The projected patent number and issue date are specified above.

**Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 1233 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

**APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):**

Puneet Kumar Arora, New Delhi, INDIA;
Diane R. Hammerstad, Corvallis, OR;

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 and facilitate 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 SelectUSA.gov.
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Complete and send this form, together with applicable fee(s), to: Mail
Mail Stop ISSUE FEE
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Alexandria, Virginia 22313-1450
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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

22879 7590 04/11/2017
HP Inc.
3390 E. Harmony Road
Mail Stop 35
FORT COLLINS, CO 80528-9544

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Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor’s name)
(Signature)
(Date)

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.
13/562,756 07/31/2012 Puneet Kumar Arora 82969831 1884

TITLE OF INVENTION: REMINDER MESSAGES

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EXAMINER ART UNIT CLASS-SUBCLASS
YUN, CARINA 2194 719-318000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
   - Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
   - "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
   - The names of up to 3 registered patent attorneys or agents OR, alternatively,
   - The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)
   PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

   (A) NAME OF ASSIGNEE
   Hewlett-Packard Development Company, L.P.
   (B) RESIDENCE: (CITY and STATE OR COUNTRY)
   Houston TX

   Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☑ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
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   - [ ] Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)
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   - [ ] Advance Order - # of Copies

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   - [ ] Applicant certifying micro entity status. See 37 CFR 1.29
   - [ ] Applicant asserting small entity status. See 37 CFR 1.27
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   NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status. Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

   NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

   Authorized Signature
   /C. Blake Sorensen, Reg No 60108/
   Date 2017-06-21

   Typied or printed name
   C. Blake Sorensen
   Registration No. 60108
## Electronic Patent Application Fee Transmittal

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<td><strong>First Named Inventor/Applicant Name:</strong></td>
<td>Puneet Kumar Arora</td>
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**Payment information:**

- **Submitted with Payment:** yes
- **Payment Type:** DA
- **Payment was successfully received in RAM:** $960
- **RAM confirmation Number:** 062217INTEFSW00004807082025

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:
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#### Warnings:

#### Information:

| Total Files Size (in bytes): | 92863 |

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**New Applications Under 35 U.S.C. 111**

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

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

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

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### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

<table>
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<th>Application Number</th>
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#### U.S. PATENT DOCUMENTS

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#### FOREIGN PATENT DOCUMENTS

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant’s unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 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.
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22879 7590 04/25/2017
HP Inc.
3390 E. Harmony Road
Mail Stop 35
FORT COLLINS, CO 80528-9544

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):

ipa.mail@hp.com
barbl@hp.com
yvonne.bailey@hp.com
-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 02/23/2017.
   - A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was/were filed on ______.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ______; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 1-20. As a result of the allowed claim(s), you may be eligible to benefit from the Patent Prosecution Highway program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:
   - a) ☐ All
   - b) ☐ Some
   - c) ☐ None of the:
     1. ☐ Certified copies of the priority documents have been received.
     2. ☐ Certified copies of the priority documents have been received in Application No. ______.
     3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
   * Certified copies not received: ______.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   - Including changes required by the attached Examiner’s Amendment / Comment or in the Office action of Paper No./Mail Date ______.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner’s comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)
1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 06/22/2015
3. ☐ Examiner’s Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date ______.

/Carinia Yun/
Examiner, Art Unit 2194

/H. S. Sough/
SPE, Art Unit 2194
NOTICE OF ALLOWANCE AND FEE(S) DUE

EXAMINER
YUN, CARINA

ART UNIT
PAPER NUMBER
2194

DATE MAILED: 04/11/2017

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.
13/562,756 07/31/2012 Puneet Kumar Arora 82969831 1884

TITLE OF INVENTION: REMINDER MESSAGES

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THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.
PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

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Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate “FEE ADDRESS” for maintenance fee notifications.

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3390 E. Harmony Road
Mail Stop 35
FORT COLLINS, CO 80528-9544

4a. The following fee(s) are submitted:

NOTE:

5. Change in Entity Status (from status indicated above)

3.

CFR 1.363).

TITLE

Please

PTOL-85 Part B (10-13) Approved for use through 10/31/2013.
Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.
The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number’s legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. 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.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.
Notice of Allowability

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 02/23/2017.
   A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was/were filed on ______.

2. ☑ An election was made by the applicant in response to a restriction requirement set forth during the interview on ______; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 1-20. As a result of the allowed claim(s), you may be eligible to benefit from the Patent Prosecution Highway program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   Certified copies:
   a) ☐ All b) ☐ Some c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. ______.
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
   * Certified copies not received: ______.

Applicant has THREE MONTHS FROM THE “MAILING DATE” of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as “replacement sheets”) must be submitted.
   ☐ including changes required by the attached Examiner’s Amendment / Comment or in the Office action of Paper No./Mail Date ______.
   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner’s comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)
1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date ______
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date ______.

/Carina Yun/
Examiner, Art Unit 2194
DETAILED ACTION

Reasons for Allowance

The Board of Patent Appeals and Interferences reversed the rejection(s) against independent claim(s) 1, 14, 20 and dependent claim(s) 2-13, 15-19.

MPEP §1214.04 states:

A complete reversal of the examiner’s rejection brings the case up for immediate action by the examiner. If the reversal does not place an application in condition for immediate allowance (e.g., the Board has entered a new ground of rejection under 37 CFR 41.50(b)), the examiner should refer to the situations outlined in MPEP § 1214.06 for appropriate guidance.

In accordance with MPEP §1214.04, since the Board has not entered any new ground of rejection(s), the reversed claims 1-20 are in condition for allowance. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CARINA YUN whose telephone number is (571)270-7848. The examiner can normally be reached on M-Th 10-6pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, SAM SOUGH can be reached on (571)272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/H. S. Sough/
SPE, Art Unit 2194
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CARINA YUN
Examiner, Art Unit 2194

04/01/2017

(H.S. SOUGH)
Supervisory Patent Examiner, Art Unit 2194

04/03/2017

U.S. Patent and Trademark Office
EAST Search History

EAST Search History (Prior Art)

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**Examiner** CARINA YUN  
**Art Unit** 2194

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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):

ipa.mail@hp.com
barbl@hp.com
yvonne.bailey@hp.com
PER CURIAM.

DECISION ON APPEAL

Appellants appeal under 35 U.S.C. § 134(a) from the final rejection of claims 1–20. We have jurisdiction under 35 U.S.C. § 6(b).

We reverse.

STATEMENT OF THE CASE

The Invention

Appellants’ invention relates to a computer system and method “to enable a computer user to easily create, maintain, and retrieve, highly specific and easily understood procurement lists that are associated with defined events.” Spec. ¶ 11. Claims 1, 14, and 20 are independent. Claim 1 is illustrative of the subject matter on appeal:
1. A non-transitory computer-readable storage medium containing instructions, the instructions when executed by a processor causing the processor to:

   receive at a first computer system, via a network, event data descriptive of an event to occur at an event time;

   receive via the network, reminder data descriptive of a reminder time to occur on or before the event time;

   at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and

   at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

See App. Br. (Claims App’x).

Rejections on Appeal


ISSUE

Does the Examiner err by interpreting “an article to be associated with the event” as any information associated to the event in any manner or form?

ANALYSIS

Claim 1 recites “at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation” (see supra (emphasis added)). The Examiner interprets the claim term “an article” as “any information associated to the event in any manner or form” (Ans. 12). See also id. at 3; Final Act. 4. Appellants contend “the Examiner’s interpretation of the term “article” as recited in claim 1 is erroneous.” Reply Br. 2. In support of their position, Appellants refer to the Specification’s disclosure that “article data . . . is descriptive of an article to be procured, and the article is associated with the event” (id. (citing Spec. ¶ 11)). Appellants further refer to the Specification’s disclosure of exemplary articles, including a sweater, equipment to be brought to a game, food items, a cake, birthday decorations, a piñata, and a bicycle. See Reply Br. 2 (citing Spec. ¶¶ 21, 32); App. Br. 7. In view of these disclosures of Appellants’ Specification, Appellants interpret “an article” as “a physical item, not ‘any information’ as asserted by the [Examiner].” Id. Appellants argue that “[b]y interpreting ‘article’ to mean ‘any information,’ the Examiner has completely disregarded the description relating to an ‘article’ that is provided in the Specification.” Id. at 2–3.

Although we decline to adopt Appellant’s interpretation of the term “an article” as being limited to a physical item, we agree with Appellants
that the Examiner’s interpretation of “an article” is impermissibly broad. Claim interpretation is an issue of law that we review de novo. Cordis Corp. v. Boston Scientific Corp., 561 F.3d 1319, 1331 (Fed. Cir. 2009). During prosecution, a recitation is to be accorded its broadest reasonable interpretation in light of Appellants’ Specification, see In re Morris, 127 F.3d 1048, 1054 (Fed. Cir. 1997), without importing limitations from the Specification, see In re Van Geuns, 988 F.2d 1181, 1184 (Fed. Cir. 1993).

A pertinent definition of “article” is “n. 1. [a]n individual thing in a class; an item: an article of clothing.” THE AMERICAN HERITAGE DICTIONARY, SECOND COLLEGE EDITION 130 (2d ed. 1982). In addition, as cited by Appellants, the Specification provides that “an article” is an item “to be procured . . . and is associated with the event” (Spec. ¶ 11). See also id. ¶ 11 (disclosing “items to be procured”); Fig. 3. The Specification also provides examples of “an article,” including an “item[] in the user’s garage or sports equipment room . . . to be brought to the soccer game” (Spec. ¶ 21), “food items to be brought, or purchased and brought, to the family reunion” (id.), and “cake, birthday decorations, a piñata, and a present (a bicycle) . . . to be associated with ‘Julie’s Birthday’ event 236” (id. ¶ 32).

Accordingly, we conclude the broadest reasonable interpretation of the term “article data,” in light of Appellants’ Specification, encompasses data, in addition to the “event data descriptive of the event,” which may be descriptive of an item that is to be procured, and that is associated with the event. The Examiner’s interpretation of “an article” as any information associated to the event in any manner or form is impermissibly broader than the broadest reasonable interpretation of “article data.” Under the
Examiner’s interpretation of “article,” the recited “article” and the recited “article data descriptive of [the] article” could be one and the same, thereby impermissibly reading the words “data descriptive of an article” out of the claim. See In re Wilson, 424 F.2d 1382, 1385 (CCPA 1970).

In view of the foregoing, because the Examiner incorrectly interprets the term “an article,” we conclude the Examiner errs in the rejection of claim 1. Accordingly, we do not sustain the rejection of claim 1, as well as the rejection of independent claims 14 and 20, and dependent claims 2–13 and 15–19, each of which recites “an article” and is rejected based on the same erroneous interpretation discussed above for the rejection of claim 1. See App. Br. (Claims App’x) i–iv; Ans. 4–13; Final Act. 5–12.

DECISION

The decision of the Examiner to reject claims 1–20 is reversed.

REVERSED
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<td>Puneet Kumar Arora</td>
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**HP Inc.**
3390 E. Harmony Road
Mail Stop 35
FORT COLLINS, CO 80528-9544

**EXAMINER**
YUN, CARINA

**ART UNIT**
2194

**PAPER NUMBER**

**NOTIFICATION DATE**
05/25/2016

**DELIVERY MODE**
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Patent Trial and Appeal Board Docketing Notice

Application 13/562,756 was received from the Technology Center at the Board on May 23, 2016 and has been assigned Appeal No: 2016-005779.

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By order of the Patent Trial and Appeal Board.

LNT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

App. No.: 13/562,756 § Confirmation No.: 1884
Applicant: PUNEET KUMAR § Art Unit: 2194
ARORA §
Filed: 07/31/2012 § Examiner: CARINA YUN
Title: REMINDER § Docket No.: 82969831
MESSAGES § (HPI.2193US)

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P.O. Box 1450
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REPLY BRIEF

Sir:

The following sets forth Appellant’s Reply to the Examiner’s Answer dated March 16, 2016.

A. REPLY TO EXAMINER’S ANSWER REGARDING THE § 103 REJECTION OF CLAIMS 1-3, 5-14, AND 17-18 OVER LIU AND CRUCS

Independent claim 1 recites a non-transitory computer-readable storage medium containing instructions, the instructions when executed by a processor causing the processor to:

- receive at a first computer system, via a network, event data descriptive of an event to occur at an event time;
- receive via the network, reminder data descriptive of a reminder time to occur on or before the event time;
- at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and
- at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.
The Appeal Brief explained why the Examiner erred in asserting that Crucs discloses the bolded elements of claim 1 set forth above that the Examiner conceded was not disclosed by Liu. Appeal Brief at 5-9.

1. The Examiner’s interpretation of “article” is erroneous

In response, the Examiner asserted that the term “article” as recited in claim 1 is given a purported broadest reasonable interpretation as being “any information associated to the event in any manner or form.” Examiner’s Answer at 12 (emphasis in original). Thus, according to the Examiner’s “broadest reasonable interpretation,” the term “article” means “any information.”

Appellant respectfully submits that the Examiner’s interpretation of the term “article” as recited in claim 1 is erroneous. As specified by the M.P.E.P., during patent examination, “the pending claims must be ‘given the broadest reasonable interpretation consistent with the specification.’” M.P.E.P. Section 2111, at 2100-36 (emphasis added). Appellant respectfully submits that the Examiner has used an incorrect standard in interpreting the term “article,” by not following the requirement that the interpretation of a claim term is the broadest reasonable interpretation of the term **consistent with the Specification**.

As explained in the Specification of the present application, “article data . . . is descriptive of an article to be procured, and the article is associated with the event.” Specification, ¶ [0011]. As further explained by the Specification, examples of articles include a sweater, equipment to be brought to a game, and food items. *Id.*, ¶ [0021]. In addition, other examples of articles include a cake, birthday decorations, a piñata, and a bicycle. *Id.*, ¶ [0032].

In view of the foregoing passages of the Specification, it is clear that an “article” is a physical item, not “any information” as asserted by the Examiner’s Answer. By interpreting
“article” to mean “any information,” the Examiner has completely disregarded the description relating to an “article” that is provided in the Specification. Thus, the interpretation of “article” adopted by the Examiner is **inconsistent** with the Specification of the present application.

The Examiner asserted that “Appellant refers to a Specification to try to narrow the interpretation of article to a sweater or equipment, or a food item.” Examiner’s Answer at 11. This mischaracterizes what was actually argued in the Appeal Brief. The Appeal Brief merely referred to various examples of articles provided in ¶ [0021] of the Specification to aid the Examiner in the proper interpretation of the term “article.” The Appeal Brief did not state that an article is to be limited to a sweater, equipment, or a food item.

As noted above, the proper interpretation of “article” is that it is a physical item, which is consistent with the Specification of the present application. When the term “article” is properly construed, Appellant respectfully submits that claim 1 is non-obvious over Liu and Cruc's for the reasons stated in the Appeal Brief and those stated in this Reply.

2. **The passages of Cruc's cited in the Examiner’s Answer do not teach the claimed subject matter**

The Examiner’s Answer responded to Appellant’s arguments in the Appeal Brief by asserting that ¶ [0011] of Cruc's “teaches an event by describing an advertised event.” Examiner’s Answer at 12. The Examiner’s Answer further responded by asserting that ¶ [0039] of Cruc's “teaches the article associated with the event by describing the event identifying code/information associated with the event.” *Id.*

Paragraph [0039] of Cruc's states that a mobile telephone “scans or images an event-identifying code from a printed or displayed advertisement.” Cruc's, ¶ [0039]. Cruc also states that a “portion of the event-identifying code is provided to the ESC 310 and used by the ESC 310
to access stored event information associated with the advertised event.” Id. Crucs also states that the “AEF 380 uses the event information to automatically create at least one event entry for the advertised event within the electronic calendar application.” Id.

The assertion by the Examiner that the event-identifying code and event information mentioned in ¶ [0039] of Crucs constitutes the “article” of claim 1 is clearly erroneous. As established above, an article as recited in claim 1 is a physical item, where, according to claim 1, “a reminder message describing the event and the article” is sent via the network to a second computer system, for presentation at the second computer system. In Crucs, the event-identifying code produced from scanning a printed or displayed advertisement merely refers to the event, and is not descriptive of an article, i.e., a physical item. As a result, the reminder that is sent in ¶ [0031] of Crucs merely refers to the event, with no indication provided by Crucs of any reminder message that describes both an event and an article that is to be associated with the event, where the article is described by article data created during an electronic scanning operation.

Moreover, according to claim 1, the receiving of the article data descriptive of the article to be associated with the event is at a time after receipt of the event data. As discussed above, in Crucs, the scanning of an event-identifying code is performed to create event data that is added to a calendar application. Thus, in Crucs, the scanning of the event-identifying code produces event data, whereas in claim 1, at a time after receipt of the event data, article data descriptive of an article to be associated with the event is received.

