWINGS - The figure the block diagram of components of plan assistance apparatus. (Drawing includes non-English language **text**). Basic Derwent Week: 200129

8/3,K/8 (Item 7 from file: 350) DIALOG(R)File 350: Derwent WPIX (c) 2013 Thomson Reuters. All rights reserved.

0007290094 *Drawing available* WPI Acc no: 1995-349880/199545

Audio communication device e.g. cordless, portable telephone - uses reproduction part in which message signal is added to reproduced audio signal and amplified signal is output

Patent Assignee: TOSHIBA KK (TOKE); TOSHIBA COMMUNICATION TECHNOLOGY (TOKE)

Inventor: MATSUZAKI N; TAKENAKA A

| Patent Family (1 patents, 1 countries) | | | | | | |
|--|------|----------|----------------|------------|----------|-------------|
| Patent Number | Kind | Date | Application Nu | Imber Kind | Date | Update Type |
| JP 7240786 | Α | 19950912 | JP 199429198 | A | 19940228 | 199545 B |

...**uses reproduction part in which message signal is added to reproduced audio signal and amplified signal is outputAlerting Abstract** ...A **message** signal showing the index information corresponding to the code data is formed. The**message** signal is added to the reproduction audio signal and the amplified signal is output by a

reproduction part... ... ADVANTAGE -

Reduces recording information content of time stamp information. Increases numb ers of messagerecorder per unit record capacity. Allows circuit miniaturisation. Title Terms .../Index Terms/Additional Words: MESSAGE;Class Codes ... Basic Derwent Week: 199545...

8/3,K/9 (Item 8 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2013 Thomson Reuters. All rights reserved.

0002518163

WPI Acc no: 1982-E9820E/198217

Digital automatic common timing system - has primary clock with intermediate outputs from frequency divider to signal register and clock and code sequences shaper

Patent Assignee: PENZA POLY (PEPO)

Inventor: BORISOV Y U D; BORISOVA L S; SHLYANDIN V M

| Patent Family (1 patents, 1 countries) | | | | | | |
|--|------|----------|--------------|-------------|----------|-------------|
| Patent Number | Kind | Date | Application | Number Kind | Date | Update Type |
| SU 847262 | В | 19810717 | 7 SU 2825336 | A | 19791008 | 198217 B |

Alerting Abstract ...Automatic common timing system contg. a primary clock with crystal oscillator (1), frequency-divider (2), scalers (3), digital indicators (4) and a parallel to series time-code converter (5) has greater certainty in transmitting chronometric information in coded form to secondary clocks (9.....with pulse-amplitude manipulation. Unproductive expenditure of time is reduced since secondary clocks no longer indicate each digit of received information in pauses between code messages. Basic Derwent Week: 198217

8/3K/1 (Item 1 from file: 348)

00564803

Tape recorder having information recorded by a rotary head and reproduced by a stationary head.

Patent Assignee:

 Datatape Incorporated (652530) 360 Sierra Madre Villa P.O. Box Bin 7014; Pasadena, California 91109-7014 (US)

(applicant designated states: DE;FR;GB)

Inventor:

- Sarkisian, Nancy Louise, c/o EASTMAN KODAK COMPANY Patent Legal Staff, 343 State Street; Rochester, New York 14650-2201; (US)
- Bacon, James Stanley, c/o EASTMAN KODAK COMPANY Patent Legal Staff, 343 State Street; Rochester, New York 14650-2201; (US)

- Aguilar, Jose Guadalupe, c/o EASTMAN KODAK COMPANY Patent Legal Staff, 343 State Street; Rochester, New York 14650-2201; (US)
- Evans, Robert Jay, c/o EASTMAN KODAK COMPANY Patent Legal Staff, 343 State Street; Rochester, New York 14650-2201; (US)
- Heritage, Daniel, c/o EASTMAN KODAK COMPANY Patent Legal Staff, 343 State Street; Rochester, New York 14650-2201; (US)

• Benjauthrit, Boonsieng, c/o EASTMAN KODAK COMPANY Patent Legal Staff, 343 State Street; Rochester, New York 14650-2201; (US)

Legal Representative:

• Maury, Richard Philip et al (52806)

Sommerville & Rushton 11 Holywell Hill; St. Albans Herts. AL1 1EZ; (GB)

| | Country | Number | Kind | Date | |
|-------------|---------|----------|------|----------|---------|
| Patent | EP | 562572 | A2 | 19930929 | (Basic) |
| Patent | EP | 562572 | A3 | 19940601 | |
| Application | EP | 93104850 | | 19930324 | |
| Priorities | US | 858740 | | 19920327 | |

Specification: ...flux also decreases. This, in turn, causes the SNR to decrease, making it increasingly more difficult to recover data.

There also exists a need to **increase** the amount of **data** which may be recorded on a given size of tape so that elimination of the **time code** track would permit **increase** of the length of recorded **information** tracks. One technique proposed for eliminating the longitudinal time code track is disclosed in US-A-4,167,028. Therein is described a method of... ...technique disclosed in US-A-4,663,678 provides for digital time code information being recorded interspersed on the same data track as analog audio **message** signals. Both of these techniques are disadvantageous in requiring the use of a longitudinal track. Another technique for recording time code information in either the...

8/3K/2 (Item 1 from file: 349) DIALOG(R)File 349: PCT FULLTEXT (c) 2013 WIPO/Thomson. All rights reserved.

01357270

CONSISTENT SET OF INTERFACES DERIVED FROM A BUSINESS OBJECT MODEL

Patent Applicant/Patent Assignee:

• SAP AG

Diettmar-Hopp-Allee 16, 69190 Walldorf; DE; DE (Residence); DE (Nationality); (For all designated states except: US)

Patent Applicant/Inventor:

SEUBERT Michael

Vogelsangstr. 10, 74889 Sinsheim; DE; DE (Residence); DE (Nationality); (Designated for all)

ADELMANN Stefan Tannhaeuserring 104, 68199 Mannheim; DE; DE (Residence); DE (Nationality); (Designated for all) ALVAREZ Gabriel Heinrich-boell-strasse 23, 68766 Hockenheim; DE; DE (Residence); US (Nationality); (Designated for all) BOCK Daniel Fritz-Frey-Str. 5, 69121 Heidelberg; DE; DE (Residence); DE (Nationality); (Designated for all) BOLD Andreas Hartmannstr. 28, 67063 Ludwigshafen; DE; DE (Residence); DE (Nationality); (Designated for all) BROSSLER Andreas Am Schoepfspfad 4, 69251 Gaiberg; DE; DE (Residence); DE (Nationality); (Designated for all) BUCHMANN Daniel Reetzstr. 19, 76327 Pfinztal; DE; DE (Residence); DE (Nationality); (Designated for all) COLLE Renzo Oppelner Str. 2, 76437 Rastatt; DE; DE (Residence); DE (Nationality); (Designated for all) DOERNER Robert Dieselstr. 1, 63071 Offenbach; DE; DE (Residence); DE (Nationality); (Designated for all) ELFNER Stefan Amselgasse 6, 69121 Heidelberg; DE; DE (Residence); DE (Nationality); (Designated for all) FRANKE Stefan Delmer Bogen 24a, 21614 Buxtehude; DE; DE (Residence); DE (Nationality); (Designated for all) GNAN Werner Industriestrasse 7, 74918 Angelbachtal; DE; DE (Residence); DE (Nationality); (Designated for all) GROSS Antonia Leipziger Str. 1, 69181 Leimen; DE; DE (Residence); DE (Nationality); (Designated for all) GSCHWENDER Gerhard Brookefields, Kundanahalli, 56037 Bangalore; DE; DE (Residence); DE (Nationality); (Designated for all) HENDRICKS Joerg 111 Duke Street, Montreal, QCH3C 2 M1; CA; CA (Residence); DE (Nationality); (Designated for all) **HENGEVOSS Wolf**

Alte Heerstr. 1, 69168 Wiesloch; DE; DE (Residence); DE (Nationality); (Designated for all)

HETZER Stephan Wiesenweg 13, 74918 Angelbachtal; DE; DE (Residence); DE (Nationality); (Designated for all) HOFMANN Christine Schlehdornweg 51, 69469 Weinheim; DE; DE (Residence); DE (Nationality); (Designated for all) JAECK Volker Hinter Der Muehle 31, 69226 Nussloch; DE; DE (Residence); DE (Nationality); (Designated for all) • KELNBERGER Bernhard Burgunderweg 2, 69231 Rauenberg; DE; DE (Residence); DE (Nationality); (Designated for all) KEMMER Johann Schillerstr. 24, 69242 Muehlhausen; DE; DE (Residence); DE (Nationality); (Designated for all) KENNTNER Joachim Saarstr. 5, 69126 Heidelberg; DE; DE (Residence); DE (Nationality); (Designated for all) KIWON Adam Gehaegestr. 20c, 30655 Hannover; DE; DE (Residence); DE (Nationality); (Designated for all) KOETTER Karsten Heinrich-Fuchs-Str. 36, 69126 Heidelberg; DE; DE (Residence); DE (Nationality); (Designated for all) KRAEHMER Thilo Friedrich-Ebert-Anlage 41, 69117 Heidelberg; DE; DE (Residence); DE (Nationality); (Designated for all) KUEHL Axel Kurpfalzstr. 58, 69226 Nussloch; DE; DE (Residence); DE (Nationality); (Designated for all) KUSTER Corinne Rettigheimer Str. 32, 69242 Muehlhausen/Kraichgau; DE; DE (Residence); CH (Nationality); (Designated for all) LEHNER Christoph Hildastr. 9, 69115 Heidelberg; DE; DE (Residence); DE (Nationality); (Designated for all) LIEBOLD Werner Haselweg 2/2, 69168 Wiesloch; DE; DE (Residence); DE (Nationality); (Designated for all) MAKRIS Otto Hirtenaue 50, 69118 Heidelberg; DE; DE (Residence); GR (Nationality); (Designated for all) **MORSCH Andreas** Nietzschestrasse 36, 68165 Mannheim; DE; DE (Residence); DE (Nationality); (Designated for all)

NIESWAND Wolfgang Heinrich-Luebke-Weg 14, 69242 Muehlhausen; DE; DE (Residence); DE (Nationality): (Designated for all) NIETSCHKE Thomas Sinsheimer Str. 79, 69226 Nussloch; DE; DE (Residence); DE (Nationality); (Designated for all) NOWOTNY Dietmar Kraichgaustr. 41a, 69234 Dielheim; DE; DE (Residence); DE (Nationality); (Designated for all) • PETER Markus Viktoriastr. 25, 68789 St. Leon-Rot; DE; DE (Residence); DE (Nationality); (Designated for all) PODHAJSKY Georg Germerheimerstr. 5, 76661 Philippsburg; DE; DE (Residence); DE (Nationality); (Designated for all) POETSCHKE Dominic Theodor-Heuss-Str. 5, 76275 Ettlingen; DE; DE (Residence); DE (Nationality); (Designated for all) RADCKE Ruediger Viktoriastrasse 4, 76646 Bruchsal; DE; DE (Residence); DE (Nationality); (Designated for all) RASCH Jochen Freiherr-vom-Stein-Str. 6, 69207 Sandhausen; DE; DE (Residence); DE (Nationality); (Designated for all) RIEKEN Gregor Erlenweg 12, 69190 Walldorf; DE; DE (Residence); DE (Nationality); (Designated for all) RIPP Volker Robert-Blum-Str. 4, 68199 Mannheim; DE; DE (Residence); DE (Nationality); (Designated for all) RITTER Gerd Schwetzingerstr. 91, 69124 Heidelberg; DE; DE (Residence); DE (Nationality); (Designated for all) SALA Paola Marktplatz 6, 69117 Heidelberg; DE; DE (Residence); IT (Nationality); (Designated for all) SCHAPLER Daniela Goethestr. 22, 68789 St. Leon-Rot; DE; DE (Residence); DE (Nationality); (Designated for all) SCHMITT Matthias Ernst-Rehm-Str. 7, 69124 Heidelberg; DE; DE (Residence); DE (Nationality); (Designated for all) SCHNEIDER Andreas

V. Heyl Str. 4g, 67240 Bobenheim-Roxheim; DE; DE (Residence); DE (Nationality); (Designated for all)

| • | SCHUELER A | Arnulf | | | |
|-------|---------------------------|---------------------|---------------------------------------|--------------|---------------------------------------|
| | Hildastr. 19a, | 69115 Heidelbe | erg; DE; | DE (Resid | lence); DE (Nationality); |
| | (Designated for | | • | , | |
| • | SEYLER Reir | | | | |
| | Unterm Moos | garten 14, 7493 | 3 Neide | enstein; DE | ; DE (Residence); DE |
| | (Nationality); (| Designated for | all) | | |
| • | SIEVERS Rai | f | | | |
| | Gartenstr. 7, 6 | 9190 Walldorf; | DE; DE | E (Residend | ce); DE (Nationality); (Designated |
| | for all) | | | - | |
| • | STUHEC Gun | other | | | |
| | Friedrichstras | se 10, 69117 H | eidelbei | rg; DE; DE | (Residence); AT (Nationality); |
| | (Designated for | | | | |
| ٠ | THOME Fran | | | | |
| | | | arlsruh | e; DE; DE | (Residence); DE (Nationality); |
| | (Designated for | | | | |
| ٠ | WAGNER An | | | | |
| | | | Sinsheir | n; DE; DE | (Residence); DE (Nationality); |
| | (Designated fo | | | | |
| • | WINKEL Rud | - | Malldarf | | |
| | | | validori | ; DE; DE (F | Residence); DE (Nationality); |
| | (Designated for YU Tao | or all) | | | |
| • | | strasso QA 601 | 00 1/1/21 | Idorf: DE: [| DE (Residence); CN (Nationality); |
| | (Designated for | | 50 wa | | DE (Residence), ON (Nationality); |
| • | ZACHMANN | | | | |
| - | | | Sneve | r· DE· DE (| Residence); DE (Nationality); |
| | (Designated for | | | .,,(| (((((((((((((((((((|
| • | ZADRO Rena | , | | | |
| | Helmhotz Str. | 42, 68723 Sch | wetzing | en; DE; DE | (Residence); HR (Nationality); |
| | (Designated for | | Ŭ | | |
| ٠ | ZIMMERMAN | N Theo | | | |
| | | | | Niesloch; D |)E; DE (Residence); DE |
| | | Designated for | all) | | |
| • | MAAG Thoma | | | | |
| | | | sidence | e); (Natio | nality); (Designated for all) |
| ٠ | GROSSMAN | | | · · · · · | |
| | | | sidence | e); (Natior | nality); (Designated for all) |
| • | ZOELLER Mi | | | 00), /NI-+ | ionality), (Decignated for all) |
| | | | tesiden | ce); (nai | ionality); (Designated for all) |
| сеуа | I Representativ | /e: ARDSON PC (a | agent) | | |
| • | | 2, Minneapolis, | | 140-102201 | IS |
| | | | · · · · · · · · · · · · · · · · · · · | ······· | |
| | Country | ····· | Kind | Date | |
| Pater | nt WO | 200638924 | A2-A3 | 20060413 | |

| | Country | Number | Kind | Date |
|-------------|---------|-------------|-------|----------|
| Patent | WO | 200638924 | A2-A3 | 20060413 |
| Application | WO | 2005US21481 | | 20050617 |

| | Country | Number | Kind | Date |
|------------|---------|-------------|---------|----------|
| Priorities | US | 2004581252 | | 20040618 |
| | US | 2004582949 | | 20040625 |
| | US | 2005656598 | <u></u> | 20050225 |
| | US | 2005669310 | | 20050407 |
| | US | 2005145464 | | 20050603 |
| | WO | 2005US19961 | | 20050603 |

Detailed Description:

...calendar representation of a particular day. The Built-In Data Type of Date is xsd:date and a restriction is length=10. Time is a **time stamp**, accurate to the second, of a particular **time**. The Built-In Data Type for **Time** is xsd:time.

The coordinated world time or coordinated universal time (UTC) is currently the uniform basis for time specifications that are used internationally. It...specifies the language for written

correspondence. For CorrespondenceLanguageCode 4040a, the Category is Element 4040b, the Object Class is Communication 4040c, the Property is Correspondence Language **Code** 4040d, the Representation/Association is Code 4040e, the Type is GDT 4040f, and the Type Name is LanguageCode 4040g. The Cardinality may be zero or...

8/3K/3 (Item 2 from file: 349) DIALOG(R)File 349: PCT FULLTEXT (c) 2013 WIPO/Thomson. All rights reserved.

01329846

CONSISTENT SET OF INTERFACES DERIVED FROM A BUSINESS OBJECT MODEL

Patent Applicant/Inventor:

SEUBERT Michael

Vogelsangstr. 10, 74889 Sinsheim; DE; DE (Residence); DE (Nationality); (Designated for all)

- ADELMANN Stefan Tannhaeuserring 104, 68199 Mannheim; DE; DE (Residence); DE (Nationality); (Designated for all)
- ALVAREZ Gabriel Heinrich-Boell-Strasse 23, 68766 Hockenheim; DE; DE (Residence); US (Nationality); (Designated for all)

• **BIEHLER Markus** Am Schloessel 1, 76829 Landau; DE; DE (Residence); DE (Nationality); (Designated for all)

BOCK Daniel Fritz-Frey-Str. 5, 69121 Heidelberg; DE; DE (Residence); DE (Nationality); (Designated for all) BOLD Andreas Hartmannstr. 28, 67063 Ludwigshafen; DE; DE (Residence); DE (Nationality); (Designated for all) BROSSLER Andreas Am Schoepfspfad 4, 69251 Gaiberg; DE; DE (Residence); DE (Nationality); (Designated for all) BUCHMANN Daniel Reetzstr. 19, 76327 Pfinztal; DE; DE (Residence); DE (Nationality); (Designated for all) COLLE Renzo Oppelner Str. 2, 76437 Rastatt; DE; DE (Residence); DE (Nationality); (Designated for all) DOERNER Robert Dieselstr. 1, 63071 Offenbach; DE; DE (Residence); DE (Nationality); (Designated for all) ELFNER Stefan Amselgasse 6, 69121 Heidelberg; DE; DE (Residence); DE (Nationality); (Designated for all) FRANKE Stefan Delmer Bogen 24a, 21614 Buxtehude; DE; DE (Residence); DE (Nationality); (Designated for all) GEISER Harald Ladenburger Str. 7, 68723 Plankstadt; DE; DE (Residence); DE (Nationality); (Designated for all) GOLL Michael Burgstr. 49, 69121 Heidelberg; DE; DE (Residence); DE (Nationality); (Designated for all) GNAN Werner Industriestrasse 7, 74918 Angelbachtal; DE; DE (Residence); DE (Nationality); (Designated for all) GROSS Antonia Leipziger Str. 1, 69181 Leimen; DE; DE (Residence); DE (Nationality); (Designated for all) GROSS Patrick Steinmetzweg 34, 64625 Bensheim; DE; DE (Residence); DE (Nationality); (Designated for all) GSCHWENDER Gerhard BrookeFields, Kundanahalli, 56037 Bangalore; DE; DE (Residence); DE (Nationality); (Designated for all) **HENDRICKS** Joerg 111 Duke Street, Montreal, Quebec QCH3C 2 M1; CA; CA (Residence); DE (Nationality); (Designated for all)

| ٠ | HENGEVOSS Wolf |
|---|---|
| | Alte Heerstr. 1, 69168 Wiesloch; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | HETZER Stephan |
| | Wiesenweg 13, 74918 Angelbachtal; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| - | HOFMANN Christine |
| • | |
| | Schlehdornweg 51, 69469 Weinheim; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | JAECK Volker |
| | Hinter der Muehle 31, 69226 Nussloch; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| ٠ | KELNBERGER Bernhard |
| | Burgunderweg 2, 69231 Rauenberg; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | KEMMER Johann |
| | Schillerstr. 24, 69242 Muehlhausen; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | KIWON Adam (|
| | Gehaegestr. 20C, 69190 Hannover; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | KOETTER Karsten |
| • | Heinrich-Fuchs-Str. 36, 69126 Heidelberg; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| | KRAEHMER Thilo |
| • | Friedrich-Ebert-Anlage 41, 69117 Heidelberg; DE; DE (Residence); DE |
| | |
| | (Nationality); (Designated for all) |
| • | KUEHL Axel |
| | Kurpfalzstr. 58, 69226 Nussloch; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| ٠ | KUSTER Corinne |
| | Rettigheimer Str. 32, 69242 Muehlhausen/Kraichgau; DE; DE (Residence); DE |
| | (Nationality); (Designated for all) |
| ٠ | LEHNER Christoph |
| | Hildastr. 9, 69115 Heidelberg; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| ٠ | LIEBOLD Werner |
| | Haselweg 2/2, 69168 Wiesloch; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | MAKRIS Otto |
| | Hirtenaue 50, 69118 Heidelberg; DE; DE (Residence); GR (Nationality); |
| | (Designated for all) |
| • | MORSCH Andreas |
| - | Nietzschestrasse 36, 68165 Mannheim; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| | |

