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.
PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail  
Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
or Fax  
(571)-273-2885

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

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

40459 7390 02/17/2016
STEIN IP, LLC
1400 EYE STREET, NW
SUITE 300
WASHINGTON, DC 20005

Note: A certificate of mailing may only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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.

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<th>(Depositor's name)</th>
<th>(Signature)</th>
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APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
--- | --- | --- | --- | --- |
12/819,272 | 06/21/2010 | Wonjang BAEK | 0366.1005 | 9757 |

TITLE OF INVENTION: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J

SPECIFICATION

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EXAMINER | ART UNIT | CLASS-SUBCLASS |
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NAVAR, ERICA | 2641 | 455-00300 |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- [ ] Change of correspondence address (or Change of Correspondence Address form PT0/SB/122) attached.
- [ ] "Fee Address" indication (or "Fee Address" indication form PT0/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
   (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
   (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

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 recording as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE
SK PLANET CO., LTD.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)
SEUL, REPUBLIC OF KOREA

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:
- [ ] Issue Fee
- [ ] Publication Fee (No small entity discount permitted)
- [ ] Advance Order - # of Copies

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)
- [ ] A check is enclosed.
- [ ] Payment by credit card. Form PTO-205 is attached.
- [ ] The director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 503333 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)
- [ ] Applicant certifying micro entity status. See 37 CFR 1.29
- [ ] Applicant asserting small entity status. See 37 CFR 1.27
- [ ] Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

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.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

Authorized Signature
/Sungyeop Chung/

Typed or printed name
Sungyeop Chung

Date June 14, 2016

Registration No. 64,130

Page 2 of 3

PTOL-85 Part B (10-13) Approved for use through 10/31/2013.

OMB 0651-0033  U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
**Electronic Patent Application Fee Transmittal**

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**Title of Invention:**
METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

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<td>Michael D. Stein/Johannah Maya</td>
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**Filing Fees for Utility under 35 USC 111(a)**

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| **Title of Invention:**                | METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION |

| **First Named Inventor/Applicant Name:** | Wonjang BAEK |
| **Customer Number:**                    | 49455       |
| **Filer:**                              | Michael D. Stein/Johannah Maya |
| **Filer Authorized By:**                | Michael D. Stein |
| **Attorney Docket Number:**             | 0366.1005   |
| **Receipt Date:**                       | 14-JUN-2016 |
| **Filing Date:**                        | 21-JUN-2010 |
| **Time Stamp:**                         | 16:15:21    |
| **Application Type:**                   | Utility under 35 USC 111(a) |

**Payment information:**

- **Submitted with Payment:** yes
- **Payment Type:** Credit Card
- **Payment was successfully received in RAM:** $960
- **RAM confirmation Number:** 2714

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:
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.
NOTICE OF ALLOWANCE AND FEE(S) DUE

49455 7590 05/17/2016

STEIN IP, LLC
1400 EYE STREET, NW
SUITE 300
WASHINGTON, DC 20005

EXAMINER

NAVAR, ERICA

ART UNIT  PAPER NUMBER
3641

DATE MAILED: 05/17/2016

APPLICATION NO.  FILING DATE  FIRST NAMED INVENTOR  ATTORNEY DOCKET NO.  CONFIRMATION NO.
12/819,272  06/21/2010  Wonjong BAEK  0366.1005  9757

TITLE OF INVENTION: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

APPLN. TYPE  ENTITY STATUS  ISSUE FEE DUE  PUBLICATION FEE DUE  PREV. PAID ISSUE FEE  TOTAL FEE(S) DUE  DATE DUE
nonprovisional  SMALL  $480  $0  $0  $480  08/17/2016

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  Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 or Fax (571)-273-2885

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

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

49455 7590 05/17/2016
STEIN IP, LLC
1400 EYE STREET, NW
SUITE 300
WASHINGTON, DC 20005

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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.

(Deposit's name)
(Signature)
(Date)

APPLICATION NO.  FILING DATE  FIRST NAMED INVENTOR  ATTORNEY DOCKET NO.  CONFIRMATION NO.

12/819,272 08/21/2010  Wonjang BAEK  0366.1005  9757

TITLE OF INVENTION: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

APPLN. TYPE  ENTITY STATUS  ISSUE FEE DUE  PUBLICATION FEE DUE  PREV. PAID ISSUE FEE  TOTAL FEE(S) DUE  DATE DUE

nonprovisional  SMALL  $480  $0  $0  $480  08/17/2016

EXAMINER  ART UNIT  CLASS-SUBCLASS

NAVAR, ERICA  2641  455-003060

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
   (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
   (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no names 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 recodertion as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

   (A) NAME OF ASSIGNEE

   (B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

4a. The following fee(s) are submitted:
   - Issue Fee
   - Publication Fee (No small entity discount permitted)
   - Advance Order - # of Copies

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)
   - A check is enclosed.
   - Payment by credit card. Form PTO-2038 is attached.
   - The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number [enclose an extra copy of this form].

5. Change in Entity Status (from status indicated above)
   - Applicant certifying micro entity status. See 37 CFR 1.29
   - Applicant asserting small entity status. See 37 CFR 1.27
   - Applicant changing to regular undiscounted fee status.

   NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
   NOTE: If the application was previously under micro entity status, this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

   NOTE: 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

Date

Typed or printed name

Registration No.
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.
OMB Clearance and PRA Burden Statement for PTOL-85 Part B

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 the Amendment filed 25 April 2016.
   ☐ 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 1,11 and 12. 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)  5. ☐ Examiner’s Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____  6. ☐ Examiner’s Statement of Reasons for Allowance
3. ☐ Examiner’s Comment Regarding Requirement for Deposit of Biological Material  7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.

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Examiner, Art Unit 2641
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**ERICA NAVAR**
Examiner, Art Unit 2641
(Examiner)
04/30/2016

**SAN HTUN**
Primary Examiner, Art Unit 2643
(Primary Examiner)
04/30/2016

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Claims renumbered in the same order as presented by applicant

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- [ ] R.1.47

Total Claims Allowed:

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U.S. Patent and Trademark Office

Part of Paper No. 20160420
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Wonjang BAEK
Application No. 12/819,272
Filed: June 21, 2010
Confirmation No. 9757
Group Art Unit: 2643
Examiner: Erica NAVAR

For: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

RESPONSE AND REQUEST FOR RECONSIDERATION UNDER 37 CFR 1.116

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

Sir:

This is in response to the Final Office Action mailed February 25, 2016, and having a period for response set to expire on May 25, 2016.

The two-month date from the mailing date of the Final Office Action is April 25, 2016. This response is being filed on April 25, 2016, and thus is being filed within two months of the mailing date of the Final Office Action, for the purposes of MPEP 714.13(I).

Reconsideration of the claims is respectfully requested. The following remarks are respectfully submitted.
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Wonjang BAEK

Application No. 12/819,272

Filed: June 21, 2010

For: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

Confirmation No. 9757

Group Art Unit: 2643

Examiner: Erica NAVAR

RESPONSE AND REQUEST FOR RECONSIDERATION UNDER 37 CFR 1.116

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

Sir:

This is in response to the Final Office Action mailed February 25, 2016, and having a period for response set to expire on May 25, 2016.

The two-month date from the mailing date of the Final Office Action is April 25, 2016. This response is being filed on April 25, 2016, and thus is being filed within two months of the mailing date of the Final Office Action, for the purposes of MPEP 714.13(I).

Reconsideration of the claims is respectfully requested. The following remarks are respectfully submitted.
AMENDMENTS TO THE CLAIMS

The text of all pending claims (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims show added text with underlining and deleted text with strikethrough. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 20 and 21 without prejudice or disclaimer, and AMEND claims 1 and 12, in accordance with the following:

1. (CURRENTLY AMENDED) A method for running applications using a mobile device and a playback apparatus, the method comprising steps of:
   (a) executing a main application in the playback apparatus;
   (b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application when the auxiliary information is required during the execution of the main application;
   (c) executing an auxiliary application associated with the auxiliary information in the mobile device;
   (d) transmitting a response information obtained in the mobile device by executing the auxiliary application to the playback apparatus; and
   (e) running the main application based on the response information in the playback apparatus,

   wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information,

   wherein the main application is a map service application requiring the location information, and the auxiliary application is a GPS application,

   wherein the auxiliary information includes a request for the map service application, and the response information includes the location information, and

   wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus,
wherein the main application requires a value measured by a compass sensor that is equipped by the mobile device and not equipped by the playback apparatus, wherein the auxiliary information includes a request for the compass sensor-measured value, and wherein the response information includes the compass sensor-measured value.

2-10. (CANCELLED)

11. (ORIGINAL) The method in accordance with claim 1, wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification.

12. (CURRENTLY AMENDED) A method of running applications using a playback apparatus, comprising steps of:

(a) executing a main application by the playback apparatus;

(b) transmitting, by the playback apparatus, to a mobile device an auxiliary information required for running the main application when the auxiliary information is required during the execution of the main application;

(c) receiving, by the playback apparatus, from the mobile device a response information obtained by executing an auxiliary application associated with the auxiliary information; and

(d) running the main application based on the response information by the playback apparatus,

wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information,

wherein the main application is a map service application requiring the location information, and the auxiliary application is a GPS application,

wherein the auxiliary information includes a request for the map service application, and the response information includes the location information, and

wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus,
wherein the main application requires a value measured by a compass sensor that is equipped by the mobile device and not equipped by the playback apparatus, wherein the auxiliary information includes a request for the compass sensor-measured value, and wherein the response information includes the compass sensor-measured value.

13-21. (CANCELLED)
REMARKS

In accordance with the foregoing, claims 1 and 12 have been amended, claims 20 and 21 have been cancelled without prejudice or disclaimer, and claims 1, 11 and 12 are pending and under consideration. No new matter within the meaning of 35 U.S.C. § 132 is presented in this Amendment.

REJECTIONS UNDER 35 U.S.C. § 103:


Claims 1 and 12 have been amended to incorporate the features of claims 20 and 21, respectively, which are deemed allowable, and thus are allowable for at least this reason. Claim 11 depends from claim 1, and is thus allowable for at least its dependency of an allowable base claim.

Based on the foregoing, this rejection is respectfully requested to be withdrawn.

ALLOWABLE SUBJECT MATTER:

Applicant gratefully recognizes that claims 20 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 20 and 21 have been cancelled without prejudice or disclaimer, and the features thereof have been incorporated into claims 1 and 12, respectively. Accordingly, Applicant respectfully submits that claims 1 and 12, and any claims dependent therefrom, are in condition for allowance.

CONCLUSION:

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is
requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 503333.

Respectfully submitted,

STEIN IP, LLC

Date: April 25, 2016

By: Sungyeop Chung
Registration No. 64130

1400 Eye St., N.W.
Suite 300
Washington, D.C. 20005
Telephone: (202) 216-9505
Facsimile: (202) 216-9510
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**Title of Invention:** METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

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Warnings:

Information:

Total Files Size (in bytes): 559282

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.
REPLY/AMENDMENT 
FEE TRANSMITTAL

Attorney Docket No. 0366.1005
Application Number 12/819,272
Filing Date June 21, 2010
First Named Inventor Wonjang BAEK
Group Art Unit 2643

EXAMINER

AMOUNT ENCLOSED $0.00 Examiner Name Erica NAVAR

CLAIMS AS AMENDED

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Since an Official Action set an original due date of May 25, 2016, petition is hereby made for an extension to cover the date this reply is filed, for which the requisite fee is enclosed: (1 month ($200)); (2 months ($600)); (3 months ($1,400)); (4 months ($2,200)); (5 months ($3,000)).

Notice of Appeal is enclosed (37 CFR 41.20(b)(1): $800.00) $0.00
Information Disclosure Statement is enclosed and fee is required (37 CFR 1.17(p): $180.00) $0.00
Total of above calculations = $0.00
Reduction by 50% for filing by small entity (37 CFR 1.27) - $
Reduction by 75% for filing by micro entity (37 CFR 1.29) - $
Total of above calculations = $0.00
Statutory Disclaimer is enclosed (37 CFR 1.20(d): $160.00) $0.00
TOTAL FEES DUE = $0.00

☐ A previous micro entity status is no longer appropriate and is hereby cancelled under 37 CFR 1.29(i).

METHOD OF PAYMENT

☐ Check enclosed as payment. ☐ Credit Card Payment Form, Form PTO-2038 (attached).
☐ Charge “TOTAL FEES DUE” to the Deposit Account No. below.
☐ Payment authorized and made via EFS-Web.
☒ No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).

GENERAL AUTHORIZATION

☒ If the above-noted “AMOUNT ENCLOSED” is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:

Deposit Account No. 503333
Deposit Account Name STEIN IP, LLC

The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 U.S.C. § 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.

SUBMITTED BY: STEIN IP, LLC

Typed Name Sungyeop Chung Reg. No. 64130
Signature [Signature]
Date April 25, 2016
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APPLICATION SIZE FEE (37 CFR 1.16(s))

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

* If the difference in column 1 is less than zero, enter “0” in column 2.

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 number found in the appropriate box in column 1.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

docketing@steinip.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 7 January 2016.
   - ☐ 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) 11, 12, 20 and 21 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) 11 and 12 is/are rejected.

8) ☑ Claim(s) 20 and 21 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 21 June 2010 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) 3) ☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date ______. Paper No(s)/Mail Date ______.

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
   Paper No(s)/Mail Date ______. 4) ☐ Other: ______.

U.S. Patent and Trademark Office
PTOL-326 (Rev. 11-13) Office Action Summary Part of Paper No./Mail Date 20160203
DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Response to Amendment

2. The amendment filed on 07 January 2016 has been entered and fully considered.

3. Claims 1, 11, 12, 20, and 21 are pending, of which claims 20 and 21 are new.

4. No new matter has been added.

Response to Arguments

5. Applicant’s arguments with respect to the independent claims have been considered but are directed to the newly amended portions of the claims, which are addressed in the newly formed rejection below.

Allowable Subject Matter

6. Claims 20 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
Claim Rejections - 35 USC § 112

7. The Rejection of Claims 1, 12, 17 and 18 under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, is withdrawn.

Claim Rejections - 35 USC § 103

8. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

9. Claims 1, 11, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 2009/0150553 A1 to COLLART et al. (hereinafter, 'Collart') in view of US 2010/0201567 A1 to LYDON et al. (hereinafter ‘Lydon’).

Regarding Claims 1 and 12, Collart discloses a method for running applications using a mobile device and a playback apparatus (para 0005 -- control experience of media playback device using playback device; para 0072 -- primary media device; para 0074 -- secondary device can be mobile phone), the method comprising steps of:

(a) executing a main application in the playback apparatus (Fig. 6 -- content package on primary device, control scripts 628; para 0088 -- control script used to provide cooperation between primary and secondary device);

(b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application when the auxiliary information is required during the execution of the main application (para 0088 -- activates log-in and/or cooperation between primary and secondary devices);
(c) executing an auxiliary application associated with the auxiliary information in the mobile device \( \text{(para 0092 -- menus can be forwarded to secondary device); and} \)

(d) transmitting a response information obtained in the mobile device by executing the auxiliary application to the playback apparatus \( \text{(para 0097 -- cooperating primary and secondary devices, secondary device can be used to perform functions not available through primary device, subsequent content displayed back through primary device); and} \)

(e) running the main application based on the response information in the playback apparatus \( \text{(para 0151 -- secondary device used to provide functionality to primary device that is not available to primary device; para 0170 -- secondary device can be used as remote control to select scenes, causes actions on primary device; para 0179 -- secondary device can forward back control signals based on information received from primary device; para 0182 - - secondary device can issue commands to primary device concerning playback).} \)

Although Collart does not specifically disclose wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information, wherein the main application is a map service application requiring the location information, and the auxiliary application is a GPS application, wherein the auxiliary information includes a request for the map service application, and the response information includes the location information, and wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus, these limitations are considered obvious by the rationales found in Lydon.

In particular, Lydon discloses wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information \( \text{(para 0006 -- in one embodiment, personal media device obtains location information from accessory, which is equipped with location capabilities).} \)
wherein the main application is a map service application requiring the location information, and the auxiliary application is a GPS application, wherein the auxiliary information includes a request for the map service application, and the response information includes the location information, and wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus (Fig. 1A -- portable media device (PMD) can receive location information from accessory; Fig. 5 -- 504; para 0019 -- PMD displays based on location data, current location on a map, points of interest, or other location based services; para 0020 -- accessory device can be equipped with GPS or the like, can provide location data to PMD; para 0027 -- PMD can store maps, application programs, etc.; para 0040 -- PMD can obtain location information from accessory; para 0062 -- PMD can request location data from accessory device).