The “event information” that is described in ¶ [0039] of Crucs also refers to the event, and not to an article, i.e., a physical item, as recited in claim 1. Moreover, the event information of Crucs is analogous to the “event data” that is received at a first computer system of claim 1,
where the event data of claim 1 is “descriptive of an event to occur at an event time.” Note that according to claim 1, the article data descriptive of the article is received via the network at a time after receipt of the event data. Since the event information in ¶ [0039] of Crucs would correspond to the event data of claim 1, Crucs would not provide any teaching or hint of receiving, at a time after receipt of the event data, via the network article data descriptive of the article to be associated with the event.

In addition, the reminder that is sent in ¶ [0031] of Crucs is a reminder of the event. In contrast, the reminder message that is sent at the reminder time in claim 1 describes both the event and the article (to be associated with the event) that is described by article data created during an electronic scanning operation.

In view of the foregoing and in view of the arguments presented in the Appeal Brief, Appellant respectfully submits that the obviousness rejection of claim 1 and its dependent claims over Liu and Crucs is erroneous.

The obviousness rejection of independent claim 14 and its dependent claims over Liu and Crucs is similarly erroneous.
B. CONCLUSION

The remaining arguments in the Examiner’s Answer have either been rebutted above or have been addressed in the Appeal Brief. In view of the foregoing, and in view of the arguments presented in the Appeal Brief, reversal of all final rejections is respectfully requested.

Respectfully submitted,

Date: May 16, 2016

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**Electronic Acknowledgement Receipt**

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<td>Puneet Kumar Arora</td>
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IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Puneet Kumar Arora, et al
Confirmation No.: 1884
Application No.: 13/562756
Examiner: YUN, CARINA
Filing Date: Jul 31, 2012
Group Art Unit: 2194
Title: REMINDER MESSAGES

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TRANSMITTAL OF REPLY BRIEF

Transmitted herewith respect to the Examiner’s Answer mailed on March 16, 2016.

☑ Reply Brief
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Respectfully submitted,
Puneet Kumar Arora, et al

By: /Dan C. Hu, Reg. No. 40,025/
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Attorney/Agent for Applicant(s)
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BEFORE THE PATENT TRIAL AND APPEAL BOARD

Application Number: 13/562,756
Filing Date: July 31, 2012
Appellant(s): ARORA ET AL.

Dan C. Hu
For Appellant

EXAMINER’S ANSWER

This is in response to the appeal brief filed 11/17/2015.
(1) Grounds of Rejection to be Reviewed on Appeal

Every ground of rejection set forth in the Office action dated 06/24/2015 from which the appeal is taken is being maintained by the examiner except for the grounds of rejection (if any) listed under the subheading “WITHDRAWN REJECTIONS.” New grounds of rejection (if any) are provided under the subheading “NEW GROUNDS OF REJECTION.”

The following ground(s) of rejection are applicable to the appealed claims.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
3. Claims 1-3, 5-14, and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. (U.S. PG PUB 2009/0168607) in view of Crucs (U.S. PG PUB 2012/0226779).

Regarding claim 1, Liu teaches a non-transitory computer-readable storage medium containing instructions, the instructions when executed by a processor causing the processor to (see ¶ [0017] processor): receive at a first computer system, via a network, event data descriptive of an event to occur at an event time (see ¶ [0023] receiving schedules); receive via the network (see ¶ [0020] network), reminder data descriptive of a reminder time to occur on or before the event time (see ¶ [0023] generating multiple reminders).

Liu does not expressly disclose at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

However, Crucs teaches at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation (see ¶ [0011] “The method step of receiving the event-identifying code may include electronically scanning the event-identifying code from a printed or displayed advertisement, electronically imaging the event-identifying code from a printed or displayed advertisement”); and at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system (see ¶ [0039] “The AEF 380 uses the event information to automatically create at least one event entry for the advertised event within the electronic calendar application” and ¶ [0031] “For example, when the date of an event is approaching, the ECA or AEF may provide a reminder notification to the user in a pop-up window on a display of the processor-based device”).
Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶[0004]).

Regarding claim 2, Liu teaches wherein the reminder message is sent to the second computer system for presentation with a scheduled delivery of user-requested content sent to the second computer system (see ¶ [0034]).

Regarding claim 3, Liu teaches wherein the reminder message is sent to the second computer system such that, when presented, the reminder message is embedded within the content (see ¶ [0021]).

Regarding claim 5, Liu teaches wherein the event data is received in a format of an electronic calendar (see ¶ [0022] calendar application program).

Regarding claim 6, Liu teaches wherein the event is a user defined event (see ¶ [0015] user can generate user-designated calendar-driven reminder).

Regarding claim 7, Liu teaches wherein the instructions cause the processor to receive an address for the second computer system, and to send the reminder message to the second computer system at the address (see ¶ [0024]).

Regarding claim 8, Liu does not expressly disclose wherein the electronic scanning operation includes scanning of an encoded identifier associated with the article.

However, Crucs teaches wherein the electronic scanning operation includes scanning of an encoded identifier associated with the article (see ¶ [0025] “scan the two-dimensional bar code and the scanned event information is forwarded to the AEF 130. The AEF 130 automatically processes the event information to extract dates, times, locations, and other information (e.g., ticket prices, where to buy tickets) associated with the advertised event”).
Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶[0004]).

Regarding claim 9, Liu does not expressly disclose wherein the reminder message includes an encoded identifier that, when electronically scanned by a scanning device and interpreted by a computer, is a link to information relating to the article.

However, Crucs teaches wherein the reminder message includes an encoded identifier that, when electronically scanned by a scanning device and interpreted by a computer, is a link to information relating to the article (see ¶[0025] “scan the two-dimensional bar code and the scanned event information is forwarded to the AEF 130. The AEF 130 automatically processes the event information to extract dates, times, locations, and other information (e.g., ticket prices, where to buy tickets) associated with the advertised event”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶[0004]).

Regarding claim 10, Liu does not expressly disclose wherein the electronic scanning operation is conducted at a computing device that includes a camera, and the scanning operation includes taking of a digital photograph of the article or an identifier of the article utilizing the camera.

However, Crucs teaches wherein the electronic scanning operation is conducted at a computing device that includes a camera, and the scanning operation includes taking of a digital photograph of the article or an identifier of the article utilizing the camera (see ¶[0022] scanner and/or camera).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶[0004]).
Regarding claim 11, Liu teaches wherein the instructions cause the processor to store the event data, the reminder data, and the article data in memory in association with one another (see ¶ [0041]).

Regarding claim 12, Liu teaches wherein the event time includes a specific day of the week or time (see Fig. 3).

Regarding claim 13, Liu teaches wherein the event time includes a lapse of a defined time period (see Fig. 3).

Regarding claim 14, Liu teaches a first computer system, comprising: at least one processor (see ¶ [0017] processor); an event data module executable by the at least one processor to receive via a network, event data descriptive of an event to occur at an event time (see ¶ [0023] receiving schedules); a reminder data module executable by the at least one processor to receive via the network, reminder data descriptive of a reminder time to occur on or before the event time (see ¶ [0023] generating multiple reminders).

Liu does not expressly disclose an article data module executable by the at least one processor to, at a time following receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and a reminder sending module executable by the at least one processor to, at the reminder time, send a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

However, Crucs teaches an article data module executable by the at least one processor to, at a time following receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation (see ¶ [0011] “The method step of receiving the event-identifying code may include electronically scanning the event-identifying code from a printed or displayed advertisement, electronically imaging the event-identifying code from a printed or displayed advertisement”); and a reminder sending module executable by the at least one processor to, at the reminder time, send a reminder message describing the event and the article
to a second computer system, for presentation at the second computer system (see ¶ [0039] “The AEF 380 uses the event information to automatically create at least one event entry for the advertised event within the electronic calendar application” and ¶ [0031] “For example, when the date of an event is approaching, the ECA or AEF may provide a reminder notification to the user in a pop-up window on a display of the processor-based device”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶[0004]).

Regarding claim 17, Liu teaches wherein the event data is received in the format of an electronic calendar and the event is a user defined event (see ¶[0015] user can generate user-designated calendar-driven reminder).

Regarding claim 18, Liu does not expressly disclose wherein the electronic scanning operation includes scanning of a barcode or other encoded identifier associated with the article.

However, Crucs teaches wherein the electronic scanning operation includes scanning of a barcode or other encoded identifier associated with the article (see ¶ [0025] “scan the two-dimensional bar code and the scanned event information is forwarded to the AEF 130. The AEF 130 automatically processes the event information to extract dates, times, locations, and other information (e.g., ticket prices, where to buy tickets) associated with the advertised event”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶[0004]).

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. (U.S. PG PUB 2009/0168607) in view of Crucs (U.S. PG PUB 2012/0226779) as applied to claim 1 above, and further in view of Smith (U.S. PG PUB 2012/0114891).
Regarding claim 4, Liu and Crucs do not disclose wherein the second computer system is a printer, and the presentation of the reminder message includes printing the reminder message at the printer.

However, Smith teaches wherein the second computer system is a printer, and the presentation of the reminder message includes printing the reminder message at the printer (see ¶(0005)).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Smith for the purposes of printing reminders or notes for convenience.

5. Claims 15, 16, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. (U.S. PG PUB 2009/0168607) in view of Crucs (U.S. PG PUB 2012/0226779), further in view of Shirai (U.S. PG PUB 2006/0044594).

Regarding claim 15, Liu and Crucs do not disclose wherein the reminder message is sent to the second computer system along with a scheduled delivery of user-requested content sent to the second computer system for printing.

However, Shirai teaches wherein the reminder message is sent to the second computer system along with a scheduled delivery of user-requested content sent to the second computer system for printing (see ¶[0011], ¶[0019]).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Shirai for managing a print schedule efficiently.

Regarding claim 16, Liu and Crucs do not disclose wherein the reminder message is sent to the second computer system such that, when printed, the reminder message is embedded within the content. However, Shirai teaches wherein the reminder message is sent to the second computer system such that, when printed, the reminder message is embedded within the content (see ¶[0126]).
Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Shirai for managing a print schedule efficiently.

Regarding claim 19, Liu and Crucs do not expressly disclose wherein the second computer system is a network connected printer, and the presentation of the reminder message includes printing the reminder message at the printer.

However, Shirai teaches wherein the second computer system is a network connected printer, and the presentation of the reminder message includes printing the reminder message at the printer (see ¶ [0126]).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Shirai for managing a print schedule efficiently.

Regarding claim 20, Liu teaches a method, comprising: receiving at a first computer system via a network and in a format of an electronic calendar (see ¶ [0034] calendar user application), event data descriptive of an event to occur at an event time (see ¶ [0023] receiving schedules); receiving, at the first computer system via the network (see ¶ [0020] network), reminder data descriptive of a reminder time to occur on or before the event time (see ¶ [0023] generating multiple reminders).

Liu does not expressly disclose receiving, at the first computer system, an address for a network connected printer; at a time after receipt of the event data, receiving, at the first computer system via the network, article data descriptive of an article to be associated with the event, the article data created during an electronic scanning of an identifier of the article conducted at a scanner computer system; and at the reminder time, sending, by the first computer system, a reminder message describing the event and the article to the printer at the address, for printing the reminder message at the printer, wherein the
reminder message is sent to the printer along with a scheduled delivery of user-requested content to the printer.

However, Crucs teaches at a time after receipt of the event data, receiving, at the first computer system via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning of a barcode conducted at a computer system (see ¶ [0011] “The method step of receiving the event-identifying code may include electronically scanning the event-identifying code from a printed or displayed advertisement, electronically imaging the event-identifying code from a printed or displayed advertisement”); and at the reminder time sending a reminder message describing the event (see ¶ [0039] “The AEF 380 uses the event information to automatically create at least one event entry for the advertised event within the electronic calendar application” and ¶ [0031] “For example, when the date of an event is approaching, the ECA or AEF may provide a reminder notification to the user in a pop-up window on a display of the processor-based device”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶[0004]).

Liu and Crucs do not disclose receiving at the first computer system an address for a network connected printer; sending the article to the printer at the address, for printing at the printer, wherein the reminder message is sent to the printer along with a scheduled delivery of user-requested content to the printer.

However, Shirai teaches receiving at the first computer system an address for a network connected printer (see ¶ [0081]); sending the article to the printer at the address, for printing at the printer, wherein the reminder message is sent to the printer along with a scheduled delivery of user-requested content to the printer (see ¶ [0126]).
Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Shirai for managing a print schedule efficiently.

(2) Response to Argument

Appellant claims the reminder message describes both the event and the article that is described by the article data created during the electronic scanning operation.

Appellant argues that examiner has not pointed out where in Crucs there is any teaching of a reminder message that is sent that describes both the event and the article to be associated with the event that is described by the article data during a scanning operation. Appellant argues that the concept of providing information describing an article does not exist anywhere in Crucs. Appellant refers to the specification to try to narrow the interpretation of article to a sweater or equipment, or a food item. Appellant argues that Crucs merely refers to the event and article to be associated with the event, but no indication that they are both in a reminder message. Appellant argues Crucs has nothing to do with “at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event.”

Examiner respectfully disagrees.

Examiner has pointed out in Crucs the teaching of generating a calendar event based on the receiving of an event identifying code of an advertised event, wherein the event-identifying code includes event information associated with the advertised event (see ¶ [0011], ¶ [0039], and ¶ [0040]). Furthermore, the application is configured to configure reminder notifications and notes about the event (see ¶ [0031]). Here, the reminder message is the event calendar notification that includes the event and information associated with the event. The terms “article to be associated with the event” is not limited to applicant's narrow interpretation of article. The claim does not specify that the article must be a
sweater, or equipment, or a food item. Examiner gives the *Broader Reasonable Interpretation* that the 
article associated with the event **as any information** associated to the event in any manner or form.

Cruces teaches an event by describing an advertised event.

[0011] A further embodiment of the present invention comprises a processor-based device having 
computer-executable instructions configured as an auto-event feature for enabling the performance of a 
method for automatically generating an event entry within an electronic calendar application. The 
processor-based device may include at least one of a mobile device, a cellular telephone, a laptop 
computer, and a desktop computer, for example. The method performed by the processor-based device 
includes receiving an event-identifying code of an **advertised event**, wherein the event-identifying code 
includes **event information associated with the advertised event**. The event-identifying code may 
include a one-dimensional bar code, a two-dimensional bar code, or alpha-numeric characters. The 
method step of receiving the event-identifying code may include electronically scanning the event-
identifying code from a printed or displayed advertisement, electronically imaging the event-identifying 
code from a printed or displayed advertisement, or manually keying the event-identifying code into the 
processor-based device. The method further includes operatively communicating with an **electronic 
calendar application running on a processor-based device to automatically create at least one event 
entry for the advertised event within the electronic calendar application using at least a portion of 
the event information**. The method step of automatically creating at least one event entry for the 
advertised event within the electronic calendar application may further use a current location of a user of 
the processor-based device to choose at least one location of the advertised event from the event 
information. The current location of the user may be based on GPS information or cell tower information, 
for example. Alternatively, the method step of automatically creating at least one event entry for the 
**advertised event** within the electronic calendar application may further use a known residence address or 
a known business address of a user of the processor-based device to choose at least one location of the 
advertised event from the event information.

Cruces teaches the article associated with the event by describing the event identifying 
code/information associated with the event.

[0039] As an example of the method 400, the processor-based device 370 may be a mobile 
telephone. A user of the mobile telephone 370 scans or images an **event-identifying code** from a printed 
or displayed advertisement. The AEF 380 uses the event-identifying code to access the ESC 310 via the 
internet 320 through the cell tower 335 and the cellular network 330. The event-identifying code may 
include an IP address to the ESC 310 or, as an option, may include a domain name which can be 
interpreted by a domain name server computer (DNSC) 350 which resolves to an IP address of the ESC 
310. A portion of the event-identifying code is provided to the ESC 310 and used by the ESC 310 to 
access stored event information associated with the advertised event. The event information is 
provided from the ESC 310 to the AEF 380 of the mobile telephone 370 via the internet through the cell 
tower 335 and the cellular network 330. The AEF 380 uses the event information to automatically 
create at least one event entry for the advertised event within the electronic calendar application.
For the above reasons, it is believed that the rejections should be sustained.