NOWOTNY Dietmar Kraichgaustr. 41a, 69234 Dielheim; DE; DE (Residence); DE (Nationality); (Designated for all) NIETSCHKE Thomas Sinsheimer Str. 79, 69226 Nussloch; DE; DE (Residence); DE (Nationality); (Designated for all) NIESWAND Wolfgang Heinrich-Luebke-Weg 14, 69242 Muehlhausen; DE; DE (Residence); DE (Nationality); (Designated for all) PODHAJSKY Georg Germerheimerstr. 5, 76661 Philippsburg; DE; DE (Residence); DE (Nationality); (Designated for all) POETSCHKE Dominic Theodor-Heuss-Str. 5, 76275 Ettlingen; DE; DE (Residence); DE (Nationality); (Designated for all) PYKA Uwe Seewaldstr. 1, 74889 Sinsheim-Hilsbach; DE; DE (Residence); DE (Nationality); (Designated for all) RADCKE Ruediger Viktoriastrasse 4, 76646 Bruchsal; DE; DE (Residence); DE (Nationality); (Designated for all) RASCH Jochen Freiherr-vom-Stein-Str. 6, 69207 Sandhausen; DE; DE (Residence); DE (Nationality); (Designated for all) REINEMUTH Frank Waldpforte 116, 68305 Mannheim; DE; DE (Residence); DE (Nationality); (Designated for all) RIEKEN Gregor Erlenweg 12, 69190 Walldorf; DE; DE (Residence); DE (Nationality); (Designated for all) RIPP Volker Robert-Blum-Str. 4, 68199 Mannheim; DE; DE (Residence); DE (Nationality); (Designated for all) RITTER Gerd Schwetzingerstr. 91, 69124 Heidelberg; DE; DE (Residence); DE (Nationality); (Designated for all) SALA Paola Marktplatz 6, 69117 Heidelberg; DE; DE (Residence); IT (Nationality); (Designated for all) SCHAPLER Daniela Goethestr. 22, 68789 St. Leon-Rot; DE; DE (Residence); DE (Nationality); (Designated for all) SCHMITT Matthias Ernst-Rehm-Str. 7, 69124 Heidelberg; DE; DE (Residence); DE (Nationality);

| • | SCHNEIDER Andreas |
|-------------------------|---|
| | v. Heyl Str. 4g, 67240 Bobenheim-Roxheim; DE; DE (Residence); DE |
| | (Nationality); (Designated for all) |
| • | SCHUELER Arnulf |
| | Hildastr. 19a, 69115 Heilderberg; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | SCHULZE Dagmar |
| | Einsteinstrasse 23, 68789 St. Leon - Rot; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | SEILER Reinhard |
| | Unterm Moosgarten 14, 74933 Neidenstein; DE; DE (Residence); DE |
| | (Nationality); (Designated for all) |
| • | SIEVERS Ralf |
| | Gartenstr. 7, 69190 Walldorf; DE; DE (Residence); DE (Nationality); (Designated |
| | for all) |
| • | STUHEC Gunther |
| | Friedrichstrasse 10, 69117 Heidelberg; DE; DE (Residence); AT (Nationality); |
| | (Designated for all) |
| • | THOME Frank |
| | Nebeniusstrasse 33, 76137 Karisruhe; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | WAGNER Andre |
| | Burghaldeweg 38A, 74889 Sinsheim; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | WINKEL Rudolph |
| | Heidelberger Str. 95, 69190 Walldorf; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | YU Tao |
| | Carl-Spitzwegstrasse 9A, 69190 Walldorf; DE; DE (Residence); CN (Nationality); |
| | (Designated for all) |
| • | ZACHMANN Jens |
| | Dudenhofer Strasse 4, 67346 Speyer; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | |
| | Helmholtzstr. 42, 68723 Schwetzingen; DE; DE (Residence); HR (Nationality); |
| | (Designated for all) |
| • | ZIMMERNANN Theo |
| | Adolf-Pfisterer-Str. 31, 69168 Wiesloch; DE; DE (Residence); DE (Nationality); |
| | (Designated for all) |
| • | COLLE Renzo |
| | Oppelner Str. 2, 76437 Rastatt; DE; DE (Residence); DE (Nationality); |
| I • ~ - ! | (Designated for all) |
| Legal | Representative: |
| • | SAITO Marina N et al (agent) |
| | 8000 Sears Tower, 233 South Wacker Drive, Chicago, IL 60606; US |
| | Country Number Kind Date |
| | |

| | Country | Number | Kind | Date |
|-------------|---------|-------------|-------|----------|
| Patent | WO | 200612160 | A2-A3 | 20060202 |
| Application | WO | 2005US22137 | | 20050624 |
| Priorities | US | 2004582949 | | 20040625 |
| | US | 2005145464 | | 20050603 |
| | WO | 2005US19961 | | 20050603 |
| | WO | 2005US21481 | | 20050617 |
| | US | 2005155368 | [| 20050617 |

Detailed Description:

... The representation term for the CCT ElectronicAddress 2900 is ElectronicAddress.

In certain embodiments, CCT ElectronicAddress 2900 is not used as a reference component for binary **data** that is sent as an**additional** MIME attachment. The CCT BinaryObject 2900 is available for this purpose.

(f) Identifier

A CCT Identifier 3000 is a unique identification of an object within.....response to individual messages in bilateral negotiation processes between communication partners.

In an embodiment, GDT AcceptanceStatusCode 3600 is a proprietary selection from the UN/EDIFACT **code** list DE 4343. Addition of codes to this selection from the code list may require the approval of the Process Integration Council (PIC).

66

(b...Regulations Code 10924, the Category is Element 10926, the Object Class is Dangerous Goods 10928, the Property is Regulations 10930, the Representation/Association term is **Code** 10932, the Type term is GDT 10934, the Type Name term is Dangerous Goods Regulation Code 1093 6, the Length is from one to three ...

8/3K/4 (Item 3 from file: 349) DIALOG(R)File 349: PCT FULLTEXT (c) 2013 WIPO/Thomson. All rights reserved.

01215341

TIMING MECHANISM AND DIRECT MESSAGING FOR ELECTRONIC TRADING PLATFORM

Patent Applicant/Inventor:COOPER Steven

Harboside Financial Center, Plaza Five, 12th Floor, Jersey City, NJ 07311; US; US(Residence); US(Nationality)

Legal Representative:

- MILLER SHEHAN Deborah(et al)(agent)
 - Fried, Frank, Harris, Shriver & Jacobson LLP, 1001 Pennsylvania Ave., NW, Suite 800, Wasington, DC 2004-2505; US

| | Country | Number | Kind | Date |
|-------------|---------|-------------|-------|----------|
| Patent | WO | 200522363 | A2-A3 | 20050310 |
| Applicatior | n WO | 2004US28620 | | 20040902 |
| Priorities | US | 2003499673 | | 20030902 |

Detailed Description:

TEVIIING MECHANISM AND DIRECT **MESSAGING** FOR ELECTRONIC TRADING PLATFORM TECM'qICAL FIELD The present invention relates to systems for trading financial instruments.

BACKGROUNDART

Financial markets function to bring together buyers... ...people have increasingly favored electronic trading systems over the older, manual methods of trading. Financial markets favor electronic trading systems as electronic trading systems offer**reduced** labor costs, **increased** accuracy,

real time market information and greater versatility in communications.

Electronic trading systems are well known in the art. For example, U.S. Patent No.

8/3K/7 (Item 6 from file: 349) DIALOG(R)File 349: PCT FULLTEXT (c) 2013 WIPO/Thomson. All rights reserved.

00388693

A MULTIPROCESSING SYSTEM HAVING PROCESSES THAT SHARE OBJECTS Patent Applicant/Patent Assignee:

- SUPERNAW-ISSEN Daniel Aaron
- McCARTNEY Michael David

Inventor(s):

- SUPERNAW-ISSEN Daniel Aaron
- McCARTNEY Michael David

| | Country | Number | Kind | Date |
|-------------|---------|----------|------|----------|
| Patent | WO | 9729436 | A1 | 19970814 |
| Application | WO | 97US2142 | | 19970204 |
| Priorities | US | 96599050 | | 19960209 |
| | US | 96599053 | | 19960209 |
| | US | 96599054 | | 19960209 |

Detailed Description:

...has been received, the method proceeds to step 180 where the process updates its current causal time stamp based on information in the object grant.

Updating the current causal **time stamp** will be discussed in **greater detail** with reference to Figure 5. Once the current causal time stamp is updated, the method proceeds to step 182 wherein the process invalidates any old Figure 6.

The method then continues to step 184 wherein the process updates its possession set to include the object received via the object grant **message**. In order to provide a weak consistency model with read-only objects, the process does not take ownership of the read-only objects but instead...

Potential References 13615419

8/9/7 (Item 6 from file: 349) DIALOG(R)File 349: PCT FULLTEXT (c) 2013 WIPO/Thomson. All rights reserved.

00388693

A MULTIPROCESSING SYSTEM HAVING PROCESSES THAT SHARE OBJECTS Patent Applicant/Patent Assignee:

- SUPERNAW-ISSEN Daniel Aaron
- McCARTNEY Michael David

Inventor(s):

- SUPERNAW-ISSEN Daniel Aaron
- McCARTNEY Michael David

| | Country | Number | Kind | Date |
|-------------|---------|----------|------|----------|
| Patent | WO | 9729436 | A1 | 19970814 |
| Application | WO | 97US2142 | | 19970204 |
| Priorities | US | 96599050 | | 19960209 |
| | US | 96599053 | [| 19960209 |
| | US | 96599054 | | 19960209 |

English Abstract:

A multiprocessing system that shares objects among a group of processes without centralized control of the objects may be accomplished by using a causal time stamp (706) for conveyance of information between members of group of processes. When a process receives an object request (408) from another process, wherein the objects request (408) includes identity (394, 396, 398) of the process requesting the object, a request causal time stamp (708), and the objects being requested, the receiving process updates its current causal time stamp and grant causal list. DETAILED DESCRIPTION OF THE DRAWINGS

The predetermined total ordering includes a causal connection order and predetermined ordti- will 'Oe discussed in ureater deta-i'l below.

Once the grant causal lists have been updated, the receiving process determines whether it has one of the needed objects being requested and the request is of a higher priority. If so, the receiving process generates a grant message for the requesting process.

The grant message includes a grant causal time stamp which is reflective of the current causal time stamp of the receiving process and the objects being granted. When the requesting process receives the object grant. it updates its possession set of objects to include the newly received objects and updates its current causal time stamp. If the

possession set includes all of the needed objects, the requesting process then utilizes the objects as needed.

8/9/2 (Item 1 from file: 350)DIALOG(R)File 350: Derwent WPIX(c) 2013 Thomson Reuters. All rights reserved.

0015589284 Drawing available

WPI Acc no: 2006-153449/200616 XRPX Acc No: N2006-132573

Communication device for distributed control system, has communication controller automatically storing time stamp values in response to event pulses corresponding to events associated with received and transmittedmessages Patent Assignee: BENSON R R (BENS-I); FISHER-ROSEMOUNT SYSTEMS INC (ROEC); FRANCHUK B A (FRAN-I)

Patent Family (9 patents, 110 countries) Application Patent Number Kind Update Type Date Kind Date Number 20060202 US 2004903317 20040730 200616 B US 20060026314 A1 Α WO 2006020278 A2 20060223 WO 2005US25506 Α 20050715 200616 E Α EP 1784739 A2 20070516 EP 2005773007 20050715 200734 E WO 2005US25506 А 20050715 W 20080321 WO 2005US25506 20050715 200823 E JP 2008508796 Α JP 2007523634 Α 20050715 20050715 200925 E CN 101390072 А 20090318 CN 200580032849 Α WO 2005US25506 Α 20050715 20100330 US 2004903317 20040730 201023 E US 7689687 B2 Α JP 4847955 20050715 201203 E B2 20111228 WO 2005US25506 Α JP 2007523634 Α 20050715 WO 2006020278 A3 20070301 WO 2005US25506 Α 20050715 201224 E 20050715 201257 E В 20120530 CN 200580032849 Α CN 101390072 Α 20050715 WO 2005US25506

Inventor: BENSON R R; FRANCHUK B A; BENSON R; FRANCHUK B

Alerting Abstract US A1

NOVELTY - A medium attachment unit (MAU) receives and transmits **messages** on communication medium. A CPU processes data in received **messages** and creates data to be contained in **messages** to be transmitted. A communication controller interfacing between MAU and CPU, produces event pulses corresponding to events associated with received and transmitted **messages** and automatically stores time stamp values in response to event pulses.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. method of time stamping **messages**; and

2. device for time stamping messages.

USE - For use in field instruments and other devices e.g. analytical equipment, silicon pressure sensor, capacitive pressure sensor, resistive temperature detector, thermocouple, strain gauge, limit switch, on/off switch, flow transmitter, pressure transmitter, capacitance level switch, weigh scale, transducer, valve positioner, valve controller, actuator, solenoid and indicator light of process control systems and distributed control system (DCS) in industrial plant, for

communicating **messages**comprising secondary process variables, diagnostic information e.g. sensor, device, wiring and process diagnostics, operating temperature, sensor temperature, calibration information, device identification (ID) number, materials of construction, configuration or programming information over communication medium. ADVANTAGE - Automatic time stamping in communication controller, eliminates the software overhead required to do all the calculations and encoding

of **time stamp data** and greatly **increases** accuracy of **time stamp** values. Frees the application processor or CPU to perform other functions, since communication controller performs processing of **messages** and timer management.

11/5/6 (Item 2 from file: 60) DIALOG(R)File 60: ANTE: Abstracts in New Tech & Engineer (c) 2013 CSA. All rights reserved.

0001943543 IP Accession No: 20081897044 Method and system for prevention of network denial-of-service attacks

Grimm, Martin; Barfield, Brad; Fritzges, Eric; Prasad, Hema; Branum Jr, Robert R , USA

Publisher Url: http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u =/netaht ml/PTO/searchadv.htm&r=1&p=1&f=G&I=50&d=PTXT&S1=74 24741.PN.&OS=pn/7424741& RS=PN/7424741

Document Type: Patent Record Type: Abstract Language: English File Segment: ANTE: Abstracts in New Technologies and Engineering

Abstract:

An approach for preventing denial-of-service attacks on Secure Sockets Layer ('SSL') protocol is described. Queues are generated for handshake state connections and data transmission connections. A connection object representing a new SSL connection is time-stamped as it enters the handshake portion of the SSL protocol. A connection pointer to the connection object is placed at the head of the handshake queue. As new SSL **messages** are transferred between client and SSL server, the **time**-**stamp** is **updated** when the entire **message** is received, the connection pointer is repositioned to the head of the queue. A timer event periodically surveys the queues. If connection packet transmission gaps remain below a specified maximum handshake gap **time**, a connection is allowed to **progress** to the **data** transmission state. If any connection **exceeds**the **specified** gap **time**, the SSL connection is dropped.

Descriptors: Joints; Queues; **Messages**; Data transmission; Timing devices; Sockets ; Packet transmission; United States; Servers; Gaps; Networks; Surveys

Inventors: Grimm; Martin (Suwanee, GA), Barfield; Brad (Gainesville, GA), Fritzges; Eric (Austell, GA), Prasad; Hema (Alpharetta, GA), Branum, Jr.; Robert R. (Roswell, GA)

Assignee: Cisco Technology, Inc. (San Jose, CA)

Appl. No.: 10/152,541

Filed: May 20, 2002

8/9/3 (Item 2 from file: 350)DIALOG(R)File 350: Derwent WPIX(c) 2013 Thomson Reuters. All rights reserved.

0013660944 Drawing available

WPI Acc no: 2003-757198/200371

XRPX Acc No: N2003-606787

Video signal format inversion method, involves attaching information indicating frame position of video signal whose video data varied due to format conversion to time code signal corresponding to video signal

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU); MATSUSHITA ELECTRIC IND CO LTD (MATU)

Inventor: HOSODA T; SHIMAMURA Y; UENO M; UJI K; URO K Patent Family (5 patents 29 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Туре |
|----------------|------|----------|-----------------------|------|----------|--------|------|
| WO 2003079685 | A1 | 20030925 | WO 2003JP2977 | Α | 20030313 | 200371 | В |
| JP 2003274370 | A | 20030926 | JP 200276104 | Α | 20020319 | 200373 | E |
| EP 1487209 | A1 | 20041215 | EP 2003710333 | Α | 20030313 | 200482 | E |
| | | | WO 2003JP2977 | Α | 20030313 | | |
| US 20050162546 | A1 | 20050728 | WO 2003JP2977 | Α | 20030313 | 200550 | E |
| | | | US 2004508051 | Α | 20040917 | | |
| US 7310117 | B2 | 20071218 | WO 2003JP2977 | Α | 20030313 | 200802 | E |
| | | | US 2004508051 | Α | 20040917 | | |

Alerting Abstract WO A1

NOVELTY - The information indicating synchronism state between the frame conversion period at the time of a video signal format conversion and a time code process, and frame position of the video signal whose video data varied due to the conversion, are attached to and transmitted along with the time code signal corresponding to the video signal. The time code signal is utilized for inversion of the video signal.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1. a time code signal transmission method; and
- 2. a time code transmitting apparatus.

USE - For format inversion of video signal.

ADVANTAGE - Relationship between the frame position and time code is grasped precisely. Inversion is precisely implemented.

Original Abstract:

When a time code signal corresponding to an image signal, to which a format conversion changing the number of frames per second is executed, is transmitted, information indicating a frame position where image data is changed through the format conversion in the image signal is attached to the time code signal to be transmitted. Alternatively, information indicating a synchronous state between frame conversion cycles in the format conversion and time code progression is attached to the time code signal. In the foregoingmanner, a relationship between the frame position and the time code can be accurately grasped. Further, a secondary conversion (inverse conversion) is accurately executed to the image signal by means of the time code signal.

Claim:

1. A time code signal transmission method for transmitting a time code signal corresponding to an image signal, to which a format conversion changing the number of frames per second is executed to, wherein

information indicating a frame position where image data is changed in the image signal through the format conversion is attached to the time code signal to be transmitted.

Search Strategy 13615419

| File 347:JAPIO Dec 1976-2012/OCT(Updated 20130130) | |
|---|--|
| (c) 2013 JPO & JAPIO File 350:Derwent WPIX 1963-2013/UD=201311 | |
| (c) 2013 Thomson Reuters Set Items Description | |
| S1 3779236 (TEXT? OR SMS OR SHORT()MESSAGE()SERVICE OR IM OR IMESSAGE? ? OR I(1W)MESSAGE? ? OR BBM OR MMS OR MESSAG?) | |
| S2 36703 (TIMECOD? OR TIMESTAMP? OR TIMEMARK? OR TIMEFLAG? OR (TIME? ?)(1W)(COD? OR STAMP? OR MARK? OR FLAG?)) | |
| S3 5318 S2(5N) (CHANG? OR ALTER? OR MODIF? OR ADJUST? OR UPDAT? OR - REWRIT? OR REWRITTEN OR CONVER? OR TRANSFORM? OR INCREAS? OR - DECREAS? OR REDUC? OR ENLARG? OR GROW? OR SHRINK? OR REVIS?) | |
| S4 1734599 (DETAIL? OR PERSONALIZ? OR SPECIFI? OR DATA OR DATUM OR IN- FORMATION OR CONTENT? ? OR INFO OR DOCUMENT? ? OR RECORD? ? OR OBJECT? ?)(5N)(EXTRA OR ADDITIONAL? OR EXCESS? OR RESERVE OR RESERVES OR MORE OR ADDED OR ANOTHER OR GREATER OR HIGHER OR – MORE OR EXCEED??? OR ENLARG? OR INCREAS? OR EXPAND? OR MAGNIF? OR STRETCH? OR EXTEND? OR LARGER OR LARGE OR BIG OR BIGGER OR RAIS? OR GROW? OR GREW OR GAIN? OR AMASS? OR INFLAT? OR BOOS- T? OR INCREMENT? OR HIGH?) S5 235 S3(7N)S4 | |
| S6 1214724 (TIME? ? OR CLOCKING? ? OR INTERVAL OR INTERVALS OR PERIOD OR PERIODS OR SEGMENT OR SEGMENTS OR PORTION OR PORTIONS OR P- HASE? ? OR CLOCK? ? OR DAYLIGHT (1W) SAVINGS OR DST OR ZONE? ?)- (5N) (PASS? OR PROGRESS OR ADVANCE OR ADVANCING OR COURSE? ? OR DEVELOPMENT OR EVOLUTION OR EVOLVEMENT OR GROWTH OR HEADWAY - OR IMPROVEMENT OR INCREASE? ? OR JOURNEY? ? OR MOVEMENT? ? OR PASSAGE OR PROGRESSION OR PROMOTION OR RATE? ? OR EXCEED? OR - GREAT OR GREATER OR BEYOND OR TOP OR TOPS OR TOPPING OR TOPPED OR OVERGROW? OR OVERSTEP? OR OVERTAK? OR OVERTOOK OR (OVER(1- W) (STEP OR STEPPING OR STEPPED OR STEPS OR TAKE OR TOOK OR TA- KES OR TAKING)) OR SURPASS? OR TRANSCEND? OR GROW OR GROWS OR GROWING OR GREW OR PAST) | |
| S7 38 S1 AND S5 AND S6 S8 9 (S7 AND PY=1963:2004) OR (S7 AND AY=1963:2004 AND AC=US) | |
| | |
| File 8:Ei Compendex(R) 1884-2013/Feb W3 | |
| <pre>(c) 2013 Elsevier Eng. Info. Inc. File 35:Dissertation Abs Online 1861-2012/Dec (c) 2012 ProQuest Info&Learning</pre> | |
| File 65:Inside Conferences 1993-2013/Feb 20 (c) 2013 BLDSC all rts. reserv. | |
| File 2:INSPEC 1898-2013/Feb W2 (c) 2013 The IET | |
| File 6:NTIS 1964-2013/Feb W2 (c) 2013 NTIS, Intl Cpyrght All Rights Res | |
| File 144:Pascal 1973-2013/Feb W2 (c) 2013 INIST/CNRS | |
| File 34:SciSearch(R) Cited Ref Sci 1990-2013/Feb W3 (c) 2013 The Thomson Corp | |
| File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec (c) 2006 The Thomson Corp | |
| File 99:Wilson Appl. Sci & Tech Abs 1983-2011/Nov (c) 2012 The HW Wilson Co. | |