Therefore, at the time of the invention, it would have been obvious for one of ordinary skill in the art to modify the method for running applications using a mobile device and a playback apparatus of Collart to include obtaining location information as disclosed by Lydon, in order to allowing playback devices to obtain information even if they do not include location determination components (Lydon, para 0018). Such limitations allow users to utilize location based services that would otherwise be unavailable to them (Lydon, para 0028).

Regarding Claim 11, Collart and Lydon disclose the method in accordance with claim 1. Collart further discloses wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification (para 0065).

Regarding Claim 12, Collart discloses a method for running applications using a mobile device and a playback apparatus (para 0005 -- control experience of media playback device
using playback device; para 0072 -- primary media device; para 0074 -- secondary device can be mobile phone), the method comprising steps of:

(a) executing a main application in the playback apparatus (Fig. 6 -- content package on primary device, control scripts 628; para 0088 -- control script used to provide cooperation between primary and secondary device);

(b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application when the auxiliary information is required during the execution of the main application (para 0088 -- activates log-in and/or cooperation between primary and secondary devices);

(c) receiving, by the playback apparatus, from the mobile device a response information obtained by executing an auxiliary application associated with the auxiliary information (para 0092 -- menus can be forwarded to secondary device; para 0097 -- cooperating primary and secondary devices, secondary device can be used to perform functions not available through primary device, subsequent content displayed back through primary device); and

(d) running the main application based on the response information by the playback apparatus (para 0151 -- secondary device used to provide functionality to primary device that is not available to primary device; para 0170 -- secondary device can be used as remote control to select scenes, causes actions on primary device; para 0179 -- secondary device can forward back control signals based on information received from primary device; para 0182 -- secondary device can issue commands to primary device concerning playback).

Although Collart does not specifically disclose wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information, wherein the main application is a map service application requiring the location information, and the
auxiliary application is a GPS application, wherein the auxiliary information includes a request for the map service application, and the response information includes the location information, and wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus, these limitations are considered obvious by the rationales found in Lydon.

In particular, Lydon discloses wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information (para 0006 -- in one embodiment, personal media device obtains location information from accessory, which is equipped with location capabilities), wherein the main application is a map service application requiring the location information, and the auxiliary application is a GPS application, wherein the auxiliary information includes a request for the map service application, and the response information includes the location information, and wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus (Fig. 1A -- portable media device (PMD) can receive location information from accessory; Fig. 5 -- 504; para 0019 -- PMD displays based on location data, current location on a map, points of interest, or other location based services; para 0020 -- accessory device can be equipped with GPS or the like, can provide location data to PMD; para 0027 -- PMD can store maps, application programs, etc.; para 0040 -- PMD can obtain location information from accessory; para 0062 -- PMD can request location data from accessory device).

Therefore, at the time of the invention, it would have been obvious for one of ordinary skill in the art to modify the method for running applications using a mobile device and a playback apparatus of Collart to include obtaining location information as disclosed by Lydon, in order to allowing playback devices to obtain information even if they do not include location determination
components (Lydon, para 0018). Such limitations allow users to utilize location based services that would otherwise be unavailable to them (Lydon, para 0028).

**Conclusion**

1. **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.

   Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERICA NAVAR whose telephone number is (571)270-5888. The examiner can normally be reached on Monday-Friday 9-5.

   If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Vladimir Magloire can be reached on (571) 270-5144. 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.

ERICA NAVAR
Examiner
Art Unit 2641

/ERICA NAVAR/
Examiner, Art Unit 2641

/VLADIMIR MAGLOIRE/
Supervisory Patent Examiner, Art Unit 2641
## Index of Claims

### Application/Control No.
12819272

### Applicant(s)/Patent Under Reexamination
BAEK, WONJANG

### Examiner
ERICA NAVAR

### Art Unit
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☐ T.D.
☐ R.1.47

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Wonjang BAEK
Application No. 12/819,272
Filed: June 21, 2010

For: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

AMENDMENT UNDER 37 CFR 1.111

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

Sir:

This is in response to the Office Action mailed October 8, 2015, and having a period for response set to expire on January 8, 2016.

Reconsideration of the claims is respectfully requested. The following remarks are respectfully submitted.
AMENDMENTS TO THE CLAIMS

The text of all pending claims (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims show added text with underlining and deleted text with strikethrough. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 2, 6, 7, 9 and 16 without prejudice or disclaimer, AMEND claims 1 and 12, and ADD new claims 20 and 21 in accordance with the following:

1. (CURRENTLY AMENDED) A method for running applications using a mobile device and a playback apparatus, the method comprising steps of:
   (a) executing a main application in the playback apparatus;
   (b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed when the auxiliary information is required during the execution of the main application;
   (c) executing an auxiliary application associated with the auxiliary information in the mobile device;
   (d) transmitting a response information obtained in the mobile device by executing the auxiliary application to the playback apparatus; and
   (e) running the main application based on the response information in the playback apparatus,

   wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information,

   wherein the main application is a map service application requiring the location information, and the auxiliary application is a GPS application,

   wherein the auxiliary information includes a request for the map service application, and the response information includes the location information, and

   wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus.
2-10. (CANCELLED)

11. (ORIGINAL) The method in accordance with claim 1, wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification.

12. (CURRENTLY AMENDED) A method of running applications using a playback apparatus, comprising steps of:

   (a) executing a main application by the playback apparatus;

   (b) transmitting, by the playback apparatus, to a mobile device an auxiliary information required for running the main application while the main application is being executed when the auxiliary information is required during the execution of the main application;

   (c) receiving, by the playback apparatus, from the mobile device a response information obtained by executing an auxiliary application associated with the auxiliary information; and

   (d) running the main application based on the response information by the playback apparatus,

wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information,

wherein the main application is a map service application requiring the location information, and the auxiliary application is a GPS application,

wherein the auxiliary information includes a request for the map service application, and the response information includes the location information, and

wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus.

13-19. (CANCELLED)

20. (NEW) The method in accordance with claim 1, wherein the main application requires a value measured by a compass sensor that is equipped by the mobile device and not
equipped by the playback apparatus, wherein the auxiliary information includes a request for the compass sensor-measured value, and wherein the response information includes the compass sensor-measured value.

21. (NEW) The method in accordance with claim 12, wherein the main application requires a value measured by a compass sensor that is equipped by the mobile device and not equipped by the playback apparatus, wherein the auxiliary information includes a request for the compass sensor-measured value, and wherein the response information includes the compass sensor-measured value.
REMARKS

In accordance with the foregoing, claims 1 and 12 have been amended, claims 2, 6, 7, 9 and 16 have been cancelled without prejudice or disclaimer, and new claims 20 and 21 have been added. Upon entry of this amendment, claims 1, 11, 12, 20 and 21 are pending and under consideration. No new matter within the meaning of 35 U.S.C. § 132 is presented in this Amendment.

REJECTIONS UNDER 35 U.S.C. § 112:

Claims 2, 6, 7, 9 and 16 are rejected under 35 U.S.C. § 112, first paragraph, as allegedly failing to comply with the written description requirement.

Without prejudice or disclaimer, claims 2, 6, 7 and 16 have been cancelled, thereby rendering the rejection thereof moot.

REJECTIONS UNDER 35 U.S.C. § 103:

Claims 1, 2, 6, 7, 9, 11, 12 and 16 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Pub. No. 2009/0150553 to Collart et al. ("Collart") in view of U.S. Pub. No. 2010/0201567 to Lyndon et al. ("Lyndon"). This rejection is respectfully traversed.

Claim 1, as amended, recites inter alia:

A method for running applications using a mobile device and a playback apparatus, the method comprising steps of:

... (b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application when the auxiliary information is required during the execution of the main application ...

... wherein the auxiliary information includes a request for the map service application, and the response information includes the location information (Emphasis added)

Support for the amended claim features above may be found at least in paragraph [0060] of the written descriptions. According to the claimed subject matter, the playback apparatus transmits an auxiliary information to the mobile device when the auxiliary information
is required during the execution of the main application. Due to these features, the playback apparatus can request the mobile device’s location information only when it is required, whereby the efficiencies of data transmission is significantly improved. Neither Collart nor Lyndon teaches such features as recited in claim 1. Hence, assuming arguendo the teachings of Collart and Lyndon can be combined and a reasonable expectation of success exists, the combined references still do not teach at least “transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application when the auxiliary information is required during the execution of the main application,” as recited in claim 1. See in re Vaeck, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991). Accordingly, Applicants respectfully submit that claim 1 as amended is allowable over Collart and Lyndon, whether taken alone or in combination.

Claim 12 recites features similar to those of claim 1 as discussed above, and is therefore allowable for at least this reason. Claim 11 depends upon claim 1, and is thus allowable for at least its dependency of an allowable base claim.

Claims 2, 6, 7 and 16 have been cancelled without prejudice or disclaimer, thereby rendering the rejection thereof moot.

New claims 20 and 21 are substantially the same as cancelled claims 17 and 18, respectively, with the exception of replacement of the term “a sensor” with -- a compass sensor --. Although the term “compass sensor” does not appear explicitly in the written descriptions, Applicants respectfully note that the sensor may be understood by one of ordinary skill in the art as a compass sensor based on the written descriptions. In the previous Office Action mailed May 15, 2015, the Examiner asserted that Alve (U.S. Pub. No. 2008/0022003) teaches such features of claims 17 and 18, particularly citing Figs. 5, 8 and 9 of the reference. However, the sensor as disclosed in Alve must be considered as an acceleration sensor, which clearly differs from a compass sensor as claimed. Thus, it is respectfully submitted that no prior art of record teaches claims 20 and 21.

Based on the foregoing, the rejection of claims 1, 11 and 12 under 35 U.S.C. § 103(a) is respectfully requested to be withdrawn.

CONCLUSION:

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.
Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 503333.

Respectfully submitted,

STEIN IP, LLC

Date: January 7, 2016

By: [Signature]

1400 Eye St., N.W.
Suite 300
Washington, D.C. 20005
Telephone: (202) 216-9505
Facsimile: (202) 216-9510
### Electronic Acknowledgement Receipt

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<td><strong>First Named Inventor/Applicant Name:</strong></td>
<td>Wonjang BAEK</td>
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## Multipart Description/PDF files in .zip description

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

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

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

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

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/OE/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.
**REPLY/AMENDMENT FEE TRANSMITTAL**

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**FEE CALCULATION (fees effective 3/19/2013)**

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Since an Official Action set an original due date of ___, petition is hereby made for an extension to cover the date this reply is filed, for which the requisite fee is enclosed: (1 month ($200)); (2 months ($600)); (3 months ($1,400)); (4 months ($2,200)); (5 months ($3,000)).

Notice of Appeal is enclosed (37 CFR 41.20(b)(1): $800.00)

Information Disclosure Statement is enclosed and fee is required (37 CFR 1.17(p): $180.00)

Total of above calculations = $ 0.00

Reduction by 50% for filing by small entity (37 CFR 1.27) - $

Reduction by 75% for filing by micro entity (37 CFR 1.29) - $

Total of above calculations = $ 0.00

Statutory Disclaimer is enclosed (37 CFR 1.20(d): $160.00)

TOTAL FEES DUE = $ 0.00

☐ A previous micro entity status is no longer appropriate and is hereby cancelled under 37 CFR 1.29(i).

**METHOD OF PAYMENT**

☐ Check enclosed as payment. ☐ Credit Card Payment Form, Form PTO-2038 (attached).

☐ Charge "TOTAL FEES DUE" to the Deposit Account No. below.

☐ Payment authorized and made via EFS-Web.

☒ No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).

**GENERAL AUTHORIZATION**

☒ If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:

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<tr>
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<td>STEIN IP, LLC</td>
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The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 U.S.C. § 120 (e.g., continuations/divisions/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.

**SUBMITTED BY: STEIN IP, LLC**

<table>
<thead>
<tr>
<th>Typed Name</th>
<th>Sungyeop Chung</th>
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Signature

Date January 7, 2016
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**APPLICATION AS AMENDED – PART IV**

| First Presentation of Multiple Dependent Claim (37 CFR 1.16(g)) | 0 |

**TOTAL ADD'L FEE**

**SIGNATURE**

/DORIS BURNS/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

docketing@steinip.com
Office Action Summary

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

Period for Reply

A SHORTESTNATED 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 14 July 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) 1,2,6,7,8,11,12 and 16 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) 1,2,6,7,8,11,12 and 16 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 21 June 2010 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 ______.
3) ☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date: ______.
4) ☐ Other: ______.
DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 14 July 2015 has been entered.

Response to Amendment

3. The amendment filed on 14 July 2015 has been entered and fully considered.

4. Claims 1, 2, 6, 7, 9, 11, 12, and 16 are pending.

Response to Arguments

5. Applicant’s arguments with respect to the independent claims have been considered but are directed to the newly amended portions of the claims, which are addressed in the newly formed rejection below.
Claim Rejections - 35 USC § 112

6. The Rejection of Claims 1, 12, 17 and 18 under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, is withdrawn.

7. The following is a quotation of the first paragraph of 35 U.S.C. 112(a):

(a) IN GENERAL.—The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor or joint inventor of carrying out the invention.

The following is a quotation of the first paragraph of pre-AIA 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

8. Claims 2, 6, 7, 9, and 16 are rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor or a joint inventor, or for pre-AIA the inventor(s), at the time the application was filed, had possession of the claimed invention.

9. Claim 2, which depends from claim 1, includes the limitations, “wherein the auxiliary information includes a URL”… and “a web browser to connect to the URL.” However, the specification as originally filed does not appear to provide support the combination of claims 1 and 2. Claim 1 is directed to the Second Embodiment (paragraphs 0056-0064), where the GPS functionality for the playback device is obtained from an external device, and that information is transmitted as auxiliary information. In reviewing the specification, US PG PUB 2010/0323760 A1,
paragraphs 0048-0055 discloses the web browser application under First Embodiment. It appears that the specification does not include support for the combination of these embodiments (i.e. auxiliary information including GPS as disclosed in claim 1 in combination with the auxiliary information including a URL as disclosed in claim 2).

10. **Claim 6**, which depends from claim 1, includes the limitations, “wherein the step (c) comprises executing the auxiliary information including a keyboard application…” However, the specification as originally filed does not appear to provide support the combination of claims 1 and 6. Claim 1 is directed to the Second Embodiment (paragraphs 0056-0064), where the GPS functionality for the playback device is obtained from an external device, and that information is transmitted as auxiliary information. In reviewing the specification, US PG PUB 2010/0323760 A1, paragraphs 0065-0072 discloses the keyboard application under Third Embodiment. It appears that the specification does not include support for the combination of these embodiments (i.e. auxiliary information including GPS as disclosed in claim 1 in combination with the auxiliary information including a keyboard application as recited in claim 2).

11. **Claim 7** is rejected for the same reasons as claim 6, because it depends on claim 6 and is also directed to the keyboard application.

12. **Claim 16**, which depends from claim 1, includes the limitations, “wherein the step (c) comprises executing the auxiliary information including an image generation application.” However, the specification as originally filed does not appear to provide support the combination of claims 1 and 16. Claim 1 is directed to the Second Embodiment (paragraphs 0056-0064), where the GPS functionality for the playback device is obtained from an external device, and that information is transmitted as auxiliary information. In reviewing the specification, US PG PUB 2010/0323760 A1, paragraphs 0073-0080 discloses the image generation application under Fourth Embodiment. It
appears that the specification does not include support for the combination of these embodiments (i.e. auxiliary information including GPS as disclosed in claim 1 in combination with the auxiliary information including an image generation application as recited in claim 2).

13. **Claim 9** is rejected for the same reasons as claim 16, because it depends on claim 16 and is also directed to the image generation application.

**Claim Rejections - 35 USC § 103**

14. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

15. **Claims 1, 2, 6, 7, 9, 11, 12, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over** US 2009/0150553 A1 to COLLART et al. (hereinafter, ‘Collart’) in view of US 2010/0201567 A1 to LYDON et al. (hereinafter ‘Lydon’).

**Regarding Claims 1 and 12,** *Collart* discloses a method for running applications using a mobile device and a playback apparatus (**para 0005 -- control experience of media playback device using playback device; para 0072 -- primary media device; para 0074 -- secondary device can be mobile phone**), the method comprising steps of:

(a) executing a main application in the playback apparatus (**Fig. 6 -- content package on primary device, control scripts 628; para 0088 -- control script used to provide cooperation between primary and secondary device**);

(b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed (**para 0088 -- activates log-in and/or cooperation between primary and secondary devices**);
(c) executing an auxiliary application associated with the auxiliary information in the mobile device (para 0092 -- menus can be forwarded to secondary device); and

(d) transmitting a response information obtained in the mobile device by executing the auxiliary application to the playback apparatus (para 0097 -- cooperating primary and secondary devices, secondary device can be used to perform functions not available through primary device, subsequent content displayed back through primary device); and

(e) running the main application based on the response information in the playback apparatus (para 0151 -- secondary device used to provide functionality to primary device that is not available to primary device; para 0170 -- secondary device can be used as remote control to select scenes, causes actions on primary device; para 0179 -- secondary device can forward back control signals based on information received from primary device; para 0182 - secondary device can issue commands to primary device concerning playback).