Respectfully submitted,

/CARINA YUN/
Examiner, Art Unit 2194

Conferees:

/H. S. Sough/
Supervisory Patent Examiner, Art Unit 2194

/EMERSON PUENTE/
Supervisory Patent Examiner, Art Unit 2196

**Requirement to pay appeal forwarding fee.** In order to avoid dismissal of the instant appeal in any application or ex parte reexamination proceeding, 37 CFR 41.45 requires payment of an appeal forwarding fee within the time permitted by 37 CFR 41.45(a), unless appellant had timely paid the fee for filing a brief required by 37 CFR 41.20(b) in effect on March 18, 2013.
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.: 13/562,756  §  Confirmation No.: 1884
Applicant: PUNEET KUMAR ARORA  §  Art Unit: 2194
Filed: 07/31/2012  §  Examiner: CARINA YUN
Title: REMINDER MESSAGES  §  Docket No.: 82969831 (HPI.2193US)

Mail Stop Appeal Brief-Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**APPEAL BRIEF PURSUANT TO 37 C.F.R § 41.37**

The final rejection of claims 1-20 is hereby appealed.

**I. REAL PARTY IN INTEREST**

The real party in interest is the Hewlett-Packard Development Company, LP. The Hewlett-Packard Development Company, LP, is a limited partnership established under the laws of the State of Texas and has a principal place of business at 11445 Compaq Center Drive West, Houston, TX 77070, U.S.A. (hereinafter "HPDC"). HPDC is a Texas limited partnership and is a wholly-owned affiliate of Hewlett-Packard Company, a Delaware Corporation, headquartered in Palo Alto, CA. The general or managing partner of HPDC is HPQ Holdings, LLC.
II. RELATED APPEALS AND INTERFERENCES

None.

III. SUMMARY OF THE CLAIMED SUBJECT MATTER

The following provides a concise explanation of the subject matter defined in each of the independent claims involved in the appeal, referring to the specification by page and line number or paragraph number and to the drawings by reference characters, as required by 37 C.F.R. § 41.37(c)(1)(iii). Each element of the claims is identified by a corresponding reference to the specification and drawings where applicable. Note that the citation to passages in the specification and drawings for each claim element does not imply that limitations from the specification and drawings should be read into the corresponding claim element. Note also that the cited passages are provided as examples, as other passages in the specification or drawings not cited may also be relevant to the corresponding claim elements.
Independent claim 1 recites a non-transitory computer-readable storage medium containing instructions, the instructions when executed by a processor causing the processor to:

receive (Fig. 5:502) at a first computer system, via a network, event data descriptive of an event to occur at an event time (¶ [0018, 0039]);

receive (Fig. 5:504) via the network, reminder data descriptive of a reminder time to occur on or before the event time (¶ 0019, 0040);

at a time after receipt of the event data, receive (Fig. 5:506) via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation (¶ [0020, 0041]); and

at the reminder time send (Fig. 5:508) via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system (¶ [0021, 0042]).

Independent claim 14 recites a first computer system, comprising:

at least one processor (Fig. 2:214; ¶ [0029]);

an event data module (Fig. 2:274) executable by the at least one processor to receive, via a network, event data descriptive of an event to occur at an event time (¶ [0018, 0030]);

a reminder data module (Fig. 2:276) executable by the at least one processor to receive, via the network, reminder data descriptive of a reminder time to occur on or before the event time (¶ 0019, 0031);

an article data module (Fig. 2:278) executable by the at least one processor to, at a time following receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation (¶ [0020, 0032]); and

a reminder sending module (Fig. 2:284) executable by the at least one processor to, at the reminder time, send a reminder message describing the event and the article to a second computer system, for presentation at the second computer system (¶ [0021, 0035]).
Independent claim 20 recites a method, comprising:

receiving (Fig. 5:502), at a first computer system via a network and in a format of an electronic calendar, event data descriptive of an event to occur at an event time ([0018, 0039]);

receiving (Fig. 5:504), at the first computer system via the network, reminder data descriptive of a reminder time to occur on or before the event time ([0019, 0040]);

receiving, at the first computer system, an address for a network connected printer (Fig. 2:204; [0026, 0034]);

at a time after receipt of the event data, receiving (Fig. 5:506), at the first computer system via the network, article data descriptive of an article to be associated with the event, the article data created during an electronic scanning of an identifier of the article conducted at a scanner computer system ([0020, 0041]); and

at the reminder time, sending (Fig. 5:508), by the first computer system, a reminder message describing the event and the article to the printer at the address, for printing the reminder message at the printer, wherein the reminder message is sent to the printer along with a scheduled delivery of user-requested content to the printer ([0021, 0042]).
IV. ARGUMENT

The following are the grounds of rejection to be reviewed on appeal:

A. Claims 1-3, 5-14, and 17-18 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Liu (U.S. Publication No. 2009/0168607) in view of Croes (U.S. Publication No. 2012/0226779).

B. Claim 4 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Liu in view of Croes, and further in view of Smith (U.S. Publication No. 2012/0114891).

C. Claims 15, 16, 19 and 20 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Liu in view of Croes, and further in view of Shirai (U.S. Publication No. 2006/0044594).

The claims do not stand or fall together. Instead, Appellant presents separate arguments for various independent and dependent claims. Each of these arguments is separately argued below and presented with separate headings and sub-headings as required by 37 C.F.R. § 41.37(c)(1)(iv).

A. Claims 1-3, 5-14, and 17-18 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Liu (U.S. Publication No. 2009/0168607) in view of Croes (U.S. Publication No. 2012/0226779).

1. Claims 1-3, 5-14, 17, 18.

Independent claim 1 recites a non-transitory computer-readable storage medium containing instructions, the instructions when executed by a processor causing the processor to:

receive at a first computer system, via a network, event data descriptive of an event to occur at an event time;
receive via the network, reminder data descriptive of a reminder time to occur on or before the event time;
at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and
at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

Appellant respectfully submits that claim 1 is non-obvious over Liu and Croes.
To make a determination under 35 U.S.C. § 103, several basic factual inquiries must be performed, including determining the scope and content of the prior art, and ascertaining the differences between the prior art and the claims at issue. *Graham v. John Deere Co.*, 383 U.S. 1, 17, 148 U.S.P.Q. 459 (1966). Moreover, as held by the U.S. Supreme Court, it is important to identify a reason that would have prompted a person of ordinary skill in the art to combine reference teachings in the manner that the claimed invention does. *KSR International Co. v. Teleflex, Inc.*, 127 S. Ct. 1727, 1741, 82 U.S.P.Q.2d 1385 (2007).

The Examiner conceded that Liu does not disclose the subject matter in the bolded clauses of claim 1 set forth above. 6/24/2015 Office Action at 4. Instead, the Examiner cited Crucs as purportedly disclosing the claimed subject matter conceded by the Examiner to be missing from Liu. *Id.*

According to claim 1, the network article data that is received at a time after receipt of the event data is descriptive of an article to be associated with the event, the article data created during an electronic scanning operation, and moreover, at the reminder time a reminder message is sent describing the event and the article to a second computer system, for presentation at the second computer system. Thus, the reminder message describes both the event and the article that is described by the article data created during the electronic scanning operation.

As explained in Crucs, the “step of receiving the event-identifying code may include electronically scanning the event-identifying code from a printed or displayed advertisement, electronically imaging the event-identifying code from a printed or displayed advertisement, or manually keying the event-identifying code into the processor-based device.” *Crucs*, ¶[0011]. At least one event entry is created for the advertised event within an electronic calendar.
application “using at least a portion of the event information [included in the event-identifying code].” *Id.* As further stated in Crucs, “when the date of an event is approaching, the ECA or AEF may provide a reminder notification to the user in a pop-up window on a display of the processor-based device.”

Thus, according to Crucs, the scanning of an event-identifying code from a printed or displayed advertisement is used for creating an event entry for an advertised event within an electronic calendar application. The reminder that is sent in ¶ [0031] of Crucs is a reminder of the event.

Appellant respectfully notes that the reminder message that is sent at the reminder time in claim 1 describes both the event and the article (to be associated with the event) that is described by article data created during an electronic scanning operation. The Examiner has not pointed out where in Crucs there is any teaching or hint of a reminder message that is sent that describes both the event and the article (to be associated with the event) that is described by article data created during an electronic scanning operation.

Fundamentally, the scanning of the event-identifying code from printed or displayed advertisement discussed in ¶ [0011] of Crucs is used for providing event information in an event entry in an electronic calendar application. The concept of also providing information describing an article (in addition to the event) does not exist anywhere in Crucs.

As an illustrative example of what an article may be, Appellant refers to ¶ [0021] of the Specification of the as-filed application, where examples of articles include a sweater (an article) to be purchased in connection with Mom’s birthday (an event), equipment (an article) to be brought to a soccer game (an event), or a food item (an article) to be brought to a family reunion (an event).
In Crucs, the event-identifying code produced from scanning a printed or displayed advertisement merely refers to the event, and the reminder that is sent in ¶ [0031] of Crucs also merely refers to the event, with no indication provided by Crucs of any reminder message that describes both an event and an article that is to be associated with the event, where the article is described by article data created during an electronic scanning operation.

Moreover, according to claim 1, the receiving of the article data descriptive of the article to be associated with the event is at a time after receipt of the event data. As discussed above, in Crucs, the scanning of an event-identifying code is performed to create event data that is added to a calendar application. Thus, in Crucs, the scanning of the event-identifying code produces event data, whereas in claim 1, at a time after receipt of the event data, article data descriptive of an article to be associated with the event is received.

The Response to Argument section of the Final Office Action cited ¶ [0007] of Crucs, with the Examiner asserting that Crucs can later receive “additional information associated with other events.” Office Action at 12. Receiving information for other events after receiving information for a first event, as discussed in ¶ [0007] of Crucs, has nothing to do with “at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event,” as recited in claim 1. The other events for which information is received after receiving information for a first event, as discussed in ¶ [0007] of Crucs, do not constitute an article to be associated with the event. In other words, if the first event in ¶ [0007] is considered the “event” of claim 1, then there is no indication whatsoever that the other events for which information is later received in ¶ [0007] of Crucs constitutes an article to be associated with the first event.
In view of the foregoing, Appellant respectfully submits that the Examiner has erred in asserting that Crucs teaches the subject matter of claim 1 conceded by the Examiner to be missing from Liu. Therefore, the asserted combination of Liu and Crucs would not have led to the subject matter of claim 1, and thus, the obviousness rejection of claim 1 and its dependent claims is erroneous.

The obviousness rejection of independent claim 14 and its dependent claims over Liu and Crucs is also similarly erroneous.

Reversal of the final rejection of the above claims is respectfully requested.

B. Claim 4 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Liu in view of Crucs, and further in view of Smith (U.S. Publication No. 2012/0114891).


In view of the allowability of independent claim 1 over Liu and Crucs, the obviousness rejection of dependent claim 4 over Liu, Crucs, and Smith has been overcome.

Reversal of the final rejection of the above claim is respectfully requested.
C. Claims 15, 16, 19 and 20 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Liu in view of Croes, and further in view of Shirai (U.S. Publication No. 2006/0044594).


Independent claim 20 recites a method comprising:

receiving, at a first computer system via a network and in a format of an electronic calendar, event data descriptive of an event to occur at an event time;

receiving, at the first computer system via the network, reminder data descriptive of a reminder time to occur on or before the event time;

receiving, at the first computer system, an address for a network connected printer;

at a time after receipt of the event data, receiving, at the first computer system via the network, article data descriptive of an article to be associated with the event, the article data created during an electronic scanning of an identifier of the article conducted at a scanner computer system; and

at the reminder time, sending, by the first computer system, a reminder message describing the event and the article to the printer at the address, for printing the reminder message at the printer, wherein the reminder message is sent to the printer along with a scheduled delivery of user-requested content to the printer.

The Examiner conceded that Liu fails to teach the subject matter in the bolded clauses of claim 20 set forth above. Office Action at 10-11.

Instead, the Examiner relied upon Croes as purportedly disclosing the foregoing elements of claim 20 conceded by the Examiner to be missing from Liu. As explained above in connection with claim 1, Croes does not provide any teaching or hint of such subject matter.

Shirai was relied upon with respect to a different feature, and does not remedy the deficiencies of Liu and Croes with respect to the foregoing elements of claim 20.

Accordingly, the asserted combination of Liu, Croes, and Shirai would not have led to the subject matter of claim 20, and therefore, claim 20 is non-obvious over Lie, Croes, and Shirai.

Reversal of the final rejection of the above claim is respectfully requested.
2. **Claims 15, 16, 19.**

   In view of the allowability of base claim 14 over Liu and Crucs, the obviousness rejection of dependent claims 15, 16, and 19 over Liu, Crucs, and Shirai have been overcome.

   Reversal of the final rejection of the above claims is respectfully requested.
CONCLUSION

In view of the foregoing, reversal of all final rejections and allowance of all pending claims is respectfully requested.

Respectfully submitted,

Date: November 17, 2015

/ Dan C. Hu/

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V. CLAIMS APPENDIX

The claims on appeal are:

1. A non-transitory computer-readable storage medium containing instructions, the
   instructions when executed by a processor causing the processor to:
   receive at a first computer system, via a network, event data descriptive of an event to
   occur at an event time;
   receive via the network, reminder data descriptive of a reminder time to occur on or
   before the event time;
   at a time after receipt of the event data, receive via the network article data descriptive of
   an article to be associated with the event, the article data created during an electronic scanning
   operation; and
   at the reminder time send via the network a reminder message describing the event and
   the article to a second computer system, for presentation at the second computer system.

2. The medium of claim 1, wherein the reminder message is sent to the second computer
   system for presentation with a scheduled delivery of user-requested content sent to the second
   computer system.

3. The medium of claim 2, wherein the reminder message is sent to the second computer
   system such that, when presented, the reminder message is embedded within the content.

4. The medium of claim 1, wherein the second computer system is a printer, and the
   presentation of the reminder message includes printing the reminder message at the printer.

5. The medium of claim 1, wherein the event data is received in a format of an electronic
   calendar.

6. The medium of claim 1, wherein the event is a user defined event.
7. The medium of claim 1, wherein the instructions cause the processor to receive an address for the second computer system, and to send the reminder message to the second computer system at the address.

8. The medium of claim 1, wherein the electronic scanning operation includes scanning of an encoded identifier associated with the article.

9. The medium of claim 1, wherein the reminder message includes an encoded identifier that, when electronically scanned by a scanning device and interpreted by a computer, is a link to information relating to the article.

10. The medium of claim 1, wherein the electronic scanning operation is conducted at a computing device that includes a camera, and the scanning operation includes taking of a digital photograph of the article or an identifier of the article utilizing the camera.

11. The medium of claim 1, wherein the instructions cause the processor to store the event data, the reminder data, and the article data in memory in association with one another.

12. The medium of claim 1, wherein the event time includes a specific day of the week or time.

13. The medium of claim 1, wherein the event time includes a lapse of a defined time period.
14. A first computer system, comprising:
   at least one processor;
   an event data module executable by the at least one processor to receive, via a network,
   event data descriptive of an event to occur at an event time;
   a reminder data module executable by the at least one processor to receive, via the
   network, reminder data descriptive of a reminder time to occur on or before the event time;
   an article data module executable by the at least one processor to, at a time following
   receipt of the event data, receive via the network article data descriptive of an article to be
   associated with the event, the article data created during an electronic scanning operation; and
   a reminder sending module executable by the at least one processor to, at the reminder
   time, send a reminder message describing the event and the article to a second computer system,
   for presentation at the second computer system.

15. The system of claim 14, wherein the reminder message is sent to the second computer
    system along with a scheduled delivery of user-requested content sent to the second computer
    system for printing.

16. The system of claim 15, wherein the reminder message is sent to the second computer
    system such that, when printed, the reminder message is embedded within the content.

17. The system of claim 14, wherein the event data is received in a format of an electronic
    calendar and the event is a user defined event.

18. The system of claim 14, wherein the electronic scanning operation includes scanning of a
    barcode or other encoded identifier associated with the article.

19. The system of claim 14, wherein the second computer system is a network connected
    printer, and the presentation of the reminder message includes printing the reminder message at
    the printer.
20. A method, comprising:
   receiving, at a first computer system via a network and in a format of an electronic
calendar, event data descriptive of an event to occur at an event time;
receiving, at the first computer system via the network, reminder data descriptive of a
reminder time to occur on or before the event time;
receiving, at the first computer system, an address for a network connected printer;
at a time after receipt of the event data, receiving, at the first computer system via the
network, article data descriptive of an article to be associated with the event, the article data
created during an electronic scanning of an identifier of the article conducted at a scanner
computer system; and
at the reminder time, sending, by the first computer system, a reminder message
describing the event and the article to the printer at the address, for printing the reminder
message at the printer, wherein the reminder message is sent to the printer along with a
scheduled delivery of user-requested content to the printer.
**Electronic Acknowledgement Receipt**

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**Warnings:**

**Information:**
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

**New Applications Under 35 U.S.C. 111**

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

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

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

**New International Application Filed with the USPTO as a Receiving Office**

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

Inventor(s): Puneet Kumar Arora, et al
Application No.: 13/562756
Filing Date: Jul 31, 2012

Title: REMINDER MESSAGES

Mail Stop Appeal Brief-Patents
Commissioner For Patents
PO Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL OF APPEAL BRIEF

Transmitted herewith is the Appeal Brief in this application with respect to the Notice of Appeal filed on September 23, 2015.