File 266:FEDRIP 2013/Dec Comp & dist by NTIS, Intl Copyright All Rights Res File 95:TEMA-TECHNOLOGY & MANAGEMENT 1989-2010/OCTW3 (c) 2012 WTI-FRANKFURT File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13 (c) 2002 Gale/Cengage File 56:Computer and Information Systems Abstracts 1966-2013/Feb (c) 2013 CSA. File 60:ANTE: Abstracts in New Tech & Engineer 1966-2013/Mar (c) 2013 CSA. Set Items Description (TEXT? OR SMS OR SHORT()MESSAGE()SERVICE OR IM OR IMESSAGE? S1 2747006 ? OR I(1W)MESSAGE? ? OR BBM OR MMS OR MESSAG?) (TIMECOD? OR TIMESTAMP? OR TIMEMARK? OR TIMEFLAG? OR (TIME? S2 95798 ?) (1W) (COD? OR STAMP? OR MARK? OR FLAG?)) S2(5N)(CHANG? OR ALTER? OR MODIF? OR ADJUST? OR UPDAT? OR -S3 11766 REWRIT? OR REWRITTEN OR CONVER? OR TRANSFORM? OR INCREAS? OR -DECREAS? OR REDUC? OR ENLARG? OR GROW? OR SHRINK? OR REVIS?) S4 3777978 (DETAIL? OR PERSONALIZ? OR SPECIFI? OR DATA OR DATUM OR IN-FORMATION OR CONTENT? ? OR INFO OR DOCUMENT? ? OR RECORD? ? OR OBJECT? ?)(5N)(EXTRA OR ADDITIONAL? OR EXCESS? OR RESERVE OR RESERVES OR MORE OR ADDED OR ANOTHER OR GREATER OR HIGHER OR -MORE OR EXCEED ??? OR ENLARG? OR INCREAS? OR EXPAND? OR MAGNIF? OR STRETCH? OR EXTEND? OR LARGER OR LARGE OR BIG OR BIGGER OR RAIS? OR GROW? OR GREW OR GAIN? OR AMASS? OR INFLAT? OR BOOS-T? OR INCREMENT? OR HIGH?) S5 S3(7N)S4 203 S6 2566349 (TIME? ? OR CLOCKING? ? OR INTERVAL OR INTERVALS OR PERIOD OR PERIODS OR SEGMENT OR SEGMENTS OR PORTION OR PORTIONS OR P-HASE? ? OR CLOCK? ? OR DAYLIGHT(1W)SAVINGS OR DST OR ZONE? ?)-(5N) (PASS? OR PROGRESS OR ADVANCE OR ADVANCING OR COURSE? ? OR DEVELOPMENT OR EVOLUTION OR EVOLVEMENT OR GROWTH OR HEADWAY -OR IMPROVEMENT OR INCREASE? ? OR JOURNEY? ? OR MOVEMENT? ? OR PASSAGE OR PROGRESSION OR PROMOTION OR RATE? ? OR EXCEED? OR -GREAT OR GREATER OR BEYOND OR TOP OR TOPS OR TOPPING OR TOPPED OR OVERGROW? OR OVERSTEP? OR OVERTAK? OR OVERTOOK OR (OVER(1-W) (STEP OR STEPPING OR STEPPED OR STEPS OR TAKE OR TOOK OR TA-KES OR TAKING)) OR SURPASS? OR TRANSCEND? OR GROW OR GROWS OR GROWING OR GREW OR PAST) S7 3 S1 AND S5 AND S6 S8 2 RD (unique items) 25 S1 AND S3 AND S4 AND S6 S9 S10 12 S9 NOT PY=2005:2013 S11 6 RD (unique items) File 348: EUROPEAN PATENTS 1978-201302

(c) 2013 European Patent Office File 349:PCT FULLTEXT 1979-2013/UB=20130214|UT=20130207 (c) 2013 WIPO/Thomson Set Items Description S1 1756086 (TEXT? OR SMS OR SHORT()MESSAGE()SERVICE OR IM OR IMESSAGE? ? OR I(1W)MESSAGE? ? OR BBM OR MMS OR MESSAG?) S2 61844 (TIMECOD? OR TIMESTAMP? OR TIMEMARK? OR TIMEFLAG? OR (TIME? ?) (1W) (COD? OR STAMP? OR MARK? OR FLAG?)) 10657 S2(5N) (CHANG? OR ALTER? OR MODIF? OR ADJUST? OR UPDAT? OR -S3

| S 4 | REWRIT? OR REWRITTEN OR CONVER? OR TRANSFORM? OR INCREAS? OR - DECREAS? OR REDUC? OR ENLARG? OR GROW? OR SHRINK? OR REVIS?) 1986581 (DETAIL? OR PERSONALIZ? OR SPECIFI? OR DATA OR DATUM OR IN- FORMATION OR CONTENT? ? OR INFO OR DOCUMENT? ? OR RECORD? ? OR OBJECT? ?)(5N)(EXTRA OR ADDITIONAL? OR EXCESS? OR RESERVE OR RESERVES OR MORE OR ADDED OR ANOTHER OR GREATER OR HIGHER OR - MORE OR EXCEED??? OR ENLARG? OR INCREAS? OR EXPAND? OR MAGNIF? OR STRETCH? OR EXTEND? OR LARGER OR LARGE OR BIG OR BIGGER OR RAIS? OR GROW? OR GREW OR GAIN? OR AMASS? OR INFLAT? OR BOOS- |
|----------|---|
| | T? OR INCREMENT? OR HIGH?) |
| S5 | 500 S3(7N)S4 |
| S6 | 1126391 (TIME? ? OR CLOCKING? ? OR INTERVAL OR INTERVALS OR PERIOD |
| | OR PERIODS OR SEGMENT OR SEGMENTS OR PORTION OR PORTIONS OR P- |
| | HASE? ? OR CLOCK? ? OR DAYLIGHT(1W)SAVINGS OR DST OR ZONE? ?)- |
| | (5N)(PASS? OR PROGRESS OR ADVANCE OR ADVANCING OR COURSE? ? OR |
| | DEVELOPMENT OR EVOLUTION OR EVOLVEMENT OR GROWTH OR HEADWAY - |
| | OR IMPROVEMENT OR INCREASE? ? OR JOURNEY? ? OR MOVEMENT? ? OR |
| | PASSAGE OR PROGRESSION OR PROMOTION OR RATE? ? OR EXCEED? OR - |
| | GREAT OR GREATER OR BEYOND OR TOP OR TOPS OR TOPPING OR TOPPED |
| | OR OVERGROW? OR OVERSTEP? OR OVERTAK? OR OVERTOOK OR (OVER(1- |
| | W) (STEP OR STEPPING OR STEPPED OR STEPS OR TAKE OR TOOK OR TA- |
| | KES OR TAKING)) OR SURPASS? OR TRANSCEND? OR GROW OR GROWS OR |
| S7 | GROWING OR GREW OR PAST) |
| 57 58 | 15 S1 (50N) S5 (50N)S6 7 (S7 AND PY=1978:2004) OR (S7 AND (AC=US/PR) AND AY=1978:20- |
| 00 | (57 AND P1=1978:2004) OR (57 AND (AC=05/PR) AND A1=1978:20- |
| | |



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 2640

| SERIAL NUMI 13/615,419 | 1235 | FILING or 371(c) DATE 09/13/2012 | | CLASS 709 | GR | 2457 | | N | |
|---|---|--|--------------------|-------------------------------------|--|----------------------|--------------|---|----------------------------|
| | | RULE | | | | | | | |
| Christoph Lawrence | D. Klass er R. W E. Kuh G DATA | sen, Waterloo, CANA /ormald, Kitchener, C II, Waterloo, CANAD/ A ************************************ | ANADA A; *** | n an ann - March Street - Los March | 713 | | | | |
| This application is a CON of 13/111,675 05/19/2011 PAT 8,301,713 which is a CON of 10/944,925 09/20/2004 PAT 7,970,849 which claims benefit of 60/504,379 09/19/2003 ** FOREIGN APPLICATIONS | | | | | | | | | |
| | D, FOR | EIGN FILING LICEN | | | | | | | |
| | | CLAI/ md | after wance | STATE OR COUNTRY CANADA | 1. | HEETS AWINGS 7 | TOT CLAII | MS | INDEPENDENT CLAIMS 3 |
| 199 BAY | STREE | Graydon LLP T , SUITE 4000 DURT WEST M5L 1A9 | | | | | | | |
| TITLE Handheld | Electro | onic Device and Asso | ciated N | lethod Providing | Time | Data in a | Messag | ing Er | nvironment |
| | | Authority has been g | | | | All Fe | ees (Fil | U, | ing Ext. of time |
| RECEIVED | No | to charge/ for following | credit DE | | NT | 🗅 1.18 F | ees (lss | 100000000000000000000000000000000000000 | ing Ext. of time) |
| | | | | | | Other | | | |

BIB (Rev. 05/07).

| | | 0/-1 | Application/C | Control No. | Applicant(s Reexamina | s)/Pat ition | ent Unde | r | | |
|--------|------------|----------------|------------------------|-------------|--------------------------|-----------------|----------------|--------|--|--|
| In | dex of (| claims | 13615419 | 13615419 | | | KLASSEN ET AL. | | | |
| | | | Examiner | | Art Unit | | | | | |
| | | | MICHAEL C L | AI | 2457 | | | | | |
| ✓ F | Rejected | - | Cancelled | N Non-El | ected | A | Арр | Appeal | | |
| = | Allowed | ÷ | Restricted | I Interfe | rence | 0 | Obje | cted | | |
| Claims | renumbered | in the same or | der as presented by ap | plicant [|] CPA [|] T.D | | R.1.47 | | |
| CL | AIM | | | DATE | | | | | | |
| Final | Original | 02/25/2013 | | | | 1 | | | | |
| | 1 | × | | | | | | | | |
| | 2 | ✓ | | | | | | | | |
| | 3 | × | | | | | | | | |
| | 4 | × | | | | | | | | |
| | 5 | 1 | | | | | | | | |
| | 6 | × | | | | | | | | |
| | 7 | 1 | | | | | | | | |
| | 8 | 1 | | | 2 | | | | | |
| | 9 | ¥ | | | | | | | | |
| | 10 | ¥ | | | | | | | | |
| | 11 | × | | | | | | | | |
| 6 | 12 | × . | | | | | | | | |
| | 13 | ✓ | | | | | | | | |
| | 14 | × | | | 5 | | | | | |
| | 15 | × | | | | | | | | |
| | 16 | 1 | | | | | | | | |
| | 17 | | | | | | | | | |

U.S. Patent and Trademark Office

SIRA : Scientific and Technical Information Center : 2400 Sear... Page 1 of 2

2400 Search Request

Your 2400 Search Request has been emailed to STIC's EIC2100.

PIEASEPRINT THIS PAGE NOW

In the unlikely event of an email failure, this printed page can serve as a hard copy request.

If you **do not** receive a "Confirmation Receipt" email within the next 60 seconds, please bring this printed page to <u>EIC2100</u>.

Thank you for using STIC services.

Requester -----

Name: LAI MICHAEL C Organization: TC 2400 Art Unit: 2457 Employee Number: 83816 Office Location: RND-4A81 Phone Number: (571)270-3236 Email: michael.lai@uspto.gov

Request Detail -----

Attachment: No

Case/Application number: 13/615,419 PALM Priority App. Filing Date: 09-20-2004 Format for Search Results: EMAIL Board of Appeals Case?: No

Synonyms: instant messages, conversation, time or time stamp, display, time change

Describe this invention in your own words.: A method of displaying an instant messaging conversation on a display of an electronic device, the method comprising:

displaying a conversation of instant messages;

displaying a first time information for an instant message in the conversation in response to a first input;

changing the first time information for the instant message to a second time information as time progresses; and

displaying the second time information in response to a second input.

For exmple:

"2:44 pm" ==> as time progresses to next day: "2:44 pm yesterday" or "2:44 pm Thursday" or "2:44 pm September 17, 2004"

Terms to avoid:

Additional Comments:

This is a fast and focus search request.

See Fig. 4 and claim 1.

Request Date: Wednesday, February 20, 2013 8:30 AM

Make Another Request

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.L./

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. 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

| Substitute for form 1449/PTO Application Number 13/615,419 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Filing Date September 13, 2012 (Use as many sheets as necessary) Filing Date September 13, 2012 Sheet 1 of 3 | | | | | Complete if Known | | | |
|---|-----------------------------------|----------------------|--------|------|------------------------|---------------------|--|--|
| INFORMATION DISCLOSURE First named Inventor KLASSEN, Gerhard D. STATEMENT BY APPLICANT Art Unit 2859 (Use as many sheets as necessary) Examiner Name Not yet assigned | Substitu | te for form 1449/PTO | | | Application Number | 13/615,419 | | |
| STATEMENT BY APPLICANT First named Inventor KLASSEN, Gerhard D. (Use as many sheets as necessary) Examiner Name Not yet assigned Attorney Docket Number 70314/01061 | INF | ORMATION | DISCLO | SURE | Filing Date | September 13, 2012 | | |
| (Use as many sheets as necessary) Examiner Name Not yet assigned Attorney Docket Number 70314/01061 | | | | | First named Inventor | KLASSEN, Gerhard D. | | |
| Attorney Docket Number 70314/01061 | 51 | ALEMENTR | | CAN | Art Unit | 2859 | | |
| Sheet 1 of 3 Attorney Docket Number 70314/01061 | (Use as many sheets as necessary) | | | | Examiner Name | Not yet assigned | | |
| | Shoot | 4 | of | 2 | Attorney Docket Number | 70314/01061 | | |
| | Slieet | 1 | or | 3 | | | | |

| | | | U.S. PATEN | T DOCUMENTS | |
|-----------|--------------------|--|------------------|-----------------------------|--|
| Examiner | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where |
| Initials* | No.1 | Number-Kind Code ^{2 (if known)} | MM-DD-YYYY | Applicant of Cited Document | Relevant Passages or Relevant Figures Appear |
| | | US-2002/0075303 A1 | 06-20-2002 | THOMPSON et al. | |
| | | US-2003/0134616 A1 | 07-17-2003 | THOMSEN et al. | |
| | an alara atana ara | US-2002/0087649 A1 | 07-04-2002 | HORVITZ | |
| | | US-2003/0001890 A1 | 01-02-2003 | BRIN | |
| | | US-2003/0060240 A1 | 03-27-2003 | GRAHAM et al. | |
| | | US-2003/0104841 A1 | 06-05-2003 | YAMAMOTO | |
| | | US-2004/0137967 A1 | 07-15-2004 | BODLEY et al. | |
| | | US-2004/0228531 A1 | 11-18-2004 | FERNANDEZ et al. | |
| | | US-6,301,609 B1 | 10-09-2001 | ARAVAMUDAN et al. | |
| | | US-6,590,529 B2 | 07-08-2003 | SCHWOEGLER et al. | |
| | | US-6,636,243 B1 | 10-21-2003 | MACPHAIL | |
| | | US-6,889,063 B2 | 05-03-2005 | YAMADA | |
| | | US-7,043,530 B2 | 05-09-2006 | ISAACS et al. | |
| | - | US-7,099,700 B2 | 08-29-2006 | HWANG et al. | |
| | | US-7,111,044 B2 | 09-19-2006 | LEE | 1995 - 19 |
| | | US-7,181,497 B1 | 02-20-2007 | APPELMAN et al. | |

| | FOREIGN PATENT DOCUMENTS | | | | | | | | | |
|-----------|--------------------------|---------|---------------------------------------|-----------------------------------|---------------------|-----------------------------|--|------------------------|--|--|
| Examiner | Cite | Foreign | Patent Document | | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where Relevant | | | |
| Initials* | No. ¹ | Country | Code ³ Number ⁴ | Kind-Code ⁵ (if known) | MM-DD-YYYY | Applicant of Cited Document | Passages or Relevant Figures Appear | T6 | | |
| | | WO | 2004/064362 | A1 | 07-29-2004 | GN NETCOM A/S | | | | |
| | | WO | 02/65250 | A2 | 08-22-2002 | INVERTIX CORPORATION | | | | |
| | | WO | 01/30091 | A1 | 04-26-2001 | MOTOROLA, INC. | | | | |
| | | WO | 02/21413 | A2 | 03-14-2002 | ZAPLET, INC. | | | | |
| | | GB | 2384150 | A | 07-16-2003 | NEC CORPORATION | | - And Address of Color | | |
| | 1 | GB | 2350746 | A | 12-06-2000 | NEC CORPORATION | | 1 | | |

| Examiner Signature | /Michael Lai/ | Date Considered | 02/19/2013 | |
|-----------------------|---------------|--------------------|------------|--|
|-----------------------|---------------|--------------------|------------|--|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicants' unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <u>www.uspto</u> gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.L./

PTO/SB/08A (08-03) Approved for use through 07/31/2006. 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.

| | | | | | Complete if Known |
|-----------------------------------|-----------------------|---------|------|------------------------|---------------------|
| Substit | ute for form 1449/PTO | | | Application Number | 13/615,419 |
| INI | | | CUDE | Filing Date | September 13, 2012 |
| INFORMATION DISCLOSURE | | | | First named Inventor | KLASSEN, Gerhard D. |
| SI | ATEMENT B | Y APPLI | CANI | Art Unit | 2859 |
| (Use as many sheets as necessary) | | | | Examiner Name | Not yet assigned |
| Sheet | | of | 2 | Attorney Docket Number | 70314/01061 |
| Sneet | 2 | 01 | 3 | | |

U.S. PATENT DOCUMENTS

| | n | | 0.0.TATEN | DOCOMENTO | | |
|--------------|------------------|--|---|-----------------------------|---|--|
| Examiner | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | |
| Initials* | No.1 | Number-Kind Code ^{2 (if known)} | MM-DD-YYYY | Applicant of Cited Document | | |
| | | 7,236,472 B2 | 06-26-2007 | LAZARIDIS et al. | | |
| | | 7,305,441 B2 | 12-04-2007 | MATHEWSON II et al. | | |
| | | | | | | |
| | | | and the second se | | | |
| | - | | | | | |
| | | | | | | |
| | | | | | | |
| 3.6.9 | | | | | | |
| | | | | | | |
| 1415411078.5 | | 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 | | | | |
| | | | 2 - 20 | | | |
| | | | <u> </u> | | | |
| | al the source of | | Contraction and in | | | |

| Examiner | Cite No.1 | | | | | Name of Patentee or | Pages, Columns, Lines, Where Relevant Passages or Relevant | |
|-----------|--------------|---|-----------|----------------------------------|------------|----------------------------------|--|-----------------------|
| Initials* | | Country Code ³ Number ⁴ | | Kind-Code ⁶ (# known) | MM-DD-YYYY | Applicant of Cited Document | Figures Appear | T ⁶ |
| | | EP | 1176840 | A1 | 01-30-2002 | MICROSOFT CORPORATION | | |
| | | EP | 0743762 | A2 | 11-20-1996 | NEC CORPORATION | | |
| | | JP | 200311145 | A | 12-26-1990 | MATSUSHITA ELECTRIC WORKS LTD | | |
| | | | | | | | | |

| Examiner | (Stichers) sil | Date | 00/10/0012 | 11000000 |
|-----------|------------------|------------|------------|----------|
| Signature | /Michael Lai/ | Considered | 02/19/2013 | |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicants' unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <u>www.uspto</u> gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.L./

PTO/SB/08A (08-03)

Approved for use through 07/31/2006, OMB 0651-0031 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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

| | | | | Complete if Known | | | |
|---------|-----------------------------------|--------|--------|--|---------------------|--|--|
| Substit | ute for form 1449/PTO | | | Application Number | 13/615,419 | | |
| INF | ORMATION | | SUPE | Filing Date | September 13, 2012 | | |
| | | | | First named Inventor | KLASSEN, Gerhard D. | | |
| 51 | ATEMENT B | Y APPL | ICAN I | Art Unit | 2859 | | |
| | (Use as many sheets as necessary) | | | Examiner Name | Not yet assigned | | |
| Sheet | 2 | of | o | Attorney Docket Number | 70314/01061 | | |
| Sheet | 3 | OT | 3 | A DESCRIPTION OF A DESC | | | |

NON PATENT LITERATURE DOCUMENTS

| LASTORIA, Gianluca; Search Report from corresponding European Application No. 10172832.7; search completed October 1, 2010 VARMA, S.; Search Report from corresponding PCT Application No. PCT/CA2004/001712; search completed December 1, 2004 Image: Search Report from corresponding PCT Application No. PCT/CA2004/001712; search completed December 1, 2004 Image: Search Report from corresponding PCT Application No. PCT/CA2004/001712; search completed December 1, 2004 Image: Search Report from corresponding PCT Application No. PCT/CA2004/001712; search completed December 1, 2004 Image: Search Report from corresponding PCT Application No. PCT/CA2004/001712; search completed December 1, 2004 Image: Search Report from corresponding PCT Application No. PCT/CA2004/001712; search completed December 1, 2004 Image: Search Report from corresponding PCT Application No. PCT/CA2004/001712; search completed December 1, 2004 Image: Search Report from corresponding PCT Application No. PCT/CA2004/001712; search completed December 1, 2004 Image: Search Report from corresponding PCT Application No. PCT/CA2004/001712; search completed December 1, 2004 Image: Search Report from corresponding PCT Application No. PCT/CA2004/001712; search Report Application No. PCT/CA2004/001712; search Re | Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalogue, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | τ ² |
|---|-----------------------|--------------------------|--|----------------|
| completed December 1, 2004 | | | LASTORIA, Gianluca; Search Report from corresponding European Application No. 10172832.7; search completed October 1, 2010 | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Examiner Date | | | | |

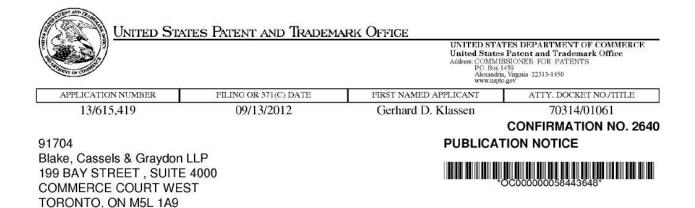
 Examiner
 /Michael Lai/
 Date
 02/19/2013

 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹

 Applicants' unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C> 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the

completed application form to 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Title:Handheld Electronic Device and Associated Method Providing Time Data in a Messaging Environment

Publication No.US-2013-0002681-A1 Publication Date:01/03/2013

CANADA

NOTICE OF PUBLICATION OF APPLICATION

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.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. 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.