Although Collart does not specifically disclose wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information, wherein the main application is a map service application requiring the location information, and the auxiliary application is a GPS application, wherein the auxiliary information includes a request for the map service application, and the response information includes the location information, and wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus, these limitations are considered obvious by the rationales found in Lydon.

In particular, Lydon discloses wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information (para 0006 -- in one embodiment, personal media device obtains location information from accessory, which is equipped with location capabilities),
wherein the main application is a map service application requiring the location information, and the auxiliary application is a GPS application, wherein the auxiliary information includes a request for the map service application, and the response information includes the location information, and wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus (Fig. 1A -- portable media device (PMD) can receive location information from accessory; Fig. 5 -- 504; para 0019 -- PMD displays based on location data, current location on a map, points of interest, or other location based services; para 0020 -- accessory device can be equipped with GPS or the like, can provide location data to PMD; para 0027 -- PMD can store maps, application programs, etc.; para 0040 -- PMD can obtain location information from accessory; para 0062 -- PMD can request location data from accessory).

Therefore, at the time of the invention, it would have been obvious for one of ordinary skill in the art to modify the method for running applications using a mobile device and a playback apparatus of Collart to include obtaining location information as disclosed by Lydon, in order to allowing playback devices to obtain information even if they do not include location determination components (Lydon, para 0018). Such limitations allow users to utilize location based services that would otherwise be unavailable to them (Lydon, para 0028).

Regarding Claim 2, Collart and Lydon disclose the method in accordance with claim 1. Collart further discloses wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL (para 0176 -- URL can be pushed to mobile device; para 0179 -- URL can be used to access internet site).
Regarding Claim 6, Collart and Lydon disclose the method in accordance with claim 1. Collart further discloses wherein the auxiliary information includes a request for a user input, and wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input (para 0060 -- user input and modality capabilities through second device to primary device; para 0151).

Regarding Claim 7, Collart and Lydon disclose the method in accordance with claim 6. Collart further discloses wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus (para 0060 -- user input and modality capabilities through second device to primary device).

Regarding Claim 9, Collart and Lydon disclose the method in accordance with claim 16. Collart further discloses wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus (para 0120 -- content can be related to images; para 0182 - images can be incorporated into primary device).

Regarding Claim 11, Collart and Lydon disclose the method in accordance with claim 1. Collart further discloses wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification (para 0065).

Regarding Claim 16, Collart and Lydon disclose the method in accordance with claim 1. Collart further discloses wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information (para 0060 -- user input and modality capabilities through second device to primary device; para 0092 -- provides menus and user interfaces to users on secondary device and primary device; para 0104 -- camera.
video camera, web camera, which is captured by the second device; para 0120 -- content can be related to images).

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERICA NAVAR whose telephone number is (571)270-5888. The examiner can normally be reached on Monday-Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Vladimir Magloire can be reached on (571) 270-5144. 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.

ERICA NAVAR
Examiner
Art Unit 2641

/ERICA NAVAR/
Examiner, Art Unit 2641
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**Applicant(s)/Patent Under Reexamination** BAEK, WONJANG

**Examiner** ERICA NAVAR  
**Art Unit** 2641

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/ERICA NAVAR/  
Examiner Art Unit 2641

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U.S. Patent and Trademark Office  
Part of Paper No.: 20150929
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REQUEST FOR CONTINUED EXAMINATION (RCE) TRANSMITTAL

(INCLUDING FILING FEE AND/OR PETITION FOR EXTENSION OF TIME FEE)

Subsection (b) of 35 U.S.C. § 132, effective May 29, 2000 provides for continued examination of a utility or plant application filed on or after June 8, 1995.
See The American Inventors Protection Act of 1999 (AIPA)

<table>
<thead>
<tr>
<th>To:</th>
<th>Commissioner for Patents Box RCE P.O. Box 1450 Alexandria, VA 22313-1450</th>
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<tr>
<td>Attorney Docket No.:</td>
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<td>First Named Inventor:</td>
<td>Wonjang BAEK</td>
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Title of Invention: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

This is a Request for Continued Examination (RCE), under 37 CFR 1.114, of the above-identified application.

1. Submission required under 37 CFR 1.114 (Box a or b must be completed)
   a. ☒ Previously submitted
      i. ☒ Consider the amendment(s)/reply under 37 CFR 1.116 previously filed on July 14, 2015.
         (Any un-entered amendment(s) referred to above will be entered).
      ii. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on ________.
      iii. ☐ Other: ________
   b. ☐ Enclosed (box i must be checked)
      i. ☐ Amendment/Reply (required)
      ii. ☐ Affidavit(s)/Declaration(s)
      iii. ☐ Information Disclosure Statement (IDS)
      iv. ☐ Other: ________

2. Miscellaneous
   a. ☐ This is the first RCE filed for the above-identified application.
   b. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of ________ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required).
   c. ☐ Other: ________
**FEE CALCULATION (fees effective 3/19/2013)**

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Suspension Fee of $140.00 (37 CFR 1.17(i)) $0.00

Total of above Calculations = $1,700.00

Reduction by 50% for filing by small entity (37 CFR 1.27) - $

Reduction by 75% for filing by micro entity (37 CFR 1.29) - $

TOTAL FEES DUE = $1,700.00

☐ A previous micro entity status is no longer appropriate and is hereby cancelled under 37 CFR 1.29(i).

**METHOD OF PAYMENT**

☐ Check enclosed as payment.  ☐ Credit Card Payment Form, Form PTO-2038 (attached).

☐ Charge "TOTAL FEES DUE" to the Deposit Account No. below.

☒ Payment authorized and made via EFS-Web.

**GENERAL AUTHORIZATION**

☒ The Commissioner is hereby authorized to credit any overpayment or charge any additional fees under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application and of any related application(s) claiming benefit hereof pursuant to 35 U.S.C. § 120 to maintain pendency hereof and of any such related application to:

Deposit Account No. 503333

**CORRESPONDENCE ADDRESS**

STEIN IP, LLC

49,455

PATENT TRADEMARK OFFICE

**SIGNATURE OF ATTORNEY OR AGENT REQUIRED**

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<td>Sungyeop Chung</td>
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Signature /schung/ Date August 17, 2015
# Electronic Patent Application Fee Transmittal

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**Title of Invention:**  
METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

**First Named Inventor/Applicant Name:**  
Wonjang BAEK

**Filer:**  
Michael D. Stein

**Attorney Docket Number:**  
0366.1005

Filed as Large Entity

## Filing Fees for Utility under 35 USC 111(a)

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- Submitted with Payment: yes
- Payment Type: Credit Card
- Payment was successfully received in RAM: $1700
- RAM confirmation Number: 3731
- Deposit Account: 
- Authorized User: 

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:
**File Listing:**

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**Warnings:**

This is not a USPTO supplied RCE SB30 form.

**Information:**

| 2               | Fee Worksheet (SB06)               | fee-info.pdf         | 30793                           | no              | 2                |

**Warnings:**

**Information:**

**Total Files Size (in bytes):** 267401

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.
### PATENT APPLICATION FEE DETERMINATION RECORD
Substitute for Form PTO-875

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**TOTAL CLAIMS (37 CFR 1.16(a))**

- minus 20 = *

**INDEPENDENT CLAIMS (37 CFR 1.16(a))**

- minus 3 = *

**APPLICATION SIZE FEE (37 CFR 1.16(a))**

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.

**APPLICATION AS AMENDED – PART II**

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**APPLICATION SIZE FEE (37 CFR 1.16(a))**

**FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))**

**TOTAL ADD'L FEE**

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**AMENDMENT**

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**APPLICATION SIZE FEE (37 CFR 1.16(a))**

**FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))**

**TOTAL ADD'L FEE**

LIE

/TAMMY ACREE/

---

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

docketing@steinip.com
**Examiner-Initiated Interview Summary**

<table>
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<td>12/819,272</td>
<td>BAEK, WONJANG</td>
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<tr>
<td>Examiner</td>
<td>ERICA NAVAR</td>
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<tr>
<td>Art Unit</td>
<td>2641</td>
</tr>
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</table>

All participants (applicant, applicant’s representative, PTO personnel):

1. **ERICA NAVAR.**
2. **Sungyeop Chen, Registration No. 64130.**

Date of Interview: **24 July 2015**.

Type:  [ ] Telephonic  [ ] Video Conference  [ ] Personal [copy given to: [ ] applicant  [ ] applicant’s representative]

Exhibit shown or demonstration conducted:  [ ] Yes  [ ] No.

If Yes, brief description: ______

Issues Discussed: [ ] 101  [ ] 112  [ ] 102  [X] 103  [ ] Others

(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: I.

Identification of prior art discussed: ______

Substance of Interview:

(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

**Discussed newly amended portions of the claims. The examiner explained that additional searching was conducted but a determination could not be made within the time allotted under AFCP.**

---

**Applicant recodarion instructions:** It is not necessary for applicant to provide a separate record of the substance of interview.

**Examiner recodarion instructions:** Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

[ ] Attachment

/ERICA NAVAR/
Examiner, Art Unit 2641
### Advisory Action Before the Filing of an Appeal Brief

**Application No.**
12/819,272

**Applicant(s)**
BAEK, WONJANG

**Examiner**
ERICA NAVAR

**Art Unit**
2641

**AIA (First Inventor to File) Status**
No

---

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

**THE REPLY FILED 14 July 2015 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.**

**NO NOTICE OF APPEAL FILED**

1. **X** The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:
   - a) **☐** The period for reply expires ***______*** months from the mailing date of the final rejection.
   - b) **☐** The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later.
   - c) **☐** A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires ***______*** months from the mailing date of the prior Advisory Action or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.

   **Examiner Note:** If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANT'S FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(t).

   Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**NOTICE OF APPEAL**

2. **☐** The Notice of Appeal was filed on ***______***. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

**AMENDMENTS**

3. **X** The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   - a) **X** They raise new issues that would require further consideration and/or search (see NOTE below);
   - b) **☐** They raise the issue of new matter (see NOTE below);
   - c) **☐** They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   - d) **☐** They present additional claims without canceling a corresponding number of finally rejected claims.

   **NOTE:** __________. (See 37 CFR 1.116 and 41.33(a)).

4. **☐** The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. **☐** Applicant's reply has overcome the following rejection(s): __________.

6. **☐** Newly proposed or amended claim(s) __________ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. **X** For purposes of appeal, the proposed amendment(s): (a) **X** will not be entered, or (b) **☐** will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

**AFFIDAVIT OR OTHER EVIDENCE**

8. **☐** A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was/were filed on __________.

9. **☐** The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

10. **☐** The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

11. **☐** The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

**REQUEST FOR RECONSIDERATION/OTHER**

12. **☐** The request for reconsideration has been considered but does NOT place the application in condition for allowance because:

13. **☐** Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). __________.

14. **X** Other: PTO-2323, Interview Summary 413B.

**STATUS OF CLAIMS**

15. The status of the claim(s) is (or will be) as follows:
   - Claim(s) allowed: __________
   - Claim(s) objected to: __________
   - Claim(s) rejected: 1, 2, 6, 7, 9, 11, 12 and 16-19.
   - Claim(s) withdrawn from consideration: __________

/VLADIMIR MAGLOIRE/
Supervisory Patent Examiner, Art Unit 2641

/ERICA NAVAR/
Examiner, Art Unit 2641
Continuation of 3a: the claims have been modified to include "wherein the main application is a map service application requiring the location information, and the auxiliary application is a GPS application, and wherein the auxiliary information includes a request for the map service application" thereby changing the scope of the claims and requiring further consideration and/or search.
All participants (applicant, applicant’s representative, PTO personnel):

(1) **ERICA NAVAR.**

(2) **Sungyeop Chen, Registration No. 64130**

Date of Interview: **24 July 2015.**

Type: ☑ Telephonic ☐ Video Conference

☐ Personal [copy given to: ☐ applicant ☑ applicant’s representative]

Exhibit shown or demonstration conducted: ☐ Yes ☑ No.

If Yes, brief description: ______.

Issues Discussed ☐ 101 ☐ 112 ☐ 102 ☑ 103 ☐ Others

(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1.

Identification of prior art discussed: ______.

Substance of Interview

(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

**Discussed newly amended portions of the claims. The examiner explained that additional searching was conducted but a determination could not be made within the time allotted under AFCP.**

**Applicant recrodation instructions:** It is not necessary for applicant to provide a separate record of the substance of interview.

**Examiner recrodation instructions:** Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/ERICA NAVAR/
Examiner, Art Unit 2641
This is in response to the After Final Consideration Pilot request filed 14 July 2015.

1. **Improper Request** – The AFCP 2.0 request is improper for the following reason(s) and the after final amendment submitted with the request will be treated under pre-pilot procedure.
   - [ ] An AFCP 2.0 request form PTO/SB/434 (or equivalent document) was not submitted.
   - [ ] A non-broadening amendment to at least one independent claim was not submitted.
   - [ ] A proper AFCP 2.0 request was submitted in response to the most recent final rejection.
   - [ ] Other:

2. **Proper Request**

   **A.** After final amendment submitted with the request will not be treated under AFCP 2.0.
   The after final amendment cannot be reviewed and a search conducted within the guidelines of the pilot program.
   - [ ] The after final amendment will be treated under pre-pilot procedure.

   **B.** Updated search and/or completed additional consideration.
   The examiner performed an updated search and/or completed additional consideration of the after final amendment within the time authorized for the pilot program. The result(s) of the updated search and/or completed additional consideration are:
   - [ ] 1. All of the rejections in the most recent final Office action are overcome and a Notice of Allowance is issued herewith.
   - [ ] 2. The after final amendment would not overcome all of the rejections in the most recent final Office action. See attached interview summary for further details.
   - [ ] 3. The after final amendment was reviewed, and it raises a new issue(s). See attached interview summary for further details.
   - [ ] 4. The after final amendment raises new issues, but would overcome all of the rejections in the most recent final Office action. A decision on determining allowability could not be made within the guidelines of the pilot. See attached interview summary for further details, including any newly discovered prior art.
   - [ ] 5. Other: Searched limitations in after final amendment, but could not make a determination of allowability for the new features under time allotted for AFCP program.

   Examiner Note: Please attach an interview summary when necessary as described above.
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Wonjang BAEK Confirmation No. 9757

Application No. 12/819,272 Group Art Unit: 2643

Filed: June 21, 2010 Examiner: Erica NAVAR

For: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

RESPONSE AND REQUEST FOR RECONSIDERATION UNDER 37 CFR 1.116

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

Sir:

This is in response to the Final Office Action mailed May 15, 2015, and having a Shortened Statutory Period for response set to expire on August 15, 2015.

The two-month date from the mailing date of the Final Office Action is July 15, 2015. This response is being filed on July 14, 2015, and thus is being filed within two months of the mailing date of the Final Office Action for the purposes of MPEP 714.13(I).

This response amends at least one independent claim without broadening its scope in any way, namely, claims 1 and 12. Participation into the After Final Consideration Pilot 2.0 is therefore requested. A PTO/SB/434 form is attached.

Reconsideration of the claims is respectfully requested. The following remarks are respectfully submitted.
CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE
AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0

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First Named Inventor: Wonjang BAEK

Title: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING IS-2 SPECIFICATION

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116.

1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (e.g., a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c).

2. The above-identified application contains an outstanding final rejection.

3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect.

4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection.

5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response.

6. This certification and request is being filed electronically using the Office’s electronic filing system (EFS-Web).

7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, e.g., extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.]

8. By filing this certification and request, applicant acknowledges the following:
   - Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0.
   - The examiner will verify that the AFCP 2.0 submission is compliant, i.e., that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions:
     - The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment, and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, e.g., by mailing an advisory action.
     - If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview.
       - The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate.
       - If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.

Signature
/schung/

Name
Sungyeop Chung

Date
July 14, 2015

Practitioner Registration No.
64,130

Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below.

* Total of ________ forms are submitted.
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 2905. 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.
REPLY/AMENDMENT FEE TRANSMITTAL

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Since an Official Action set an original due date of ..., petition is hereby made for an extension to cover the date this reply is filed, for which the requisite fee is enclosed: (1 month ($200)); (2 months ($600)); (3 months ($1,400)); (4 months ($2,200)); (5 months ($3,000)).