(complete (a) or (b) as applicable)

The proceedings herein are for a patent application and the provisions of 37 CFR 1.136(a) apply.

☐ (a) Applicant petitions for an extension of time under 37 CFR 1.136 (fees: 37 CFR 1.17(a)-(d)) for the total number of months checked below:

☐ 1st Month $200 ☐ 2nd Month $600 ☐ 3rd Month $1400 ☐ 4th Month $2200

☐ The extension fee has already been filed in this application.

☒ (b) Applicant believes that no extension of time is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

Please charge to Deposit Account 08-2025 the sum of $ 00. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees.

Respectfully submitted,
Puneet Kumar Arora, et al

By: /Dan C. Hu, Reg. No. 40,025/
Dan C. Hu
Attorney/Agent for Applicant(s)

Reg No.: 40025
Date: NOV 17, 2015
Telephone: 713-468-8880
IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Puneet Kumar Arora
Application No.: 13/562756
Filing Date: Jul 31, 2012

Title: REMINDER MESSAGES

Application Record ID: 82969831

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner For Patents
PO Box 1450
Alexandria, VA 22313-1450

NOTICE OF APPEAL FROM THE EXAMINER TO THE
BOARD OF PATENT APPEALS AND INTERFERENCES

Applicant hereby appeals to the Board of Patent Appeals and Interferences from the decision of the examiner dated, 06/24/2015, rejecting the following claims (all rejected claims).

The fee for filing this Notice of Appeal is $800.00 (37 CFR 41.20).

☐ No Additional Fee Required.

☐ Applicant petitions for an extension of time under 37 CFR 1.136 (FEES: 37 CFR 1.17 (a)-(d) for the total number of months checked below:

☐ 1st Month $200 ☐ 2nd Month $600 ☐ 3rd Month $1400 ☐ 4th Month $2200

☐ The extension fee has already been filed in this application

☐ Applicant believes that no extension of time is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

The fee for filing this Notice of Appeal is $800.00 pursuant to 37 CFR 41.20.

The Director is hereby authorized to charge the required fee(s) of $800.00, any deficiency, or credit any overpayment to Deposit Account 08-2025, pursuant to 37 CFR 1.25.

Respectfully submitted,

Puneet Kumar Arora, et al

By: /Dan C. Hu, Reg. No. 40,025/

Dan C. Hu
Attorney/Agent for Applicant(s)

Reg No.: 40025
Date: September 23, 2015
Telephone: 713-468-8880
## Electronic Acknowledgement Receipt

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**New Applications Under 35 U.S.C. 111**
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**
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**New International Application Filed with the USPTO as a Receiving Office**
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RTYSON  SALE  #00000001  Mailroom Dt:  09/23/2015  082025  13562756
01  FC : 1401  800.00  DA
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):

JERRY.SHORMA@HP.COM
ipa.mail@hp.com
brandon.serwan@hp.com
**Office Action Summary**

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**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.  
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) ☒ Responsive to communication(s) filed on 06/08/2015.  
   □ A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was/were filed on ______.

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

3) □ An election was made by the applicant in response to a restriction requirement set forth during the interview on ______; the restriction requirement and election have been incorporated into this action.

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

**Disposition of Claims**

5) ☒ Claim(s) 1-20 is/are pending in the application.  
6) □ Claim(s) ______ is/are withdrawn from consideration.

7) □ Claim(s) 1-20 is/are rejected.
8) □ Claim(s) ______ is/are objected to.
9) □ Claim(s) ______ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the Patent Prosecution Highway program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

**Application Papers**

10) □ The specification is objected to by the Examiner.
11) □ The drawing(s) filed on ______ is/are: a) □ accepted or b) □ objected to by the Examiner.  
   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

**Priority under 35 U.S.C. § 119**

12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

**Certified copies:**

a) □ All  
   b) □ Some**  
   c) □ None of the:  
   1. □ Certified copies of the priority documents have been received.
   2. □ Certified copies of the priority documents have been received in Application No. ______.
   3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

**Attachment(s)**

1) □ Notice of References Cited (PTO-892)  
2) □ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date ______.
3) □ Interview Summary (PTO-413) Paper No(s)/Mail Date: ______.
4) □ Other: ______.

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**Part of Paper No./Mail Date 20150616**
DETAILED ACTION

1. This office action is in response to applicant’s amendments and/or remarks filed on June 8, 2015, claims 1-20 are pending.

Response to Amendment

2. The rejection of claims 14-19 under 35 U.S.C. 101 have been withdrawn in light of the amendment filed.

Examiner Notes

3. Examiner cites particular columns and line numbers in the references as applied to the claims below for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the applicant 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.

Notice of Pre-AIA or AIA Status

4. The present application is being examined under the pre-AIA first to invent provisions.

5. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

Information Disclosure Statement

6. The information disclosure statement filed 07/31/2012 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because item 1 US-818037 does not appear to be the correct patent number and examiner was unable to locate the reference. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the
submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609.05(a).

Claim Rejections - 35 USC § 103

7. 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.

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claims 1-3, 5-14, and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. (U.S. PG PUB 2009/0168607) in view of Crucs (U.S. PG PUB 2012/0226779).
Regarding claim 1, Liu teaches a non-transitory computer-readable storage medium containing instructions, the instructions when executed by a processor causing the processor to (see ¶ [0017] processor): receive at a first computer system, via a network, event data descriptive of an event to occur at an event time (see ¶ [0023] receiving schedules); receive via the network (see ¶ [0020] network), reminder data descriptive of a reminder time to occur on or before the event time (see ¶ [0023] generating multiple reminders).

Liu does not expressly disclose at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

However, Crucs teaches at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation (see ¶ [0011] “The method step of receiving the event-identifying code may include electronically scanning the event-identifying code from a printed or displayed advertisement, electronically imaging the event-identifying code from a printed or displayed advertisement”); and at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system (see ¶ [0039] “The AEF 380 uses the event information to automatically create at least one event entry for the advertised event within the electronic calendar application” and ¶ [0031] “For example, when the date of an event is approaching, the ECA or AEF may provide a reminder notification to the user in a pop-up window on a display of the processor-based device”).
Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶[0004]).

Regarding claim 2, Liu teaches wherein the reminder message is sent to the second computer system for presentation with a scheduled delivery of user-requested content sent to the second computer system (see ¶[0034]).

Regarding claim 3, Liu teaches wherein the reminder message is sent to the second computer system such that, when presented, the reminder message is embedded within the content (see ¶[0021]).

Regarding claim 5, Liu teaches wherein the event data is received in a format of an electronic calendar (see ¶[0022] calendar application program).

Regarding claim 6, Liu teaches wherein the event is a user defined event (see ¶[0015] user can generate user-designated calendar-driven reminder).

Regarding claim 7, Liu teaches wherein the instructions cause the processor to receive an address for the second computer system, and to send the reminder message to the second computer system at the address (see ¶[0024]).

Regarding claim 8, Liu does not expressly disclose wherein the electronic scanning operation includes scanning of an encoded identifier associated with the article.

However, Crucs teaches wherein the electronic scanning operation includes scanning of an encoded identifier associated with the article (see ¶[0025] “scan the two-dimensional bar code and the scanned event information is forwarded to the AEF 130. The AEF 130 automatically processes the event information to extract dates, times, locations, and other information (e.g., ticket prices, where to buy tickets) associated with the advertised event”).
Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶ [0004]).

Regarding claim 9, Liu does not expressly disclose wherein the reminder message includes an encoded identifier that, when electronically scanned by a scanning device and interpreted by a computer, is a link to information relating to the article.

However, Crucs teaches wherein the reminder message includes an encoded identifier that, when electronically scanned by a scanning device and interpreted by a computer, is a link to information relating to the article (see ¶ [0025] “scan the two-dimensional bar code and the scanned event information is forwarded to the AEF 130. The AEF 130 automatically processes the event information to extract dates, times, locations, and other information (e.g., ticket prices, where to buy tickets) associated with the advertised event”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶ [0004]).

Regarding claim 10, Liu does not expressly disclose wherein the electronic scanning operation is conducted at a computing device that includes a camera, and the scanning operation includes taking of a digital photograph of the article or an identifier of the article utilizing the camera.

However, Crucs teaches wherein the electronic scanning operation is conducted at a computing device that includes a camera, and the scanning operation includes taking of a digital photograph of the article or an identifier of the article utilizing the camera (see ¶ [0022] scanner and/or camera).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶ [0004]).
Regarding claim 11, Liu teaches wherein the instructions cause the processor to store the event data, the reminder data, and the article data in memory in association with one another (see ¶ [0041]).

Regarding claim 12, Liu teaches wherein the event time includes a specific day of the week or time (see Fig. 3).

Regarding claim 13, Liu teaches wherein the event time includes a lapse of a defined time period (see Fig. 3).

Regarding claim 14, Liu teaches a first computer system, comprising: at least one processor (see ¶ [0017] processor); an event data module executable by the at least one processor to receive via a network, event data descriptive of an event to occur at an event time (see ¶ [0023] receiving schedules); a reminder data module executable by the at least one processor to receive via the network, reminder data descriptive of a reminder time to occur on or before the event time (see ¶ [0023] generating multiple reminders).

Liu does not expressly disclose an article data module executable by the at least one processor to, at a time following receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and a reminder sending module executable by the at least one processor to, at the reminder time, send a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

However, Crucs teaches an article data module executable by the at least one processor to, at a time following receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation (see ¶ [0011] “The method step of receiving the event-identifying code may include electronically scanning the event-identifying code from a printed or displayed advertisement, electronically imaging the event-identifying code from a printed or displayed advertisement”); and a reminder sending module executable by the at least one processor to, at the reminder time, send a reminder message describing the event and the article
to a second computer system, for presentation at the second computer system (see ¶ [0039] “The AEF 380 uses the event information to automatically create at least one event entry for the advertised event within the electronic calendar application” and ¶ [0031] “For example, when the date of an event is approaching, the ECA or AEF may provide a reminder notification to the user in a pop-up window on a display of the processor-based device”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶¶ [0004]).

Regarding claim 17, Liu teaches wherein the event data is received in the format of an electronic calendar and the event is a user defined event (see ¶ [0015] user can generate user-designated calendar-driven reminder).

Regarding claim 18, Liu does not expressly disclose wherein the electronic scanning operation includes scanning of a barcode or other encoded identifier associated with the article.

However, Crucs teaches wherein the electronic scanning operation includes scanning of a barcode or other encoded identifier associated with the article (see ¶ [0025] “scan the two-dimensional bar code and the scanned event information is forwarded to the AEF 130. The AEF 130 automatically processes the event information to extract dates, times, locations, and other information (e.g., ticket prices, where to buy tickets) associated with the advertised event”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶¶ [0004]).

10. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. (U.S. PG PUB 2009/0168607) in view of Crucs (U.S. PG PUB 2012/0226779) as applied to claim 1 above, and further in view of Smith (U.S. PG PUB 2012/0114891).
Regarding claim 4, Liu and Crucs do not disclose wherein the second computer system is a printer, and the presentation of the reminder message includes printing the reminder message at the printer.

However, Smith teaches wherein the second computer system is a printer, and the presentation of the reminder message includes printing the reminder message at the printer (see ¶[0005]).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Smith for the purposes of printing reminders or notes for convenience.


Regarding claim 15, Liu and Crucs do not disclose wherein the reminder message is sent to the second computer system along with a scheduled delivery of user-requested content sent to the second computer system for printing.

However, Shirai teaches wherein the reminder message is sent to the second computer system along with a scheduled delivery of user-requested content sent to the second computer system for printing (see ¶[0011], ¶ [0019]).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Shirai for managing a print schedule efficiently.

Regarding claim 16, Liu and Crucs do not disclose wherein the reminder message is sent to the second computer system such that, when printed, the reminder message is embedded within the content. However, Shirai teaches wherein the reminder message is sent to the second computer system such that, when printed, the reminder message is embedded within the content (see ¶ [0126]).
Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Cruces by adapting the teachings of Shirai for managing a print schedule efficiently.

Regarding claim 19, Liu and Cruces do not expressly disclose wherein the second computer system is a network connected printer, and the presentation of the reminder message includes printing the reminder message at the printer.

However, Shirai teaches wherein the second computer system is a network connected printer, and the presentation of the reminder message includes printing the reminder message at the printer (see ¶ [0126]).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Cruces by adapting the teachings of Shirai for managing a print schedule efficiently.

Regarding claim 20, Liu teaches a method, comprising: receiving at a first computer system via a network and in a format of an electronic calendar (see ¶ [0034] calendar user application), event data descriptive of an event to occur at an event time (see ¶ [0023] receiving schedules); receiving, at the first computer system via the network (see ¶ [0020] network), reminder data descriptive of a reminder time to occur on or before the event time (see ¶ [0023] generating multiple reminders).

Liu does not expressly disclose receiving, at the first computer system, an address for a network connected printer; at a time after receipt of the event data, receiving, at the first computer system via the network, article data descriptive of an article to be associated with the event, the article data created during an electronic scanning of an identifier of the article conducted at a scanner computer system; and at the reminder time, sending, by the first computer system, a reminder message describing the event and the article to the printer at the address, for printing the reminder message at the printer, wherein the
reminder message is sent to the printer along with a scheduled delivery of user-requested content to the printer.

However, Crucs teaches at a time after receipt of the event data, receiving, at the first computer system via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning of a barcode conducted at a computer system (see ¶ [0011] “The method step of receiving the event-identifying code may include electronically scanning the event-identifying code from a printed or displayed advertisement, electronically imaging the event-identifying code from a printed or displayed advertisement”); and at the reminder time sending a reminder message describing the event (see ¶ [0039] “The AEF 380 uses the event information to automatically create at least one event entry for the advertised event within the electronic calendar application” and ¶ [0031] “For example, when the date of an event is approaching, the ECA or AEF may provide a reminder notification to the user in a pop-up window on a display of the processor-based device”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶¶[0004]).

Liu and Crucs do not disclose receiving at the first computer system an address for a network connected printer; sending the article to the printer at the address, for printing at the printer, wherein the reminder message is sent to the printer along with a scheduled delivery of user-requested content to the printer.

However, Shirai teaches receiving at the first computer system an address for a network connected printer (see ¶ [0081]); sending the article to the printer at the address, for printing at the printer, wherein the reminder message is sent to the printer along with a scheduled delivery of user-requested content to the printer (see ¶¶[0126]).
Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Shirai for managing a print schedule efficiently.

Response to Arguments

12. Applicant's arguments filed on June 8, 2015 have been fully considered but they are not persuasive.

13. In reply to Applicant's remarks on page 6-8, with regard to Crucs, Applicant asserts that Crucs does not disclose “at a time after receipt of the event, receive via the network article data descriptive of an article to be associated with an event.”. Applicant asserts Crucs discloses scanning event identifying code and argues it is different from the claimed invention.

Examiner respectfully disagrees. Crucs discloses in ¶ [0007] receiving an event identifying code, via an information network, and later, receiving additional information associated with other events via the information network, storing the event information for subsequent accessing in response to subsequent event identifying codes. Therefore, Crucs shows first receiving an event, and after receiving an event, receiving data descriptive of an article associated with an event because it is only after receiving the event that information can be identified from the event, and there are also subsequent events in response to receiving the first event.

Hence, applicant's argument is not deemed to be persuasive and the rejection under 35 U.S.C. §103(a) is proper and stands.

Support for Amendments and Newly Added Claims

14. Applicants are respectfully requested, in the event of an amendment to claims or submission of new claims, that such claims and their limitations be directly mapped to the specification, which provides
support for the subject matter. This will assist in expediting compact prosecution. MPEP 714.02 recites: “Applicant should also specifically point out the support for any amendments made to the disclosure. See MPEP § 2163.06. An amendment which does not comply with the provisions of 37 CFR 1.121(b), (c), (d), and (h) may be held not fully responsive. See MPEP § 714.” Amendments not pointing to specific support in the disclosure may be deemed as not complying with provisions of 37 C.F.R. 1.121(b), (c), (d), and (h) and therefore held not fully responsive. Generic statements such as “Applicants believe no new matter has been introduced” may be deemed insufficient.