| Substitute for fo | rm 1449/PTO | | | The second se | | |
|-----------------------------------|-------------|----------|------|---|---------------------|-------|
| | | | | Application Number | 13/615,419 | |
| INFOR | MATION | DISCLO | SURE | Filing Date | September 13, 2012 | |
| | | | | First named Inventor | KLASSEN, Gerhard D. | |
| STATE | MENT B | Y APPLIC | JANI | Art Unit | 2859 | |
| (Use as many sheets as necessary) | | | | Examiner Name | Not yet assigned | |
| Sheet | 1 | of | 2 | Attorney Docket Number | 70314/01061 | |
| Sileet | I | OT | 3 | | | 10.00 |

| | | | U.S. PATEN | T DOCUMENTS | |
|---|--|---|------------------|-----------------------------|---|
| Examiner | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where Relevant Passages or Relevant |
| Initials* | No.1 | Number-Kind Code ^{2 (# known)} | MM-DD-YYYY | Applicant of Cited Document | Figures Appear |
| | | US-2002/0075303 A1 | 06-20-2002 | THOMPSON et al. | |
| | | US-2003/0134616 A1 | 07-17-2003 | THOMSEN et al. | |
| | an ann an ann an an an an an an an an an | US-2002/0087649 A1 | 07-04-2002 | HORVITZ | |
| 17 | | US-2003/0001890 A1 | 01-02-2003 | BRIN | |
| | | US-2003/0060240 A1 | 03-27-2003 | GRAHAM et al. | |
| | | US-2003/0104841 A1 | 06-05-2003 | YAMAMOTO | |
| | | US-2004/0137967 A1 | 07-15-2004 | BODLEY et al. | |
| | | US-2004/0228531 A1 | 11-18-2004 | FERNANDEZ et al. | |
| | | US-6,301,609 B1 | 10-09-2001 | ARAVAMUDAN et al. | |
| | | US-6,590,529 B2 | 07-08-2003 | SCHWOEGLER et al. | |
| 010000000000000000000000000000000000000 | | US-6,636,243 B1 | 10-21-2003 | MACPHAIL | |
| | | US-6,889,063 B2 | 05-03-2005 | YAMADA | |
| | | US-7,043,530 B2 | 05-09-2006 | ISAACS et al. | 2 |
| | | US-7,099,700 B2 | 08-29-2006 | HWANG et al. | |
| | | US-7,111,044 B2 | 09-19-2006 | LEE | 100 - |
| | | US-7,181,497 B1 | 02-20-2007 | APPELMAN et al. | |

| | FOREIGN PATENT DOCUMENTS | | | | | | | | | |
|-----------|--------------------------|---------|---------------------------------------|-----------------------------------|---------------------|-----------------------------|--|--|--|--|
| Examiner | Cite | Foreign | Patent Document | | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where Relevant | | | |
| Initials* | No.1 | Country | Code ³ Number ⁴ | Kind-Code ⁶ (if known) | MM-DD-YYYY | Applicant of Cited Document | Passages or Relevant Figures Appear | ant T ⁶ | | |
| | | WO | 2004/064362 | A1 | 07-29-2004 | GN NETCOM A/S | | | | |
| | | WO | 02/65250 | A2 | 08-22-2002 | INVERTIX CORPORATION | | | | |
| | | WO | 01/30091 | A1 | 04-26-2001 | MOTOROLA, INC. | | | | |
| | | WO | 02/21413 | A2 | 03-14-2002 | ZAPLET, INC. | | - (<u>8.0</u> 3 | | |
| | | GB | 2384150 | A | 07-16-2003 | NEC CORPORATION | | and a second | | |
| | 1 | GB | 2350746 | A | 12-06-2000 | NEC CORPORATION | | 1 = 110000 | | |

| Examiner | Date | |
|-----------|------------|--|
| Signature | Considered | |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicants' unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <u>www.uspto</u> gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (08-03) Approved for use through 07/31/2006. 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.

| | | | | Complete if Known | | |
|-----------------------------------|---|----|------|------------------------|---------------------|---|
| Substitute for form 1449/PTO | | | | Application Number | 13/615,419 | 1 |
| INFORMATION DISCLOSURE | | | | Filing Date | September 13, 2012 | |
| | | | | First named Inventor | KLASSEN, Gerhard D. | |
| STATEMENT BY APPLICANT | | | | Art Unit | 2859 | |
| (Use as many sheets as necessary) | | | ary) | Examiner Name | Not yet assigned | |
| Chaot | | | 2 | Attorney Docket Number | 70314/01061 | |
| Sheet | 2 | of | 3 | | | - |

U.S. PATENT DOCUMENTS

| Cite | Cite Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where Relevant Passages or Relevant | | | |
|------------------|---|--|--|---|--|--|--|
| No. ¹ | Number-Kind Code ^{2 (If known)} | MM-DD-YYYY | Applicant of Cited Document | Figures Appear | | | |
| | 7,236,472 B2 | 06-26-2007 | LAZARIDIS et al. | | | | |
| | 7,305,441 B2 | 12-04-2007 | MATHEWSON II et al. | | | | |
| | | | | | | | |
| | | | | | | | |
| - | | | | | | | |
| | www | | | | | | |
| 1 | | | A BY F F F MARK CONTRACT OF MA | | | | |
| | Politica de la companya de la compa | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | Cite No.1 | Cite No. ¹ Number-Kind Code ^{2 (If Incum)} 7,236,472 B2 | Cite Publication Date No.1 Number-Kind Code ^{2 (If known)} MM-DD-YYYY 7,236,472 B2 06-26-2007 | Cite Publication Date Name of Patentee or Applicant of Cited Document Number-Kind Code ^{2 (If Innown)} 7,236,472 B2 06-26-2007 LAZARIDIS et al. | | | |

| Examiner Cite Initials* No.1 | | | er Che | | Pages, Columns, Lines, Where Relevant Passages or Relevant | | | |
|---------------------------------|-----|---------|---------------------------------------|----------------------------------|--|----------------------------------|----------------|----------------|
| | NO. | Country | Code ³ Number ⁴ | Kind-Code ⁵ (# known) | MM-DD-YYYY | Applicant of Cited Document | Figures Appear | T ⁶ |
| | | EP | 1176840 | A1 | 01-30-2002 | MICROSOFT CORPORATION | | |
| | | EP | 0743762 | A2 | 11-20-1996 | NEC CORPORATION | | |
| | | JP | 200311145 | A | 12-26-1990 | MATSUSHITA ELECTRIC WORKS LTD | | |
| | | | | | | | | |

| Examiner | Date | |
|-----------|------------|--|
| Signature | Considered | |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicants' unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <u>www.uspto</u> gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006, 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

| | | | | | Complete if Known | |
|-----------------------------------|---|----|------|---|---------------------|--|
| Substitute for form 1449/PTO | | | | Application Number | 13/615,419 | |
| | | | SUPE | Filing Date | September 13, 2012 | |
| | | | | First named Inventor | KLASSEN, Gerhard D. | |
| STATEMENT BY APPLICANT | | | | Art Unit | 2859 | |
| (Use as many sheets as necessary) | | | ary) | Examiner Name | Not yet assigned | |
| Sheet | 2 | of | 2 | Attorney Docket Number | 70314/01061 | |
| Sheet | 3 | OT | 3 | A DECEMBER AND A REPORT OF THE PARTY OF THE | | |

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalogue, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | 7 ² |
|-----------------------|--------------------------|--|----------------|
| | | LASTORIA, Gianluca; Search Report from corresponding European Application No. 10172832.7; search completed October 1, 2010 | |
| | | VARMA, S.; Search Report from corresponding PCT Application No. PCT/CA2004/001712; search completed December 1, 2004 | |
| | | | |
| 10 Mar - 20 Mar - 1 | - | * | |
| | 2 | | |
| | | | |
| | - | | |
| | | | |
| - | | | |
| | | | |
| Examine | | Date | |

 Examiner
 Date

 Signature
 Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicants' unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C> 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the complete dapplication form to 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

| Electronic Acl | knowledgement Receipt |
|--------------------------------------|--|
| EFS ID: | 14038966 |
| Application Number: | 13615419 |
| International Application Number: | |
| Confirmation Number: | 2640 |
| Title of Invention: | Handheld Electronic Device and Associated Method Providing Time Data in a Messaging Environment |
| First Named Inventor/Applicant Name: | Gerhard D. Klassen |
| Customer Number: | 91704 |
| Filer: | Brett Joseph Slaney/Judith Martin |
| Filer Authorized By: | Brett Joseph Slaney |
| Attorney Docket Number: | 70314/01061 |
| Receipt Date: | 22-OCT-2012 |
| Filing Date: | 13-SEP-2012 |
| Time Stamp: | 12:11:21 |
| 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 | | 11144-US-CNT5_IDS.pdf | 291174 | yes | 5 |
| | | | bc6ec2691086ac125784c66f34f2d774e3eb cbe6 | Ē | |

| | Multipart Description/PDF files in .zip description | | | |
|--------------|---|-----------------|------|--|
| | Document Description | Start | End | |
| | Transmittal Letter | 1 | 2 | |
| | Information Disclosure Statement (IDS) Form (SB08) | 3 | 5 | |
| Warnings: | | I | | |
| Information: | | | | |
| | Total Files Size (in bytes): | 29 ⁻ | 1174 | |

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.

Application No. 13/615,419

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Appl. No.: 13/615,419

Applicant: KLASSEN, Gerhard D. et al.

Filed: September 13, 2012

Title:Handheld Electronic Device and Associated Method Providing Time Data in a
Messaging Environment

Art Unit: 2859

Examiner: Not yet assigned

Docket No.: 70314/01061

Mail Stop Amendment U.S. Patent & Trademark Office Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty to disclose under 37 CFR §1.56, Applicant submits herewith a Form PTO/SB/08 listing references of which the Applicant is aware and which are brought to the attention of the Examiner. A copy of each of the foreign patent and non-patent literature documents listed on the enclosed Form has previously been submitted to the Patent Office in connection with the parent case – U.S. Patent Application No. 13/111,675. Accordingly, and as provided for under 37 CFR §1.98(d)(1) and §1.98(d)(2), further copies are not included with this submission.

Pursuant to 35 USC §120, this application relies on the earlier filing date(s) of the following prior application(s):

| Serial Number | Filing Date |
|---------------|--------------------|
| 13/111,675 | May 19, 2011 |
| 10/944,925 | September 20, 2004 |

The filing of this IDS shall not be construed as a representation that a search has been made, an admission that the information cited is, or is considered to be, material for patentability, or

Application No. 13/615,419

that no other material information exists. This filing shall not be construed as an admission against interest in any matter.

This IDS is submitted pursuant to 37 CFR §1.97(b) and, accordingly, no fee is believed to be due for consideration of the documents submitted herewith.

Applicant respectfully requests consideration of the items listed and requests the Examiner to return a copy of the attached Form PTO/SB/08 after being marked as being considered by the Examiner.

Respectfully submitted,

Date: _Oct. 22/12

Brett J. Slaney

Registration No. 58,772 Agent for Applicant

BLAKE, CASSELS & GRAYDON LLP 199 Bay Street Suite 4000, Commerce Court West Toronto, Ontario, M5L 1A9 Canada

Tel 416-863-2518 Fax 416-863-2653

BSL/jm

(✓) encl.

| UNITED STA | tes Patent and Tradem | UNITED STA United State: Addres: COMMU PO. Box | a, Virginia 22313-1450 |
|---|-----------------------|---|---|
| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
| 13/615,419 | 09/13/2012 | Gerhard D. Klassen | 70314/01061 |
| 91704 Blake, Cassels & Graydon 199 BAY STREET, SUITE COMMERCE COURT WES TORONTO, ON M5L 1A9 | 4000 | | CONFIRMATION NO. 2640 EPTANCE LETTER |

Date Mailed: 09/28/2012

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

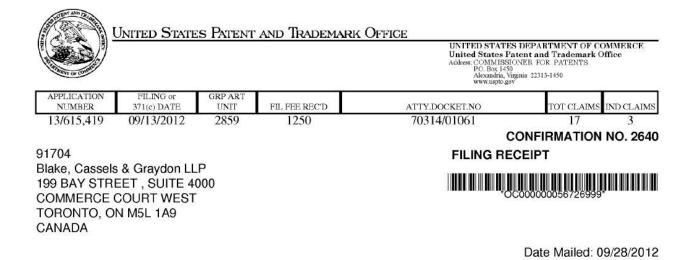
This is in response to the Power of Attorney filed 09/13/2012.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/dberios/

CANADA

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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

Inventor(s)

| | Gerhard D. Klassen, Waterloo, CANADA; |
|---------------|--|
| | Christopher R. Wormald, Kitchener, CANADA; |
| | Lawrence E. Kuhl, Waterloo, CANADA; |
| Applicant(s) | |
| 1000 0.0 | Gerhard D. Klassen, Waterloo, CANADA; |
| | Christopher R. Wormald, Kitchener, CANADA; |
| | Lawrence E. Kuhl, Waterloo, CANADA; |
| Accianment Ec | Published Detent Application |

Assignment For Published Patent Application Research In Motion Limited, Waterloo, CANADA

Power of Attorney: The patent practitioners associated with Customer Number 91704

Domestic Priority data as claimed by applicant

This application is a CON of 13/111,675 05/19/2011 which is a CON of 10/944,925 09/20/2004 PAT 7970849 which claims benefit of 60/504,379 09/19/2003

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

If Required, Foreign Filing License Granted: 09/24/2012 The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US 13/615,419 Projected Publication Date: 01/03/2013 Non-Publication Request: No

page 1 of 3

Early Publication Request: No Title

Handheld Electronic Device and Associated Method Providing Time Data in a Messaging Environment

Preliminary Class

320

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

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage, facilitate, and accelerate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit <u>SelectUSA.gov</u>.

| | PATE | ENT APPLI | | N FEE DE itute for Form | | ION RECOR | D | | tion or Docket Nurr 5,419 | ber |
|------------|--|---|---------------------------------------|---|---|--------------------|-----------------------|----|------------------------------|-----------------------|
| | APPL | | S FILED | | umn 2) | SMALL | ENTITY | OR | OTHEF SMALL | |
| | FOR | NUMBE | R FILED | NUMBE | R EXTRA | RATE(\$) | FEE(\$) | | RATE(\$) | FEE(\$) |
| | IC FEE FR 1.16(a), (b), or (c)) | N | /A | N | J/A | N/A | | 1 | N/A | 380 |
| SEA | RCH FEE FR 1.16(k), (i), or (m)) | N | /A | N | J/A | N/A | | 1 | N/A | 620 |
| EXA | MINATION FEE FR 1.16(o), (p), or (q)) | N | /A | N | J/A | N/A | | 1 | N/A | 250 |
| TOT | AL CLAIMS FR 1.16(i)) | 17 | minus 2 | * | | | | OR | × 60 = | 0.00 |
| INDE | EPENDENT CLAIN FR 1.16(h)) | ^{IS} 3 | minus 3 | 3 = * | | | | 1 | × 250 = | 0.00 |
| APF FEE | PLICATION SIZE | sheets of \$310 (\$15 50 sheets | oaper, the 5 for sma or fractio | and drawings e application siz Ill entity) for ea n thereof. See CFR 1.16(s). | ze fee due is ch additional | | | | | 0.00 |
| MUL | TIPLE DEPENDE | NT CLAIM PRE | SENT (37 | CFR 1.16(j)) | | | | 1 | | 0.00 |
| * lf t | ne difference in col | umn 1 is less th | ian zero, e | enter "0" in colur | nn 2. | TOTAL | | 1 | TOTAL | 1250 |
| NT A | | (Column 1) CLAIMS REMAINING AFTER AMENDMENT | | (Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR | (Column 3) PRESENT EXTRA | SMALL RATE(\$) | ADDITIONAL FEE(\$) | | SMALL RATE(\$) | ADDITIONAL FEE(\$) |
| ЛЕN | Total (37 CFR 1.16(i)) | * | Minus | ** | = | x = | | OR | x = | |
| AMENDMENT | Independent (37 CFR 1.16(h)) | * | Minus | *** | - | x = | | OR | x = | |
| AME | Application Size Fee | e (37 CFR 1.16(s)) | | | | | | 1 | | |
| | FIRST PRESENTA | FION OF MULTIPI | E DEPEND | DENT CLAIM (37 C | FR 1.16(j)) | | | OR | | |
| | | | | | | TOTAL ADD'L FEE | | OR | TOTAL ADD'L FEE | |
| | | (Column 1) | | (Column 2) | (Column 3) | | 1 | 7 | | |
| NT B | | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE(\$) | ADDITIONAL FEE(\$) | | RATE(\$) | ADDITIONAL FEE(\$) |
| DMENT | Total (37 CFR 1.16(i)) | * | Minus | ** | = | X = | | OR | x = | |
| END | Independent (37 CFR 1.16(h)) | * | Minus | *** | = | x = | | OR | x = | |
| AMEN | Application Size Fee | e (37 CFR 1.16(s)) | | | - | | |] | | |
| | FIRST PRESENTA | FION OF MULTIPI | | DENT CLAIM (37 C | FR 1.16(j)) | | | OR | | |
| | | | | | | TOTAL ADD'L FEE | | OR | TOTAL ADD'L FEE | |
| * | If the entry in colu- If the "Highest Nu- If the "Highest Nur The "Highest Numb | umber Previous nber Previously | ly Paid Fo Paid For" I | r" IN THIS SPA N THIS SPACE is | CE is less than : s less than 3, ent | 20, enter "20". | in column 1. | | | |

| COP-J FROM Under the Paperwork Reduction Act of 1995, | 1 PRIDR | APPLIC U.S. Patent and spond to a collection of in | Tradomark OI | PTO/SB/01 (03-01) tr use through 10/31/2002. OMB 0651-0032 fice; U.S. DEPARTMENT OF COMMERCE as it contains a valid OMB control number. |
|--|---|--|-------------------------------|---|
| | | Attorney Docket | Number | 291010-00084 |
| DECLARATION FOR DESIGN | UTILITY OR | First Named Inve | ntor | Gerhard D. Klassen |
| PATENT APPLIC | ATION | COM | IPLETE IF | KNOWN |
| (37 CFR 1.6 | | Application Numb | er | 1 |
| | | Filing Date | | |
| Submitted OR S | eclaration ubmitted after initial | Group Art Unit | | |
| Filing (3 | iling (surcharge 37 CFR 1.16 (e)) aquired) | Examiner Name | | |
| As a below named inventor, I hereb | by declare that: | | | |
| My residence, mailing address, and c | ilizenship are as stated b | elow next to my name. | 1 | |
| I believe I am the original, first and so names are listed below) of the subjec | le inventor (if only one na | ime is listed below) or | an original, t | |
| HANDHELD ELECTRON | | | METH | OD PROVIDING |
| TIME DATA IN A MESS | AGING ENVIRON | IMENI | | |
| | | | | |
| | | | | |
| | | | | |
| L | (Tille of the Ir | nvention) | | |
| the specification of which | | | | |
| Is attached herelo | | | | |
| OR [| And the | | | |
| was filed on (MM/DD/YYYY) | | as United Stat | tes Applicati | on Number or PCT International |
| | | | | |
| Application Number | and was ame | nded on (MM/DD/YYY | n | (If applicable). |
| | | | | (r appressia) |
| I hereby state that I have reviewed a amended by any amendment specifi | nd understand the conter cally referred to above. | nts of the above identifi | ied specifica | tion, including the claims, as |
| I acknowledge the duty to disclose in in-part applications, material informa PCT international filing date of the co | tion which became availa | ble between the filing o | efined in 37 date of the p | CFR 1.56, including for continuation- rior application and the national or |
| than the United States of America, | s), or 365(a) of any PCT listed below and have a rights certificate(a), or an | international applications identified below, b | on which de by checking | n application(s) for patent, inventor's asignated at least one country other the box, any foreign application for aving a filing date before that of the |
| Prior Foreign Application Number(s) | | oreign Filing Date (MM/DD/YYYY) | Priority Not Claime | Certified Copy Attached? ad YES NO |
| | | | | |
| Additional foreign application n | umbers are listed on a su | pplemental priority data | a sheet PTC | VSB/02B attached hereto: |

[Page 1 of 2]

Burden Hour Statemont: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time, you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/S8/01 (03-01)

·----

| DECLARATION - | | ity or De | sig | jn Paten | а Аррис | ation |
|--|--|--------------------------------------|-----------------|---|---------------------------------------|--|
| hracial correspondence to 1 M | mer Number Code Label | 00370 |)5 | OR | Corresponder | oe address below |
| Name | | CR CALIFORN | | | 1 | |
| Address | | | | | 51 | |
| | | | | | 715 | |
| City | | | Stat | e | ZIP | |
| Country | Tolog | phone | - | | Fax | |
| I hereby declare that all statements made her are believed to be true; and further that thes made are punishable by fine or imprisonment validity of the application or any patent issued | e statements t, or both, un thereon. | s were made with der 18 U.S.C. 10 | n lhe 101 an | knowledge that wi ad that such willful | llful false stater false staternen | nents and the like so is may jeopardize the |
| NAME OF SOLE OR FIRST INVENT | | A petition h | as b | een filed for this | s unsigned in | iventor |
| Given Name Gerhard D. (first and middle [if any]) | | | | nily Nama Klass Sumame | en | |
| Inventor's Quilland D. 1 Signature | Call | les. | | | DateSG | ekenber20,20 |
| Waterloo Residence: City | | Ontario State | o | Canada Country | Citizens | Canada |
| 510 Heatherhill Place Mailing Address | э ' | | | | | |
| Waterloo City | awar so rar | Ontari State | 0 | N2T 1H | 7 Country | Canada |
| NAME OF SECOND INVENTOR: | | A petition ha | s be | en filed for this | unsigned inv | entor |
| Given Name (first and middle [if any]) | ٦. | | | nily Name Worr Surname | mald | |
| Inventor's Char | an | \sim | | | Date Se | + 20,2004 |
| Kitchener Residence: City | | Ontario State | | Canàda Country | Citizens | Canada hip |
| Mailing Address 215 Hawkswood Driv | /e | | | | | |
| Kitchener City | | Ontario State | | N2K 4J2 ZIP | Country | Canada |
| Additional inventors are being named or | n the <u>1</u> _su | pplemental Additi | onal li | nventor(s) sheet(s) | PTO/SB/02A a | ttached herelo. |
| | 23 | (Page 2 of 2 | | | | |

| | | | | 200000000000000000000000000000000000000 | | | | |
|--|--|--|---------|---|--------------------------|-----------------------------------|---|----------------------|
| D | ECLARATION | | | | ADDITION Suppl Pay | IAL INVE emental ge_l_ of . | NTOR(S Sheet |) |
| Name of Addition | nal Joint Inventor, if any: | | Ē | A petitio | n has been file | ed for this | unsigned i | nvantor |
| Given Na | me (first and middle [if any]) | | | | Family Na | me or Sur | name | |
| awrence E. | | | Ku | ıhl | | | | j 10.000-000-0000 |
| Inventor's Signatur e | Zang & | (particular of the second sec | h | | | | Date | Sapt 201 |
| Acsidonce: City | Waterloo | State | Ontario | Country | Canada | c | ltizənahlp | Canada |
| Post Office Address | 686 Jacob Lane | | | | | | | |
| Post Office Address | | | | | | | <u></u> | |
| City | Waterloo | State | Ontario | ZIP | N2V 2G9 | Country | Ca | anada |
| Name of Additio | nal Joint Inventor, if any | | Г | A petitio | n has been fil | ed for this | unsigned i | nventor |
| | | | | | | | | |
| Ciuco Ma | ma (first and middle (if any)) | | | 18 - 19 - 19 Martines | Carl N | | | |
| Given Ne | me (first and middle [If any]) | | | | Family Na | ume or Su | mame | |
| Given Ne | me (first and middle [If any]) | | | | Family Ne | ime or Su | mame | |
| Given Ne Inventor's Signature | ume (first and middle [if any]) | | | | Family Na | ume or Su | mame Date | |
| Inventor's | ume (first and middle [if any]) | State | | Country | Family Ne | ime or Su | | P |
| Inventor's Signature | | State | | Country | Family Na | ime or Su | Date | P |
| Inventor's Signature Residence: City Posi Office Address | | State | | Country | Family Ne | ime or Su | Date | p |
| Inventor's Signature Residence: City | | State | | Country | Family Ne | | Date | P |
| Inventor's Signature Residence: City Posi Office Address | | State State | | Country | Family Ne | Countr | Date Citizenshi | P |
| Inventor's Signature Residence: City Post Office Address Post Office Address City | | State | | ZIP | Family Ne | Countr | Date Citizenshi y | |
| Inventor's Signature Residence: City Post Office Address Post Office Address City Name of Additic | | State | | ZIP | on has been fil | Countr | Date Citizenshi y unsigned | |
| Inventor's Signature Residence: City Post Office Address Post Office Address City Name of Additic | nal Joint Inventor, if any | State | | ZIP | on has been fil | Countr | Date Citizenshi y unsigned | |
| Inventor's Signature Residence: City Post Office Address Post Office Address City Name of Additic | nal Joint Inventor, if any | State | | ZIP | on has been fil | Countr | Date Citizenshi y unsigned | |
| Inventor's Signature Residence: City Posi Office Address Post Office Address City Name of Additic Given N: Inventor's | nal Joint Inventor, if any | State | | ZIP | on has been fil | Countr | Date Citizenshi y unsigned | inventor |
| Inventor's Signature Residence: City Posi Office Address Post Office Address City Name of Additic Given N: Inventor's Signature | onal Joint Inventor, if any ame (first and middle [If any]) | State | | ZIP A petitic | on has been fil | Countr | Date Citizenshin y unsigned imame Date | inventor |
| Inventor's Signature Residence: City Post Office Address Post Office Address City Name of Additic Given N Inventor's Signature Residence: City | ame (first and middle [if any]) | State | | ZIP A petitic | on has been fil | Countr | Date Citizenshin y unsigned imame Date | inventor |