Notice of Appeal is enclosed (37 CFR 41.20(b)(1): $800.00)

Information Disclosure Statement is enclosed and fee is required (37 CFR 1.17(p): $180.00)

Total of above calculations = $ 0.00

Reduction by 50% for filing by small entity (37 CFR 1.27) - $

Reduction by 75% for filing by micro entity (37 CFR 1.29) - $

Total of above calculations = $ 0.00

Statutory Disclaimer is enclosed (37 CFR 1.20(d): $160.00)

TOTAL FEES DUE = $ 0.00

☐ A previous micro entity status is no longer appropriate and is hereby cancelled under 37 CFR 1.29(i).

METHOD OF PAYMENT

☐ Check enclosed as payment. ☐ Credit Card Payment Form, Form PTO-2038 (attached).

☐ Charge "TOTAL FEES DUE" to the Deposit Account No. below.

☐ Payment authorized and made via EFS-Web.

☒ No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).

GENERAL AUTHORIZATION

☒ If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:

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The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 U.S.C. § 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.

SUBMITTED BY: STEIN IP, LLC

Typed Name: Sungyeop Chung Reg. No. 64130

Signature: [Signature]

Date: July 14, 2015
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:
Wonjang BAEK

Application No. 12/819,272

Filed: June 21, 2010

Confirmation No. 9757
Group Art Unit: 2643
Examiner: Erica NAVAR

For: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

RESPONSE AND REQUEST FOR RECONSIDERATION UNDER 37 CFR 1.116

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

Sir:

This is in response to the Final Office Action mailed May 15, 2015, and having a Shortened Statutory Period for response set to expire on August 15, 2015.

The two-month date from the mailing date of the Final Office Action is July 15, 2015. This response is being filed on July 14, 2015, and thus is being filed within two months of the mailing date of the Final Office Action for the purposes of MPEP 714.13(l).

This response amends at least one independent claim without broadening its scope in any way, namely, claims 1 and 12. Participation into the After Final Consideration Pilot 2.0 is therefore requested. A PTO/SB/434 form is attached.

Reconsideration of the claims is respectfully requested. The following remarks are respectfully submitted.
AMENDMENTS TO THE CLAIMS

The text of all pending claims (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims show added text with underlining and deleted text with strikethrough. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 17-19 without prejudice or disclaimer, and AMEND claims 1 and 12, in accordance with the following:

1. (CURRENTLY AMENDED) A method for running applications using a mobile device and a playback apparatus, the method comprising steps of:
   
   (a) executing a main application in the playback apparatus;
   
   (b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed;
   
   (c) executing an auxiliary application associated with the auxiliary information in the mobile device;
   
   (d) transmitting a response information obtained in the mobile device by executing the auxiliary application to the playback apparatus; and
   
   (e) running the main application based on the response information in the playback apparatus,

   wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information,

   wherein the auxiliary information includes a request for the location information;

   wherein the step (c) comprises executing the auxiliary application including a GPS application to acquire the location information, and

   wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus.
wherein the main application is a map service application requiring the location information, and the auxiliary application is a GPS application.

wherein the auxiliary information includes a request for the map service application, and the response information includes the location information, and

wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus.

2. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL.

3-5. (CANCELLED)

6. (PREVIOUSLY PRESENTED) The method in accordance with claim 1, wherein the auxiliary information includes a request for a user input, and

wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input.

7. (ORIGINAL) The method in accordance with claim 6, wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus.

8. (CANCELLED)

9. (PREVIOUSLY PRESENTED) The method in accordance with claim 16, wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus.
10. (CANCELLED)

11. (ORIGINAL) The method in accordance with claim 1, wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification.

12. (CURRENTLY AMENDED) A method of running applications using a playback apparatus, comprising steps of:

(a) executing a main application by the playback apparatus;

(b) transmitting, by the playback apparatus, to a mobile device an auxiliary information required for running the main application while the main application is being executed;

(c) receiving, by the playback apparatus, from the mobile device a response information obtained by executing an auxiliary application associated with the auxiliary information; and

(d) running the main application based on the response information by the playback apparatus,

wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information,

wherein the auxiliary information includes a request for the location information, and

wherein the response information includes the location information acquired by executing the auxiliary application including a GPS application in the mobile device

wherein the main application is a map service application requiring the location information, and the auxiliary application is a GPS application,

wherein the auxiliary information includes a request for the map service application, and the response information includes the location information, and

wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus.

13-15. (CANCELLED)
16. (PREVIOUSLY PRESENTED) The method in accordance with claim 1, wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information.

17-19. (CANCELLED)
REMARKS

In accordance with the foregoing, claims 1 and 12 have been amended, claims 17-19 have been cancelled without prejudice or disclaimer, and claims 1, 2, 6, 7, 9, 11, 12 and 16 are pending and under consideration. No new matter within the meaning of 35 U.S.C. § 132 is presented in this Amendment.

REJECTIONS UNDER 35 U.S.C. § 112:

Claims 17 and 18 are rejected under 35 U.S.C. § 112, first paragraph, as allegedly failing to comply with the written description requirement.

Claims 17 and 18 have been cancelled without prejudice or disclaimer, thereby rendering the rejection thereof moot.

Claims 1, 12, 17 and 18 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 17 and 18 have been cancelled without prejudice or disclaimer, thereby rendering the rejection thereof moot.

As to the rejection of claims 1 and 12, the Examiner is respectfully advised that the phrase "the response information" as previously shown in line 18 of claim 1 and in line 15 of claim 12 has been removed by this amendment, but the same phrase "the response information" has been inserted in line 18 of claim 1 and in line 17 of claim 12, which finds its antecedent basis at least in lines 9 and 11 of claim 1 and in lines 7-8 and 10 of claim 12. Thus, Applicant believes that the phrase "the response information" as currently recited in line 18 of claim 1 and in line 17 of claim 12 has sufficient antecedent basis in the respective claims.

Based on the foregoing, the rejection of claims 1 and 12 under 35 U.S.C. § 112, second paragraph, is respectfully requested to be withdrawn.

REJECTIONS UNDER 35 U.S.C. § 103:

Claims 1, 2, 6, 7, 9, 11, 12 and 16 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Publication 2009/0150553 to Collart et al. ("Collart") in view of U.S.
Publication 2008/0022003 to Alve ("Alve").

Claim 1, as amended, recites *inter alia*:

wherein *the main application is a map service application requiring the location information*, and the auxiliary application is a GPS application,

wherein *the auxiliary information includes a request for the map service application, and the response information includes the location information*, and

wherein the location information is displayed on a screen of a display apparatus connected to the playback apparatus. (Emphasis added)

The claim features above are supported at least by paragraphs [0056]-[0064] of the instant application. Applicant respectfully submits that neither Collart nor Alve teaches such features of claim 1.

In the Office Action, page 6, paragraph 2, it is conceded that "[a]lthough Collart does not specifically disclose *wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information, wherein the auxiliary information includes a request for the location information, wherein the step (c) comprises executing the auxiliary application including a GPS application to acquire the location information, and wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus ...." (Underline in the original). In light of this statement, Applicant respectfully concludes that Collart also fails to disclose or suggest the amended claim features as recited above.

Alve might be cited against such amended features of claim 1, but it does not cure the deficiencies of Collart as discussed above. Specifically, Alve is directed to distribution of location information from a server to a remote device based on a predefined proximity by which prevention of remote devices from fraudulently using the location information. In other words, the location information is available to the remote device only when its location is within the predetermined proximity from the server. This procedure is described in Alve, paragraphs [0049]-[0051] with reference to Fig. 5.

However, Alve does not teach that its main application may be a map application that requires the location information of the remote device, and its auxiliary information may include a request for the map service application, and the response information includes the location information. Thus, Alve fails to disclose or suggest at least that "... the main application is a map service application requiring the location information, and the auxiliary application is a GPS
application ... the auxiliary information includes a request for the map service application, and the response information includes the location information," as recited in claim 1. Since these claim features are not taught or suggested in any of Collart and Alve, Applicant respectfully submits that claim 1 is allowable over the prior art of record whether taken alone or in combination.

Claim 12 recites features similar to those of claim 1 as discussed above, and is thus allowable for at least the reasons as presented above with regard to claim 1. Claims 2, 6, 7, 9, 11 and 16 depend from claim 1, and are thus deemed allowable for at least their dependency of an allowable base claim.

Based on the foregoing, the rejection of claims 1, 2, 6, 7, 9, 11, 12 and 16 under 35 U.S.C. § 103(a) is respectfully requested to be withdrawn.

CONCLUSION:

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 503333.

Respectfully submitted,

STEIN IP, LLC

Date: July 14, 2015

By: Sungyeop Chung
Registration No. 64130

1400 Eye St., N.W.
Suite 300
Washington, D.C. 20005
Telephone: (202) 216-9505
Facsimile: (202) 216-9510
**Electronic Acknowledgement Receipt**

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

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

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

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

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

**New International ApplicationFiled with the USPTO as a Receiving Office**

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

## Application as Filed – Part I

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

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

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

docketing@steinip.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 6 January 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, 2, 6, 7, 8, 9, 11, 12 and 16-19 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, 2, 6, 7, 8, 9, 11, 12 and 16-19 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 21 June 2010 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) 3) □ Interview Summary (PTO-413)
   Paper No(s)/Mail Date ________.

2) □ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) 4) □ Other: ________.
DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Response to Amendment

2. The amendment filed on 6 January 2015 has been entered and fully considered.

3. Claims 1, 2, 6, 7, 9, 11, 12, and 16-19 are pending.

4. The amendment is fully supported by the specification.

Response to Arguments

5. Applicant’s arguments with respect to the independent claims have been considered but are directed to the newly amended portions of the claims, which are addressed in the newly formed rejection below.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the first paragraph of 35 U.S.C. 112(a):

   (a) IN GENERAL.—The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor or joint inventor of carrying out the invention.

The following is a quotation of the first paragraph of pre-AIA 35 U.S.C. 112:

   The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.
7. **Claims 17 and 18 are rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph**, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor or a joint inventor, or for pre-AIA the inventor(s), at the time the application was filed, had possession of the claimed invention.

8. **Claims 17 and 18**, which depend from claims 1 and 12 respectively, include the limitations, “wherein the auxiliary information includes a request for the sensor-measured value, and wherein the response information includes the sensor-measured value.” As Applicant mentioned in the Remarks on Page 6, Paragraph 1, these limitations are disclosed in the application as filed on Page 11, paragraphs 3 through 12. However, the specification as originally filed does not appear to provide support for the newly added limitations in combination with the limitations of claims 1 and 12. Newly amended Claims 1 and 12 disclose an embodiment where the GPS functionality for the playback device is obtained from an external device, and that information is transmitted as auxiliary information. The newly added claims also disclose that information being transmitted as auxiliary information. It appears that the specification does not include support for the combination of these embodiments (i.e. auxiliary information including both GPS information as well as sensor-measured values). **Also see Rejection under 35 USC 112(b) or 35 USC 112, second paragraph below.**
9. The following is a quotation of 35 U.S.C. 112(b):

(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

10. **Claims 1, 12, 17 and 18 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA),** second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

11. **Claims 1 and 12** recite, “the response information” in lines 18 and 15, respectively. There is insufficient antecedent basis for this limitation in the claims.

12. **Claims 17 and 18** recite, “wherein the auxiliary information includes a request for the sensor-measured value, and wherein the response information includes the sensor-measured value.” “The Auxiliary information” and “the response information were previously described in claims 1 (lines 15 and 18) and 12 (lines 14 and 15). Therefore, it is unclear whether “the auxiliary information” and “the response information” described in claims 17 and 18 are the same auxiliary information and response information described in claims 1 and 12, or whether there is a second auxiliary information and response information being transmitted to and from the playback apparatus of claims 1 and 12.
Claim Rejections - 35 USC § 103

13. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

14. Claims 1, 2, 6, 7, 9, 11, 12, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 2009/0150553 A1 to COLLART et al. (hereinafter, 'Collart') in view of US 2008/0022003 A1 to ALVE.

Regarding Claims 1 and 12, Collart discloses a method for running applications using a mobile device and a playback apparatus (para 0005 -- control experience of media playback device using playback device; para 0072 -- primary media device; para 0074 -- secondary device can be mobile phone), the method comprising steps of:

(a) executing a main application in the playback apparatus (Fig. 6 -- content package on primary device, control scripts 628; para 0088 -- control script used to provide cooperation between primary and secondary device);

(b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed (para 0088 -- activates log-in and/or cooperation between primary and secondary devices);

(c) executing an auxiliary application associated with the auxiliary information in the mobile device (para 0092 -- menus can be forwarded to secondary device); and

(d) transmitting a response information obtained in the mobile device by executing the auxiliary application to the playback apparatus (para 0097 -- cooperating primary and secondary devices, secondary device can be used to perform functions not available through primary device, subsequent content displayed back through primary device); and
(c) running the main application based on the response information in the playback apparatus (para 0151 -- secondary device used to provide functionality to primary device that is not available to primary device; para 0170 -- secondary device can be used as remote control to select scenes, causes actions on primary device; para 0179 -- secondary device can forward back control signals based on information received from primary device; para 0182 - secondary device can issue commands to primary device concerning playback).

Although Collart does not specifically disclose wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information, wherein the auxiliary information includes a request for the location information, wherein the step (c) comprises executing the auxiliary application including a GPS application to acquire the location information, and wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus, these limitations are considered obvious by the rationales found in Alve.

In particular, Alve discloses wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information (para 0005, 0012 - discussing how some devices do not have GPS capability as this would cause higher manufacturing costs; para 0036 -- devices may not include location determination capabilities),

wherein the auxiliary information includes a request for the location information (Fig. 5 -- 510 request location info; para 0045 -- request for location information; para 0050 -- request location information form location server; see also Figs 8, 9).

wherein the step (c) comprises executing the auxiliary application including a GPS application to acquire the location information (para 0037 -- location server may be GPS-
equipped device such as cellular phone (inherently would include a piece of software/application to determine location)), and

wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus (Fig. 5 -- 515 location info received; para 0050 -- requesting device determines whether location information has been received (i.e. location information must be transmitted back to the apparatus in order for the information to be received by the requesting device); see also Figs 8, 9).

Therefore, at the time of the invention, it would have been obvious for one of ordinary skill in the art to modify the method for running applications using a mobile device and a playback apparatus of Collart to include obtaining location information from the mobile device of Alve, in order to provide a mechanism for allowing play back devices to obtain information even if they do not include location determination components, which also has the added benefit of keeping costs low for consumers (para 0005, 0012).

Regarding Claim 2, Collart and Alve disclose the method in accordance with claim 1. Collart further discloses wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL (para 0176 -- URL can be pushed to mobile device; para 0179 -- URL can be used to access internet site).

Regarding Claim 6, Collart and Alve disclose the method in accordance with claim 1. Collart further discloses wherein the auxiliary information includes a request for a user input, and wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input (para 0060 -- user input and modality capabilities through second device to primary device; para 0151).
Regarding Claim 7, Collart and Alve disclose the method in accordance with claim 6. Collart further discloses wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus *(para 0060 -- user input and modality capabilities through second device to primary device).*

Regarding Claim 9, Collart and Alve disclose the method in accordance with claim 16. Collart further discloses wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus *(para 0120 -- content can be related to images; para 0182 -- images can be incorporated into primary device).*

Regarding Claim 11, Collart and Alve disclose the method in accordance with claim 1. Collart further discloses wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification *(para 0065).*

Regarding Claim 16, Collart and Alve disclose the method in accordance with claim 1. Collart further discloses wherein the auxiliary information includes a request for an image information, and wherein the step (e) comprises executing the auxiliary application including an image generation application to generate the image information *(para 0060 -- user input and modality capabilities through second device to primary device; para 0092 -- provides menus and user interfaces to users on secondary device and primary device; para 0104 -- camera, video camera, web camera, which is captured by the second device; para 0120 -- content can be related to images).*

Regarding Claims 17 and 18, Collart and Alve disclose the method in accordance with claim 1. Alve further discloses wherein the main application requires a value measured by a sensor that is equipped by the mobile device and not equipped by the playback apparatus, wherein the auxiliary information includes a request for the sensor-measured value, and wherein the response
information includes the sensor-measured value (Fig. 5 -- 510 request location info; para 0011 -- uses accelerometers to help with location determination; para 0045 -- request for location information; para 0050 -- request location information form location server; para 0061 -- accelerometers used for location; see also Figs 8, 9).

Claim 19 is rejected for the same reasons as claims 1 and 17, because it has similar limitations.

**Conclusion**

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERICA NAVAR whose telephone number is (571)270-5888. The examiner can normally be reached on Monday-Friday 9-5.
If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Vladimir Magloire can be reached on (571) 270-5144. 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.