**Interview Requests**

15. In accordance with 37 CFR 1.133(a)(3), requests for interview must be made in advance. Interview requests are to be made by telephone (571-270-7848) call or FAX (571-270-8848). Applicants must provide a detailed agenda as to what will be discussed (generic statement such as “discuss §102 rejection” or “discuss rejections of claims 1-3” may be denied interview). The detail agenda along with any proposed amendments is to be written on a PTOL-413A or a custom form and should be faxed (or emailed, subject to MPEP 713.01.I / MPEP 502.03) to the Examiner at least 5 business days prior to the scheduled interview. Interview requests submitted within amendments may be denied because the Examiner was not notified, in advance, of the Applicant Initiated Interview Request and due to time constraints may not be able to review the interview request to prior to the mailing of the next Office Action.

**Conclusion**

16. **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.

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CARINA YUN whose telephone number is (571)270-7848. The examiner can normally be reached on Mon-Thur, 9.30am-6.30pm; alt. Fri, EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, SAM SOUGH can be reached on (571)272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CARINA YUN/
Examiner, Art Unit 2194

/H. S. Sough/
Supervisory Patent Examiner, Art Unit 2194
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U.S. Patent and Trademark Office  Part of Paper No. : 20150616
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Application Number: 13/562,756
Filing Date: 31 Jul 2012
First Named Inventor: Arora Puneet Kumar
Art Unit: 2194
Examiner Name: YUN, CARINA

U.S. PATENT DOCUMENTS

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant’s unique citation designation number (optional). See Kinds Code of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 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.

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
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**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 aReceiving Office**

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

Inventor(s): Puneet Kumar Arora, et al

Application No.: 13/562756

Filing Date: Jul 31, 2012

Title: REMINDER MESSAGES

Mail Stop Amendment
Commissioner For Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.97 (b), or
   (Within three months of filing national application; or date of entry of national application; or before mailing date of first action on the merits; whichever occurs last)

☒ under 37 CFR 1.97 (c), together with either a:
   ☐ Statement under 37 CFR 1.97 (e), or
   ☒ a $180 fee under 37 CFR 1.17 (p), or
   (After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97 (d), together with a:
   ☐ Statement under 37 CFR 1.97 (e)(1) or (2), and
   ☐ a $180 fee set forth in 37 CFR 1.17 (p)

(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of $180.00. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

Applicant(s) submit herewith form PTO/SB/088 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO/SB/08B, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an english language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO/SB/08B and is enclosed.

It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,

Puneet Kumar Arora, et al

By: /Dan C. Hu, Reg. No. 40,025/

Dan C. Hu

Attorney/Agent for Applicant(s)

Reg No.: 40025

Date: JUNE 20, 2015

Telephone: 713-468-8880

Rev 09/11 (Information Disclosure Statement)
REPLY TO OFFICE ACTION MAILED MARCH 6, 2015

Sir:

In response to the Office Action of March 6, 2015, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims, which begins on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.
AMENDMENTS TO THE CLAIMS

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

1. (Original) A non-transitory computer-readable storage medium containing instructions, the instructions when executed by a processor causing the processor to:
   1. receive at a first computer system, via a network, event data descriptive of an event to occur at an event time;
   2. receive via the network, reminder data descriptive of a reminder time to occur on or before the event time;
   3. at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and
   4. at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

2. (Original) The medium of claim 1, wherein the reminder message is sent to the second computer system for presentation with a scheduled delivery of user-requested content sent to the second computer system.

3. (Original) The medium of claim 2, wherein the reminder message is sent to the second computer system such that, when presented, the reminder message is embedded within the content.

4. (Original) The medium of claim 1, wherein the second computer system is a printer, and the presentation of the reminder message includes printing the reminder message at the printer.

5. (Currently Amended) The medium of claim 1, wherein the event data is received in a format of an electronic calendar.
6. (Original) The medium of claim 1, wherein the event is a user defined event.

7. (Original) The medium of claim 1, wherein the instructions cause the processor to receive an address for the second computer system, and to send the reminder message to the second computer system at the address.

8. (Original) The medium of claim 1, wherein the electronic scanning operation includes scanning of an encoded identifier associated with the article.

9. (Original) The medium of claim 1, wherein the reminder message includes an encoded identifier that, when electronically scanned by a scanning device and interpreted by a computer, is a link to information relating to the article.

10. (Currently Amended) The medium of claim 1, wherein the electronic scanning operation is conducted at a computing device that includes a camera, and the scanning operation includes taking of a digital photograph of the article or an identifier of the article utilizing the camera.

11. (Original) The medium of claim 1, wherein the instructions cause the processor to store the event data, the reminder data, and the article data in memory in association with one another.

12. (Original) The medium of claim 1, wherein the event time includes a specific day of the week or time.

13. (Currently Amended) The medium of claim 1, wherein the event time includes the lapse of a defined time period.
14. (Currently Amended) A first computer system, comprising:
   at least one processor;
   an event data module executable by the at least one processor to receive event data descriptive of an event to occur at an event time;
   a reminder data module executable by the at least one processor to receive reminder data descriptive of a reminder time to occur on or before the event time;
   an article data module executable by the at least one processor to, at a time following receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and
   a reminder sending module executable by the at least one processor to, at the reminder time, send a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

15. (Original) The system of claim 14, wherein the reminder message is sent to the second computer system along with a scheduled delivery of user-requested content sent to the second computer system for printing.

16. (Currently Amended) The system of claim 15, wherein the reminder message is sent to the second computer system such that, when printed, the reminder message is embedded within the content.

17. (Currently Amended) The system of claim 14, wherein the event data is received in the format of an electronic calendar and the event is a user defined event.

18. (Original) The system of claim 14, wherein the electronic scanning operation includes scanning of a barcode or other encoded identifier associated with the article.

19. (Original) The system of claim 14, wherein the second computer system is a network connected printer, and the presentation of the reminder message includes printing the reminder message at the printer.
20. (Original) A method, comprising:

receiving, at a first computer systemvia a network and in a format of an
electronic calendar, event data descriptive of an event to occur at an event time;

receiving, at the first computer system via the network, reminder data descriptive
of a reminder time to occur on or before the event time;

receiving, at the first computer system, an address for a network connected
printer;

at a time after receipt of the event data, receiving, at the first computer system via
the network, article data descriptive of an article to be associated with the event, the
article data created during an electronic scanning of an identifier of the article a barcode
conducted at a scanner computer system; and

at the reminder time, sending, by the first computer system, a reminder message
describing the event and the article to the printer at the address, for printing the reminder
message at the printer, wherein the reminder message is sent to the printer along with a
scheduled delivery of user-requested content to the printer.
REMARKS

Claims 1-20 are pending.

In the Office Action mailed March 6, 2015, claims 14-19 were rejected under 35 U.S.C. § 101; claims 1-3, 5-14 and 17-18 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Liu (U.S. Publication No. 2009/0168607) in view of Crucs (U.S. Publication No. 2012/0226779); claim 4 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Liu in view of Crucs, and further in view of Smith (U.S. Publication No. 2012/0114891); and claims 15-16 and 19-20 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Liu in view of Crucs, and further in view of Shirai (U.S. Publication No. 2006/0044594).

REJECTION UNDER 35 U.S.C. § 101

Independent claim 14 has been amended to render the § 101 rejection moot. Withdrawal of the § 101 rejection is respectfully requested.

REJECTION UNDER 35 U.S.C. § 103 OVER LIU AND CRUCS

Applicant respectfully submits that claim 1 is non-obvious over Liu and Crucs.

In the rejection of claim 1, the Office Action conceded that Liu does not disclose the following elements of claim 1:

- at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and
- at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

03/06/2015 Office Action at 4. Instead, the Office Action cited Crucs as purportedly disclosing the subject matter of claim 1 conceded by the Office Action to be missing from Liu. Id.

Note that according to claim 1, a first computer system receives, via a network, “event data descriptive of an event to occur at an event time.” Claim 1 further recites “at a time after receipt of the event data, receive via the network article data descriptive of
an article to be associated with the event, the article data created during an electronic scanning operation.”

Thus, it is clear that the receiving of the article data (descriptive of an article to be associated with the event) created during an electronic scanning operation in claim 1 is at a time after receipt of the event data that is “descriptive of [the] event to occur at an event time.”

Crucs, on the other hand, performs “scanning [of] the event-identifying code from a printed or displayed advertisement” for the purpose of “creat[ing] at least one event entry for the advertised event within the electronic calendar application.” Crucs, ¶ [0011]. Crucs states that “manual entry [of events into a calendar application] takes time and can be prone to mistakes made by the user.” Id., ¶ [0002]. To address the foregoing, Crucs describes “automatically generating an event entry within an electronic calendar application,” by “electronically scanning the event-identifying code off of one of a printed advertisement and a displayed advertisement of the advertised event.” Id., ¶ [0005].

It is thus clear that in Crucs, the scanning of an event-identifying code is performed to create event data that is added to a calendar application. In contrast, in claim 1, “event data descriptive of an event to occur at an event time” is first received at a first computer system, and “at a time after receipt of the event data, … article data descriptive of an article to be associated with the event [is received], the article data created during an electronic scanning operation.” Stated differently, while claim 1 relates to receiving article data created during an electronic scanning operation at a time after receipt of event data “descriptive of an event to occur at an event time,” Crucs describes first receiving data produced by a scanning operation for the purpose of creating the event data and adding the event data as an entry to a calendar application.

In view of the foregoing, Applicant respectfully submits that, contrary to the assertion of the Office Action, Crucs clearly does not provide any teaching or hint of the subject matter of claim 1 conceded by the Office Action to be missing from Liu. Accordingly, Applicant respectfully submits that the asserted combination of Liu and Crucs would not have led to the subject matter of claim 1.

Claim 1 is thus non-obvious over Liu and Crucs.
Independent claim 14 is allowable over Liu and Crucs for reasons similar to those stated above with respect to claim 1.

REJECTION UNDER 35 U.S.C. § 103 OVER LIU, CRUCS, AND SHIRAI

In the rejection of claim 20 over Liu, Crucs, and Shirai, the Office Action relied upon Crucs as purportedly disclosing the following element of claim 20:

at a time after receipt of the event data, receiving, at the first computer system via the network, article data descriptive of an article to be associated with the event, the article data created during an electronic scanning of an identifier of the article conducted at a scanner computer system.

Office Action at 11. As explained above in connection with claim 1, Crucs clearly does not provide any teaching or hint of the foregoing subject matter of claim 20.

The third reference, Shirai, was relied upon by the Office Action with respect to a different feature of claim 20, and does not remedy the deficiencies of Liu and Crucs with respect to the subject matter of claim 20.

Accordingly, the asserted combination of Liu, Crucs, and Shirai would not have led to the subject matter of claim 20, and therefore, claim 20 is non-obvious over Liu, Crucs, and Shirai.

Dependent claims are allowable for at least the same reasons as respective base claims. In view of the allowability of base claims, the obviousness rejections of dependent claims have been overcome.

In view of the foregoing, allowance of all claims is respectfully requested.
The Commissioner is authorized to charge any additional fees and/or credit any overpayment to Deposit Account No. 08-2025 (82969831).

Respectfully submitted,

Date: June 8, 2015

/Dan C. Hu/

Dan C. Hu
Registration No. 40,025
TROP, PRUNER & HU, P.C.
1616 South Voss Road, Suite 750
Houston, TX 77057-2631
Telephone: (713) 468-8880
Facsimile: (713) 468-8883
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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/O/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.
IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Puneet Kumar Arora, et al
Application No.: 13/562756
Filing Date: Jul 31, 2012
Title: REMINDER MESSAGES

Mail Stop Amendment
Commissioner For Patents
PO Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER FOR RESPONSE/AMENDMENT

Transmitted herewith is/are the following in the above-identified application:

Response/Amendment
No additional fee

CLAIMS AS AMENDED BY OTHER THAN A SMALL ENTITY

<table>
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<tr>
<th>(1) FOR</th>
<th>(2) CLAIMS REMAINING AFTER AMENDMENT</th>
<th>(3) NUMBER EXTRA</th>
<th>(4) HIGHEST NUMBER PREVIOUSLY PAID FOR</th>
<th>(5) PRESENT EXTRA</th>
<th>(6) RATE</th>
<th>(7) ADDITIONAL FEES</th>
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FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM + $780 $ 0

EXTENSION FEE
- 1st Month $200
- 2nd Month $600
- 3rd Month $1400
- 4th Month $2200

OTHER FEES $

TOTAL ADDITIONAL FEE FOR THIS AMENDMENT $ 0

Charge $0 to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees. A duplicate copy of this sheet is enclosed.

Respectfully submitted,
Puneet Kumar Arora, et al

By: /Dan C. Hu, Reg. No. 40,025/

Dan C. Hu
Attorney/Agent for Applicant(s)

Reg No.: 40025
Date: JUNE 8, 2015
Telephone: +713-468-8880
# PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

<table>
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## APPLICATION AS FILED – PART I

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## APPLICATION SIZE FEE

- If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(e).

## 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

### APPLICATION AS AMENDED – PART II

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### Application Size Fee [37 CFR 1.16(a)]

- If the entry in column 1 is less than the entry in column 2, write “0” in column 3.
- ** If the “Highest Number Previously Paid For” in this space is less than 20, enter “20”.
- *** If the “Highest Number Previously Paid For” in this space is less than 3, enter “3”.

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

### TOTAL ADD’L FEE

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### Application Size Fee [37 CFR 1.16(a)]

- If the entry in column 1 is less than the entry in column 2, write “0” in column 3.

### TOTAL ADD’L FEE

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/LIE JAMES TUNSTALL/
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<td>82969831</td>
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HEWLETT-PACKARD COMPANY  
National Intellectual Property Administration  
3404 E. Harmony Road  
Mail Stop 35  
FORT COLLINS, CO 80528

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):

JERRY.SHORMA@HP.COM  
ipa.mail@hp.com  
brandon.serwan@hp.com
Office Action Summary

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☑ Responsive to communication(s) filed on 07/31/2012.
   □ A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was/were filed on ____.
2a) □ This action is FINAL. 2b) ☑ This action is non-final.
3) □ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
4) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-20 is/are pending in the application.
   5a) Of the above claim(s) ____ is/are withdrawn from consideration.
6) □ Claim(s) ____ is/are allowed.
7) ☑ Claim(s) 1-20 is/are rejected.
8) □ Claim(s) ____ is/are objected to.
9) □ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the Patent Prosecution Highway program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) □ The specification is objected to by the Examiner.
11) ☑ The drawing(s) filed on 07/31/2012 is/are: a) ☑ accepted or b) □ objected to by the Examiner.

   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

   a) □ All  b) ☑ Some**  c) □ None of the:
   1. □ Certified copies of the priority documents have been received.
   2. □ Certified copies of the priority documents have been received in Application No. ____.
   3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)
2) ☑ Information Disclosure Statement(s) (PTO/ SB/08a and/or PTO/SB/08b)
   Paper No(s)/Mail Date 07/31/2012
3) □ Interview Summary (PTO-413)
   Paper No(s)/Mail Date ____.
4) □ Other: ____.
Examiner Notes

1. Examiner cites particular columns and line numbers in the references as applied to the claims below for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the applicant 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.

Notice of Pre-AIA or AIA Status

2. The present application is being examined under the pre-AIA first to invent provisions.

3. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

Information Disclosure Statement

4. The information disclosure statement filed 07/31/2012 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because item 1 US-818037 does not appear to be the correct patent number and examiner was unable to locate the reference. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609.05(a).

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:
Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 14-19 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Regarding claims 14-19, recites a system containing modules such as "an event data module," "a reminder data module," "an article data module," and "a reminder sending module" which are all software modules, see ¶ [0024] of specification, the claimed system appears to be directed to software per se which is non-statutory subject matter.

Claim Rejections - 35 USC § 103

7. 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.

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of
each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claims 1-3, 5-14, and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. (U.S. PG PUB 2009/0168607) in view of Crucs (U.S. PG PUB 2012/0226779).

Regarding claim 1, Liu teaches a non-transitory computer-readable storage medium containing instructions, the instructions when executed by a processor causing the processor to: receive at a first computer system, via a network, event data descriptive of an event to occur at an event time (see ¶ [0023] receiving schedules); receive via the network, reminder data descriptive of a reminder time to occur on or before the event time (see ¶ [0023] generating multiple reminders).

Liu does not expressly disclose at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

However, Crucs teaches at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation (see ¶ [0011] “The method step of receiving the event-identifying code may include electronically scanning the event-identifying code from a printed or displayed advertisement, electronically imaging the event-identifying code from a printed or displayed advertisement”); and at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system (see ¶ [0039] “The AEF 380 uses the event information to automatically create at least one event entry for the advertised event within the
electronic calendar application” and ¶ [0031] “For example, when the date of an event is approaching, the ECA or AEF may provide a reminder notification to the user in a pop-up window on a display of the processor-based device”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶[0004]).

Regarding claim 2, Liu teaches wherein the reminder message is sent to the second computer system for presentation with a scheduled delivery of user-requested content sent to the second computer system (see ¶[0034]).