+

1 T

| Please type a plus sign (+) Inside this box 🛶 | Ł |
|---|-------|
| | Ł |
| | |

Lo. Avoi mon 22000 time

sign (+) Inside this box → + Approved for use through 9/30/98. OMB 0651-0032 = Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paparwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it contains a valid OMB control number.

| DECLARATION — Supplemental Priority Data Sheet | t |
|--|---|
|--|---|

| Additional foreign applic | cations: | | | | ···· | | |
|--|--------------|---------------------|----|-----------------------------|-------------------------|----------------------|--------------------------------|
| Prior Foreign Application Number(s) | Co | untry | | n Filing Date 1/DD/YYYY) | Priority Not Claimed | Certilled Cop YES | NO NO |
| | | | | | | | |
| Additional provisional | applications | | | | Elling Data (| MM/DD/YYYY | \ \ |
| 60/504,379 | | | C | 9/19/2003 | | | |
| Additional U.S. applica | tions: | | | | | | |
| U.S. Parent Applic Number | ation | PCT Paren Number | nt | | Filing Date D/YYYY) | | ent Number <i>licable</i>) |
| | | | | | | | |

PTO/SB/80 (11-06) Approved for use through 11/30/2011, OMB 0651-0035 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.

| | | ATTORNEY TO PROS | | | | | | |
|---|------------------------------|-----------------------------------|-----------------------------------|--------------------------------|------------------------------|----------------------------|-------------------------|--------------------------------|
| hereby appoint: 91704 Practitioners associated with the Customer Number: 91704 Practitioner(s) named below (if more than len patent practitioners are to be named, then a customer number must be used): Name Name Registration Name Registration Number Name Registration Name Registration Number Name Registration Number Number Image: Status of the status of | | vious powers of attorney g | jiven in the | application | identified i | n the atta | iched sta | tement unde |
| OR Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used): Name Registration Number Name Number Name Number Name Registration Name Number Name Number Name Registration Name Number Name Name State City State Country <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | |
| Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used): Name Registration Name Registration Number Name Registration Name Registration Number Number Name Registration Name Registration statumey(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with ny and all patent applications assigned according to the USPTO assignment records or assignment documents tradeho th this form in accordner with 37 CFR 3.73(b). Pate address associated with Customer Number: 91704 OR 91704 Film or hedividual Name Address Zip Country State Zip Country Email Telephone Email Assignee Name and Address: Research In Motion Limited Research In Motion Limited SIGNATURE of Assignee States of Record SIGNATURE of Assignee Oracle States of Record SIGNATURE of Assignee Oracle States of Record The individual whose signaturg-dd title is supplied to not behalf of the assignee SIGNATURE of Assignee of Record City SIGNATURE of Assignee of Record | Practitioners associat | ed with the Customer Number: | | 9170 |)4 | | | |
| Name Registration Name Registration Number Number Number Number Number Number Number Number stormey(s) or agent(s) to represent the undersigned before the Unlied States Patent and Trademark Office (USPTO) in connection with number Number a stormey(s) or agent(s) to represent the undersigned before the Unlied States Patent and Trademark Office (USPTO) in connection with number Number yease change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) for Patent application assignment records or assignment documents Image: State 91704 Patent application identified in the attached statement under 37 CFR 3.73(b) for Or Individual Name Address State Zip City State Zip Country Telephone Email Market in the attached statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to file of nach application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one file in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one file in each application in which this form or Attorney is to be file. SigNATURE of Assignee of Record SigNATURE of Assignee of Record The individual whose signamperiod tiff is sapplied below is autiorized to act on behalf of | OR | | L | | | I | | |
| Number Number Image: | Practitioner(s) named | below (if more than ten patent p | practitioners an | e to be named | l, then a custo | omer numb | er must be | used): |
| Is altomey(s) of agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with my and all patent applications assigned and (only to the undersigned according to the USPTO assignment records or assignment documents inched to this form in according a sale of any to the undersigned according to the USPTO assignment records or assignment documents inched to this form in according to the undersigned according to the utserto act assignment documents inched to this form in according to the undersigned according to the utserto according to t | | Name | | 1 | Ni | ame | | Registratio Number |
| s altomey(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with ny and all patent applications assigned <u>dark</u> to the undersigned according to the USPTO assignment records or assignment documents tached to this form in accordence with 37 CFR 3.73(b). Pases change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to: Image: the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to: Image: the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to: Image: the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to: Image: the diverse associated with Customer Number: 91704 OR Firm or Imbinivitual Name Address Address City Country Etnell Telephone Email Assignee Name and Address: Research In Motion Limited 295 Phillip Street Waterloo, Ontario N2L 3W8 CANADA Acopy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SBJ96 or equivalent) is required to practitioner is authorized to act on behalf of the assignee, and must identify the application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioner is authorized to act on behalf of the as | 5 | | | | | | 9-4 | _ |
| ny and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents trached to this form in accordance with 37 CFR 3.73(b). Prease change the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: Prease change the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: Prease change the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: Prease change the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: Prease change the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: Presson and Address: Presson and Presson and Address: Presson and Presson and Address: Presson and Preson and Presson and Pr | | | | | 1 | | | |
| ny and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents trached to this form in accordance with 37 CFR 3.73(b). Please change the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: Image: the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: 91704 Image: the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: 91704 Image: the address associated with Customer Number: 91704 OR Image: the address associated with Customer Number: 91704 OR Image: the address associated with Customer Number: 101704 Address Image: the address associated with Customer Number: 21p Country Image: the address associated with Customer Number: Image: the address associated with Customer Number: Research In Motion Limited 2965 Phillip Street Image: the address associated with the statement under 37 CFR 3.73(b) (Form PTO/SB/95 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) (Form PTO/SB/95 or equivalent) is required to at on behalf of the assignee. State and must identify the application in which this form is used. The statement under 37 | | | | | | | | |
| ny and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents trached to this form in accordance with 37 CFR 3.73(b). Please change the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: Image: the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: 91704 Image: the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: 91704 Image: the address associated with Customer Number: 91704 OR Image: the address associated with Customer Number: 91704 OR Image: the address associated with Customer Number: 101704 Address Image: the address associated with Customer Number: 21p Country Image: the address associated with Customer Number: Image: the address associated with Customer Number: Research In Motion Limited 2965 Phillip Street Image: the address associated with the statement under 37 CFR 3.73(b) (Form PTO/SB/95 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) (Form PTO/SB/95 or equivalent) is required to at on behalf of the assignee. State and must identify the application in which this form is used. The statement under 37 | 1 | | | | | | | |
| ny and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents trached to this form in accordance with 37 CFR 3.73(b). Please change the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: Image: the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: 91704 Image: the correspondence address for line application identified in the attached statement under 37 CFR 3.73(b) to: 91704 Image: the address associated with Customer Number: 91704 OR Image: the address associated with Customer Number: 91704 OR Image: the address associated with Customer Number: 101704 Address Image: the address associated with Customer Number: 21p Country Image: the address associated with Customer Number: Image: the address associated with Customer Number: Research In Motion Limited 2965 Phillip Street Image: the address associated with the statement under 37 CFR 3.73(b) (Form PTO/SB/95 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) (Form PTO/SB/95 or equivalent) is required to at on behalf of the assignee. State and must identify the application in which this form is used. The statement under 37 | | | | 藩 | | | | |
| Image: Second | ny and all patent applicatio | ons assigned only to the undersig | re the United S gned according | States Patent a to the USPT | and Trademar D assignment | rk Office (U records or | SPTO) in c assignmen | onnection with it documents |
| Image address associated with Customer Number: OR Firm or Individual Name Address City State Country Telephone Assignee Name and Address: Research In Motion Limited 205 Phillip Street Waterloo, Ontario N2L 3W8 CANADA A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record SIGNATURE of Assignee of Record The individual whose signature and a data. The balanciz | lease change the correspo | undence address for the applicat | tion identified in | n the attached | statement un | der 37 CFJ | R 3.73(b) to | : |
| Image address associated with Customer Number: OR Firm or Individual Name Address City State Country Telephone Assignee Name and Address: Research In Motion Limited 205 Phillip Street Waterloo, Ontario N2L 3W8 CANADA A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record SIGNATURE of Assignee of Record The individual whose signature and a data. The balanciz | | | 1 | | | 7 | | |
| Firm or Individual Name Address Address Zip Cily State Zip Country Email Email Telephone Email Email Assignee Name and Address: Research In Motion Limited 295 Phillip Street Naterioo, Ontario N2L 3W8 CANADA A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record SIGNATURE of Assignee of Record The individual whose signature that tile is supplied below is authorized to act on behalf of the assignee Signature Date (519) \$885-7416 Name Telephone This Orderlow is governed by 35 USC, 122 and 37 CFR 1.31, 1.32 and 1.33. The Information is required to obtain or retain a benefit by the public which is to file which is t | The address asso | ciated with Customer Number: | | 91704 | | | | |
| Individual Name Address Cily State Zip Country Email Zip Telephone Email State Zip Assignee Name and Address: Research In Motion Limited Email State Zip Assignee Name and Address: Research In Motion Limited 295 Phillip Street Naterioo, Ontario N2L 3W8 CANADA Ac copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed. Signature Signature of Attorney is authorized to act on behalf of the assignee Name Riff Hengy This collection of information is required to the formation is sequired to the filed. Name Riff Hengy This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The Information is required to balafor retain a benefit by the public which is to file the tost or process an application is settmated to take 3 m This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The Information is required to balafor retain a benefit by the public which is to file the tost of process an apublication. Confidentially is govermed by 35 | | | | | | | | |
| City State Zip Country Telephone Email Assignee Name and Address: Research In Motion Limited Research In Motion Limited 295 Phillip Street Waterloo, Ontario N2L 3W8 CANADA Acopy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record SIGNATURE of Assignee of Record The individual whose signature and title is supplied below is authorized to act on behalf of the assignee Signature Date (519) \$885-7446 Name Freq Title Vi(t PresidefWT Short Cl. SerViCe) This collection of informations is required by 37 CFR 1.31, 1.32 and 1.33. The Information is required to obtain or retain a benefit by the public which is to file by the USPT of percession is application is application is application is application is application of information is required by 30 U.S.C. 1.22 and 37 CFR 1.11 and 1.14. This collection is earthorized to take 3 m | | | | | | | | |
| Country Telephone Email Assignee Name and Address: Email Assignee Name and Address: Research In Motion Limited 295 Phillip Street Waterloo, Ontario N2L 3W8 CANADA A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record The individual whose signature and title is supplied below is authorized to act on behalf of the assignee Signature Date (519) 888-7446 Name Telephone Tille Vice President Short Content is appliced to obtain or retain a benefit by the public which is to file to the assignee to take 3 m | Address | | | | | | | |
| Telephone Email Assignee Name and Address: Research In Motion Limited 295 Phillip Street Waterloo, Ontario N2L 3W8 CANADA A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record The individual whose signature and title is supplied below is authorized to act on behalf of the assignee Signature Date (519) 888-74/b Name Telephone Name Nice Vice PyecSidfwTT Name Vice Nice Vice Nice Vice Vice Stort 1.31, 1.32 and 1.33. The Information is required to obtain or retain a benefit by the public which is to file vice users an applicability is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 m | City | | State | | | | Zip | |
| Assignee Name and Address: Research In Motion Limited 295 Phillip Street Waterloo, Ontario N2L 3W8 CANADA A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record The individual whose signature field title is supplied below is authorized to act on behalf of the assignee Signature Date (519) 888-74/6 The president of Information is required by 37 CFR 1.31, 1.32 and 1.33. The Information is required to obtain or retain a benefit by the public which is to file the type User of procession an applicability is over ead by 35. U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 min | Country | | | | | | | |
| Assignee Name and Address: Research In Motion Limited 295 Phillip Street Waterloo, Ontario N2L 3W8 CANADA A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record The individual whose signature find title is supplied below is authorized to act on behalf of the assignee Signature Date (519) 888-74/67 The president of the application is required to Service S This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The Information is required to obtain or retain a benefit by the public which is to find to the yac of the individual whose is estimated to take 3 m | Telephone | | | Email | | | | |
| Research In Motion Limited 295 Phillip Street Waterloo, Ontario N2L 3W8 CANADA A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record The individual whose signature and title is supplied below is authorized to act on behalf of the assignee. Signature Date (519) 888-74/62 Name Telephone Name Vice Pressident T Short CC This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The Information is required to obtain or retain a benefit by the public which is to file to take 3 minated to take | | | | | | | | |
| 295 Phillip Street Waterloo, Ontario N2L 3W8 CANADA A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record The individual whose signature and till is supplied below is authorized to act on behalf of the assignee Signature Name Name Name Name Name Name NOV CC Services This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file to take 3 m | ssignee Name and Addre | 5S: | | | | | | |
| Waterloo, Ontario N2L 3W8 CANADA A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record The individual whose signature and title is supplied below is authorized to act on behalf of the assignee Signature Date (519) 888-74/6 Name Name Name Name Name VICE President Sharqed STR 131, 132 and 1.33. The Information is required to obtain or retain a benefit by the public which is to file Name to the processing of the statement strength of the assignee Name Date (519) 888-74/67 The phone OC For 7/67 Name Date (519) STR 131, 132 and 1.33. The Information is required to obtain or retain a benefit by the public which is to file | | imited | | ÷. | | | | |
| A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record The individual whose signature and title is supplied below is authorized to act on behalf of the assignee. Signature Date (519) 888-74/62 Name Telephone Name Vice Vice President This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The Information is required to obtain or retain a benefit by the public which is to file to take 3 minuted to | | 3W8 CANADA | | | | | | |
| Signature Date (519) 888-746 Name Nite Nite Nite Note Nite Name Nite Nite Nite Name Nite Name Nite Name Nite Nite Nite Nite Nite Note Nite Note Nite Note Nite | valence, entane vez | | | | | Containing the second | | |
| the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed. SIGNATURE of Assignee of Record The individual whose signature and title is supplied below is authorized to act on behalf of the assignee Signature Date (519)888-746 Name Riffer Constraints State Constraints and the supplied below is authorized to act on behalf of the assignee Tible Vice President Shared Services This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The Information is required to obtain or retain a benefit by the public which is to file to the service of the ser | copy of this form, to | gether with a statement un | der 37 CFR | 3.73(b) (For | m PTO/SB/S | 6 or equ | ivalent) is | required to I |
| SIGNATURE of Assignee of Record The individual whose signature and title is supplied below is authorized to act on behalf of the assignee Signature Date (519) 888-746 Name Date (519) 888-746 Telephone OC-07160 Title Vice Presherrt Shored Services This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a banefit by the public which is to file to be 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 3 min | | | | | | | | |
| The individual whose signature and title is supplied below is authorized to act on behalf of the assignee Signature Date (519)888-7463 Name Date (519)888-7463 Title Telephone Oct-37109 Title Vice Prestation of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a banefit by the public which is to file to the process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minimum of the process of the public which is to file to take 3 minimum of the process of the public which is to file to take 3 minimum of the process of the public which is to file to take 3 minimum of the process of the public which is to file to take 3 minimum of the public which is to file to take 3 minimum of the public which is to file to take 3 minimum of the public which is to file to take 3 minimum of the public which is to file to take 3 minimum of the public which is to file to take 3 minimum of the public which is to take 3 minimum of the public which is to take 3 minimum of the public which is to take 3 minimum of the public which is to take 3 minimum of the public which is to take 3 minimum of the public which is to take 3 minimum of the public which is the public which is the public which is to take 3 minimum of the public which is the public wh | | | | | | | | |
| Signature Bate 519 888-746 Name Rimer Telephone OCF37/09 Title Vice Presherrt Shorfoci Services This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a banefit by the public which is to file The information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a banefit by the public which is to file | The fad | | | | | hehalfoft | he orcione | |
| Name Riferration Statement Shore Cl Services Title Vice President Shore Cl Services This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a banefit by the public which is to file the user to be 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 3 mil | | | : is supplied of | .iow is aution | ized to act of | | In assigned | 8.711.5 |
| Title VICE President Short CL Services This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a banefit by the public which is to file when the user 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 3 mil | | yll ten | | | | | <u>14798</u> | 0- 7462 |
| This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or relain a benefit by the public which is to file 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 3 mi | | Il teng | 1 | <u> </u> | | Telephone | <u> </u> | 137109 |
| 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 3 mi | | P INPINOFINT) | hav an | NPV/ICP | 1 | | | |
| | | | | | | lain a henel | the the pub | lic which is to the |

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

÷

Legal OK

FHM OK

. .

COPY FROM PAREPUT-USSN 13/11,675 Approved for use through 07/31/2012. OMB 0651-0031 US Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