ERICA NAVAR  
Examiner  
Art Unit 2641

/ERICA NAVAR/  
Examiner, Art Unit 2641

/NATHAN MITCHELL/  
Primary Examiner, Art Unit 2641
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**NON-PATENT DOCUMENTS**

| Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages |

* A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

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/ERICA NAVAR/  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Wonjang BAEK

Application No. 12/819,272

Filed: June 21, 2010

For: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

AMENDMENT UNDER 37 CFR 1.111

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

Sir:

This is in response to the Office Action mailed October 6, 2014, and having a period for response set to expire on January 6, 2015.

Reconsideration of the claims is respectfully requested. The following remarks are respectfully submitted.
AMENDMENTS TO THE CLAIMS

The text of all pending claims (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims show added text with underlining and deleted text with strikethrough. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 4 and 5 without prejudice or disclaimer, AMEND claims 1 and 12, and ADD new claims 17-19, in accordance with the following:

1. (CURRENTLY AMENDED) A method for running applications using a mobile device and a playback apparatus, the method comprising steps of:
   
   (a) executing a main application in the playback apparatus;
   
   (b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed;
   
   (c) executing an auxiliary application associated with the auxiliary information in the mobile device;
   
   (d) transmitting a response information obtained in the mobile device by executing the auxiliary application to the playback apparatus; and
   
   (e) running the main application based on the response information in the playback apparatus.

   wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information,

   wherein the auxiliary information includes a request for the location information,

   wherein the step (c) comprises executing the auxiliary application including a GPS application to acquire the location information, and

   wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus.
2. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL.

3-5. (CANCELLED)

6. (PREVIOUSLY PRESENTED) The method in accordance with claim 1, wherein the auxiliary information includes a request for a user input, and wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input.

7. (ORIGINAL) The method in accordance with claim 6, wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus.

8. (CANCELLED)

9. (PREVIOUSLY PRESENTED) The method in accordance with claim 16, wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus.

10. (CANCELLED)

11. (ORIGINAL) The method in accordance with claim 1, wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification.

12. (CURRENTLY AMENDED) A method of running applications using a playback apparatus, comprising steps of:
(a) executing a main application by the playback apparatus;
(b) transmitting, by the playback apparatus, to a mobile device an auxiliary information required for running the main application while the main application is being executed;
(c) receiving, by the playback apparatus, from the mobile device a response information obtained by executing an auxiliary application associated with the auxiliary information; and
(e)/(d) running the main application based on the response information by the playback apparatus,

wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information,

wherein the auxiliary information includes a request for the location information, and

wherein the response information includes the location information acquired by executing the auxiliary application including a GPS application in the mobile device.

13-15. (CANCELLED)

16. (PREVIOUSLY PRESENTED) The method in accordance with claim 1, wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information.

17. (NEW) The method in accordance with claim 1, wherein the main application requires a value measured by a sensor that is equipped by the mobile device and not equipped by the playback apparatus, wherein the auxiliary information includes a request for the sensor-measured value, and wherein the response information includes the sensor-measured value.

18. (NEW) The method in accordance with claim 12, wherein the main application requires a value measured by a sensor that is equipped by the mobile device and not equipped
by the playback apparatus, wherein the auxiliary information includes a request for the sensor-measured value, and wherein the response information includes the sensor-measured value.

19. (NEW) A method of running applications in a playback apparatus, comprising steps of:

(a) executing, by the playback apparatus, a main application that requires a value measured by a sensor that is not equipped in the playback apparatus;

(b) transmitting, by the playback apparatus, a request for the sensor-measured value to a mobile device having therein the sensor;

(c) receiving, by the playback apparatus, from the mobile device a response information including the sensor-measured value; and

(d) running the main application based on the response information by the playback apparatus.
REMARKS

In accordance with the foregoing, claims 1 and 12 have been amended, claims 4 and 5 have been cancelled without prejudice or disclaimer, and new claims 17-19 have been added. Claim 1 has incorporated the features of claims 4 and 5 with modifications. Claim 12 has been amended to recite the features of claim 4 with modifications. Support for the amended features of claims 1 and 12 may be found at least on page 11, paragraph 2 of the instant application as originally filled (the "second embodiment") and original claims 4 and 5. Support for new claims 17-19 may be found at least on page 11, paragraph 3 through page 12, paragraph 3 of the instant application as originally filed.

Upon entry of this amendment, claims 1, 2, 6, 7, 9, 11, 12 and 16-19 are pending and under consideration. No new matter within the meaning of 35 U.S.C. § 132 is presented in this Amendment.

REJECTIONS UNDER 35 U.S.C. § 102:

Claims 1, 2, 6, 7, 9, 11, 12 and 16 are rejected under pre-AIA 35 U.S.C. § 102(b) as being anticipated by US 2009/0150553 A1 to COLLART et al. (hereinafter, ‘Collart’). Applicant respectfully traverses this rejection.

Claim 1 has been amended to incorporate the features of claims 4 and 5, which were not subject to this rejection, and is not anticipated by Collart. Likewise, claim 12 has been amended to incorporate the features of claim 4, which was not subject to this rejection, and is not anticipated by Collart. Claims 2, 6, 7, 9 and 16 depend from claim 1, and are deemed allowable for at least their dependency of an allowable base claim.

The non-obviousness of claims 1 and 12, as amended, over the cited prior art will be discussed below in the 35 U.S.C. § 103(a) rejection.

Based on the foregoing, this rejection is respectfully requested to be withdrawn.

REJECTIONS UNDER 35 U.S.C. § 103:

Claims 4 and 5 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Collart in view of US 20080207115 A1 to Lee et al. (hereinafter, ‘Lee’). Applicant respectfully traverses this rejection.
Claims 4 and 5 have been cancelled without prejudice or disclaimer, thereby rendering the rejection thereof moot. The features of cancelled claims 4 and 5 have been incorporated into claim 1, with modifications, which read:

- wherein the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides a location information,
- wherein the auxiliary information includes a request for the location information,
- wherein the step (c) comprises executing the auxiliary application including a GPS application to acquire the location information, and
- wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus. [emphasis added]

According to the presently claimed subject matter, the playback apparatus is not capable of providing a GPS function which provides location information. Thus, the playback apparatus may not execute the main application properly when the main application requires the location information. When the main application requires the location information, the playback apparatus may receive the location information from the mobile device to properly execute the main application. See the written description, on page 11, paragraph 2 as originally filed.

By contrast, Lee, which was cited against such claim features, teaches that each of the first and second audio players 100, 200 can provide a GPS function. Specifically, the location-sensing unit 120 of the first audio player 100 senses a relative location between the user who uses the first audio player 100 and the other party who uses the second audio player 200, based on the location information from the second audio player 200, via a GPS (see Lee, paragraph [0030]). Similarly, the location-sensing unit 220 of the second audio player 200 senses its location (i.e., the second audio player 200) based on the location information provided from the global positioning system (GPS) (see Lee, paragraph [0045]). If the second audio player 200 is located within a short distance as a result of the sensing from the location-sensing unit 120, the play-management unit 140 of the first audio player 100 plays the audio file (i.e., the audio file played in the second audio player 200) transmitted from the second audio player 200, via a network, and received at the wireless communication unit 130 of the first audio player 100 (see Lee, paragraph [0034]).

As such, in Lee, the first audio player 100 (mobile device) checks a relative location between the two devices 100, 200 if the distance falls within a predetermined short distance, and if so, it receives an audio file from the second audio player 200. This is completely different from the claimed subject where the playback apparatus requests the mobile device to send
location information that is required to execute the main application. Moreover, in Lee, both the first and second audio players 100, 200 can provide a GPS function, in contrast to the claimed subject matter where the playback apparatus is not capable of providing a GPS function which provides location information. Accordingly, assuming arguendo the teachings of Collart and Lee can be combined, the combined references still do not teach all of the features as recited in claim 1.

Claim 12, as amended, recites features similar to those of claim 1 as discussed above, and is therefore allowable over Collart in view of Lee, for at least the reason as presented above with regard to claim 1, mutatis mutandis. Claims 2, 6, 7, 9 and 16 depend from claim 1, and are deemed allowable for at least their dependency of an allowable base claim.

Based on the foregoing, this rejection is respectfully requested to be withdrawn.

**NEW CLAIMS 17, 18 AND 19:**

New claims 17 and 18 depend from claims 1 and 12, respectively, and are thus deemed allowable for at least their dependency of an allowable base claim. In addition, Applicant respectfully submits that claims 17 and 18 are allowable also in view of their own features, because “wherein the main application requires a value measured by a sensor that is equipped by the mobile device and not equipped by the playback apparatus, wherein the auxiliary information includes a request for the sensor-measured value, and wherein the response information includes the sensor-measured value” are not taught by any combination of Collart and Lee.

Claim 19 is an independent claim, including features similar to those of claims 17 and 18 as discussed above. For at least this reason, Applicant respectfully submits that claim 19 is allowable over Collart and Lee, whether taken alone or in combination.

**CONCLUSION:**

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.
If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 503333.

Respectfully submitted,

STEIN IP, LLC

Date: January 6, 2015

By: Sungyeop Chung
Registration No. 64,130

1400 Eye St., N.W.
Suite 300
Washington, D.C. 20005
Telephone: (202) 216-9505
Facsimile: (202) 216-9510
**Electronic Acknowledgement Receipt**

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Total Files Size (in bytes): 876348

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.
REPLY/AMENDMENT FEE TRANSMITTAL

Attorney Docket No. 0366.1005
Application Number 12/819,272
Filing Date June 21, 2010
First Named Inventor Wonjang BAEK
Group Art Unit 2643

AMOUNT ENCLOSED $0.00
Examiner Name Erica NAVAR

FEE CALCULATION (fees effective 3/19/2013)

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Notice of Appeal is enclosed (37 CFR 41.20(b)(1): $800.00) $0.00
Information Disclosure Statement is enclosed and fee is required (37 CFR 1.17(p): $180.00) $0.00

Total of above calculations = $0.00
Reduction by 50% for filing by small entity (37 CFR 1.27) - $
Reduction by 75% for filing by micro entity (37 CFR 1.29) - $

Total of above calculations = $0.00
Statutory Disclaimer is enclosed (37 CFR 1.20(d): $160.00) $0.00

TOTAL FEES DUE = $0.00

☐ A previous micro entity status is no longer appropriate and is hereby cancelled under 37 CFR 1.29(i).

METHOD OF PAYMENT

☐ Check enclosed as payment. ☐ Credit Card Payment Form, Form PTO-2038 (attached).
☐ Charge "TOTAL FEES DUE" to the Deposit Account No. below.
☐ Payment authorized and made via EFS-Web.
☒ No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).

GENERAL AUTHORIZATION

☒ If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:

Deposit Account No. 503333
Deposit Account Name STEIN IP, LLC

The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 U.S.C. § 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d) to maintain pendency hereof or of any such related application.

SUBMITTED BY: STEIN IP, LLC

Typed Name Sungyeop Chung Reg. No. 64,130
Signature
Date January 6, 2015
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Information Disclosure Statement is enclosed and fee is required (37 CFR 1.17(p): $180.00) $0.00
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Statutory Disclaimer is enclosed (37 CFR 1.20(d): $160.00) $0.00
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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(s).

**INDEPENDENT CLAIMS**

- Total Claims: 20
- Independent Claims: 3

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*If the difference in column 1 is less than zero, enter "0" in column 2.

**TOTAL ADD'L FEE**

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**TOTAL ADD'L FEE**

0

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

**APPLICATION AS FILED – PART I**

* If the difference in column 1 is less than zero, enter “0” in column 2.

* 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.

**APPLICATION AS AMENDED – PART II**

* 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.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

docketing@steinip.com
Office Action Summary

Application No. 12/819,272
Applicant(s) BAEK, WONJANG
Examiner ERICA NAVAR
Art Unit 2643
AIA (First Inventor to File) Status No.

-- 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 15 August 2014.
☐ 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, 2, 4, 7, 9, 11, 12 and 16 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, 2, 4, 7, 9, 11, 12 and 16 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 21 June 2010 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 _____.
3)☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date: _____.
4)☐ Other: _____.
DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 15 September 2014 has been entered.

Response to Amendment

3. The amendment filed on 15 September 2014 has been entered and fully considered.

4. Claims 1, 2, 4-7, 9, 11, 12, and 16 are pending.

5. The amendment is fully supported by the specification.

Response to Arguments

6. Applicant’s arguments with respect to the independent claims have been considered but are directed to the newly amended portions of the claims, which are addressed in the newly formed rejection below.
Claim Rejections - 35 USC § 112

7. The rejection of claims 2-7 under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, is withdrawn based on Applicant's amendments.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claims 1, 2, 6, 7, 9, 11, 12, and 16 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by US 2009/0150553 A1 to COLLART et al. (hereinafter, 'Collart').

Regarding Claims 1 and 12, Collart discloses a method for running applications using a mobile device and a playback apparatus (para 0005 -- control experience of media playback device using playback device; para 0072 -- primary media device; para 0074 -- secondary device can be mobile phone), the method comprising steps of:

(a) executing a main application in the playback apparatus (Fig. 6 -- content package on primary device, control scripts 628; para 0088 -- control script used to provide cooperation between primary and secondary device);

(b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed (para 0088 -- activates log-in and/or cooperation between primary and secondary devices);
(c) executing an auxiliary application associated with the auxiliary information in the mobile device (para 0092 -- menus can be forwarded to secondary device); and

(d) transmitting a response information obtained in the mobile device by executing the auxiliary application to the playback apparatus (para 0097 -- cooperating primary and secondary devices, secondary device can be used to perform functions not available through primary device, subsequent content displayed back through primary device); and

(e) running the main application based on the response information in the playback apparatus (para 0151 -- secondary device used to provide functionality to primary device that is not available to primary device; para 0170 -- secondary device can be used as remote control to select scenes, causes actions on primary device; para 0179 -- secondary device can forward back control signals based on information received from primary device; para 0182 -- secondary device can issue commands to primary device concerning playback).

Regarding Claim 2, Collart discloses the method in accordance with claim 1. Collart further discloses wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL (para 0176 -- URL can be pushed to mobile device; para 0179 -- URL can be used to access internet site).

Regarding Claim 6, Collart discloses the method in accordance with claim 1. Collart further discloses wherein the auxiliary information includes a request for a user input, and wherein the step (e) comprises executing the auxiliary application including a keyboard application to receive the user input (para 0060 -- user input and modality capabilities through second device to primary device; para 0151).
Regarding Claim 7, Collart discloses the method in accordance with claim 6. Collart further discloses wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus (para 0060 -- user input and modality capabilities through second device to primary device).

Regarding Claim 9, Collart discloses the method in accordance with claim 16. Collart further discloses wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus (para 0120 -- content can be related to images; para 0182 - images can be incorporated into primary device).

Regarding Claim 11, Collart discloses the method in accordance with claim 1. Collart further discloses wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification (para 0065).

Regarding Claim 16, Collart discloses the method in accordance with claim 1. Collart further discloses wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information (para 0060 -- user input and modality capabilities through second device to primary device; para 0092 -- provides menus and user interfaces to users on secondary device and primary device; para 0104 -- camera, video camera, web camera, which is captured by the second device; para 0120 -- content can be related to images).
10. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

11. **Claims 4 and 5 are rejected under 35 U.S.C. 103(a)** as being unpatentable over Collart in view of US 20080207115 A1 to Lee et al. (hereinafter, ‘Lee’).

**Regarding Claim 4,** Collart discloses the method in accordance with claim 1, but does not specifically disclose wherein the auxiliary information includes a request for a location information, and wherein the step (e) comprises executing the auxiliary application including a GPS (Global Positioning System) application to acquire the location information.

However, these limitations are considered obvious by the rationales found in Lee. In particular, Lee discloses wherein the auxiliary information includes a request for a location information, and wherein the step (e) comprises executing the auxiliary application including a GPS (Global Positioning System) application to acquire the location information (para 0028 -- requests location information, receives response message; para 0030 -- GPS, location sensing unit).

Therefore, at the time of the invention, it would have been obvious for one of ordinary skill in the art to modify the method of running applications of Collart to include the GPS as disclosed by Lee, because such limitations allow devices to determine the relative location between each other in order to transmit information between the devices (see para 0014, 0025 of Lee).

**Regarding Claim 5,** Collart and Lee disclose the method in accordance with claim 4. Lee further discloses wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus (para 0028, receives response message with location information).
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERICA NAVAR whose telephone number is (571)270-5888. The examiner can normally be reached on Monday-Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Jinsong Hu can be reached on (571) 272-3965. 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.