Regarding claim 3, Liu teaches wherein the reminder message is sent to the second computer system such that, when presented, the reminder message is embedded within the content (see ¶ [0021]).

Regarding claim 5, Liu teaches wherein the event data is received in the format of an electronic calendar (see ¶ [0022] calendar application program).

Regarding claim 6, Liu teaches wherein the event is a user defined event (see ¶ [0015] user can generate user-designated calendar-driven reminder).

Regarding claim 7, Liu teaches wherein the instructions cause the processor to receive an address for the second computer system, and to send the reminder message to the second computer system at the address (see ¶ [0024]).

Regarding claim 8, Liu does not expressly disclose wherein the electronic scanning operation includes scanning of an encoded identifier associated with the article.

However, Crucs teaches wherein the electronic scanning operation includes scanning of an encoded identifier associated with the article (see ¶ [0025] “scan the two-dimensional bar code and the scanned event information is forwarded to the AEF 130. The AEF 130 automatically processes the event
information to extract dates, times, locations, and other information (e.g., ticket prices, where to buy tickets) associated with the advertised event”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶[0004]).

Regarding claim 9, Liu does not expressly disclose wherein the reminder message includes an encoded identifier that, when electronically scanned by a scanning device and interpreted by a computer, is a link to information relating to the article.

However, Crucs teaches wherein the reminder message includes an encoded identifier that, when electronically scanned by a scanning device and interpreted by a computer, is a link to information relating to the article (see ¶ [0025] “scan the two-dimensional bar code and the scanned event information is forwarded to the AEF 130. The AEF 130 automatically processes the event information to extract dates, times, locations, and other information (e.g., ticket prices, where to buy tickets) associated with the advertised event”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶[0004]).

Regarding claim 10, Liu does not expressly disclose wherein the electronic scanning operation is conducted at a computing device that includes a camera, and the scanning operation includes of taking of a digital photograph of the article or identifier utilizing the camera.

However, Crucs teaches wherein the electronic scanning operation is conducted at a computing device that includes a camera, and the scanning operation includes of taking of a digital photograph of the article or identifier utilizing the camera (see ¶ [0022] scanner and/or camera).
Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶ [0004]).

Regarding claim 11, Liu teaches wherein the instructions cause the processor to store the event data, the reminder data, and the article data in memory in association with one another (see ¶ [0041]).

Regarding claim 12, Liu teaches wherein the event time includes a specific day of the week or time (see Fig. 3).

Regarding claim 13, Liu teaches wherein the event time includes is the lapse of a defined time period (see Fig. 3).

Regarding claim 14, Liu teaches a system, comprising: an event data module, to receive at a first computer system, via a network, event data descriptive of an event to occur at an event time (see ¶ [0023] receiving schedules); a reminder data module, to receive via the network, reminder data descriptive of a reminder time to occur on or before the event time (see ¶ [0023] generating multiple reminders).

Liu does not expressly disclose an article data module, to, at a time following receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and a reminder sending module, to, at the reminder time, send a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

However, Crucs teaches an article data module, to, at a time following receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation (see ¶ [0011] “The method step of receiving the event-identifying code may include electronically scanning the event-identifying code from a printed or displayed advertisement, electronically imaging the event-identifying code from a printed or displayed advertisement”); and a reminder sending module, to, at the reminder time, send a reminder message
describing the event and the article to a second computer system, for presentation at the second computer system (see ¶ [0039] “The AEF 380 uses the event information to automatically create at least one event entry for the advertised event within the electronic calendar application” and ¶ [0031] “For example, when the date of an event is approaching, the ECA or AEF may provide a reminder notification to the user in a pop-up window on a display of the processor-based device”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶¶[0004]).

Regarding claim 17, Liu teaches wherein the event data is received in the format of an electronic calendar and the event is a user defined event (see ¶ [0015] user can generate user-designated calendar-driven reminder).

Regarding claim 18, Liu does not expressly disclose wherein the electronic scanning operation includes scanning of a barcode or other encoded identifier associated with the article.

However, Crucs teaches wherein the electronic scanning operation includes scanning of a barcode or other encoded identifier associated with the article (see ¶ [0025] “scan the two-dimensional bar code and the scanned event information is forwarded to the AEF 130. The AEF 130 automatically processes the event information to extract dates, times, locations, and other information (e.g., ticket prices, where to buy tickets) associated with the advertised event”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶¶[0004]).

Regarding claim 4, Liu and Crucs do not disclose wherein the second computer system is a printer, and the presentation of the reminder message includes printing the reminder message at the printer.

However, Smith teaches wherein the second computer system is a printer, and the presentation of the reminder message includes printing the reminder message at the printer (see ¶[0005]).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Smith for the purposes of printing reminders or notes for convenience.


Regarding claim 15, Liu and Crucs do not disclose wherein the reminder message is sent to the second computer system along with a scheduled delivery of user-requested content sent to the second computer system for printing.

However, Shirai teaches wherein the reminder message is sent to the second computer system along with a scheduled delivery of user-requested content sent to the second computer system for printing (see ¶[0011], ¶ [0019]).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Shirai for managing a print schedule efficiently.

Regarding claim 16, Liu and Crucs do not disclose wherein reminder message is sent to the second computer system such that, when printed, the reminder message is embedded within the content. However, Shirai teaches wherein reminder message is sent to the second computer system such that, when printed, the reminder message is embedded within the content (see ¶ [0126]).
Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Shirai for managing a print schedule efficiently.

Regarding claim 19, Liu and Crucs do not expressly disclose wherein the second computer system is a network connected printer, and the presentation of the reminder message includes printing the reminder message at the printer.

However, Shirai teaches wherein the second computer system is a network connected printer, and the presentation of the reminder message includes printing the reminder message at the printer (see ¶ [0126]).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Shirai for managing a print schedule efficiently.

Regarding claim 20, Liu teaches a method, comprising: receiving at a first computer system, via a network and in the format of an electronic calendar (see ¶ [0034] calendar user application), event data descriptive of an event to occur at an event time (see ¶ [0023] receiving schedules); receiving via the network (see ¶ [0020] network), reminder data descriptive of a reminder time to occur on or before the event time (see ¶ [0023] generating multiple reminders).

Liu does not expressly disclose receiving an address for a network connected printer; at a time after receipt of the event data, receiving via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning of a barcode conducted at a computer system; and at the reminder time sending a reminder message describing the event and the article to the printer at the address, for printing at the printer, wherein the reminder message is sent to the printer along with a scheduled delivery of user-requested content to the printer.
However, Crucs teaches at a time after receipt of the event data, receiving via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning of a barcode conducted at a computer system (see ¶ [0011] “The method step of receiving the event-identifying code may include electronically scanning the event-identifying code from a printed or displayed advertisement, electronically imaging the event-identifying code from a printed or displayed advertisement”); and at the reminder time sending a reminder message describing the event (see ¶ [0039] “The AEF 380 uses the event information to automatically create at least one event entry for the advertised event within the electronic calendar application” and ¶ [0031] “For example, when the date of an event is approaching, the ECA or AEF may provide a reminder notification to the user in a pop-up window on a display of the processor-based device”).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teachings of Liu by adapting the teachings of Crucs for facilitating the entry of events into an electronic calendar application (see ¶[0004]).

Liu and Crucs do not disclose receiving an address for a network connected printer; sending the article to the printer at the address, for printing at the printer, wherein the reminder message is sent to the printer along with a scheduled delivery of user-requested content to the printer.

However, Shirai teaches receiving an address for a network connected printer (see ¶ [0081]); sending the article to the printer at the address, for printing at the printer, wherein the reminder message is sent to the printer along with a scheduled delivery of user-requested content to the printer (see ¶ [0126]).

Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Liu and Crucs by adapting the teachings of Shirai for managing a print schedule efficiently.
Support for Amendments and Newly Added Claims

12. Applicants are respectfully requested, in the event of an amendment to claims or submission of new claims, that such claims and their limitations be directly mapped to the specification, which provides support for the subject matter. This will assist in expediting compact prosecution. MPEP 714.02 recites: “Applicant should also specifically point out the support for any amendments made to the disclosure. See MPEP § 2163.06. An amendment which does not comply with the provisions of 37 CFR 1.121(b), (c), (d), and (h) may be held not fully responsive. See MPEP § 714.” Amendments not pointing to specific support in the disclosure may be deemed as not complying with provisions of 37 C.F.R. 1.121(b), (c), (d), and (h) and therefore held not fully responsive. Generic statements such as “Applicants believe no new matter has been introduced” may be deemed insufficient.

Interview Requests

13. In accordance with 37 CFR 1.133(a)(3), requests for interview must be made in advance. Interview requests are to be made by telephone (571-270-7848) call or FAX (571-270-8848). Applicants must provide a detailed agenda as to what will be discussed (generic statement such as “discuss §102 rejection” or “discuss rejections of claims 1-3” may be denied interview). The detail agenda along with any proposed amendments is to be written on a PTOL-413A or a custom form and should be faxed (or emailed, subject to MPEP 713.01.I / MPEP 502.03) to the Examiner at least 5 business days prior to the scheduled interview. Interview requests submitted within amendments may be denied because the Examiner was not notified, in advance, of the Applicant Initiated Interview Request and due to time constraints may not be able to review the interview request to prior to the mailing of the next Office Action.

Conclusion

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CARINA YUN whose telephone number is (571)270-7848. The examiner can normally be
reached on Mon-Thu, 9.30am-6.30pm; alt. Fri, EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, SAM SOUGH can be reached on (571)272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CARINA YUN/
Examiner, Art Unit 2194
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U.S. Patent and Trademark Office
**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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**Examining** /Carina Yun/  
Date Considered: 01/10/2015

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**APPLICANTS**

Puneet Kumar Arora, New Delhi, INDIA;
Diane R. Hammerstad, Corvallis, OR;

**CONTINUING DATA********************

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

**IF REQUIRED, FOREIGN FILING LICENSE GRANTED**

08/09/2012

- Foreign Priority claimed: ☐ Yes ☑ No
- 35 USC 119(a-d) conditions met: ☐ Yes ☑ No
- Met after Allowance: ☐
- STATE OR COUNTRY: INDIA
- SHEETS: 5
- DRAWINGS: 20
- TOTAL CLAIMS: 20
- INDEPENDENT CLAIMS: 3

**ADDRESS**

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
3404 E. Harmony Road
Mail Stop 35
FORT COLLINS, CO 80528
UNITED STATES

**TITLE**

REMINDER MESSAGES

- All Fees
- 1.16 Fees (Filing)
- 1.17 Fees (Processing Ext. of time)
- 1.18 Fees (Issue)
- Other
- Credit

**FILING FEE RECEIVED**

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- **Allowed**
- **Restricted**
- **Non-Elected**
- **Appeal**
- **Interference**
- **Objection**

Claims renumbered in the same order as presented by applicant.
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 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.

Applicant(s)

Puneet Kumar Arora, New Delhi, INDIA;
Diane R. Hammerstad, Corvallis, OR;

Power of Attorney: The patent practitioners associated with Customer Number 022879

Domestic Priority data as claimed by applicant

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

If Required, Foreign Filing License Granted: 08/09/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US 13/562,756

Projected Publication Date: 02/06/2014

Non-Publication Request: No

Early Publication Request: No
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 applicant's filing receipt contains further information and guidance as to the status of the applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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Title 35, United States Code, Section 184
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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).

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### PATENT APPLICATION FEE DETERMINATION RECORD

#### APPLICATION AS FILED - PART I

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- If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 0.00 (37 CFR 1.16(s)).

#### APPLICATION AS AMENDED - PART II

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

** If the "Highest Number Previously Paid For" in this space is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" in this space is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.
Transmitted herewith for filing under 37 CFR 1.53(b) is a(n):

- [ ] Utility
- [ ] Design
- [X] Original patent application
- [ ] Continuation-in-part application

INVENTOR(S): Puneet Kumar Arora, et al

TITLE: REMINDER MESSAGES

Enclosed are:

- [X] The Declaration and Power of Attorney
- [X] Signed
- [ ] Unsigned or partially signed
- [X] 5 Sheets of drawings (one set)
- [X] IDS Form PTO/SB/08a, PTO/SB/08b
- [ ] Priority document(s)
- [ ] Other

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**BASIC FILING FEE:** $ 1,250

**OTHER FEES:** $ 0

**TOTAL CHARGES TO DEPOSIT ACCOUNT:** $ 1,250

Charge $ 1,250 to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees.

By: /Garry A. Perry, Reg. No. 56,696/
Garry A Perry
Attorney/Agent for Applicant(s)
Reg No.: 56696
Date: Jul 31, 2012
Telephone: +1 859 422 4703

Respectfully submitted,

Puneet Kumar Arora, et al
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
3404 E. Harmony Road
Mail Stop 35
Fort Collins, Colorado 80528

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Patent Application Letter

Commissioner For Patents
PO Box 1450
Alexandria, VA 22313-1450

Transmitted herewith for filing under 37 CFR 1.53(b) is a(n): 

- Utility
- Design
- Original patent application
- Continuation-in-part application

INVENTOR(S): Puneet Kumar Arora, et al

TITLE: REMINDER MESSAGES

Enclosed are:

- The Declaration and Power of Attorney
- Signed
- Unsined or partially signed
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- IDS Form PTO/SB/08a PTO/SB/08b
- Priority document(s)
- Other

CLAIMS AS FILED BY OTHER THAN A SMALL ENTITY

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OTHER FEES: $

TOTAL CHARGES TO DEPOSIT ACCOUNT: $ 1,250

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Respectfully submitted,

Puneet Kumar Arora, et al

By: /Garry A. Perry, Reg. No. 56,696/
Garry A Perry
Attorney/Agent for Applicant(s)

Reg No.: 56696
Date: Jul 31, 2012
Telephone: +1 859 422 4703
As a below named inventor, I hereby declare that:
My residence/post office address and citizenship are as stated below next to my name;
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

REMINDER MESSAGES

the specification of which is attached hereto unless the following box is checked:
☐ was filed as US Application No. or PCT International Application Number and was amended on (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above.
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor(s) rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor’s rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed:

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Power of Attorney:
As a named inventor, I hereby appoint the attorney(s) and/or agent(s) associated with Customer No. 022879 to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Send Correspondence to the address associated with Customer Number 022879
Direct Telephone Calls to:
Garry A Perry
+1 859-422-4703

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Puneet Kumar Arora
Full Name of Sole or First Inventor (first, middle [if any], last) India
Citizenship

Inventor’s Signature
Date 31-07-2012

New Delhi Delhi India
Inventor’s Residence (City, State/Province, Country, Postal Code)
Pritech Park- SEZ, Sarjapur, Marathalli Outer Ring Road SY No.- 51-64/4, Bangalore Karnataka 560103

Business/Mailing Address
Diane R Hammerstad
Full Name of Sole or Second Inventor (first, middle [if any], last)

Inventor’s Signature

Corvallis OR 97330 United States of America
Inventor’s Residence (City, State/Province, Country, Postal Code)

1070 NE Circle Blvd. Corvallis Oregon 97330-4239
Business/Mailing Address

Full Name of Sole or Third Inventor (first, middle [if any], last)

Inventor’s Signature

Inventor’s Residence (City, State/Province, Country, Postal Code)

Business/Mailing Address

Full Name of Sole or Fourth Inventor (first, middle [if any], last)

Inventor’s Signature

Inventor’s Residence (City, State/Province, Country, Postal Code)

Business/Mailing Address

Full Name of Sole or Fifth Inventor (first, middle [if any], last)

Inventor’s Signature

Inventor’s Residence (City, State/Province, Country, Postal Code)

Business/Mailing Address
DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

REMARK MESSAGES

the specification of which is attached hereto unless the following box is checked:

☐ was filed as US Application No. or PCT International Application Number and was amended on (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

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Puneet Kumar Arora
India

Full Name of Sole or First Inventor (first, middle [if any], last)

Citizenship

Inventor’s Signature

Date

Inventor’s Residence (City, State/Province, Country, Postal Code)

Pritech Park- SEZ, Sarjapur, Marathalli Outer Ring Road, SY No.- 51-64/4, Bangalore Karnataka 560103

Business/Mailing Address

Page 1 of 2
Rev 07/11 (DecPart)
### Declaration and Power of Attorney for Patent Application (continued)

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<td>Diane R Hammerstad</td>
<td>United States of America</td>
<td>7/31/2012</td>
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**Inventor’s Signature**

Corvallis OR 97330 United States of America

**Inventor’s Residence (City, State/Province, Country, Postal Code)**

1070 NE Circle Blvd, Corvallis Oregon 97330-4239

**Business/Mailing Address**

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**Inventor’s Signature**

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**Inventor’s Signature**

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**Inventor’s Signature**

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**Business/Mailing Address**

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REMINDER MESSAGES

BACKGROUND

[0001] People commonly create and maintain a written “shopping lists” or “to do lists” (hereinafter “procurement lists”) to keep track of items to purchase. Such lists are often handwritten and hastily composed, e.g., a grocery shopping written list on the back of a used envelope or other scrap of paper.