| Research In Motion Limited , a corporation (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc. states that it is: 1. Image: The assignee of the entire right, title, and interest in; | Under the Paperwork Reduction Act of 1995, no pa | ersons are required to respond to a collection of information unless it displays a valid OMB control numb |
|--|--|--|
| Application No./Patent No:: | STATE | EMENT UNDER 37 CFR 3.73(b) |
| Titled: Research In Motion Limited, a | Applicant/Patent Owner: KLASSEN, Gerhard, Diet | trich et al. |
| Research in Motion Limited , a corporation (Nime of Assignee) (Type of Assignee, e.g., corporation, pathemitip, university, government agenoy, etc. states that it is: 1. X the assignee of the entire right, title, and interest in; 2. an assignee of an undivided interest in the entire right, title, and interest in [The extent (by percentage) of its ownership interest is | Application No./Patent No.: | |
| Name of Assignee) (Type of Assignee, e.g., corporation, pattership, university, government agency, etc. estetes that it is: 1. X the assignee of less than the entire right, title, and interest in; 2. an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is%); or 3. the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made) the patent application/patent identified above, by virtue of either: A X An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, or for which a copy therefore is attached. OR B A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows: 1. From: To: To: The document was recorded in the United States Patent and Trademark Office at Reel, or for which a copy thereof is attached. 2. From: To: The document was recorded in the United States Patent and Trademark Office at Reel, or for which a copy thereof is attached. 3. From: To: The document was recorded in the United States Patent and Trademark Office at Reel | Titled: | |
| Name of Assignee) (Type of Assignee, e.g., corporation, pattership, university, government agency, etc. estetes that it is: 1. X the assignee of less than the entire right, title, and interest in; 2. an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is%); or 3. the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made) the patent application/patent identified above, by virtue of either: A X An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, or for which a copy therefore is attached. OR B A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows: 1. From: To: To: The document was recorded in the United States Patent and Trademark Office at Reel, or for which a copy thereof is attached. 2. From: To: The document was recorded in the United States Patent and Trademark Office at Reel, or for which a copy thereof is attached. 3. From: To: The document was recorded in the United States Patent and Trademark Office at Reel | | |
| states that it is: 1. Image: the assignee of the entire right, title, and interest in; 2. Image: the assignee of the entire right, title, and interest in (The extent (by percentage) of its ownership interest is%); or 3. Image: the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made) the patent application/patent identified above. The assignment was recorded in the the inventor(s) of the patent application/patent identified above. The assignment was recorded in the copy therefore is attached. A. An assignment from the inventor(s) of the patent application/patent identified above, to the current assignee as follows: 1. From: | Research In Motion Limited | , |
| 1. ★ the assignee of the entire right, title, and interest in; 2. ↓ an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is%); or 3. ↓ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made) the patent application/patent identified above. by virtue of either: A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the united States Patent and Trademark Office at Reel, or for which a copy therefore is attached. OR B. ↓ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows: 1. From: | (Name of Assignee) | (Type of Assignee, e.g., corporation, partnership, university, government agency, etc. |
| 2. an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is%); or 3. the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made) the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, or for which a copy therefore is attached. OR A chain of title from the inventor(s) of the patent application/patent identified above, to the current assignee as follows: 1. From: | states that it is: | |
| (The extent (by percentage) of its ownership interest is%); or 3. the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made) the patent application/patent identified above, by virue of either: A. X An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, or for which a copy therefore is attached. OR B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows: 1. From: | 1. X the assignee of the entire right, title, and ir | nterest in; |
| the patent application/patent identified above, by virtue of either: A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, or for which a copy therefore is attached. OR B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows: From: | 2. an assignee of less than the entire right, ti (The extent (by percentage) of its ownersh | itle, and interest in hip interest is%); or |
| A. ⊠ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, rrame, or for which a copy therefore is attached. OR B. □ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows: 1. From: | 3. the assignee of an undivided interest in the | e entirety of (a complete assignment from one of the joint inventors was made) |
| the United States Patent and Trademark Office at Reel | the patent application/patent identified above, by virtu | le of either: |
| the United States Patent and Trademark Office at Reel | A. X An assignment from the inventor(s) of the | patent application/patent identified above. The assignment was recorded in |
| OR B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows: 1. From: To: The document was recorded in the United States Patent and Trademark Office at Reel , Frame 2. From: To: The document was recorded in the United States Patent and Trademark Office at Reel , Frame 2. From: To: The document was recorded in the United States Patent and Trademark Office at Reel , Frame 3. From: To: The document was recorded in the United States Patent and Trademark Office at Reel , Frame 3. From: To: The document was recorded in the United States Patent and Trademark Office at Reel , Frame Additional documents was recorded in the United States Patent and Trademark Office at Reel , Frame Additional documents in the chain of title are listed on a supplemental sheet(s). Additional documents in the chain of title are listed on a supplemental sheet(s). INOTE: A separate copy (<i>i.e.</i> , a true copy of the original assignment document(s)) must be submitted to Assignment Division accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. May 19/11 Signeture <td>the United States Patent and Trademark (</td> <td>Office at Reel, Frame, or for which a</td> | the United States Patent and Trademark (| Office at Reel, Frame, or for which a |
| 1. From: To: The document was recorded in the United States Patent and Trademark Office at Reel | | |
| The document was recorded in the United States Patent and Trademark Office at Reel | B. A chain of title from the inventor(s), of the | patent application/patent identified above, to the current assignee as follows: |
| The document was recorded in the United States Patent and Trademark Office at Reel | 1. From: | То: |
| 2. From:To: | 1962 /S. 67 11.163 605 1 | |
| The document was recorded in the United States Patent and Trademark Office at Reel | Reel, | Frame, or for which a copy thereof is attached. |
| The document was recorded in the United States Patent and Trademark Office at Reel | 2. From: | To: |
| 3. From: To: The document was recorded in the United States Patent and Trademark Office at Reel | | |
| The document was recorded in the United States Patent and Trademark Office at Reel , Frame, or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet(s). As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11. [NOTE: A separate copy (<i>i.e.</i> , a true copy of the original assignment document(s)) must be submitted to Assignment Division i accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. | Reel, | Frame, or for which a copy thereof is attached. |
| Reel | 3. From: | То: |
| Additional documents in the chain of title are listed on a supplemental sheet(s). Image: Additional documents in the chain of title are listed on a supplemental sheet(s). Image: As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11. [NOTE: A separate copy (<i>i.e.</i> , a true copy of the original assignment document(s)) must be submitted to Assignment Division is accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Image: Market J. Slaney Printed or Typed Name | The document was recorded in | the United States Patent and Trademark Office at |
| As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11. [NOTE: A separate copy (<i>i.e.</i> , a true copy of the original assignment document(s)) must be submitted to Assignment Division is accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Signature Brett J. Slaney Printed or Typed Name | Reel, | Frame, or for which a copy thereof is attached. |
| or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11. [NOTE: A separate copy (<i>i.e.</i> , a true copy of the original assignment document(s)) must be submitted to Assignment Division is accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Image: The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Image: The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Image: The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Image: Tele tele tele tele tele tele tele tele | Additional documents in the chain of title | are listed on a supplemental sheet(s). |
| accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Image: The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Image: The undersigned (Whose title is supplied below) is authorized to act on behalf of the assignee. Image: Signature Image: The undersignee of the | As required by 37 CFR 3.73(b)(1)(i), the docu or concurrently is being, submitted for recorda | umentary evidence of the chain of title from the original owner to the assignee was tion pursuant to 37 CFR 3.11. |
| Signature May 19/11 Brett J. Slaney Agent for Assignee Printed or Typed Name Title | | |
| Brett J. Slaney Agent for Assignee Printed or Typed Name Title | Sutt | uthorized to act on behalf of the assignee. |
| Printed or Typed Name Title | | |
| | i V | |
| | | |

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.

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

RIM LEGAL

WORLDWIDE ASSIGNMENT

WHEREAS, WE, (hereinafter referred to as the "ASSIGNORS"):

GERHARD D. KLASSEN, 510 Heatherhill Place, Waterloo, Ontario, Canada, N2T 1H7 CHRISTOPHER R. WORMALD, 215 Hawkswood Drive, Kitchener, Ontario, Canada N2K 4J2 and

LAWRENCE E. KUHL, 686 Jacob Lane, Waterloo, Ontario, Canada N2V 2G9

have invented certain new and useful improvements in an invention entitled HANDHELD ELECTRONIC DEVICE AND ASSOCIATED METHOD PROVIDING TIME DATA IN A MESSAGING ENVIRONEMENT for which an application for United States Letters Patent was filed on September 20, 2004, Application Serial No. 10/944,925, and as further identified by Docket No. 291010-00084 and RIM Reference No. 11144-US-PAT; and

WHEREAS, **RESEARCH IN MOTION LIMITED** (hereinafter referred to as the "ASSIGNEE"), a corporation organized under the laws of the Province of Ontario, CANADA, having a place of business at 295 Phillip Street, Waterloo, Ontario, CANADA, N2L 3W8, is desirous of acquiring the full and exclusive right, title and interest in and to said application inclusive of any and all priority rights derived therefrom and the inventions therein disclosed, and in and to all Letters Patent, both United States and foreign, to be granted for said inventions.

NOW, THEREFORE, for a valuable consideration, the receipt whereof is hereby acknowledged, WE ASSIGNORS, intending to be legally bound, do hereby confirm sale, assignment, transfer, and set over, and hereby sell, assign, transfer, and set over unto the ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest in and to the aforesaid application for United States Letters Patent inclusive of any and all priority rights derived therefrom, and the inventions therein disclosed, and in and to all Letters Patent and issues thereof which may be granted upon said application and in and to all Letters Patent which may be issued upon any substitutes, divisions, or continuations of said application, and in and to any and all Letters Patent which may be granted for said inventions in any other country or countries; the same to be held and enjoyed by the ASSIGNEE for its own use and behoof, and for the use and behoof of its successors and assigns, to the full end of the term or terms for which said Letters Patent and reissues thereof may be granted as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made;

AND WE, ASSIGNORS hereby agree to execute, upon request, any and all further papers which may be necessary or desirable to enable the ASSIGNEE, its successors and assigns, to file and prosecute said application, and any and all substitutes, divisions, or continuations thereof, and any and all reissues of the Letters Patent granted upon said application, or upon any substitutes, divisions, or continuations thereof, and any and all applications for foreign Letters Patent on said inventions; and ASSIGNORS further agree to execute any and all further papers which may be necessary or desirable to vest or perfect the title of ASSIGNEE, its successors and assigns, in and to said application and the inventions therein disclosed, and in and to any and all Letters Patent and reissues thereof, both United States and foreign, which may be granted upon said application, and any substitutes, divisions, or continuations thereof, and upon any foreign applications;

AND WE, ASSIGNORS hereby authorize and request The Commissioner of Patents to issue each and every Letters Patent to be granted upon the aforesaid application for United States Letters Patent, and upon any and all substitutes, divisions, and continuations of said application, and each and every reissue of said Letters Patent, to the ASSIGNEE, its successors and assigns, as the assignee of the entire right, title and interest therein, in accordance with this assignment.

Page 1 of 3

RIM LEGAL

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

Date: 10915+31.2006

ERHARD D. KLASSEN

Waterloo, Ontario, Canada N2T 1H7

STATEMENT BY WITNESS

I, Shaul Wisebourt , whose full Post Office address is 32 Invertincon Cres. Waterlas, ON N2V 2H8 (Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be the person named in the Worldwide Assignment, duly sign and execute the same.

Date:

Witness

Date: Sep 5, 2006

CHRISTOPHER R. WORMALD

Kitchener, Ontario, Canada N2K 4J2

STATEMENT BY WITNESS Kanmono T , whose full Post Office address is ₩. 81-547 Bel are (Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be the person named in the Worldwide Assignment, duly sign and execute the same.

Date: Sep 5, 2006

(Signature c

Page 2 of 3

c = c = c

RIM LEGAL

Date: <u>Aug 11/06</u>

WRENCE E. KUHL

Waterloo, Ontario, Canada N2V 2G9

STATEMENT BY WITNESS

MARNI I, KEIZO _____, whose full Post Office address is - 400 PARKSIDE DR. WAFERLOO, 301 ON NZL GES (Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be the person named in the Worldwide Assignment, duly sign and execute the same.

Date: 11 Aug 2006

(Signature of Witness)

Page 3 of 3

| Electronic Patent / | Appl | ication Fee | e Transmit | tal | | | | |
|---|-------|--|--------------|--------|-------------------------|--|--|--|
| Application Number: | | | | | | | | |
| Filing Date: | | | | | | | | |
| Title of Invention: | | Handheld Electronic Device and Associated Method Providing Time Data in Messaging Environment | | | | | | |
| First Named Inventor/Applicant Name: | Gerh | ard D. Klassen | | | | | | |
| Filer: | Brett | : Joseph Slaney/Ju | udith Martin | | | | | |
| Attorney Docket Number: | 7031 | 4/01061 | | | | | | |
| Filed as Large Entity | | | | | | | | |
| Utility under 35 USC 111(a) Filing Fees | | | | | | | | |
| Description | | Fee Code | Quantity | Amount | Sub-Total in USD(\$) | | | |
| Basic Filing: | | | | | | | | |
| Utility application filing | | 1011 | 1 | 380 | 380 | | | |
| Utility Search Fee | | 1111 | 1 | 620 | 620 | | | |
| Utility Examination Fee | | 1311 | 1 | 250 | 250 | | | |
| Pages: | | | | | | | | |
| Claims: | | | | | | | | |
| Miscellaneous-Filing: | | | | | | | | |
| Petition: | | | | | | | | |
| Patent-Appeals-and-Interference: | | | | | | | | |

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|-----------------------------------|----------|-----------|--------|-------------------------|
| Post-Allowance-and-Post-Issuance: | | | | |
| Extension-of-Time: | | | | |
| Miscellaneous: | | | | |
| | Tot | al in USD | (\$) | 1250 |

| Electronic Acl | knowledgement Receipt |
|--------------------------------------|--|
| EFS ID: | 13742333 |
| Application Number: | 13615419 |
| International Application Number: | |
| Confirmation Number: | 2640 |
| Title of Invention: | Handheld Electronic Device and Associated Method Providing Time Data in a Messaging Environment |
| First Named Inventor/Applicant Name: | Gerhard D. Klassen |
| Customer Number: | 91704 |
| Filer: | Brett Joseph Slaney/Judith Martin |
| Filer Authorized By: | Brett Joseph Slaney |
| Attorney Docket Number: | 70314/01061 |
| Receipt Date: | 13-SEP-2012 |
| Filing Date: | |
| Time Stamp: | 21:05:55 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| Submitted with Payment | yes | | | | |
|--|---|--|--|--|--|
| Payment Type | Deposit Account | | | | |
| Payment was successfully received in RAM | \$1250 | | | | |
| RAM confirmation Number | 8464 | | | | |
| Deposit Account | 022553 | | | | |
| Authorized User | | | | | |
| 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. Se | Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees) | | | | |

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl. |
|--------------------|---|---------------------------------|--|---------------------|--------------------|
| 1 | 1 Application Data Sheet | | 291259 | | 4 |
| I | Application Data Sheet | 11144-US-CNT5_ADS.pdf | 2fd04d3679ee40b65a112fb51e457d815fd 89d9d | no | |
| Warnings: | | | | | |
| Information: | | | | | |
| This is not an US | 5PTO supplied ADS fillable form | | | | |
| 2 | | 11144-US-CNT5_Appln.pdf | 786102 | yes | 17 |
| - | | ····· | 8934750080aeb0a44d83411d7cf97689319 28c47 |) = 2 | |
| - | Multip | art Description/PDF files in . | zip description | | |
| | Document Des | scription | Start | E | nd |
| | Specificat | ion | 1 | 1 | 3 |
| - | Claims | | 14 | 16 | |
| - | Abstrac | t | 17 | 17 | |
| Warnings: | | | 1 | | |
| Information: | | | | | |
| 3 | Drawings-only black and white line drawings | 11144-US-CNT5_Drawings.pdf | 409294 | no | 7 |
| | drawings | | 4e5e796c9b88ad3a8e3918582b9a3fe9a92 92c66 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 4 | Oath or Declaration filed | 11144-US-CNT6_Decln-of- | 214619 | no | 4 |
| | | inventorship.pdf | 47e2eddeb34dbf9f09ed9da3173893dac98 58726 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 5 | | 11144-US- CNT5_POA_assignee- | 314746 | yes | 5 |
| | | statement.pdf | b47b39fb2713f8301de00181cd16f3b34c2 d1a8b | , | 2 |
| | Multip | art Description/PDF files in . | zip description | | |
| | Document Description | | Start | End | |
| | Power of Attorney | | 1 | 1 | |
| - | Assignee showing of ownership per 37 CFR 3.73(b). | | 2 | 5 | |
| | | | | | |

| 6 | Fee Worksheet (SB06) | fee-info.pdf | 32808 ee9f0a714b%acb9a52c73d2d90917464c0 0e47e | no | 2 |
|--|---|---|---|--|--|
| Warnings : | | | | | |
| Information | | | | | |
| | | Total Files Size (in bytes): | 20 | 48828 | |
| characterize Post Card, as <u>New Applica</u> If a new appl 1.53(b)-(d) a Acknowledg <u>National Sta</u> If a timely su U.S.C. 371 ar national stag <u>New Interna</u> If a new inter an internatio and of the In | ledgement Receipt evidences receip d by the applicant, and including page described in MPEP 503. tions Under 35 U.S.C. 111 ication is being filed and the applica nd MPEP 506), a Filing Receipt (37 CF ement Receipt will establish the filin ge of an International Application un bmission to enter the national stage of other applicable requirements a F ge submission under 35 U.S.C. 371 wi tional Application Filed with the USP mational application is being filed an onal filing date (see PCT Article 11 an ternational Filing Date (Form PCT/RC urity, and the date shown on this Ack on. | ge counts, where applicable. tion includes the necessary c R 1.54) will be issued in due o g date of the application. <u>Inder 35 U.S.C. 371</u> of an international applicatio orm PCT/DO/EO/903 indication ill be issued in addition to the <u>TO as a Receiving Office</u> and the international application d MPEP 1810), a Notification D/105) will be issued in due co | It serves as evidence omponents for a filir course and the date s on is compliant with ng acceptance of the Filing Receipt, in du ion includes the nece of the International ourse, subject to pres | e of receipt s ng date (see shown on th the condition application e course. ssary comp Application scriptions co | similar to a 37 CFR is ons of 35 as a onents for Number oncerning |

| Electronic Acknowledgement Receipt | | | | |
|--------------------------------------|--|--|--|--|
| EFS ID: | 13742333 | | | |
| Application Number: | 13615419 | | | |
| International Application Number: | | | | |
| Confirmation Number: | 2640 | | | |
| Title of Invention: | Handheld Electronic Device and Associated Method Providing Time Data in a Messaging Environment | | | |
| First Named Inventor/Applicant Name: | Gerhard D. Klassen | | | |
| Customer Number: | 91704 | | | |
| Filer: | Brett Joseph Slaney/Judith Martin | | | |
| Filer Authorized By: | Brett Joseph Slaney | | | |
| Attorney Docket Number: | 70314/01061 | | | |
| Receipt Date: | 13-SEP-2012 | | | |
| Filing Date: | | | | |
| Time Stamp: | 21:05:55 | | | |
| Application Type: | Utility under 35 USC 111(a) | | | |

Payment information:

| Submitted with Payment | yes | | | | |
|--|-----------------|--|--|--|--|
| Payment Type | Deposit Account | | | | |
| Payment was successfully received in RAM | \$1250 | | | | |
| RAM confirmation Number | 8464 | | | | |
| Deposit Account | 022553 | | | | |
| Authorized User | | | | | |
| 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) | | | | | |

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl. |
|--------------------|---|---------------------------------|--|---------------------|--------------------|
| 1 | 1 Application Data Sheet | | 291259 | | 4 |
| I | Application Data Sheet | 11144-US-CNT5_ADS.pdf | 2fd04d3679ee40b65a112fb51e457d815fd 89d9d | no | |
| Warnings: | | | | | |
| Information: | | | | | |
| This is not an US | 5PTO supplied ADS fillable form | | | | |
| 2 | | 11144-US-CNT5_Appln.pdf | 786102 | yes | 17 |
| - | | ····· | 8934750080aeb0a44d83411d7cf97689319 28c47 |) = 2 | |
| - | Multip | art Description/PDF files in . | zip description | | |
| | Document Des | scription | Start | E | nd |
| | Specificat | ion | 1 | 1 | 3 |
| - | Claims | | 14 | 16 | |
| - | Abstrac | t | 17 | 17 | |
| Warnings: | | | 1 | | |
| Information: | | | | | |
| 3 | Drawings-only black and white line drawings | 11144-US-CNT5_Drawings.pdf | 409294 | no | 7 |
| | drawings | | 4e5e796c9b88ad3a8e3918582b9a3fe9a92 92c66 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 4 | Oath or Declaration filed | 11144-US-CNT6_Decln-of- | 214619 | no | 4 |
| | | inventorship.pdf | 47e2eddeb34dbf9f09ed9da3173893dac98 58726 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 5 | | 11144-US- CNT5_POA_assignee- | 314746 | yes | 5 |
| | | statement.pdf | b47b39fb2713f8301de00181cd16f3b34c2 d1a8b | , | 2 |
| | Multip | art Description/PDF files in . | zip description | | |
| | Document Description | | Start | End | |
| | Power of Attorney | | 1 | 1 | |
| - | Assignee showing of ownership per 37 CFR 3.73(b). | | 2 | 5 | |
| | | | | | |

| 6 | Fee Worksheet (SB06) | fee-info.pdf | 32808 ee9f0a714b%acb9a52c73d2d90917464c0 0e47e | no | 2 |
|--|---|---|---|--|--|
| Warnings : | | | | | |
| Information | | | | | |
| | | Total Files Size (in bytes): | 20 | 48828 | |
| characterize Post Card, as <u>New Applica</u> If a new appl 1.53(b)-(d) a Acknowledg <u>National Sta</u> If a timely su U.S.C. 371 ar national stag <u>New Interna</u> If a new inter an internatio and of the In | ledgement Receipt evidences receip d by the applicant, and including page described in MPEP 503. tions Under 35 U.S.C. 111 ication is being filed and the applica nd MPEP 506), a Filing Receipt (37 CF ement Receipt will establish the filin ge of an International Application un bmission to enter the national stage of other applicable requirements a F ge submission under 35 U.S.C. 371 wi tional Application Filed with the USP mational application is being filed an onal filing date (see PCT Article 11 an ternational Filing Date (Form PCT/RC urity, and the date shown on this Ack on. | ge counts, where applicable. tion includes the necessary c R 1.54) will be issued in due o g date of the application. <u>Inder 35 U.S.C. 371</u> of an international applicatio orm PCT/DO/EO/903 indication ill be issued in addition to the <u>TO as a Receiving Office</u> and the international application d MPEP 1810), a Notification D/105) will be issued in due co | It serves as evidence omponents for a filir course and the date s on is compliant with ng acceptance of the Filing Receipt, in du ion includes the nece of the International ourse, subject to pres | e of receipt s ng date (see shown on th the condition application e course. ssary comp Application scriptions co | similar to a 37 CFR is ons of 35 as a onents for Number oncerning |

| Electronic Acknowledgement Receipt | | | | |
|--------------------------------------|--|--|--|--|
| EFS ID: | 13742333 | | | |
| Application Number: | 13615419 | | | |
| International Application Number: | | | | |
| Confirmation Number: | 2640 | | | |
| Title of Invention: | Handheld Electronic Device and Associated Method Providing Time Data in a Messaging Environment | | | |
| First Named Inventor/Applicant Name: | Gerhard D. Klassen | | | |
| Customer Number: | 91704 | | | |
| Filer: | Brett Joseph Slaney/Judith Martin | | | |
| Filer Authorized By: | Brett Joseph Slaney | | | |
| Attorney Docket Number: | 70314/01061 | | | |
| Receipt Date: | 13-SEP-2012 | | | |
| Filing Date: | | | | |
| Time Stamp: | 21:05:55 | | | |
| Application Type: | Utility under 35 USC 111(a) | | | |

Payment information:

| Submitted with Payment | yes | | | |
|--|--|--|--|--|
| Payment Type | Deposit Account | | | |
| Payment was successfully received in RAM | \$1250 | | | |
| RAM confirmation Number | 8464 | | | |
| Deposit Account | 022553 | | | |
| Authorized User | | | | |
| 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. So | ection 1.17 (Patent application and reexamination processing fees) | | | |