ERICA NAVAR
Examiner
Art Unit 2643

/ERICA NAVAR/
Examiner, Art Unit 2643

/JINSONG HU/
Supervisory Patent Examiner, Art Unit 2643
## EAST Search History

### EAST Search History (Prior Art)

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LIST OF REFERENCES CITED BY APPLICANT  
(Use several sheets if necessary)  

ATTORNEY DOCKET NO.  
0366.1005  
APPLICATION NO.  
12/819,272  
FIRST NAMED INVENTOR  
Wonjang BAEK  
PILING DATE  
June 21, 2010  
GROUP ART UNIT  
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U.S. PATENT DOCUMENTS

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DATE CONSIDERED  
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REQUEST FOR CONTINUED EXAMINATION (RCE) 
TRANSMITTAL
(INCLUDING FILING FEE AND/OR PETITION FOR EXTENSION OF TIME FEE)

Subsection (b) of 35 U.S.C. § 132, effective May 29, 2000 provides for continued examination of a utility or plant application filed on or after June 8, 1995.
See The American Inventors Protection Act of 1999 (AIPA)

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<th>To: Commissioner for Patents</th>
<th>Attorney Docket No.: 0366.1005</th>
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<td>Examiner</td>
<td>Erica NAVAR</td>
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<td>METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION</td>
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This is a Request for Continued Examination (RCE), under 37 CFR 1.114, of the above-identified application.

1. Submission required under 37 CFR 1.114 (Box a or b must be completed)
   a. □ Previously submitted
      i. □ Consider the amendment(s)/reply under 37 CFR 1.116 previously filed on ____.
         (Any un-entered amendment(s) referred to above will be entered).
      ii. □ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _______.
      iii. □ Other: _______
   b. □ Enclosed (box i must be checked)
      i. □ Amendment/Reply (required)
      ii. □ Affidavit(s)/Declaration(s)
      iii. □ Information Disclosure Statement (IDS)
      iv. □ Other: _______

2. Miscellaneous
   a. □ This is the first RCE filed for the above-identified application.
   b. □ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of ______ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required).
   c. □ Other: _______
FEE CALCULATION (fees effective 3/19/2013)

RCE FEE (37 CFR 1.17(e)(2)) $1,700.00

Reduction of $500.00 for first RCE in application (37 CFR 1.17(e)(1)) - $

Since an Official Action set an original due date of August 15, 2014, petition is hereby made for an extension to cover the date this reply is filed, for which the requisite fee is enclosed: (1 month ($200)); (2 months ($600)); (3 months ($1,400)); (4 months ($2,200)); (5 months ($3,000)); $200.00

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Suspension Fee of $140.00 (37 CFR 1.17(i)) $1,900.00

Total of above Calculations = $1,900.00

Reduction by 50% for filing by small entity (37 CFR 1.27) - $

Reduction by 75% for filing by micro entity (37 CFR 1.29) - $

TOTAL FEES DUE = $1,900.00

☐ A previous micro entity status is no longer appropriate and is hereby cancelled under 37 CFR 1.29(i).

METHOD OF PAYMENT

☐ Check enclosed as payment. ☐ Credit Card Payment Form, Form PTO-2038 (attached).

☐ Charge "TOTAL FEES DUE" to the Deposit Account No. below.

☒ Payment authorized and made via EFS-Web.

GENERAL AUTHORIZATION

☒ The Commissioner is hereby authorized to credit any overpayment or charge any additional fees under 37 CFR 1.16 (filings fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application and of any related application(s) claiming benefit hereof pursuant to 35 U.S.C. § 120 to maintain pendency hereof and of any such related application to:

Deposit Account No. 503333

CORRESPONDENCE ADDRESS

STEIN IP, LLC

49,455

PATENT TRADEMARK OFFICE

SIGNATURE OF ATTORNEY OR AGENT REQUIRED

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Wonjang BAEK

Application No. 12/819,272

Filed: June 21, 2010

For: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

Confirmation No. 9757

Group Art Unit: 2643

Examiner: Erica NAVAR

AMENDMENT UNDER 37 CFR 1.114

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

Sir:
This is in response to the Final Office Action mailed May 15, 2014, and having a period for response set to expire on August 15, 2014. A petition for a one-month extension of time is made herein and the appropriate fee is enclosed, extending the due date to September 15, 2014. A Request for Continued Examination (RCE) is filed herewith and the appropriate fee is paid.

Reconsideration of the claims is respectfully requested. The following remarks are respectfully submitted.
AMENDMENTS TO THE CLAIMS

Please CANCEL claims 3, 10 and 13-15 have been cancelled without prejudice or disclaimer; ADD new claim 16; and AMEND claims 1, 6, 9 and 12 in accordance with the following:

1. (CURRENTLY AMENDED) A method for running applications using a mobile device and a playback apparatus, the method comprising steps of:

   (a) executing a main application in the playback apparatus;

   (b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed;

   (c) executing an auxiliary application associated with the auxiliary information in the mobile device; and

   (d) processing-transmitting a response information obtained in the mobile device by executing the auxiliary application to the playback apparatus; and

   wherein the auxiliary information includes a request for a user input, wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information

   (e) running the main application based on the response information in the playback apparatus.

2. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL.

3. (CANCELLED)

4. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes a request for a location information, and wherein the step (c) comprises
executing the auxiliary application including a GPS (Global Positioning System) application to acquire the location information.

5. (ORIGINAL) The method in accordance with claim 4, wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus.

6. (CURRENTLY AMENDED) The method in accordance with claim 1, wherein the auxiliary information includes a request for a user input, and wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input.

7. (ORIGINAL) The method in accordance with claim 6, wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus.

8. (CANCELLED)

9. (CURRENTLY AMENDED) The method in accordance with claim 1, wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus.

10. (CANCELLED)

11. (ORIGINAL) The method in accordance with claim 1, wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification.

12. (CURRENTLY AMENDED) A method of running applications using a playback apparatus, comprising steps of:

(a) executing a main application by the playback apparatus;
(b) transmitting, by the playback apparatus, to a mobile device an auxiliary information required for running the main application while the main application is being executed; and

(c) receiving, by the playback apparatus, from the mobile device a response information obtained by executing an auxiliary application associated with the auxiliary information; and

wherein the auxiliary information includes a request for a user input,

wherein the auxiliary information includes a request for an image information, and

wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information

(e) running the main application based on the response information by the playback apparatus.

13-15. (CANCELLED)

16. (NEW) The method in accordance with claim 1, wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information.
REMARKS

In accordance with the foregoing, claims 1, 6, 9 and 12 have been amended, claims 3, 10 and 13-15 have been cancelled without prejudice or disclaimer, and new claim 16 has been added.

New claim 16 corresponds to claim 8, now cancelled, as originally filed.

Claim 1 has substantially incorporated the features of claim 10, now cancelled.

Claim 6 has been amended to re-include the features as recited in original claim 6.

Claim 9 has been amended to refer to new claim 16, instead of claim 1.

Claim 12 has substantially incorporated the features of claim 13, now cancelled.

Upon entry of this amendment, claims 1-2, 4-9 and 11-12 are pending and under consideration. No new matter within the meaning of 35 U.S.C. § 132 is presented in this Amendment.

INTERVIEW SUMMARY:

It is acknowledged that on April 22, 2014, Applicant’s representative was contacted by the Examiner, requesting authorization of the Examiner’s amendment: She suggested that if the phrase “wherein the main application is a word processor application, a note-pad application or an image capture application” is inserted in the independent claims, all the pending claims will overcome the outstanding Office Action.

In the current Office Action mailed May 15, 2014, however, the Examiner overturns the previous position above and cites new prior art, i.e., U.S. Patent Application Publication No. 2009/0049092.

REJECTIONS UNDER 35 U.S.C. § 112:

1. Claims 2-7 are rejected under § 112 (pre-AIA), first paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

   Claim 1 has been amended to remove therefrom, without prejudice or disclaimer, the following phrases: “wherein the auxiliary information includes a request for a user input, and
wherein the auxiliary information includes a request for an image information, and wherein the
step (c) comprises executing the auxiliary application including an image generation application
to generate the image information." Since this rejection is based on these features of base
claim 1, the reason for this rejection is obviated by this amendment.

Claim 3 has been cancelled without prejudice or disclaimer, thereby rendering the
rejection thereof moot.

In view of the forgoing, withdrawal of the rejection of claims 2 and 4-7 under § 112, first
paragraph, is respectfully requested.

2. Claims 2-7 are rejected under 35 U.S.C. § 112 (pre-AIA), first paragraph, because the
specification, while being enabling for claims 1, 2 and 3, separately (i.e. the embodiment
wherein the auxiliary information includes a URL in claims 2 and 3 (first embodiment from US
Patent Application Publication 2010/0323760 A1, para 0048 and figure 2), and the embodiment
of an image application of claim 1 (para 0073 and figure 1), does not reasonably provide
enablement for the combination of these embodiments.

The claim features on image information have been removed from claim 1 without
prejudice or disclaimer, as noted above with regard to the § 112, first paragraph rejection. Since
this rejection is based on these claim features, Applicant believes that the reason for this
rejection is obviated.

Claim 3 has been cancelled without prejudice or disclaimer, thereby rendering the
rejection thereof moot.

In view of the forgoing, withdrawal of the rejection of claims 2 and 4-7 under § 112, first
paragraph, is respectfully requested.

REJECTIONS UNDER 35 U.S.C. § 103:

1. Claims 1-3, 6, 7, 9-11, 13, and 15 are rejected under pre-AIA 35 U.S.C. § 103(a) as
being unpatentable over U.S. Pat. App. Pub. No. 2009/0049092 to CAPIO et al. (hereinafter,
"Capio") in view of U.S. Pat. App. Pub. No. 2009/0150553 to COLLART et al. (hereinafter,
'Collart'). Applicant respectfully traverses this rejection.

Claim 1 recites *inter alia*:
(b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed;

(c) executing an auxiliary application associated with the auxiliary information in the mobile device (emphasis added)

As to the claim features above, the Office asserts that they are disclosed in Capio. Specifically, the Office Action states that Step (b) of claim 1 above is taught in Capio, paragraphs [0016], [0034] and [0035]. Capio describes that a primary device 10 (i.e., the "playback apparatus") provides certain information to an ancillary device 12 (i.e., the "mobile device"). Capio, however, fails to teach or suggest this certain information is transmitted by the primary device 10 to the ancillary device 12 while a main application is being executed. Thus, Capio does not teach or suggest at least "transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed," as recited in Step (b) of claim 1 (emphasis added).

Furthermore, there is no teaching or suggestion in Capio that the information received by the ancillary device 12 is required for running a certain main application. Hence, Capio fails to teach or suggest at least "transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed," as recited in Step (b) of claim 1 (emphasis added).

With regard to Step (c) of claim 1 above, the Office Action states that paragraphs [0016] and [0035] of Capio disclose it. While Capio describes that "[t]he ancillary device 12 uses the received information to present content ..." (paragraph [0016], emphasis added), it does not teach "executing an auxiliary application associated with the auxiliary information in the mobile device," as recited in Step (c) of claim 1 (emphasis added).

In addition to the above differences, the teachings of Capio are clearly different from the claimed subject matter, particularly in view of the following amended features as recited in claim 1 inter alia:

(d) transmitting a response information obtained in the mobile device by executing the auxiliary application to the playback apparatus; and

(e) running the main application based on the response information in the playback apparatus. (emphasis added)
In Capio, the ancillary device 12 uses the information received from the primary device to present content related to playback of the primary device 10, preparing the content and presenting the same based on the information received from the primary device 10. However, no teaching or suggestion is found in Capio that the content prepared by the ancillary device 12 may be transmitted to the primary device 10. Thus, it is submitted that Capio fails to teach or suggest at least "transmitting a response information obtained in the mobile device by executing the auxiliary application to the playback apparatus; and running the main application based on the response information in the playback apparatus," as recited in claim 1, as amended (emphasis added).

As such, since the secondary reference Collart is cited against the features of claim 1 that have been removed by this amendment but fails to remedy the deficiencies of Capio as discussed above, assuming arguendo Capio and Collart can be combined and a reasonable expectation of success exists, the combined references still do not disclose all of the features as recited in claim 1. Accordingly, it is respectfully submitted that claim 1 is allowable over the cited prior art, whether taken alone or in combination.

Claims 3, 10, 13 and 15 have been cancelled without prejudice or disclaimer, thereby rendering the rejection thereof moot. Claims 2, 6, 7, 9 and 11 depend from claim 1, and are deemed allowable for at least this reason.

2. Claims 4 and 5 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Capio in view of Collart, and further in view of U.S. Pat. App. Pub. No. 2008/0207115 to lee et al. (hereinafter, 'Lee'). Applicant respectfully traverses this rejection.

Claims 4 and 5 depend from claim 1. Lee is cited against the additional features of dependent claims 4 and 5, but fails to cure the deficiencies of claim 1. Hence, assuming arguendo Capio, Collart, and Lee can be combined and a reasonable expectation of success exists, the combined references still do no teach all of the features as recited in claim 1. Accordingly, it is noted that claims 4 and 5 are allowable over the prior art of record at least because they depend from allowable base claim 1.

Based on the foregoing, withdrawal of the rejection of claims 1, 2, 4-6, 7, 9, and 11 under 35 U.S.C. § 103(a) is respectfully requested.
CONCLUSION:

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 503333.

Respectfully submitted,

STEIN IP, LLC

Date: September 15, 2014

1400 Eye St., N.W.
Suite 300
Washington, D.C. 20005
Telephone: (202) 216-9505
Facsimile: (202) 216-9510

By: [Signature]
Sungyeop Chung
Registration No. 64,130
**Electronic Patent Application Fee Transmittal**

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<td>METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION</td>
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<td>First Named Inventor/Applicant Name:</td>
<td>Wonjang BAEK</td>
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**Utility under 35 USC 111(a) Filing Fees**

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**Payment information:**

- **Submitted with Payment:** yes
- **Payment Type:** Credit Card
- **Payment was successfully received in RAM:** $1900
- **RAM confirmation Number:** 4829
- **Deposit Account:**
- **Authorized User:**

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**Warnings:**

**Information:**

| Total Files Size (in bytes) | 1145542 |

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

**New Applications Under 35 U.S.C. 111**
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**National Stage of an International Application under 35 U.S.C. 371**
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**New International Application Filed with the USPTO as a Receiving Office**
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PATENT APPLICATION FEE DETERMINATION RECORD
Substitute for Form PTO-875

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APPLICATION SIZE FEE (37 CFR 1.16(a))
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(h).

MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II

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FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))

| TOTAL ADD'L FEE | 0 |

* 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.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.
**LIST OF REFERENCES CITED BY APPLICANT**

*(Use several sheets if necessary)*

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**EXAMINER**

**DATE CONSIDERED**

*EXAMINER:* Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
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**Title of Invention:**
METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

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

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

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Wonjang BAEK Confirmation No. 9757
Application No. 12/819,272 Group Art Unit: 2643
Filed: June 21, 2010 Examiner: Erica NAVAR

For: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

INFORMATION DISCLOSURE STATEMENT

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

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:
   1a. List Of References Cited By Applicant (ATTACHMENT 1(a), hereto).
   1c. English language copy of a communication(s) from a foreign Patent Office or a PCT International Search Report.
   1d. English language translation (Abstract Only) attached to non-English language publications as indicated on the attached List Of References Cited By Applicant.
   1e. Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of non-English publications.
   1f. List of Copending Applications (ATTACHMENT 1(f), hereto).
   1g. List of Additional Submitted Documents (ATTACHMENT 1(g), hereto).

2. This Information Disclosure Statement is filed under 37 CFR § 1.97(b):
   (Check either Item 2a or 2b or 2c or 2d)
   2a. Within three months of the filing date of a national application;
   2b. Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application.
   2c. Before the mailing of a first Office Action on the merits; or
   2d. Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.
3. ☐ This Information Disclosure Statement is filed under 37 CFR § 1.97(c) after the period specified in paragraph 2 above but before the mailing date of any of a Final Office Action under § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise closes prosecution in the application, AND

(Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months)

3a. ☐ The § 1.97(e) Statement in Item 5 below is applicable; OR
3b. ☒ The fee set forth in 37 CFR § 1.17(p) is enclosed, said fee being:
   ☒ $180.00 (large entity fee).
   ☐ $90.00 (small entity fee).
   ☐ $45.00 (micro entity fee).

4. ☐ This Information Disclosure Statement is filed under 37 CFR § 1.97(d) after the period specified in paragraph 3 above, but on or before payment of the Issue Fee, AND

4a. ☐ The § 1.97(e) Statement in Item 5 below is applicable; AND
4b. ☐ The fee set forth in 37 CFR § 1.17(p) is enclosed, said fee being:
   ☐ $180.00 (large entity fee).
   ☐ $90.00 (small entity fee).
   ☐ $45.00 (micro entity fee).