BRIEF DESCRIPTION OF THE DRAWINGS

[0002] The accompanying drawings illustrate various embodiments and are a part of the specification. The illustrated embodiments are examples and do not limit the scope of the claims. Throughout the drawings, identical reference numbers designate similar, but not necessarily identical elements.

[0003] FIG. 1 is a block diagram illustrating a system according to various embodiments.

[0004] FIG. 2 is a block diagram illustrating a system according to various embodiments.

[0005] FIG. 3 depicts an example of associated storage of event data, reminder data, and article data, according to various embodiments.

[0006] FIG. 4 depicts an example reminder message describing an event and an article, for presentation at a computer system, according to various embodiments.

[0007] FIG. 5 is a flow diagram depicting steps taken to implement various embodiments.

[0008] The same part numbers designate the same or similar parts throughout the figures.

DETAILED DESCRIPTION OF EMBODIMENTS

[0009] Handwritten procurement lists frequently have a disadvantage of being vague and/or easily misinterpreted due to one person’s difficulty in reading another persons’ writing or understanding the other person’s intent. For example, a person may write “chicken”, “pasta”, and “tomato sauce” on a procurement list. Another person, or after a few days maybe even the person who wrote the note,
may find it difficult to discern from the list details regarding the items to be procured – e.g., what brand, what quantity, and for what meal or event the chicken, pasta, and tomato sauce are to be purchased.

[00010] In other situations, a computer user may create and store an electronic procurement list on a mobile phone or other computer, rather than utilizing a handwritten list. Some computer users will create an electronic procurement list that is a standalone document in a text or word processing application format. Other computer users may include a procurement list in a cell of an electronic calendar, or record individual procurement needs utilizing a “to do” application that may or may not be associated with an electronic calendar. These methods are improvements over a handwritten paper list in that the electronic list is less likely to be physically misplaced or lost, e.g., left in a shopping cart or in an automobile, than a paper list. However, these conventional electronic procurement lists still have the disadvantage of being easily misplaced or lost in other manners. The electronic procurement list is essentially misplaced or lost when a computer user has created and stored multiple lists of items to be procured, and the user cannot quickly identify and retrieve a particular desired list. Similarly, an electronic procurement list is essentially misplaced or lost in a situation where a user, rather than maintaining a multitude of lists, decides to track many multiple categories of items and items associated with multiple events in a single procurement list. In this situation, a procurement list can become unwieldy to the point that a user finds it difficult and time consuming to find and retrieve descriptions of specific items to be procured.

[00011] Accordingly, various embodiments described herein were developed to enable a computer user to easily create, maintain, and retrieve, highly specific and easily understood procurement lists that are associated with defined events. In an example of the disclosure, event data that is descriptive of an event to occur at an event time is received at a first computer system via a network. Also received at the first computer system, via the network, is reminder data that is descriptive of a reminder time to occur on or before the event time. At a time after the receipt of the event data at the first computing system, the first computing system receives via the network article data that is descriptive of an
article to be procured, and the article is associated with the event. The article data is data that was created during an electronic scanning operation conducted at a computer. At the reminder time, the first computing system sends via the network to a second computer system, for presentation at the second computer system a reminder message describing both the event and the article. An advantage of the disclosure is that it makes practical a reminder service that does not require users to manually enter articles names or descriptions to create a procurement list. Another advantage of the disclosure is that it removes the need for a user to remember or identify a particular procurement list, as the list is stored in computer memory in association with a particular event and event time. In examples, the events and event times can be user-defined events and event times, e.g., “Mom’s birthday” or “Our Anniversary.” Another advantage of the disclosure is that the reminder message allows for easy linking of items to be procured with web pages, web sites and other internet addresses, making possible the providing of relevant advertisements, coupons, and other related information to the users of reminder service.

[00012] As used in this application, a “network” refers to a collection of computing devices interconnected by communications channels that facilitate communications and allows sharing of resources and information among the interconnected devices. In examples, the network may be a proprietary network, a secured network, an open network, an intranet, an extranet, an internet or the Internet. An “event” refers to an occasion, occurrence, incident, or other happening. For example, a bank holiday, a parent’s birthday, a trip to the grocery store, and/or a scheduled time to take a medicine might each be described as an event. A “scanning operation” refers to a computer capturing in digital form and interpreting an image (an image including, but not limited to, a barcode, encoded identifier, or any other article or visual representation of an article). Examples of computers that might perform a scanning operation include, but are not limited to, optical scanners, computers with an attached handheld optical scanner unit, or smartphones, tablet computers, notebook computers, or other computing devices with an onboard camera. “Message” refers to any communication and is not meant to be limited to text or a character string. “Presentation” of content at a
computing device refers to displaying, showing, rendering or otherwise making content available for visual, auditory, tactile or other reception by a user. A "printer" or "printing device" refers to any liquid inkjet printer, solid toner-based printer, liquid toner-based printer, or any other electronic device that prints. "Printer" or "printing device" includes any multifunctional electronic device that performs a function such as scanning and/or copying in addition to printing. A "network-connected printer" refers to a printer that is connected to a network, to be capable of obtaining content, sending and receiving messages, accessing network content, and/or accessing applications via a network. An "electronic calendar" refers to a calendaring program or software that provides a user with an electronic version of a calendar. An “address” for a web site or web page refers to an identifier for the web page or web site relative to other web pages or web sites on a network (e.g., the internet), and may include, but is not limited to, a URL or other network address. “Encoded” refers to presentation in a format that is generally not readable by a human without the aid of a machine. A "link" refers to a character string, address, button, or other interactive element included within an electronic document, web page, or other application page with a first network address that, when interacted with by a user, e.g., via a user interface device, causes the loading of an electronic document, web page, or application page with a second network address.

[00013] FIG. 1 shows a first computer system 102 electronically connected to a second computer system 104 and scanner computer system 106 via a network 108. First computer system 102 represents generally any computing device or group of computing devices configured to send and receive network requests, send and receive data, and/or otherwise communicate with, scanner computer system 104 and second computer system 106. In examples, first computer system 102 may be or include a server, desktop computer, notebook computer, mobile device, tablet computer, and/or any other computing device.

[00014] Second computer system 104 represents generally any computing device or group of computing devices configured to send and receive network requests, send and receive data, and/or otherwise communicate with, first computer system 102. In examples, second computer system 104 may be or
include a server, desktop computer, notebook computer, mobile device, tablet computer, and/or any other computing device. In one example, second computer system 104 is a printer operable to produce a printed print job or printed content, and additionally operable to receive network requests, instructions, reminder messages, and other data from, and to send network requests, instructions, reminder messages, and other data to, and to otherwise communicate with computer system 102 over network 108.

[00015] Scanner computer system 106 represents generally any computing device or group of computing devices configured to perform a scanning operation 110, send and receive network requests, send scan data and other data to, and otherwise communicate with, computer system 102. In an example, the scanner computer system 106 may be, or include, a flatbed scanner or other optical scanner device. In another example, the scanner computer system may include a handheld optical scanner unit configured to scan and interpret one dimensional or two dimensional barcodes or other encoded identifiers. In another example, the scanner computer system 106 may be a smartphone, tablet computer, notebook computer, or other mobile computing device with an onboard camera, the camera used for scanning encoded images or other images.

[00016] Network 108 represents generally hardware components and computers interconnected by communications channels that allow sharing of resources and information. Network 108 may include a cable, wireless, fiber optic, or remote connection via a telecommunication link, an infrared link, a radio frequency link, or some combination of these, or any other connectors or systems that provide electronic communication. Network 108 may include, at least in part, an intranet, the internet, or a combination of both. Network 108 may also include intermediate proxies, routers, switches, load balancers, and the like. The paths followed by network 108 between the first computer system 102, the second computer system 104, and the scanner computer system 106 as depicted in FIG. 1 represent the logical communication paths between these devices, not necessarily the physical paths between the devices.

[00017] First computer system 102 is shown to include an event reminder service 112, a processor 114, and a memory 116. Event reminder service 112
represents generally any combination of hardware and programming configured to enable a computer user to cause the creation of event-specific procurement reminder messages, and to cause the sending of such messages to a computer system for display to the user at an established reminder time. Processor 114 represents generally any instruction execution system, such as a computer/processor based system or an ASIC (Application Specific Integrated Circuit), a computer, or other system that can fetch or obtain instructions or logic stored in memory 116 and execute the instructions or logic contained therein. Memory 116 represents generally any memory configured to store program instructions and other data.

[00018] In the example of FIG. 1, the event reminder service 112 executing at the first computer system 102 receives, via a network 108, event data 118 that is descriptive of an event to occur at an event time. In examples, the event reminder service 112 may receive the event data 118 from any computer system or computing device or computing service, including but not limited to the scanner computer system, 106, the second computer system, 104, or from another service (e.g., a calendar service) executing at first computer system 102. In examples, the event may be any occasion, occurrence, incident, or other happening. In example, the event may a user-defined event, such as "Mom's Birthday" or "Susan's Soccer Game." In another the example, the event may be an event that is predefined by a calendar service or other application, e.g., a national holiday applicable to a user. In yet another example, the event may be an event that is predefined by a calendar service that includes events specific to a profession, hobby, or other interest of a user, e.g., a calendar that is specific to a particular soccer team and includes game days and times for that team. In an example, the event time for the event may be expressed as, or otherwise include, a specific day of the week and/or time. For example “Susan’s Soccer Game – 5:00 p.m. Saturday June 8, 2012.” In another example, the event time for the event may be expressed as, or otherwise include, the lapse of a defined time period. For example, “Family Reunion to Occur in Two Weeks.”

[00019] Continuing with the example of FIG. 1, the event reminder service 112 receives, via the network 108, reminder data 120 descriptive of a reminder
time to occur on or before the event time. In an example, the reminder data 120 may be data descriptive of a reminder time defined or set by a user to be “two weeks prior” to the event. In another example, the reminder data 120 may be data descriptive of a reminder time that is the same as the event time. For instance, if a “Grocery Store Visit” event is defined with an event time of “12:00 p.m. Monday”, the reminder time may be set to the precise time of the event (“12:00 p.m. Monday”). In yet another example, the reminder data 120 may be data descriptive of an exact reminder date and time that is prior to the event time. For instance, if a “Grocery Store Visit” event is defined with an event time of “12:00 p.m. Monday”, the reminder time may be set to the precise time of “12:00 p.m. Sunday”).

[00020] At some time after the event reminder service 112 receives the event data 118, the service 112 receives via the network 108 article data 122 that is descriptive of an article to be associated with the event. The article data 122 is data that is created by a computer during an electronic scanning operation 110. In the example of FIG. 1, the scanning operation is conducted by scanner computer system 106, and after completion of the scanning operation 110 the scanner computer system 106 sends the article data 122 to the event reminder service 112 at the first computer system 112. In examples, the scanner computer system 106 may be or include a flatbed scanner, an optical scanner device, a handheld barcode reader or other handheld optical scanner unit, or a smartphone, notebook computer, tablet computer, or other mobile computing devices with an onboard camera for scanning encoded images and other images and articles.

[00021] In an example previously presented in this application in which the user-defined event is “Mom’s Birthday”, the article data 122 may be data created during a scanning operation in which a handheld scanner unit is utilized to scan a barcode in a printed catalog, the barcode associated with a sweater to be purchased in connection with the birthday. In another example previously presented in this application in which the user-defined event is “Susan’s Soccer Game”, the article data 122 may be data created during a scanning operation in which a smartphone with a camera is utilized to scan barcodes included within
tags on equipment to be brought to the game. For instance a user might create
the article data by scanning barcodes on items in the user's garage or sports
equipment room, the data indicative of equipment and other items to be brought
to the soccer game. Similarly, in another example previously presented in this
application in which the user-defined event is a "Family Reunion to Occur in Two
Weeks", the article data 122 may be data created during a scanning operation in
which a smartphone with a camera is utilized to scan barcodes on packaging of
food items to be brought, or purchased and brought, to the family reunion. For
instance, such scanning may be a scanning operation in which items are
scanned that already in inventory, e.g., in the family refrigerator. In another
instance, such scanning may be a scanning operation in which food items are
scanned during a first grocery store visit, such that the article data can be used to
in a reminder for a second grocery store visit closer to the date of the family
reunion.

[00022] At the reminder time, the event reminder service 112 sends to the
second computer system 104, via the network 108, a reminder message 124
describing the event and the associated article. The event reminder service 112
sends the reminder message 124 to the second computer system 104 in order
that the second computer system 104 present 126 the reminder message 124 to
a user. In one example, the second computer system 104 includes a monitor,
touchscreen, or other visual display device and the presentation includes a visual
display of the reminder at the display device. In another example, the second
computer system 104 is a printer, and presentation of the reminder message 124
at the second computer system includes a printing of the reminder message 124
at the printer. In another example, the second computer system 104 includes a
speaker or other auditory display device, and the presentation of the reminder
message 124 at the second computer system 104 is an auditory display (e.g., a
spoken word or musical auditory display). In another example, the second
computer system 104 may present the reminder message using a combination of
two or more of a visual display at a monitor or screen, a printing of the reminder
message 124, and/or an auditory display of the reminder message 124.
The functions and operations described with respect to event reminder service 112 and first computer system 102 may be implemented as a non-transitory computer-readable storage medium containing instructions executed by a processor (e.g., processor 114) and stored in a memory (e.g., memory 116). In a given implementation, processor 114 may represent multiple processors, and memory 116 may represent multiple memories. Processor 114 represents generally any instruction execution system, such as a computer/processor based system or an ASIC, a computer, or other system that can fetch or obtain instructions or logic stored in memory 116 and execute the instructions or logic contained therein. Memory 116 represents generally any memory configured to store program instructions and other data.

FIG. 2 is a block diagram illustrating a system according to various embodiments. FIG. 2 includes particular components, modules, etc. according to various embodiments. However, in different embodiments, more, fewer, and/or other components, modules, arrangements of components/modules, etc. may be used according to the teachings described herein. In addition, various components, modules, etc. described herein may be implemented as one or more software modules, hardware modules, special purpose hardware (e.g., application specific hardware, application specific integrated circuits (ASICs), embedded controllers, hardwired circuitry, etc.), or some combination of these.

FIG. 2 shows a reminder server system 202 electronically connected to a printer 204 and a computing device 206 via an internet 208. Reminder server system 202 represents generally any computing device or group of computing devices configured to send and receive network requests, send and receive content, and otherwise communicate with 204 and computing device 206. In examples, reminder server system 202 may be or include a server, desktop computer, notebook computer, mobile device, tablet computer, and/or any other computing device.

Printer 204 represents generally a printer computing device that is operable to produce a printed print job or printed content. In this example, printer 204 is a network connected printer additionally operable to send network requests, print jobs and other content to, receive network requests, print jobs,
and other content from, and otherwise communicate with reminder server system 202 over internet 208. In another example, not shown in FIG. 2, the printer 204 may be a printer that is indirectly connected to the internet, e.g., the printer is connected to a desktop computer, notebook computer, or other host computing device that is connected to the internet 208. In the latter example, the host computing device may be any computing device or system configured to send and receive network requests, send and receive content (including sending print jobs), and otherwise communicate with printer 204.

[00027] Computing device 206 represents generally a computing device, or group of computing devices, configured to send and receive network requests, send content to, and otherwise communicate with, reminder server system 202. In examples, computing device 206 may be a smartphone, tablet computer, notebook computer, desktop computer, or any other computing device.

[00028] Internet 208 represents generally hardware components and computers interconnected by communications channels that allow sharing of resources and information over an internet or intranet network, or over a combination of both. Internet 208 may include a cable, wireless, fiber optic, or remote connection via a telecommunication link, an infrared link, a radio frequency link, or some combination of these, or any other connectors or systems that provide electronic communication. Internet 208 may also include intermediate proxies, routers, switches, load balancers, and the like. The paths followed by internet 208 between reminder server system 202, printer 204, and computing device 206 as depicted in FIG. 2 represent the logical communication paths between these devices, not necessarily the physical paths between the devices.