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl. |
|--------------------|---|---------------------------------|--|---------------------|--------------------|
| 1 | 1 Application Data Sheet | | 291259 | | 4 |
| I | Application Data Sheet | 11144-US-CNT5_ADS.pdf | 2fd04d3679ee40b65a112fb51e457d815fd 89d9d | no | |
| Warnings: | | | | | |
| Information: | | | | | |
| This is not an US | 5PTO supplied ADS fillable form | | | | |
| 2 | | 11144-US-CNT5_Appln.pdf | 786102 | yes | 17 |
| - | | ····· | 8934750080aeb0a44d83411d7cf97689319 28c47 |) = 2 | |
| - | Multip | art Description/PDF files in . | zip description | | |
| | Document Des | scription | Start | E | nd |
| | Specificat | ion | 1 | 1 | 3 |
| - | Claims | | 14 | 16 | |
| - | Abstrac | t | 17 | 17 | |
| Warnings: | | | 1 | | |
| Information: | | | | | |
| 3 | Drawings-only black and white line drawings | 11144-US-CNT5_Drawings.pdf | 409294 | no | 7 |
| | drawings | | 4e5e796c9b88ad3a8e3918582b9a3fe9a92 92c66 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 4 | Oath or Declaration filed | 11144-US-CNT6_Decln-of- | 214619 | no | 4 |
| | | inventorship.pdf | 47e2eddeb34dbf9f09ed9da3173893dac98 58726 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 5 | | 11144-US- CNT5_POA_assignee- | 314746 | yes | 5 |
| | | statement.pdf | b47b39fb2713f8301de00181cd16f3b34c2 d1a8b | , | 2 |
| | Multip | art Description/PDF files in . | zip description | | |
| | Document Description | | Start | End | |
| | Power of Attorney | | 1 | 1 | |
| - | Assignee showing of ownership per 37 CFR 3.73(b). | | 2 | 5 | |
| | | | | | |

| 6 | Fee Worksheet (SB06) | fee-info.pdf | 32808 ee9f0a714b96acb9a52c73d2d90917464c0 0e47e | no | 2 |
|--|--|---|--|---|--|
| Warnings : | | | | | |
| Information | | | | | |
| | | Total Files Size (in bytes): | 20 | 48828 | |
| characterize Post Card, as <u>New Applica</u> If a new appl 1.53(b)-(d) a Acknowledg <u>National Sta</u> If a timely su U.S.C. 371 ar national stag <u>New Interna</u> If a new international an international stage | ledgement Receipt evidences receip d by the applicant, and including page described in MPEP 503. tions Under 35 U.S.C. 111 ication is being filed and the applica nd MPEP 506), a Filing Receipt (37 CF ement Receipt will establish the filin ge of an International Application un bmission to enter the national stage of other applicable requirements a F ge submission under 35 U.S.C. 371 wi tional Application Filed with the USP mational application is being filed an ternational Filing Date (Form PCT/RC urity, and the date shown on this Ack on. | ge counts, where applicable. tion includes the necessary c R 1.54) will be issued in due o g date of the application. <u>Inder 35 U.S.C. 371</u> of an international applicatio orm PCT/DO/EO/903 indication ill be issued in addition to the <u>TO as a Receiving Office</u> and the international application d MPEP 1810), a Notification D/105) will be issued in due co | It serves as evidence components for a filir course and the date s on is compliant with ng acceptance of the e Filing Receipt, in du ion includes the nece of the International ourse, subject to pres | e of receipt s ng date (see shown on th the condition application e course. essary comp Application scriptions co | 37 CFR 37 CFR is ons of 35 as a onents for Number oncerning |

Approved for use through 09/30/2010. 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 contains a valid OMB control number.

| Application Data Sheet 37 CFR 1.76 | | Attorney Docket Number | 70314/01061 | | |
|------------------------------------|--|------------------------|-------------|--|--|
| | | Application Number | | | |
| Title of Invention | itle of Invention Handheld Electronic Device and Associated Method Providing Time Data in a Messaging Environment | | | | |
| bibliographic data arrar | eet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the ged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. | | | | |

document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Applicant Information:

| Applic | ant 1 | | | | | | | | | |
|---------|---------------------------------|---|-----------|--|-------------------|-------------|-----------|----------|----------------------------------|----------|
| Applic | ant Authority 🖲 | Inventor | OLe | egal | Representativ | e under 35 | U.S.C. 11 | 7 | OParty of Interest under 35 U.S. | C. 118 |
| Prefix | | | | | Middle Na | me | | Farr | nily Name | Suffix |
| | Gerhard | | | | D | | | KLA | SSEN | |
| Resid | ence Informatio | n (Select (| One) | 0 | US Residenc | y 💽 N | on US Re | sidenc | y 🔿 Active US Military Service | : : |
| City | Waterloo | | | Со | ountry Of Re | sidence | CA | | | |
| Citizer | nship under 37 C | FR 1.41(b |) | CA | | | - | | | |
| Mailin | g Address of Ap | plicant: | l. | | | | | | | |
| Addre | ss 1 | 295 Philli | p Stree | et, E | xt. 72999 | | | | | |
| Addre | ss 2 | | | | | | | | | |
| City | Waterloo | 1 | | | | Sta | te/Provi | nce | ON | |
| Postal | Code | N2L 3W8 | | | | Country | CA | | I | |
| • • | | | | | | | | · · · · | | |
| Applic | | | | enal | Representativ | e under 35 | USC 11 | 7 | ⊖Party of Interest under 35 U.S | C 118 |
| Applic | ant Authority • Given Name | | | egal Representative under 35 U.S.C. 11 Middle Name | | | 0.0.0.1 | <u> </u> | | |
| FIGUX | - | | | | | | | | RMALD | Suffix |
| Pagid | Christopher Ience Informatio | n (Salaat (| <u>()</u> | | R. US Residenc | y (•) M | lon US Re | | | <u> </u> |
| City | Kitchener | n (Select | | $\overline{\mathbf{O}}$ | | | CA | sidenc | y O Active US Military Service | ; |
| - | | | - i | | | | | | | |
| | nship under 37 C | ••••••••••••••••••••••••••••••••••••••• | וי | CA | \ | | | | | |
| Addre | g Address of Ap | - | | . – | | | | | | |
| | | 295 Philli | p Stre | et, E | xt. 72876 | | | | х. | |
| Addre | | | | | | | | | | |
| City | Waterloo | 1 | | | | · | te/Provi | nce | ON | |
| Postal | I Code | N2L 3W8 | 3 | | | Country | CA | | | |
| Applic | cant 3 | | | | | | | | | |
| | cant Authority 🦲 |)Inventor | OLe | egal | Representativ | ve under 35 | U.S.C. 1 | 17 | OParty of Interest under 35 U.S | .C. 118 |
| Prefix | | ' | | | Middle Na | me | | Fan | nily Name | Suffix |
| | Lawrence | | | | E. | | | KUHL | | |
| Resid | lence Informatio | n (Select | One) | 0 | US Residend | y 💽 N | lon US Re | sidenc | cy 🔘 Active US Military Servic | 9 9 |
| City | Waterloo | | | Co | ountry Of Re | sidence | CA | | | |

F10/30/14(11-00)

Approved for use through 09/30/2010. 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 contains a valid OMB control number.

| Application Da | ta Sheet 37 CFR 1.76 | Attorney Docket Number | 70314/01061 |
|------------------------------------|------------------------------|--------------------------------|--|
| Application Data Sheet S7 CFK 1.76 | | Application Number | |
| Title of Invention | Handheld Electronic Device a | nd Associated Method Providing | g Time Data in a Messaging Environment |

Citizenship under 37 CFR 1.41(b) CA Mailing Address of Applicant: Address 1 295 Phillip Street, Ext. 72572 Address 2 City Waterloo State/Province ON **Postal Code** N2L 3W8 Country CA All Inventors Must Be Listed - Additional Inventor Information blocks may be Add generated within this form by selecting the Add button.

Correspondence Information:

| Enter either Customer For further information | Number or complete the Correspondenc n see 37 CFR 1.33(a). | e Information section below. | |
|--|---|------------------------------|--------------|
| An Address is bei | ng provided for the correspondence Info | rmation of this application. | |
| Customer Number | 91704 | | |
| Email Address | rimpatent@blakes.com | Add Email | Remove Email |

Application Information:

| Title of the Invention | Handheld Electron Environment | ic Device and Asso | ciated Method Providing Time Data in a Messaging | |
|--------------------------|----------------------------------|--------------------|--|---|
| Attorney Docket Number | 70314/01061 | | Small Entity Status Claimed | |
| Application Type | Nonprovisional | | | |
| Subject Matter | Utility | | | |
| Suggested Class (if any) | | | Sub Class (if any) | |
| Suggested Technology C | enter (if any) | | | |
| Total Number of Drawing | Sheets (if any) | 7 | Suggested Figure for Publication (if any) | 4 |
| Dublication Inform | 4! | _i | ····· | |

Publication Information:

Request Early Publication (Fee required at time of Request 37 CFR 1.219)

Request Not to Publish. I hereby request that the attached application not be published under 35 U.S. C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

| Repres | entative | information | should be | provi | ded for all | practi | tioners having a | power o | f attorney | in the a | applic | cation. | Providing |
|-----------|------------|----------------|-----------|----------|-------------|----------|---------------------|------------|------------|-----------|--------|---------|-----------|
| this info | ormation | in the Applica | tion Data | Sheet | does not co | nstitute | e a power of attorr | ney in the | applicatio | n (see 37 | CFR | 1.32). | - |
| Enter | either | Customer | Number | or | complete | the | Representative | Name | section | below. | lf | both | sections |
| are con | npleted th | ne Customer | Number w | ill be u | sed for the | Repres | sentative Informati | ion during | processir | ng. | | | |
| | | | | | | | | | | | | | |

 \square

FIU/30/14 (11-00)

Approved for use through 09/30/2010. 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 contains a valid OMB control number.

| Application Da | ta Sheet 37 CFR 1.76 | Attorney Docket Number | 70314/01061 |
|--------------------|------------------------------|-------------------------------|--|
| Application Da | ILA SHEEL ST OFK 1.70 | Application Number | |
| Title of Invention | Handheld Electronic Device a | nd Associated Method Providin | g Time Data in a Messaging Environment |
| Customer Number | 91704 | | |

Domestic Benefit/National Stage Information:

| entry from a PCT a | application. | Providing this in | formation in the appli | 5 U.S.C. 119(e), 120, 121, ication data sheet constitu , and need not otherwise l | ites th | e specific refe | erence required by |
|--------------------------|--------------|--------------------|-----------------------------|---|----------------|--------------------------|----------------------------|
| Prior Application Status | | Pending | | Remove | | | |
| Application Number | | Continuity Type | | Prior Application Number | | Filing Date (YYYY-MM-DD) | |
| | | Continuation of | | 13111675 | | 2011-05-19 | |
| Prior Applicati | on Status | Patented | | Remove | | | |
| Application Number | Cont | tinuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | | tent Number | Issue Date (YYYY-MM-DD) |
| 13111675 | Continua | tion of | 10944925 | 2004-09-20 | 2004-09-20 797 | | 2011-06-28 |
| Prior Applicati | on Status | Expired | | Remove | | | |
| Application N | lumber | Continuity Type | | Prior Application Number | | Filing Date (YYYY-MM-DD) | |
| 10944925 | | non provisional of | | 60504379 | | 2003-09-19 | 4 |
| Additional Dome | | | ge Data may be ge | enerated within this form | n | | |

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

| | | R | emove |
|----------------------------------|----------------------|---------------------------------|------------------|
| Application Number | Country ⁱ | Parent Filing Date (YYYY-MM-DD) | Priority Claimed |
| | | | ◯ Yes ◯ No |
| Additional Foreign Priority Data | may be generated wit | hin this form by selecting the | |

Add button.

Assignee Information:

| 5 | in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 signment recorded in the Office. |
|-------------------------|--|
| Assignee 1 | |
| If the Assignee is an O | rganization check here. |
| Organization Name | Research In Motion Limited |

F10/00/14(11-00)

Approved for use through 09/30/2010. 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 contains a valid OMB control number.

| Annilia stian Da | to Sheet 27 CED 4 76 | Attorney Docket Number | 70314/01061 |
|--------------------|------------------------------|-------------------------------|--|
| Application Da | ta Sheet 37 CFR 1.76 | Application Number | |
| Title of Invention | Handheld Electronic Device a | nd Associated Method Providin | g Time Data in a Messaging Environment |

| Address 1 | 295 Phillip Street | 295 Phillip Street | | | | | |
|-------------------------|--------------------|--------------------|---------|--|--|--|--|
| Address 2 | www.httl | | | | | | |
| City | Waterloo | State/Province | ON | | | | |
| Country ⁱ CA | | Postal Code | N2L 3W8 | | | | |
| Phone Number | | Fax Number | | | | | |
| Email Address | | | | | | | |

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form-of the signature.

| Signature | K | hitt of | Date (YYYY-MM-DD) | 2012-09-13 |
|------------|-------|------------------|---------------------|------------|
| First Name | Brett | Last Name Slaney | Registration Number | 58772 |
| | -/ (| 14 | | |

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.

HANDHELD ELECTRONIC DEVICE AND ASSOCIATED METHOD PROVIDING TIME DATA IN A MESSAGING ENVIRONMENT

1

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. Patent Application No. 13/111,675 filed on May 19, 2011 which is a continuation of U.S. Patent Application No. 10/944,925 filed on September 20, 2004 which claims the benefit of U.S. Provisional Application No. 60/504,379 entitled filed on Sep. 19, 2003, all of which are hereby incorporated into the present application

10 by reference.

5

BACKGROUND OF THE INVENTION

1. Field of the Invention

[0002] The invention relates generally to handheld electronic devices and, more particularly, to
 a handheld electronic device and a method for providing information representative of the
 times of certain communications in a messaging environment.

2. Background of the Invention

[0003] Numerous types of handheld electronic devices are known. Examples of such handheld electronic devices include, for instance, personal data assistants (PDAs), handheld computers,

- 20 two-way pagers, cellular telephones, and the like. Such handheld electronic devices are generally intended to be portable, and thus are relatively small. Many handheld electronic devices also feature wireless communication capability, although many such handheld electronic devices are stand-alone devices that are functional without communication with other devices. With advances in technology, handheld electronic devices are being configured
- to include greater numbers of features while having relatively smaller form factors.

[0004] Electronic devices, including handheld electronic devices, are capable of numerous types of communication. One type of communication is "messaging", and one type of messaging is "instant messaging" which enables a first device to send a message on a more

30 or less instantaneous basis to a second device. With most all instant messaging, a given electronic device is provided with an interface that outputs the various communications that have occurred between the electronic device and another electronic device during a messaging "conversation". A sample output on an electronic device that is representative of the various communications that have occurred during a conversation may be as follows:

22281855.1

[0005] Hi Honey, how was your day?

[0006] <Brutal! Larry embarrassed me in front of everybody.

5

[0007] What a Jerk!

[0008] <Yeah, but I got him back later with a karate chop! ③

10 [0009] good for you.

[0010] In this example, incoming messages are indicated by a greater than ">"mathematical symbol, and outgoing messages are indicated by a less than "<" mathematical symbol. If the conversation continues quickly, i.e., substantially without interruption, the messages do not

15 need a time stamp on them. In the environment of a handheld electronic device, it would be desirable to avoid unnecessary time stamps and other unnecessary output since it occupies too much valuable space on the limited display of the handheld electronic device.

[0011] In some messaging circumstances, however, it may be desirable for information regarding certain timing aspects of conversation to be available to a user. Nevertheless, the limited space available on a display of a handheld electronic device has made a solution difficult. It thus would be desirable to provide an improved handheld electronic device and an associated method that provide time data in a messaging environment.

25 SUMMARY OF THE INVENTION

[0012] An improved handheld electronic device and an associated method are provided in which time data regarding certain aspects of a messaging conversation on a handheld electronic device are made available to a user. Such time data is provided, for instance, in situations where an interruption has occurred during a messaging conversation. Time data can

30 also be provided to a user on demand in certain circumstances.

[0013] Accordingly, an aspect of the invention is to provide an improved handheld electronic device and a method in which data regarding the times at which certain communications have

22281855.1

occurred in a messaging environment are made available to a user.

[0014] Another aspect of the invention is to provide an improved handheld electronic device and a method that enables a user to be made aware of certain timing aspects of a

5 conversation in a messaging environment.

[0015] Another aspect of the invention is to provide an improved handheld electronic device and a method in which data regarding the times at which certain communications have occurred are made available to a user while limiting the amount of display area that is occupied by such data.

[0016] Another aspect of the invention is to provide an improved handheld electronic device and a method in which data can be provided regarding the elapsed time since a communication.

15

10

[0017] Accordingly, an aspect of the invention is to provide an improved method of providing an output on at least one of a first electronic device and a second electronic device, with the first electronic device being adapted to be in electronic communication with a second electronic device. The general nature of the method can be stated as including determining

20 that a first messaging communication has occurred at a first time between the first device and the second device, outputting a first indication that is representative of at least a portion of the first communication, determining that a predetermined period of time has elapsed since the first time substantially without further communication between the first device and the second device and, responsive to determining that a predetermined period of time has elapsed, 25 outputting a first time stamp representative of the first time.

[0018] Another aspect of the invention is to provide an improved method of providing an output on at least one of a first electronic device and a second electronic device, with the first electronic device being adapted to be in electronic communication with a second electronic

30 device. The general nature of the method can be stated as including determining that a first messaging communication has occurred at a first time between the first device and the second device, outputting a first indication that is representative of at least a portion of the first communication, detecting a predetermined input and, responsive to detecting a predetermined

22281855.1

input, outputting a first time stamp representative of the first time.

[0019] Another aspect of the invention is to provide an improved method of providing an output on at least one of a first electronic device and a second electronic device, with the first

- 5 electronic device being adapted to be in electronic communication with a second electronic device. The general nature of the method can be stated as including determining that a first messaging communication has occurred at a first time between the first device and the second device, outputting a first indication that is representative of at least a portion of the first communication, determining that a first period of time has elapsed since the first time
- 10 substantially without further communication between the first device and the second device and, responsive to determining that a first period of time has elapsed, outputting a first time stamp representative of the first period of time.

[0020] Another aspect of the invention is to provide an improved handheld electronic device of

- 15 a type that is adapted to be in electronic communication with another electronic device. The general nature of the handheld electronic device can be stated as including a processor apparatus, an input apparatus, and an output apparatus. The processor apparatus includes a processor and a memory and is adapted to receive input from the input apparatus and to provide output to the output apparatus. The processor apparatus also is adapted to determine
- 20 that a first messaging communication has occurred at a first time between the handheld electronic device and the other electronic device. The output apparatus is adapted to output a first indication that is representative of at least a portion of the first communication. The processor apparatus is adapted to determine that a predetermined period of time has elapsed since the first time substantially without further communication between the handheld
- 25 electronic device and the other electronic device. Responsive to a determination that a predetermined period of time has elapsed, the output apparatus is adapted to output a first time stamp representative of the first time.

BRIEF DESCRIPTION OF THE DRAWINGS

30 [0021] A full understanding of the invention can be gained from the following Description of the Preferred Embodiments when read in conjunction with the accompanying drawings in which:

[0022] FIG. 1 is an exemplary top plan view of a handheld electronic device in accordance with

22281855.1

the invention which can be used in conjunction with an improved method in accordance with the invention;

[0023] FIG. 2 is a schematic view of the handheld electronic device of FIG. 1;

5

[0024] FIG. 3 is a schematic view of the handheld electronic device of FIG. 1 and another device in a messaging environment;

[0025] FIG. 4 is an exemplary view of an output provided in accordance with an aspect of the 10 method of the invention;

[0026] FIG. 5 is another exemplary view of an output provided in accordance with an aspect of the method of the invention;

15 [0027] FIG. 6a is another exemplary view of an output provided in accordance with an aspect of the method of the invention;

[0028] FIG. 6b is another exemplary view of an output provided in accordance with an aspect of the method of the invention;

20

[0029] FIG. 7 is another exemplary view of an output provided in accordance with an aspect of the method of the invention;

[0030] FIG. 8a is another exemplary view of an output provided in accordance with an aspect of the method of the invention;

[0031] FIG. 8b is another exemplary view of an output provided in accordance with an aspect of the method of the invention;

30 [0032] FIG. 9 is another exemplary view of an output provided in accordance with an aspect of the method of the invention; and

[0033] FIG. 10 is another exemplary view of an output provided in accordance with an aspect

22281855.1

of the method of the invention.

[0034] Similar numerals refer to similar parts to the specification.

5 DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0035] An improved handheld electronic device 4 in accordance with the invention is indicated generally in FIG. 1 and is depicted schematically in FIG. 2. The exemplary handheld electronic device 4 includes a housing 8 upon which are disposed an input apparatus 12, an output

10 apparatus 16 and a processor apparatus 20. The input apparatus 12 includes a keypad 24 that can be said to include a plurality of keys 28.

[0036] The output apparatus 16 includes a display 50. The output apparatus 16 can additionally include, for instance, additional indicators such as lights, and the like, and can additionally include an audible output such as a speaker as well as other output devices.

[0037] The processor apparatus 20 includes a processor 52 that can be, for instance, and without limitation, a microprocessor (μ P), and it is responsive to inputs from the input apparatus 12 and provides output signals to the output apparatus 16. The processor

20 apparatus 20 further includes a memory 56 that includes a routine 60 stored therein. The exemplary routine 60 is a messaging routine that can provide a messaging capability on the device 4. It is understood that the memory 56 likely includes a number of other routines that are not expressly mentioned herein. As employed herein, the expression "a number of" and variations thereof shall refer broadly to any nonzero quantity including a quantity of one. The processor 52 interfaces with the memory 56, and the routine 60 is executable on the processor 52.

[0038] The device 4 further includes a wireless communication system. As can be seen in FIG. 3, the device 4 with the routine 60 can interface with a messaging service 62 to wirelessly provide the messaging capability on the device 4. In the depicted exemplary embodiment, the messaging service 62 provides an instant messaging capability on the device 4 and on the other electronic devices having routines that are subscribers to the messaging service 62. The messaging service 62 is schematically depicted as including a server, although the teachings

22281855.1

15

herein are not limited to messaging services that employ a server. For instance, the messaging service could, for example, provide a point-to-point communication capability such as is provided with the Bluetooth protocol, or may provide some other type of communication capability, whether or not wireless.

7

5

10

[0039] FIG. 3 further depicts another device 104 as being a device having a routine that is another subscriber to the messaging service 62. Specifically, the device 104 is an electronic device having a routine 160 thereon which can communicate with the messaging service 62 to provide a messaging capability on the device 104. While the exemplary devices 4 and 104 are depicted as having a wireless connection with the messaging service 62, it is understood that either or both of the devices 4 and 104 may employ a non-wireless communication capability and still not depart from the concept of the invention. It is further understood that while only the two devices 4 and 104 are depicted in FIG. 3 as being subscribers to the messaging service 62, many more subscribers to the messaging service 62 may exist but are not expressly

15 depicted in FIG. 3.

[0040] During the course of an electronic conversation, such as depicted in FIG. 4 between, for instance, the devices 4 and 104, a number of messages 68 are communicated between the devices 4 and 104. An incoming message 72 received on, for instance, the device 4, provides

a visual indication of a communication that has been transmitted from, for instance, the device
104 to the device 4. As can be seen in FIG. 4, an incoming message 72 includes an incoming
symbol 66 and an incoming text portion 70. In the exemplary output depicted herein, the
incoming symbol 66 is a mathematical greater than ">" symbol. The text portion 70 is an
exemplary linguistic output that could be of numerous types of forms, such as in different
languages, and also can include, for instance, symbols and the like that need not necessarily
be a part of any particular language.

[0041] An outgoing message 76 is depicted as including an outgoing symbol 74, and an outgoing text portion 78. In the exemplary output depicted herein, the outgoing symbol 74 is a
 30 mathematical less than "<" symbol. The text portion 78 is an exemplary linguistic output that could be of numerous types of forms.