5. ☐ Statement under § 1.97(e) (applicable if Item 3a or Item 4a is checked)
   (Check either Item 5a or 5b)

   5a. ☐ In accordance with 37 CFR § 1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

   5b. ☐ In accordance with 37 CFR § 1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

6. ☐ This is included with a Request for Continued Examination under 37 CFR § 1.114.
   (Check either Item 6a or 6b)

   6a. ☐ The Issue Fee has not been paid.
   6b. ☐ A Petition to Withdraw from issue under 37 CFR § 1.313(c) is filed concurrently herewith or has been granted. A Request for Continued Examination under 37 CFR § 1.114, after payment of the Issue Fee, is proper in accordance with 37 CFR § 1.114(a), respectively.
7. □ This is a Supplemental Information Disclosure Statement.
   (Check either Item 7a or 7b)

   7a. □ This Supplemental Information Disclosure Statement under 37 CFR § 1.97(f) supplements the Information Disclosure Statement filed on ___. A bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be considered as if properly filed on ___.

   7b. □ This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR §§ 1.97 and 1.98, mailed ___.

8. □ In accordance with 37 CFR § 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:
   (Check appropriate Items 8a, 8b, 8c and/or 8d)

   8a. □ satisfied for the non-English language publication(s) cited on the enclosed "English language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP § 609.04(a)(III), Minimum Requirements for an Information Disclosure Statement: Concise Explanation of Relevance, 8th Ed., Rev. 5)

   8b. □ set forth in the application.

   8c. □ satisfied for the non-English language publication(s) indicated on the attached List Of References Cited By Applicant as having an English language translation (Abstract Only) attached thereto.

   8d. □ enclosed as Attachment 1(e), hereto.

9. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

10. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement to Deposit Account No. 503333.

    Respectfully submitted,

    STEIN IP, LLC

    Dated: August 15, 2014

    1400 Eye St., N.W.
    Suite 300
    Washington, D.C. 20005
    Telephone: (202) 216-9505
    Facsimile: (202) 216-9510

    By: ________________
    Sungyeop Chung
    Registration No. 64,130
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):

docketing@steinip.com
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 22 January 2014.
   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) 1-7 and 9-15 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) 1-7 and 9-15 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 21 June 2010 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 ______

3) ☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date: ______.

4) ☐ Other: ______.
DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Allowable Subject Matter

2. In an interview with Applicant’s Representative, the Examiner indicated allowable subject matter and agreed to submit the allowable subject matter within the claims by way of Examiner’s Amendment; however, the indicated allowability is withdrawn in view of the newly discovered reference(s) to US 2009/0049092 A1. Rejections based on the newly cited reference(s) follow.

Response to Amendment

3. The amendment filed on 24 October 2012 has been entered and fully considered.

4. Claims 1-15 are pending.

5. The amendment appears to contain new matter (see 112 rejections below).

Response to Arguments

6. Applicant’s arguments with respect to the independent claims have been considered but are moot because the arguments do not apply to the references being used in the current rejection.
Claim Rejections - 35 USC § 112

7. The following is a quotation of the first paragraph of 35 U.S.C. 112(a):

(a) IN GENERAL.—The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor or joint inventor of carrying out the invention.

The following is a quotation of the first paragraph of pre-AIA 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

8. Claims 2-7 are rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor or a joint inventor, or for pre-AIA the inventor(s), at the time the application was filed, had possession of the claimed invention.

For example, claims 2 and 3 depend on claim 1, and includes the embodiment wherein the auxiliary information includes a URL (first embodiment from US Patent Application Publication 2010/0323760 A1, para 0048 and figure 2). However, claim 1 contains the embodiment of an image application (para 0073 and figure 1). The examiner was unable to find support for the combination of these embodiments in the specification.

Similarly, claims 4 and 5 include a second embodiment, which includes a GPS (see paragraph 0057 and figure 3). Claims 6 and 7 disclose a keyboard application (see third embodiment of paragraph 0055 and figure 4). The examiner was unable to find support for the combination of these embodiments in the specification.
9. Claims 2-7 are rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, because the specification, while being enabling for claims 1, 2, and 3, separately (i.e. the embodiment wherein the auxiliary information includes a URL in claims 2 and 3 (first embodiment from US Patent Application Publication 2010/0323760 A1, para 0048 and figure 2), and the embodiment of an image application of claim 1 (para 0073 and figure 1), does not reasonably provide enablement for the combination of these embodiments. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

For example, claims 2 and 3 depend on claim 1, and includes the embodiment wherein the auxiliary information includes a URL (first embodiment from US Patent Application Publication 2010/0323760 A1, para 0048 and figure 2). However, claim 1 contains the embodiment of an image application (para 0073 and figure 1). Claims 2 and 3 require an embodiment which includes an image application and a URL.

Similarly, claims 4 and 5 include a second embodiment, which includes a GPS (see paragraph 0057 and figure 3). Claims 6 and 7 disclose a keyboard application (see third embodiment of paragraph 0055 and figure 4). The specification recites separate embodiments, rather than a combination of the various embodiments as recited in the claims.
Claim Rejections - 35 USC § 103

10. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

11. Claims 1-3, 6, 7, 9-11, 13, and 15 rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US 2009/0049092 A1 to CAPIO et al. (hereinafter, ‘Capio’) in view of US 2009/0150553 A1 to COLLART et al. (hereinafter, 'Collart').

Regarding Claims 1, 12, and 14, Capio discloses a method for running applications using a mobile device and a playback apparatus (Fig. 1, para 0016 -- ancillary device presents content related to playback of primary device; para 0028 -- primary device may be DVR, Blu-ray player, etc.; para 0029 -- ancillary device may be portable device, mobile phone, etc.), the method comprising steps of:

(a) executing a main application in the playback apparatus (Fig. 1, para 0016 -- primary device for sensory work playback system; para 0034 -- present content related to playback of sensory work on primary device; para 0035 -- playback of sensory work on primary device);

(b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed (para 0016 -- received information to ancillary device; para 0034 -- primary device provides information to ancillary device; para 0035 -- ancillary device receives information from primary device related to playback of a sensory work);

(c) executing an auxiliary application associated with the auxiliary information in the mobile device (para 0016 -- ancillary device uses received information to present content related to playback of the primary device; para 0035 -- present content related to playback of sensory work on primary device using received information); and
(d) processing a response information obtained in the mobile device by executing the auxiliary application (para 0016 -- ancillary device uses received information to present content related to playback of the primary device; para 0035 -- prepares content and presents content based on information received from primary device),

wherein the auxiliary information includes a request for an image information (para 0035 -- information to be presented by ancillary device may be image).

Although Capio does not specifically disclose, wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information and wherein the auxiliary information includes a request for user input, these limitations are considered obvious by the rationales found in Collart. In particular, Collart discloses and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information (para 0104 -- camera, video camera, web camera, which is captured by the second device) and wherein the auxiliary information includes a request for user input (para 0092 -- provides menus and user interfaces to users on secondary device and primary device; para 0120 -- content can be related to images).

Therefore, at the time of the invention, it would have been obvious for one of ordinary skill in the art to modify the method for running applications of Capio to include the user input of Collart, in order to provide functionality of second device that is not available to the primary device (para 0011) and customize the available options of the secondary device based on what is occurring at the primary device (para 0092).

**Regarding Claim 2**, Capio and Collart disclose the method in accordance with claim 1. Capio further discloses wherein the auxiliary information includes an URL (Uniform Resource
Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL (para 0036 -- URL to be presented; para 0048 -- link, browser).

Regarding Claim 3, Capio and Collart disclose the method in accordance with claim 2. Collart further discloses wherein the step (d) comprises displaying a web page associated with the URL on a screen of the mobile device (para 0176 -- secondary device can be controlled through trigger activations to activate a network browser to access sites or pages in response to content being displayed in a primary device, URL can be pushed from primary device to secondary device; para 0177 -- device can be a wireless phone; para 0179 -- internet site addresses forwarded to secondary device, web page accessed through secondary device, access based on URL).

Regarding Claim 6, Capio discloses the method in accordance with claim 1. Capio further discloses wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input (para 0151).

Regarding Claims 7 and 15, Capio and Collart disclose the method in accordance with claim 6. Collart further discloses wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus (para 0060 -- user input and modality capabilities through second device to primary device).

Regarding Claim 9, Capio and Collart disclose the method in accordance with claim 1. Collart further discloses wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus (para 0120 -- content can be related to images; para 0182 - images can be incorporated into primary device).

Regarding Claims 10 and 13, Capio and Collart disclose the method in accordance with claim 1. Collart further discloses further comprising (e) running by the playback apparatus the main
application based on the response information (para 0060 -- user input and modality capabilities through second device to primary device).

**Regarding Claim 11**, Capio and Collart disclose the method in accordance with claim 1. Collart further discloses wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification (para 0065). At the time of the invention, it would have been obvious for one of ordinary skill in the art to modify the method of running applications of Capio with user input of Collart to include the BD-J specification of Collart, because this specification is one of a limited number of specifications that can be used in home audio and video related systems and DVD players (para 0054).

12. **Claims 4 and 5 are rejected under 35 U.S.C. 103(a)** as being unpatentable over Capio in view of Collart, and further in view of US 20080207115 A1 to Lee et al. (hereinafter, ‘Lee’).

**Regarding Claim 4**, Capio and Collart disclose the method in accordance with claim 1, but do not specifically disclose wherein the auxiliary information includes a request for a location information, and wherein the step (c) comprises executing the auxiliary application including a GPS (Global Positioning System) application to acquire the location information.

However, these limitations are considered obvious by the rationales found in Lee. In particular, Lee discloses wherein the auxiliary information includes a request for a location information, and wherein the step (c) comprises executing the auxiliary application including a GPS (Global Positioning System) application to acquire the location information (para 0028 -- requests location information, receives response message; para 0030 -- GPS, location sensing unit).

Therefore, at the time of the invention, it would have been obvious for one of ordinary skill in the art to modify the method of running applications of Capio including user input of Collart to
include the GPS as disclosed by Lee, because such limitations allow devices to determine the relative location between each other in order to transmit information between the devices (see para 0014, 0025 of Lee)

**Regarding Claim 5**, Capio, Collart, and Lee disclose the method in accordance with claim 4. Lee further discloses wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus (para 0028, receives response message with location information).

**Conclusion**

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERICA NAVAR whose telephone number is (571)270-5888. The examiner can normally be reached on Monday-Friday 8-5.
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jinsong Hu can be reached on (571) 272-3965. 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.

/SAN HTUN/
Primary Examiner, Art Unit 2643

/ERICA NAVAR/
Examiner, Art Unit 2643
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## INTERFERENCE SEARCH

/ERICA NAVAR/
Examiner Art Unit 2643

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Wonjang BAEK  
Application No. 12/819,272  
Filed: June 21, 2010

Confirmation No. 9757  
Group Art Unit: 2643  
Examiner: Erica NAVAR

For: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

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

Sir:


Reconsideration of the claims is respectfully requested. The following remarks are respectfully submitted.
AMENDMENTS TO THE CLAIMS

Please CANCEL claim 8 without prejudice or disclaimer, and AMEND claims 1, 9, 12 and 14, in accordance with the following:

1. (CURRENTLY AMENDED) A method for running applications using a mobile device and a playback apparatus, the method comprising steps of:
   
   (a) executing a main application in the playback apparatus;
   
   (b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed;
   
   (c) executing an auxiliary application associated with the auxiliary information in the mobile device; and
   
   (d) processing a response information obtained in the mobile device by executing the auxiliary application,

   wherein the auxiliary information includes a request for a user input,

   wherein the auxiliary information includes a request for an image information, and

   wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information.

2. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL.

3. (ORIGINAL) The method in accordance with claim 2, wherein the step (d) comprises displaying a web page associated with the URL on a screen of the mobile device.

4. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes a request for a location information, and wherein the step (c) comprises executing the auxiliary application including a GPS (Global Positioning System) application to acquire the location information.
5. (ORIGINAL) The method in accordance with claim 4, wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus.

6. (PREVIOUSLY PRESENTED) The method in accordance with claim 1, wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input.

7. (ORIGINAL) The method in accordance with claim 6, wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus.

8. (CANCELLED)

9. (CURRENTLY AMENDED) The method in accordance with claim 8, wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus.

10. (ORIGINAL) The method in accordance with claim 1, further comprising (e) running the main application based on the response information.

11. (ORIGINAL) The method in accordance with claim 1, wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification.

12. (CURRENTLY AMENDED) A method of running applications using a playback apparatus, comprising steps of:

(a) executing a main application by the playback apparatus;
(b) transmitting, by the playback apparatus, to a mobile device an auxiliary information required for running the main application while the main application is being executed; and

(c) receiving, by the playback apparatus, from the mobile device a response information obtained by executing an auxiliary application associated with the auxiliary information,

wherein the auxiliary information includes a request for a user input,

wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information.

13. (PREVIOUSLY PRESENTED) The method according to claim 12, further comprising:

(d) running, by the playback apparatus, the main application based on the response information.

14. (CURRENTLY AMENDED) A method of running applications using a mobile device, comprising steps of:

(a) receiving, by the mobile device, from a playback apparatus executing a main application an auxiliary information required for running the main application while the main application is being executed;

(b) executing, by the mobile device, an auxiliary application associated with the auxiliary information; and

(c) processing, by the mobile device, a response information obtained by executing the auxiliary application,

wherein the auxiliary information includes a request for a user input,

wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information.
15. (PREVIOUSLY PRESENTED) The method according to claim 14, further comprising:

transmitting, by the mobile device, the response information to the playback apparatus.
REMARKS

In accordance with the foregoing, claims 1, 9, 12 and 14 have been amended, and claim 8 has been cancelled without prejudice or disclaimer. Upon entry of this amendment, claims 1-7 and 9-15 are pending and under consideration. No new matter within the meaning of 35 U.S.C. § 132 is presented in this Amendment.

REJECTIONS UNDER 35 U.S.C. § 102:

Claims 1, 6, 7, 10 and 12-15 are rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent Application Publication No. 2007/0224937 applied for by Jung et al. ("Jung").

Claims 1, 12 and 14 have been respectively amended to incorporate the features of claim 8, which was not subject to this rejection under 35 U.S.C. § 102(b). Hence, claims 1, 12 and 14 as amended are not anticipated by Jung. Claims 6, 7, 10, 13 and 15 depend from claim 1, 12 or 14, and are thus deemed allowable over Jung.

The allowability of these claims will be discussed below in view of the 35 U.S.C. § 103(a) rejection.

Based on the foregoing, the rejection of claims 1, 6, 7, 10 and 12-15 under 35 U.S.C. § 102(b) is respectfully requested to be withdrawn.

REJECTIONS UNDER 35 U.S.C. § 103:


Claims 2, 3 and 11 depend from claim 1. Collart was cited against the additional features of dependent claims 2, 3 and 11, but fails to remedy the deficiencies of Jung as noted above with regard to claim 1. Hence, assuming arguendo Jung and Collart can be combined and a reasonable expectation of success exists, the combined references still do not disclose all of the features as recited in claim 1. Accordingly, claims 2, 3 and 11 are allowable over the same prior art at least because they depend from allowable claim 1.

2. Claims 4 and 5 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Jung

Claims 4 and 5 depend from claim 1. Lee was cited against the additional features of dependent claims 4 and 5, but fails to remedy the deficiencies of Jung as noted above with regard to claim 1. Hence, assuming arguendo Jung and Lee can be combined and a reasonable expectation of success exists, the combined references still do not disclose all of the features as recited in claim 1. Accordingly, claims 4 and 5 are allowable over the same prior art at least because they depend from allowable claim 1.

3. Claims 8 and 9 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Jung. Applicant respectfully traverses this rejection.

The features of claim 8 have been incorporated into claim 1. Claim 1 as amended recites *inter alia*:

(b) transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed;

... wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information. (Emphasis added)

With respect to the above claim features, the Office Action states that paragraph [0052] of Jung teaches such features. Particularly, the Office Action refers to lines 6-9 of paragraph [0052] in which it is described that "[d]ouble tapping, represented by non-default actions 199, may be used to put the entire contents of the camera, a slideshow, and/or a menu 156 of transition effects choices on the camera style wireless device 100." This only describes the manipulation of its mobile device (e.g., the "wireless device 100"), yet fails to disclose or suggest any request for image information transmitted by its playback apparatus (e.g., the "secondary wireless devices 101") to its mobile device (e.g., the "wireless device 100"). Thus, it is clear that Jung fails to teach at least that "the auxiliary information includes a request for an image information," as recited in claim 1.