[00029] Reminder server system 202 is shown to include an event reminder service 212, an associated data storage database 226, a processor 214, and a memory 216. Event reminder service 212 represents generally any combination of hardware and programming configured to enable creation of event-specific procurement reminder messages, and cause sending of such messages to a computer system for display to the user at an established reminder time. The service 212 includes an event data module 274, a reminder data module 276, an
article data module 278, an address module 280, an association module 282, and a reminder sending module 284. Associated data storage database 226 represents generally a database, registry, lookup table or list that associates event data, reminder data, and article data in memory in association with one another. Processor 214 represents generally any instruction execution system, such as a computer/processor based system or an ASIC, a computer, or other system that can fetch or obtain instructions or logic stored in memory 216 and execute the instructions or logic contained therein. Memory 216 represents generally any memory configured to store program instructions and other data.

[00030] In the example of FIG. 2, the event data module 274 included within event reminder service 212 and executing at reminder server system 202 receives, via the internet 208, event data 218 descriptive of an event to occur at an event time. In this example, the event data 218 includes a description of a “Julie’s Birthday” event 236 and a “2:00 p.m. June 27 PDT” event time 238. In this example, the event data 218 is sent by the computing device 206 to the reminder server system 202, over the internet 208, and is sent in electronic calendar format. Examples of electronic calendars include, but are not limited to, Microsoft Outlook®, Lotus Notes®, and the calendar features of many PDAs and smartphones. In an example, receiving event data in electronic calendar format may include receiving an entire electronic calendar file that includes the event data. In another example, receiving event data in electronic calendar format may include receiving the event data, but less than data for an entire electronic calendar, in an electronic calendar format. Examples of electronic calendar file formats include, but are not limited to, the proprietary “.pst” or “.nsf” formats. In other examples, the event data and/or an entire electronic calendar may be received by the reminder server system 202 in a non-proprietary calendar format.

[00031] The reminder data module 276 receives, via the internet 208, reminder data 220 descriptive of a reminder time 240 to occur on or before the event time 238. In the example of FIG. 2, the reminder data 220 may be data descriptive of a reminder time 240 defined or set by a user to be “one week away” or “one week prior” to the “Julie’s Birthday” event 236. In the example of FIG. 2, the computing device 206 sends, and the reminder server system 202
receives, the reminder data 220 in the electronic calendar format as the event
data 218 was sent in. In an example, the event data 218 and the reminder data
220 are received contemporaneously by the reminder server system as electronic
calendar data 242.

[00032] At some time following the event data module’s 274 receipt of the
event data 218, the computing device 206 sends, and the article data module 278
receives, article data 222 via the internet 208. In this example, the article data
222 is data including descriptions 246 of a cake, birthday decorations, a piñata,
and a present (a bicycle) articles 250 to be associated with the "Julie’s Birthday"
event 236. The article data 222 is created by the computing device 206 during
an electronic scanning operation 210. In the example of FIG. 2, the scanning
operation included a user 248 at the computing device 206 taking a digital
photograph of QR codes or other encoded identifiers 252 for the articles 250
utilizing a camera component 244 included within the computing device 206. For
instance, the QR code identifiers 252 may QR codes included within a sales
brochure for an entity that sells children’s birthday cakes, party favors, and gifts
via mail order. In another instance, the QR code identifiers 252 may be QR
codes displayed as part of a web page that facilitates an online retail store for
children’s birthday items.

[00033] In the example of FIG. 2, an association module 282 of the event
reminder service 212 causes the storage of the article data 222, and the
previously received event data 218 and reminder data 220, in memory in
association with one another. FIG. 3, in view of FIG. 2, provides an example of
associated storage of event data 218, reminder data 220, and article data 222 at
a database identified as "Associated Data Storage" 226 located within reminder
system 202. In other examples, article data 222, event data 218, and reminder
data 220, may be stored in association with one another in a database or other
memory included within a computer system separate from, but electronically
connectible with, reminder system 202.

[00034] In the example of FIG. 2, the computing device 206 sends, and the
article data module 278 receives, a printer address 256 for the printer 204. In an
example the printer address 256 is an email address for a network connected
printer 204, and the printer address is 256 is supplied to the mobile computing device via user 248 input at the mobile computing device’s touchscreen user interface. In another example, the printer address 256 may be an IP address for a network connected printer 204, and may be an address that was stored at computing device 206 in connection with an already accomplished printing or scanning task involving printer 204.

[00035] Continuing with FIG. 2, at the reminder time 240 designated in the reminder data 220, the reminder sending module 284 sends to the printer 204, at the printer address 256 previously received by the address module 280 and via the internet 208, a reminder message 224. The reminder message 224 includes a description 260 describing the event 236 and descriptions 246 of the articles associated with the event 236. In this example, the reminder message 224 is sent by the reminder server system 202, via the internet 208, to the printer 204 along with scheduled delivery content 262. The reminder message is sent to the printer 204 for presentation at the printer 204, in this case printing, along with the scheduled delivery content 262. In examples, the scheduled delivery content 262 may be a scheduled delivery of a magazine article, newspaper article, children’s coloring page, daily crossword puzzle, recipe, or any other type of content that can be sent for presentation to a user. In examples, the automatic scheduled delivery content 262 may be scheduled for delivery at specific times and dates. In other examples, the automatic scheduled delivery content 262 may be scheduled for delivery at a defined time at regular intervals such as “6:00 p.m. PDT daily”, “6:00 p.m. PDT Wednesday weekly”, or “6:00 p.m. PDT daily on the last day of each month.” In other examples, the automatic scheduled delivery content 262 may be scheduled for delivery at regular date intervals, such as “daily”, “weekly”, and “monthly”, with the delivery times at irregular times according to a formula. In the example of FIG. 2, the automatic scheduled delivery content 262 is sent to a printer 204 for printing presentation to a user. In other examples of the disclosure, the automatic scheduled delivery content 262 may be content sent to a mobile phone, notebook computer, tablet computer, gaming computer, or any other computing device.
[00036] In the example of FIG. 2, the reminder sending module 284 sends the reminder message 224 to the printer 204 in a manner such that, when printed, the reminder message 224 is embedded within the content 224 that was previously scheduled for automatic delivery. The printed output 264 includes the content previously scheduled for automatic delivery 224, and also, as an item embedded with the previously scheduled delivery content 224, the printed reminder message 224.

[00037] FIG. 4 provides additional detail of the printed output 264 of FIG. 2. In this example of FIG. 4, in view of FIG. 2, the printed output 264 produced by the printer 204 includes the printed content previously scheduled for automatic delivery 262 and the reminder message 224. In this example the reminder message includes the event description 260 "Julie's Birthday" 260, the event time 238 "one week away", and the articles descriptions 246 "cake, decorations, piñata, and present (bicycle)." In this example, the printed reminder message 224 also includes a QR code 272 that, when electronically scanned by a scanning device and interpreted by a computer, is a link to additional information relating to one or more of the articles. For instance, by scanning the QR code on the printed reminder with a mobile telephone with camera functionality, a user might access relevant advertisements, coupons, and other desired information relative to the articles and article descriptions 246.

[00038] The functions and operations described with respect to event reminder service 212 and reminder server system 202 may be implemented as a non-transitory computer-readable storage medium containing instructions executed by a processor (e.g., processor 214) and stored in a memory (e.g., memory 216). In a given implementation, processor 214 may represent multiple processors, and memory 216 may represent multiple memories. Processor 214 represents generally any instruction execution system, such as a computer/processor based system or an ASIC, a computer, or other system that can fetch or obtain instructions or logic stored in memory 216 and execute the instructions or logic contained therein. Memory 216 represents generally any memory configured to store program instructions and other data.
[00039] FIG. 5 is a flow diagram of operation in a system according to various embodiments. In discussing FIG. 5, reference may be made to the diagram of FIG. 2 to provide contextual examples. Implementation, however, is not limited to those examples. Starting with FIG. 5, event data descriptive of an event to occur at an event time is received, via a network, at a first computer system (block 502). Referring back to FIG. 2, event data module 274 may be responsible for implementing block 502.

[00040] Continuing with FIG. 5, reminder data descriptive of a reminder time to occur on or before the event time is received via the network (block 504). Referring back to FIG. 2, reminder data module 276 may be responsible for implementing block 504.

[00041] Continuing with FIG. 5, at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation (block 506). Referring back to FIG. 2, article data module 278 may be responsible for implementing block 506.

[00042] Continuing with FIG. 5, at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system (block 508). Referring back to FIG. 2, reminder sending module 284 may be responsible for implementing block 508.

[00043] Various modifications may be made to the disclosed embodiments and implementations without departing from their scope. Therefore, the illustrations and examples herein should be construed in an illustrative, and not a restrictive, sense.
What is claimed is:

1. A non-transitory computer-readable storage medium containing instructions, the instructions when executed by a processor causing the processor to:
   receive at a first computer system, via a network, event data descriptive of an event to occur at an event time;
   receive via the network, reminder data descriptive of a reminder time to occur on or before the event time;
   at a time after receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and
   at the reminder time send via the network a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

2. The medium of claim 1, wherein the reminder message is sent to the second computer system for presentation with a scheduled delivery of user-requested content sent to the second computer system.

3. The medium of claim 2, wherein the reminder message is sent to the second computer system such that, when presented, the reminder message is embedded within the content.

4. The medium of claim 1, wherein the second computer system is a printer, and the presentation of the reminder message includes printing the reminder message at the printer.

5. The medium of claim 1, wherein the event data is received in the format of an electronic calendar.

6. The medium of claim 1, wherein the event is a user defined event.
7. The medium of claim 1, wherein the instructions cause the processor to receive an address for the second computer system, and to send the reminder message to the second computer system at the address.

8. The medium of claim 1, wherein the electronic scanning operation includes scanning of an encoded identifier associated with the article.

9. The medium of claim 1, wherein the reminder message includes an encoded identifier that, when electronically scanned by a scanning device and interpreted by a computer, is a link to information relating to the article.

10. The medium of claim 1, wherein the electronic scanning operation is conducted at a computing device that includes a camera, and the scanning operation includes taking of a digital photograph of the article or identifier utilizing the camera.

11. The medium of claim 1, wherein the instructions cause the processor to store the event data, the reminder data, and the article data in memory in association with one another.

12. The medium of claim 1, wherein the event time includes a specific day of the week or time.

13. The medium of claim 1, wherein the event time includes is the lapse of a defined time period.

14. A system, comprising:
   - an event data module, to receive at a first computer system, via a network, event data descriptive of an event to occur at an event time;
   - a reminder data module, to receive via the network, reminder data descriptive of a reminder time to occur on or before the event time;
an article data module, to, at a time following receipt of the event data, receive via the network article data descriptive of an article to be associated with the event, the article data created during an electronic scanning operation; and a reminder sending module, to, at the reminder time, send a reminder message describing the event and the article to a second computer system, for presentation at the second computer system.

15. The system of claim 14, wherein the reminder message is sent to the second computer system along with a scheduled delivery of user-requested content sent to the second computer system for printing.

16. The system of claim 15, wherein reminder message is sent to the second computer system such that, when printed, the reminder message is embedded within the content.

17. The system of claim 14, wherein the event data is received in the format of an electronic calendar and the event is a user defined event.

18. The system of claim 14, wherein the electronic scanning operation includes scanning of a barcode or other encoded identifier associated with the article.

19. The system of claim 14, wherein the second computer system is a network connected printer, and the presentation of the reminder message includes printing the reminder message at the printer.

20. A method, comprising:
   receiving at a first computer system, via a network and in the format of an electronic calendar, event data descriptive of an event to occur at an event time; receiving via the network, reminder data descriptive of a reminder time to occur on or before the event time; receiving an address for a network connected printer;
at a time after receipt of the event data, receiving via the network article
data descriptive of an article to be associated with the event, the article data
created during an electronic scanning of a barcode conducted at a computer
system; and

at the reminder time sending a reminder message describing the event
and the article to the printer at the address, for printing at the printer, wherein the
reminder message is sent to the printer along with a scheduled delivery of user-
requested content to the printer.
REMINDER MESSAGES

ABSTRACT
In one embodiment, event data descriptive of an event to occur at an event time is received at a first computer system via a network. Reminder data, descriptive of a reminder time to occur on or before the event time, is received via the network. At a time after receipt of the event data, article data descriptive of an article to be associated with the event is receive via the network. The article data is data created during an electronic scanning operation. At the reminder time a reminder message describing the event and the article is sent via the network to a second computer system, for presentation at the second computer system.
FIG. 1

Event Reminder Service

Processor

Memory

First Computer System

Network

Event Data

Article Data

Reminder Data

Scanner Computer System

Second Computer System

Article Data

Scanning Operation

Reminder Message

Presentation of Reminder Message

Reminder Message
<table>
<thead>
<tr>
<th>Event Description</th>
<th>Event Time</th>
<th>Reminder Time</th>
<th>Associated Article Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julie's Birthday</td>
<td>2:00 pm June 27, 2012 PDT</td>
<td>1 week prior to event</td>
<td>Cake #12345</td>
</tr>
<tr>
<td>Julie's Birthday</td>
<td>2:00 pm June 27, 2012 PDT</td>
<td>1 week prior to event</td>
<td>Decorations Kit #56789</td>
</tr>
<tr>
<td>Julie's Birthday</td>
<td>2:00 pm June 27, 2012 PDT</td>
<td>1 week prior to event</td>
<td>Piñata #45678</td>
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<td>Julie's Birthday</td>
<td>2:00 pm June 27, 2012 PDT</td>
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<td>Present (Bicycle) #789101</td>
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<td>Susan's Soccer Game</td>
<td>5:00 pm Saturday June 8, 2012</td>
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<td>Soccer Equipment Box #A4457</td>
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<tr>
<td>Family Reunion</td>
<td>May 31 12:00 pm PDT</td>
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<td>Food Item #789109</td>
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FIG. 3
Title: Reminder Messages
Inventor: Puneet Kumar Arora et al.
Docket No. 82969831

FIG. 4

Scheduled Delivery News Content

REMINDER...

REMINDER: Julie's birthday is just 1 week away!!

Shopping List:
- Cake Decorations
- Piñata
- Present (Bicycle)

QR Codes
START

502 RECEIVE AT A FIRST COMPUTER SYSTEM, VIA A NETWORK, EVENT DATA DESCRIPTIVE OF AN EVENT TO OCCUR AT AN EVENT TIME

504 RECEIVE VIA THE NETWORK, REMINDER DATA DESCRIPTIVE OF A REMINDER TIME TO OCCUR ON OR BEFORE THE EVENT TIME

506 AT A TIME AFTER RECEIPT OF THE EVENT DATA, RECEIVE VIA THE NETWORK ARTICLE DATA DESCRIPTIVE OF AN ARTICLE TO BE ASSOCIATED WITH THE EVENT, THE ARTICLE DATA CREATED DURING AN ELECTRONIC SCANNING OPERATION CONDUCTED AT A COMPUTER SYSTEM

508 AT THE REMINDER TIME SEND VIA THE NETWORK A REMINDER MESSAGE DESCRIBING THE EVENT AND THE ARTICLE TO A SECOND COMPUTER SYSTEM, FOR PRESENTATION AT THE SECOND COMPUTER SYSTEM

END

FIG. 5
**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

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<tr>
<th>U. S. PATENT DOCUMENTS</th>
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**FOREIGN PATENT DOCUMENTS**

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<th><strong>Foreign Patent Document</strong></th>
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<td>Mackay Gavin</td>
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 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.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.
A domestic shopping list generator with an integral barcode scanner, a display, and an internet ordering function

Inventor(s): MACKAY GAVIN (GB)

Applicant(s): MACKAY GAVIN (GB)

Classification:
- International: G06K7/10; G06Q10/00
- European: G06Q10/07

Application number: GB2009012827 29990723

Priority number(s): GB2009012827 29990723

Abstract of GB2472067 (A)

A consumer uses the scanner 16,26 of a dedicated shopping list generator device 10 to read the barcode on the packaging of an item before disposal in a rubbish bin. This enables the shopping list generator to compile an editable shopping list for internet purchase. The shopping list generator 10 may automatically place an order when the number of items or the total cost reaches a threshold. The shopping list generator may communicate wirelessly with an internet hub, router or mobile phone transceiver. Cost data, allergy information, or recipes may be downloaded to the shopping list generator. RFID tags may be read instead of UPC barcodes. A removable memory (42, figures 1 and 3) may be used in conjunction with a host computer (38, figure 3) to download cost data or upload the shopping list for ordering.
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**Title of Invention:** REMINDER MESSAGES

**First Named Inventor/Applicant Name:** Puneet Kumar Arora

**Filer:** Garry A. Perry/Laura Zavala

**Attorney Docket Number:** 82969831

**Filed as Large Entity**

**Utility under 35 USC 111(a) Filing Fees**

**Pages:**

**Claims:**

**Miscellaneous-Filing:**

**Petition:**

**Patent-Appeals-and-Interference:**
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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

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

**New International Application Filed with the USPTO as a Receiving Office**
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.
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Application Number: 13562756  Document Date: 7/31/2012

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- Drawings – Other than Black and White Line Drawings

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