[0042] As can be further seen from FIG. 4, the exemplary conversation depicted therein

22281855.1

includes a plurality of incoming messages 72 and a plurality of outgoing messages 76 that are transmitted between the devices 4 and 104 at a conversational speed, i.e., at a speed in which back-to-back communications between the devices 4 and 104 occur without a meaningful delay therebetween. Due to the conversational speed of the back-to-back communications, the

- 5 messages 68 do not include an indication of the times at which such messages 68 were transmitted, it being assumed as a general matter that in such circumstances the specific time at which a given message within such a conversation occurred may not be of significance to a user.
- 10 [0043] At a certain point in the exemplary conversation, though, an exemplary message 68 which, for example, may be an outgoing message 76, may also become a non-responded-to message 80, meaning that subsequent to its transmission substantially no additional communication occurs between the device 4 and 104 within a predetermined duration of time. More specifically, as the conversation transpires, the back-to-back incoming messages 72 and
- 15 outgoing messages 76 are displayed adjacent one another. However, after the expiration of a predetermined duration of time after the transmission of a message 68, for instance ten minutes, in which substantially no additional communication occurs between the device 4 and 104, the message 68 is determined in accordance with the invention to be a non-responded-to message 80, and responsive to such determination a first time stamp 84 is output adjacent the
- 20 non-responded-to message 80. For instance, if the non-responded-to message 80 was transmitted at 2:44 PM, and if substantially no additional communication between the device 4 and 104 occurs between 2:44 PM and 2:54 PM, at 2:54 PM the first time stamp 84 "2:44 pm" is output to provide to the users of the devices 4 and 104 an indication that the conversation was interrupted at 2:44 PM. Such selective outputting of the first time stamp 84 generally only
- 25 in response to a message 68 of some significance, such as the terminal message of a conversation, saves space on the display 50. It is noted that the display of the first time stamp 84 typically will occur on both the device 4 and the device 104.

[0044] It is understood, however, that the time duration of ten minutes is completely exemplary and that the time duration could be set at any duration. It is also understood that the first time stamp 84 can be output in response to the occurrence of additional and/or other predetermined events. Moreover, it is noted that the predetermined time duration may be variable depending upon the characteristics of the conversation. For instance, if messages are

22281855.1

being exchanged on a more infrequent basis, such as every nine minutes, the predetermined duration of time after which the first time stamp 84 is output may be adjusted to be twenty minutes, for example.

- 5 [0045] By way of further example, and as is depicted generally in FIG. 5, another message 68 may subsequently be communicated between the devices 4 and 104. Since the message 68 corresponds with a resumption of communication between the devices 4 and 104 after a period of interruption, the message 68 is determined to be a resumption message 88, and a second time stamp 92 is output adjacent the resumption message 88. A user thus can
- 10 determine from the output on the display 50 the period of time during which the conversation was suspended, i.e., the time between transmission of the non-responded-to message 80 and transmission of the resumption message 88. Selective outputting of the second time stamp 92 saves space on the display 50. In this depicted example, the first time stamp 84 is disposed, for example, adjacent the non-responded-to message 80, and the second time stamp 92 is
- 15 disposed, for example, adjacent the resumption message 88. It is also noted that the second time stamp 92 is disposed, for example, between the non-responded-to message 80 and the resumption message 88.
- [0046] As the conversation continues after transmission of the resumption message 88, one of the users of the devices 4 and 104 may determine that a time stamp would desirably be displayed in association with a message 68, such as if the user wished to emphasize to himself or herself, or to the other user, the time at which the message 68 was transmitted. If such a time stamp is desired, the user may activate a user interface 96, such as the exemplary user interface 96 of FIG. 6a, which can manually cause the output of an inserted time stamp 98 adjacent the message 68, as in FIG. 6b. As mentioned above, the inserted time stamp 98 can be made to appear on both the device 4 and the device 104, and it is also noted that, if desired, the inserted time stamp 98 could be made to appear on only one or the other of the devices 4 and 104.
- 30 [0047] As can be seen in FIG. 7, the output could provide a non-responded-to message 180 and a resumption message 188, with a first time stamp 184 being disposed adjacent the non-responded-to message 180, and with a second time stamp 192 being disposed adjacent the resumption message 188. However, in the exemplary output of FIG. 7 the first time stamp 184

9

22281855.1

and the second time stamp 192 are disposed adjacent one another and are both disposed between the non-responded-to message 180 and the resumption message 188. Such an exemplary display of the first and second time stamps 184 and 192 illustrates the gap in the conversation that occurred between transmission of the non-responded-to message 180 and

5 transmission of the resumption message 188. It is noted that the first time stamp 184 and the second time stamp 192 may have been generated in a fashion similar to the generation of the first time stamp 84 and the second time stamp 92.

[0048] As can be seen in FIGS. 8a and 8b, the time stamps can be output in other places. For instance, a text portion of a non-responded-to message 280 may have a beginning 282 and an ending 286. Similarly, a text portion of a resumption message 288 may have a beginning 290 and an ending 294. In accordance with another aspect of the invention, a first time stamp 284 can be output at either the beginning 282 or the ending 286 of the text portion of the nonresponded-to message 280, and in the example of FIG. 8a the exemplary first time stamp 284

15 is output at the beginning 282. Also, a second time stamp 292 can be output at either the beginning 290 or the ending 294 of the text portion of the resumption message 288, and in the example of FIG. 8a the exemplary second time stamp 292 is output at the beginning 290. Other positioning of the first time stamp 284 and the second time stamp 292 are possible within the concept of the invention.

20

25

[0049] For instance, and as another example, FIG. 8b depicts the exemplary first time stamp 284 as being output at the ending 286 while the exemplary second time stamp 292 is output at the beginning 290. FIGS. 8a and 8b depict different exemplary ways in which the first and second time stamps 284 and 292 can be output to provide time data to a user. In FIG. 8a the first and second time stamps 284 and 292 are disposed at a consistent location, i.e., at the beginnings 282 and 290 of the text portions of the non-responded-to message 280 and the resumption message 288. FIG. 8b disposes the first and second time stamps 284 and 292 generally between the ending 286 of the non-responded-to message 280 and the beginning 290 of the resumption message 288, which focuses the attention of the user on the interval

30 during which the conversation was interrupted. Other ways of outputting the first and second time stamps 284 and 292 will be apparent.

[0050] Another way of providing time stamps in a fashion that saves space on the display 50 is

22281855.1

depicted in FIG. 9. Specifically, the messages 368 are output without displayed time stamps, but upon moving a cursor 374 or other pointing device or other device in proximity to a given message 368 a corresponding requested time stamp is output adjacent the message 368. In this way, the messages 368 can be provided without also displaying time stamps, but if a time

5 stamp is desired as to any of the messages 368 a requested time stamp 378 can be readily output. In this regard, the requested time stamp 378 may be output for only a predetermined duration of time, for instance a few seconds, and/or the requested time stamp 378 may be deleted from the display 50 upon a detection of another input, such as from the input apparatus 12 or otherwise. In this regard, all of the messages 368 can have time stamps associated therewith that are not displayed until requested.

[0051] It is also noted that the requested time stamp 378 need not be requested by the cursor 374, and rather could be requested with virtually any other type of input desired, such as with a stylus and a touch sensitive screen, by an actuation of a key, or by the use of alternate pointing or other devices. Other ways of managing the output of the requested time stamp 378 as to any of the messages 368 will be apparent.

[0052] It is noted that the appearances of the various time stamps herein is completely exemplary, and that the time stamps could be provided in any format without departing from the concept of the invention. In this regard, and in accordance with another aspect of the invention, a given time stamp may be a smart time stamp and provide additional information depending upon the prevailing circumstances. For instance, if the first time stamp 84 of FIG. 4 was output as indicated above, and if the conversation was not resumed until the following day, the first time stamp 84 potentially could be configured to automatically change from being displayed as "2:44 pm" on the day of communication of the non-responded-to message 80 to being displayed as, for instance, "2:44 pm Thursday" or, for instance, "2:44 PM September 17, 2004" or, for instance, "2:44 pm yesterday" on the following day, although other configurations will be apparent and will be within the concept of the invention.

[0053] Further in this regard, the time stamps can be configured to depict relative times, i.e., elapsed times, rather than absolute times. For instance, and as is depicted generally in FIG.
 10, a time stamp 478 associated with a message 468 can be output to say, for example, "less than one minute ago", meaning that the message 468 that has been activated by the cursor

22281855.1

15

474 has been transmitted less than one minute prior to the current time.

[0054] Such a time stamp 478 could be configured to be an active time stamp, meaning that it would change as time progressed. For instance, the time stamp 478 could progressively

5 change from saying "less than one minute ago" to saying "one minute ago", "two minutes ago", "forty-five minutes ago", and the like as time progressed. Such a time stamp also could be configured, for instance, to revert back to displaying an absolute time after the expiration of a given time duration. For example, once the message 468 is one hour old, for instance, the time stamp 478 might be configured to no longer output a relative time such as "fifty-nine minutes ago", and rather to output an absolute time such as "2:54 pm". Other variations can be provided without departing from the concept of the invention.

[0055] If it is desired to provide such time stamps that output relative times, it might also be desirable to output such time stamps in any of the fashions set forth above, and such time

- 15 stamps potentially could be configured to be output without first detecting a delay or a break in the "conversation". For instance, the time stamp "less than a minute ago" could be displayed immediately upon receiving a message on the handheld electronic device 4, if such a configuration is desired. In such a configuration, and in order to save space on the display 50, the handheld electronic device 4 may be configured to provide such a relative time stamp only
- for the most recently transmitted message. That is, responsive to detecting the transmission of a message, the handheld electronic device may be configured to substantially immediately output a time stamp such as "less than a minute ago". After one minute the time stamp may be altered to say "one minute ago", and the like. However, upon the transmission of an additional message, the time stamp for the prior message can be deleted and a new time stamp such as "less than a minute ago" can be provided with respect to the new message.
 - [0056] Such relative time stamps provide to the user an expedited understanding of the timing aspects of the message. That is, the user can understand an aspect of the time of transmission without having to refer to the current time. This advantageously saves effort by
- 30 the user because it eliminates the mental step of determining the current time and subtracting therefrom an absolute time displayed by a time stamp to determine the elapsed time since transmission of the message.

[0057] The different fashions of selectively providing intelligent time data in the form of selectively output time stamps advantageously saves valuable space on the display 50. Moreover, such selective outputting of time stamps advantageously avoids unnecessary visual clutter on the display 50.

5

[0058] While specific embodiments of the invention have been described in detail, it will be appreciated by those skilled in the art that various modifications and alternatives to those details could be developed in light of the overall teachings of the disclosure. Accordingly, the particular arrangements disclosed are meant to be illustrative only and not limiting as to the scope of the invention which is to be given the full breadth of the claims appended and any

10

and all equivalents thereof.

Claims:

1. A method of displaying an instant messaging conversation on a display of an electronic device, the method comprising:

displaying a conversation of instant messages;

5 displaying a first time information for an instant message in the conversation in response to a first input;

changing the first time information for the instant message to a second time information as time progresses; and

displaying the second time information in response to a second input.

10

2. The method of claim 1, wherein the first time information comprises an absolute time.

3. The method of claim 2, wherein the second time information further comprises additional information.

15

4. The method of claim 3, wherein the additional information comprises an indication of a day on which the instant message was sent.

5. The method of claim 1, wherein at least one of the first time information and second 20 time information comprises a relative time.

6. The method of claim 5, wherein the second time information comprises an absolute time after expiration of a predetermined duration of time.

25 7. The method of claim 1, wherein the first time information is displayed for only a predetermined duration of time.

8. The method of claim 1, wherein at least one of the first input and second input comprises detecting a pointing device in proximity to the instant message.

30

9. An electronic device for displaying an instant messaging conversation, the electronic device comprising:

a display;

a memory; and

a processor electronically coupled with the display and the memory, the processor configured to:

display a conversation of instant messages;

display a first time information for an instant message in the conversation in response to a first input;

change the first time information for the instant message to a second time information as time progresses; and

display the second time information in response to a second input.

10. The electronic device of claim 9, wherein the first time information comprises an absolute time.

11. The electronic device of claim 10, wherein the second time information further 15 comprises additional information.

12. The electronic device of claim 11, wherein the additional information comprises an indication of a day on which the instant message was sent.

20 13. The electronic device of claim 9, wherein at least one of the first time information and second time information comprises a relative time.

14. The electronic device of claim 13, wherein the second time information comprises an absolute time after expiration of a predetermined duration of time.

25

5

10

15. The method of claim 9, wherein the first time information is displayed for only a predetermined duration of time.

16. The electronic device of claim 9, wherein at least one of the first input and second input 30 comprises detecting a pointing device in proximity to the instant message.

17. A non-transitory computer readable medium comprising computer executable instructions embedded thereon for execution by a processor of an electronic device such that, when executed, cause the processor to:

display a conversation of instant messages;

display a first time information for an instant message in the conversation in response to a first input;

change the first time information for the instant message to a second time information as time progresses; and

display the second time information in response to a second input.

22281855.1

5

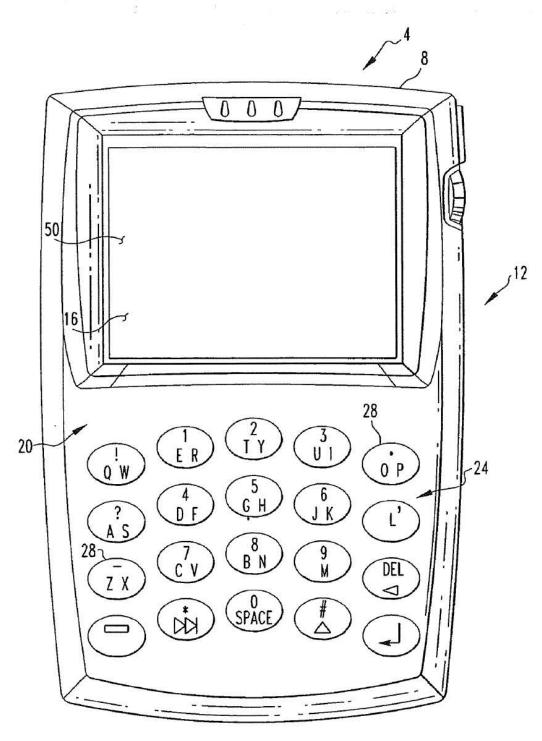
ABSTRACT

An improved handheld electronic device and an associated method are provided in which time data regarding certain aspects of a messaging conversation on a handheld electronic device are made available to a user. Such time data is provided, for instance, in situations where an

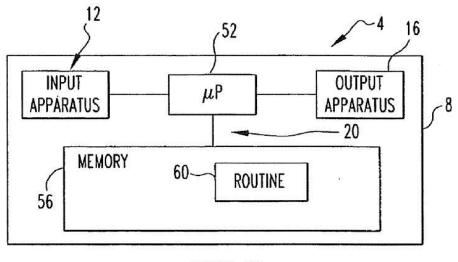
5 interruption has occurred during a messaging conversation. Time data can also be provided to a user on demand in certain circumstances.

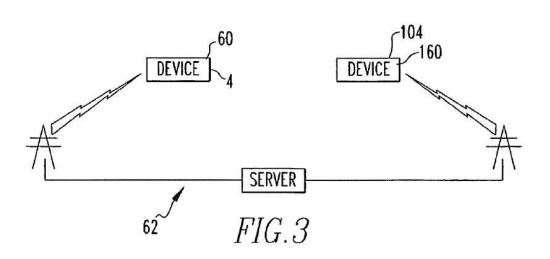
10

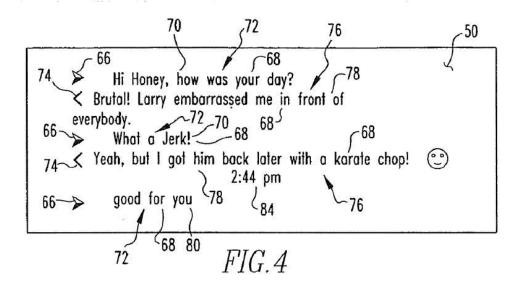
17

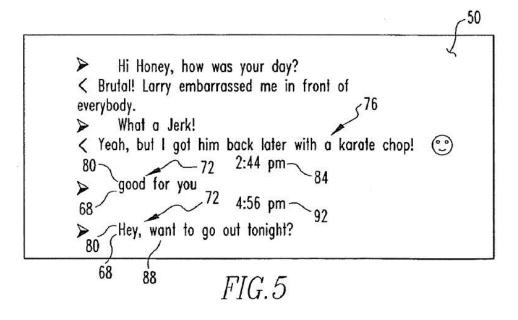


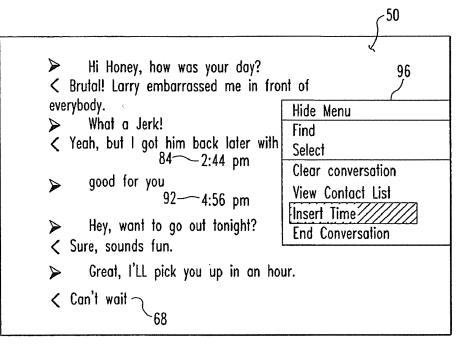
(4)











:

FIG.6a

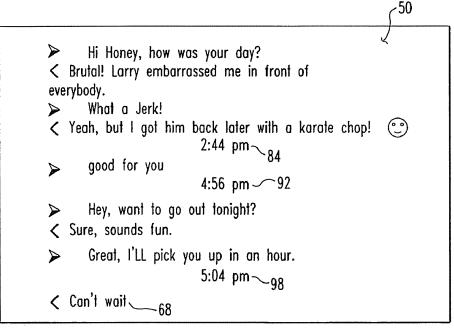
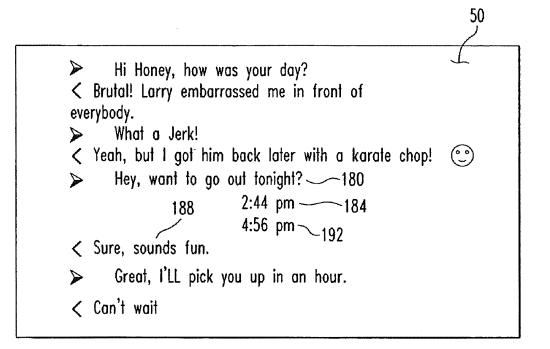


FIG.6b



50

FIG.8a

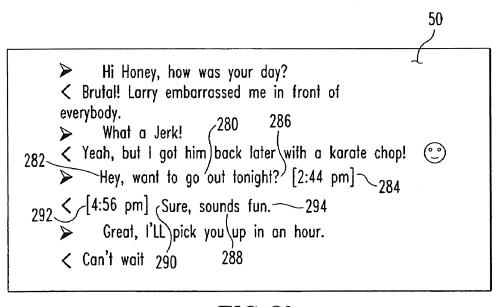
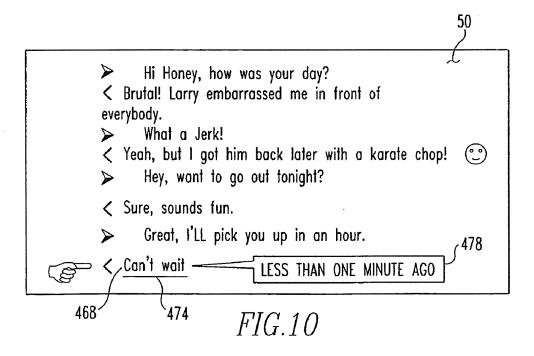


FIG.8b

50 Hi Honey, how was your day? \triangleright Srutal! Larry embarrassed me in front of everybody. What a Jerk! \triangleright Yeah, but I got him back later with a karate chop! ()-Hey, want to go out tonight? -(F 2:44 pm 378 Sure, sounds fun. 368-< 374 Great, I'LL pick you up in an hour. < Can't wait



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. Application or Docket Number PATENT APPLICATION FEE DETERMINATION RECORD Filing Date 13/615.419 09/13/2012 To be Mailed Substitute for Form PTO-875 APPLICATION AS FILED - PART I OTHER THAN SMALL ENTITY OR SMALL ENTITY (Column 1) (Column 2) FOR NUMBER FILED NUMBER EXTRA RATE (\$) FEE (\$) RATE (\$) FEE (\$) BASIC FEE N/A N/A N/A N/A 37 CFR 1.16(a) (b), or (c) SEARCH FEE N/A N/A N/A N/A CEB 1 16(k) or (m)) EXAMINATION FEE N/A N/A N/A N/A (37 CFR 1.16(o), (p), or (q)) TOTAL CLAIMS OB minus 20 = XS X S (37 CEB 1.16(i)) INDEPENDENT CLAIMS (37 CFR 1,16(h)) X \$ X S minus 3 = If the specification and drawings exceed 100 sheets of paper, the application size fee due APPLICATION SIZE FEE is \$250 (\$125 for small entity) for each (37 CFR 1.16(s)) 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 OTHER THAN SMALL ENTITY SMALL ENTITY (Column 3) OR (Column 1) (Column 2) CLAIMS HIGHES' PRESENT ADDITIONAL ADDITIONAL REMAINING NUMBER RATE (\$) RATE (\$) PREVIOUSLY AFTER EXTRA FEE (\$) FEE (\$) MEN AMENDMENT PAID FOR Total (37 CFR Minus ** OR X S X \$ = = 1.16(1) AMENDI Independent *** Minus OR XS X \$ -(37 CER 1.16/h) Application Size Fee (37 CFR 1.16(s)) OR FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16()) TOTAL TOTAL OB ADD'L ADD'L FEE FEE (Column 3) (Column 1) (Column 2) CLAIMS HIGHES PRESENT ADDITIONAL ADDITIONAL REMAINING NUMBER RATE (\$) RATE (\$) AFTER PREVIOUSLY EXTRA FEE (\$) FEE (\$) AMENDMENT PAID FOR Total (37 CEB AMENDMEN Minus OR XS XS Independent Minus *** XS OR X S Application Size Fee (37 CFR 1.16(s)) OB FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) TOTAL TOTAL ADD'L OR ADD'L FEE FEE * If the entry in column 1 is less than the entry in column 2, write "0" in column 3. Legal Instrument Examiner: ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". JUDY *** 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 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,

PTO/SB/06 (07-06)

Approved for use through 1/31/2007. OMB 0651-0032

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.