Moreover, in the presently claimed subject matter, the "auxiliary information" is
transmitted "while the main application is being executed." By contrast, in Jung, a wireless device receives from a secondary wireless device a menu for selecting the functions of the secondary wireless device. In other words, the wireless device of Jung receives information for selecting a main application to be executed in the second wireless device, but fails to receive information for executing the main application. Thus, it is respectfully submitted that Jung fails to disclose or suggest at least "transmitting, by the playback apparatus, to the mobile device an auxiliary information required for running the main application while the main application is being executed," as recited in claim 1.

Furthermore, based on the language of claim 1, as amended, the "auxiliary information" has at least the following characteristics:

(1) It is transmitted by the playback apparatus (see claim 1, "(b) transmitting, by the playback apparatus ...");

(2) It is transmitted to the mobile device (see claim 1, "(b) transmitting ... to the mobile device ...");

(3) It is required for running the main application (see claim 1, "(b) ... an auxiliary information required for running the main application ...");

(4) It is associated with the auxiliary application (see claim 1, "(c) ... an auxiliary application associated with the auxiliary information ...");

(5) It includes a request for a user input (see claim 1, "wherein the auxiliary information includes a request for a user input"); and

(6) It includes a request for an image information (see claim 1, "wherein the auxiliary information includes a request for an image information ..."); this means that the request for image information is transmitted by the playback apparatus to the mobile device).

While the Office Action concludes, on page 3, lines 3-5, that "[t]herefore, the auxiliary information can reasonably be any information required for running the main application, whether it be identification information or otherwise," and also cites, on page 3, lines 7-13, several examples described in Jung, Applicant respectfully points out that no example of the information in Jung satisfies, altogether, at least the above-identified six characteristics of the "auxiliary information" as recited in claim 1. Accordingly, it is respectfully submitted that claim 1
is allowable over Jung.

The above features of claim 8 have also been incorporated into each of claims 12 and 14, rendering claims 12 and 14 allowable over Jung. Claim 9 has been amended to depend from claim 1, and is thus allowable for at least this reason.

Based on the foregoing, this rejection is respectfully requested to be withdrawn.

CONCLUSION:

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 503333.

Respectfully submitted,

STEIN IP, LLC

Date: January 22, 2014

By: 

Registration No. 64,130

1400 Eye St., N.W.
Suite 300
Washington, D.C. 20005
Telephone: (202) 216-9505
Facsimile: (202) 216-9510
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**New Applications Under 35 U.S.C. 111**
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

claim as amended claims remaining after amendment highest number previously paid for number extra rate calculations

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Since an Official Action set an original due date of January 18, 2014, petition is hereby made for an extension to cover the date this reply is filed, for which the requisite fee is enclosed: (1 month ($200)); (2 months ($600)); (3 months ($1,400)); (4 months ($2,200)); (5 months ($3,000));

Notice of Appeal is enclosed (37 CFR 41.20(b)(1): $800.00) $0.00
Information Disclosure Statement is enclosed and fee is required (37 CFR 1.17(p): $180.00) $0.00
Total of above calculations = $0.00
Reduction by 50% for filing by small entity (37 CFR 1.27) - $0.00
Reduction by 75% for filing by micro entity (37 CFR 1.29) - $0.00
Total of above calculations = $0.00
Statutory Disclaimer is enclosed (37 CFR 1.20(d): $160.00) $0.00
TOTAL FEES DUE = $0.00

☐ A previous micro entity status is no longer appropriate and is hereby cancelled under 37 CFR 1.29(i).

method of payment

☐ Check enclosed as payment. ☐ Credit Card Payment Form, Form PTO-2038 (attached).
☐ Charge "TOTAL FEES DUE" to the Deposit Account No. below.
☐ Payment authorized and made via EFS-Web.
☒ No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).

general authorization

☒ If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:

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The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 U.S.C. § 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.

submitted by: STEIN IP, LLC

Typed Name: Sungyeop Chung
Reg. No.: 64130

Signature: [Signature]
Date: January 22, 2014
**APPLICATION AS FILED – PART I**

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**APPLICATION SIZE FEE (37 CFR 1.16(b))**

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(b).

**MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(b))**

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**APPLICATION AS AMENDED – PART II**

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**TOTAL ADD'L FEE** 0

**AMENDMENT**

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**APPLICATION SIZE FEE (37 CFR 1.16(b))**

**FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(b))**

**TOTAL ADD'L FEE**

**STELLALITTLE**

* 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.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

docketing@steinip.com
Office Action Summary

Application No. 12/819,272
Applicant(s) BAEK, WONJANG
Examiner ERICA NAVAR
Art Unit 2643
AIA (First Inventor to File) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO reply is received by the Office within three months after the mailing date of this communication, then the application may become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office after three months but within the remainder of the法定 time period will be subject to the statutory delay penalties that apply to late replies.

Any reply received by the Office after 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 10/24/12.
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) 1-15 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) 1-15 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 6/21/10 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/08)
   Paper No(s)/Mail Date ______.
3) ☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date: ______.
4) ☐ Other: ______.
DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant’s submission filed on 24 October 2012 has been entered.

Response to Amendment

3. The amendment filed on 24 October 2012 has been entered and fully considered.

4. Claims 1-15 are pending.

5. The amendment is fully supported by the specification.

Response to Arguments

6. Applicant's arguments filed 24 October 2012 have been fully considered but they are not persuasive. Applicant argues that the identification information is not inherently present in Jung. Applicant is reminded that during patent examination, the claims are given the broadest reasonable interpretation consistent with the specification. See In re Morris, 127 F.3d 1048, 44
USPQ2d 1023 (Fed. Cir. 1997). Upon further consideration, the auxiliary information recited in the claim is described in the specification as various information[s] required for running the main application (Page 8, paragraph 4). Therefore, the auxiliary information can reasonably be any information required for running the main application, whether it be identification information or otherwise. The examiner would like to correct previous statements that the auxiliary information is limited to identification information. The auxiliary information can be any information sent to run the application, including but not limited to identification information. Examples from Jung include transferring the user interface of the MP3 player (para 0051), displaying a menu of operations supported by one or more secondary wireless devices in proximity (para 0053), providing an aggregate user interface for all the home audio and video related systems (para 0054), functions available on secondary wireless devices (para 0077), function for one or more of secondary wireless devices identified (para 0078), or properties, attributes, or sub-component for one or more of the secondary wireless device (para 0079).
Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. **Claims 1, 6-7, 10, and 12-15 are rejected under 35 U.S.C. 102(b) as being anticipated by US 2007/0224937 A1 to Jung et al. (hereinafter, ‘Jung’)**

**Regarding Claims 1, 10, 12, and 14.** Jung discloses a method for running applications using a mobile device and a playback apparatus (Fig. 1), the method comprising steps of:

(a) executing a main application in the playback apparatus (Fig. 1, para 0044 -- secondary wireless devices with various operations, user device);

(b) transmitting to the mobile device an auxiliary information required for running the main application (para 0044 -- establishes communication with user device; para 0046 -- wireless link established; para 0053 -- displays menu of secondary wireless devices in proximity; para 0077 -- identifies functions available on secondary wireless devices; para 0078 -- function for one or more of secondary wireless devices identified; para 0079 -- property, attribute, or sub-component for one or more of the secondary wireless device (Examiner note - a variety of information is sent between the secondary wireless devices to the mobile device in order to determine which menus to present (i.e. auxiliary information));

(c) executing an auxiliary application associated with the auxiliary information in the mobile device (Fig. 2, para 0048 -- aggregate user interface; para 0053 -- menu of operations supported by the secondary wireless devices; para 0068 -- plurality of menus); and
(d) processing a response information obtained in the mobile device by executing the auxiliary application (para 0007 -- user interface used to control devices; para 0043 --- controls devices in proximity; para 0117),

wherein the auxiliary information includes a request for user input (Fig. 2, para 0039 -- non-default actions; para 0046 -- user selection).

Regarding Claim 6, Jung discloses the method in accordance with claim 1. Jung further discloses wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input (para 0039 -- wireless device used to implement user interface includes keyboard; para 0046 -- user selection; para 0099, 0101 -- key-related inputs from user).

Regarding Claims 7 and 15, Jung discloses the method in accordance with claim 6. Jung further discloses wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus (para 0007 -- user interface for controlling other device, therefore, must send commands back to the playback apparatus; para 0039 -- wireless device used to implement user interface includes keyboard; para 0046 -- user selection; para 0058 -- available actions).

Regarding Claims 10 and 13, Jung discloses the method in accordance with claim 1. Jung further discloses further comprising (e) running by the playback apparatus the main application based on the response information (para 0007 -- user interface used to control devices; para 0041 -- can control (execute/run applications on home audio or video systems, other devices, etc.); para 0043 --- controls devices in proximity).
Claim Rejections - 35 USC § 103

9. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

10. **Claims 2-3 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jung in view of US 2009/0150553 A1 to COLLART et al. (hereinafter, 'Collart').**

**Regarding Claim 2.** Jung discloses the method in accordance with claim 1. Jung does not specifically disclose wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL. However, Collart discloses wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL (para 0176 -- secondary device can be controlled through trigger activations to activate a network browser to access sites or pages in response to content being displayed in a primary device, URL can be pushed from primary device to secondary device; para 0179 -- internet site addresses forwarded to secondary device, web page accessed through secondary device, access based on URL). At the time of the invention, it would have been obvious for one of ordinary skill in the art to modify Jung to include the limitations disclosed by Collart, because such limitations allow additional content to be presented to the user as a promotional feature to encourage customer purchases, to provide additional content to consumers, or to enhance a user experience (para 0175, 0179).

**Regarding Claim 3.** Jung and Collart disclose the method in accordance with claim 2. Collart further discloses wherein the step (d) comprises displaying a web page associated with
the URL on a screen of the mobile device (para 0176 -- secondary device can be controlled through trigger activations to activate a network browser to access sites or pages in response to content being displayed in a primary device, URL can be pushed from primary device to secondary device; para 0177 -- device can be a wireless phone; para 0179 -- internet site addresses forwarded to secondary device, web page accessed through secondary device, access based on URL).

**Regarding Claim 11.** Jung discloses the method in accordance with claim 1, but does not specifically disclose discloses wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification; however, Collart discloses wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification (para 0065). At the time of the invention, it would have been obvious for one of ordinary skill in the art to modify Jung which discloses home audio and video related systems and DVD players (para 0054), to substitute the limitations disclosed by Collart, because such limitations are notoriously well known in the art, and are commonly used as DVD players, and because it would have been obvious to use from a finite number of devices available to consumers that may be used as DVD players.

11. **Claims 4 and 5 are rejected under 35 U.S.C. 103(a)** as being unpatentable over Jung in view of US 20080207115 A1 to Lee et al. (hereinafter, ‘Lee’).

**Regarding Claim 4.** Jung discloses the method in accordance with claim 1, but does not specifically disclose wherein the auxiliary information includes a request for a location information, and wherein the step (c) comprises executing the auxiliary application including a GPS (Global Positioning System) application to acquire the location information. However, Lee
discloses wherein the auxiliary information includes a request for a location information, and
wherein the step (c) comprises executing the auxiliary application including a GPS (Global
Positioning System) application to acquire the location information (para 0028 -- requests
location information, receives response message; para 0030 -- GPS, location sensing unit).

At the time of the invention, it would have been obvious for one of ordinary skill in the
art to modify Jung to include the limitations disclosed by Lee, because such limitations allow
devices to determine the relative location between each other in order to transmit information
between the devices (see para 0014, 0025 of Lee; also see Jung, para 0060)

Regarding Claim 5, Jung and Lee disclose the method in accordance with claim 4. Lee
further discloses wherein the step (d) comprises transmitting the response information including
the location information to the playback apparatus (para 0028, receives response message with
location information).

12. **Claims 8 and 9 are rejected under 35 U.S.C. 103(a)** as being unpatentable over Jung in
view of a second embodiment of Jung.

Regarding Claim 8, Jung discloses the method in accordance with claim 1. In a second
embodiment, Jung discloses wherein the auxiliary information includes a request for an image
information, and wherein the step (c) comprises executing the auxiliary application including an
image generation application to generate the image information (para 0052 -- double-tapping can
place camera contests, slideshow, or menu of effects choices on camera style wireless device).

At the time of the invention, it would have been obvious for one of ordinary skill in the
art to modify Jung to include the limitations disclosed by the second embodiment of Jung,
because such limitations allow devices to share information and resources, and allow the control and coordination of several devices (see Jung, para 0046, 0048, for example).

**Regarding Claim 9.** Jung discloses the method in accordance with claim 8. Jung further discloses wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus (para 0052 -- current viewfinder image can be placed on photo frame, can be done by tapping).

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERICA NAVAR whose telephone number is (571)270-5888. The examiner can normally be reached on Monday-Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Jinsong Hu can be reached on (571) 272-3965. 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.

ERICA NAVAR
Examiner
Art Unit 2643

/ERICA NAVAR/
Examiner, Art Unit 2643

/MARISOL FIGUEROA/
Primary Examiner, Art Unit 2643
## U.S. Patent Documents

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## Non-Patent Documents

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* A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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

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**Examiner**

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49455 7590 11/20/2012
STEIN MCEWEN, LLP
1400 EYE STREET, NW
SUITE 300
WASHINGTON, DC 20005

EXAMINER
NAVAR, ERICA
ART UNIT
2643
PAPER NUMBER

NOTIFICATION DATE DELIVERY MODE
11/29/2012 ELECTRONIC

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

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):
docketing@smiplaw.com
**Applicant-Initiated Interview Summary**

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<th>Applicant(s)</th>
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All participants (applicant, applicant’s representative, PTO personnel):

(1) **ERICA NAVAR**.  
(2) **Sungyeop Chung, Reg #64,130**.  
(3) **AJIT PATEL, Primary Examiner**.  
(4) ****.

**Date of Interview:** 10 October 2012.

**Type:**
- [ ] Telephonic  
- [ ] Video Conference  
- [x] Personal [copy given to: [ ] applicant  
- [ ] applicant’s representative]

**Exhibit shown or demonstration conducted:**
- [ ] Yes  
- [x] No.

**Issues Discussed**
- [ ] 101  
- [ ] 112  
- [ ] 102  
- [x] 103  
- [ ] Others

(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

**Claim(s) discussed:** 1.


**Substance of Interview**

(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

*Discussed limitations of claim 1 and examiner provided further support for these rejections, particularly the limitations in the attached agenda. Examiner explained that the identification information is required for running the application, since that information will be used by the user interface to determine whether the user interface displayed should be a user interface for a printe, for example, or for another type of device. Applicant had further arguments regarding dependent claims, which Examiner requested be filed in a formal response. No agreement was reached.*

---

**Applicant recordation instructions:** The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

**Examiner recordation instructions:** Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.
Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR § 1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No action will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner’s responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No. placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant’s correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

1) A brief description of the nature of any exhibit shown or any demonstration conducted,

2) an identification of the claims discussed,

3) an identification of the specific prior art discussed,

4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,

5) a brief identification of the general thrust of the principal arguments presented to the examiner. (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)

6) a general indication of any other pertinent matters discussed, and

7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner’s version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, “Interview Record OK” on the paper recording the substance of the interview along with the date and the examiner's initials.
APPLICANT INITIATED INTERVIEW REQUEST FORM

Application No.: 12/819,272
First Named Applicant: Wonjang BAEK
Examiner: Erica Navar
Art Unit: 2617
Status of Application: Final Office Action issued August 24, 2012

Tentative Participants:
(1) Sungyeop Chung (Reg. No. 64,130)
(2) 
(3) 
(4) 

Scheduled Date of Interview: October 10, 2012
Scheduled Time: 11 am

Type of Interview Requested:
(1) [ ] Telephonic  (2) [X] Personal  (3) [ ] Video Conference

Exhibit To Be Shown or Demonstrated: [X] YES  [ ] NO
If yes, provide brief description: Preliminary Arguments Regarding the Rejections

ISSUES TO BE DISCUSSED

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[ ] Continuation Sheet Attached

Brief Description of Arguments to be Presented:

(1) As shown on the attached Arguments; and
(2) Potential amendments by the Examiner.

An interview was conducted on the above-identified application on .

NOTE:
This form should be completed by applicant and submitted to the examiner in advance of the interview (see MPEP § 713.01). This application will not be delayed from issue because of applicant’s failure to submit a written record of this interview. Therefore, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible.

Sungyeop Chung, 64,130
(Examiner/SPE Signature)

This collection of information is required by 37 CFR 1.133. 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 26 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO. Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with strikethrough. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

No claim has been amended by this paper. The list of the pending claims is as follows:

1. (PREVIOUSLY PRESENTED) A method for running applications using a mobile device and a playback apparatus, the method comprising steps of:
   (a) executing a main application in the playback apparatus;
   (b) transmitting to the mobile device an auxiliary information required for running the main application;
   (c) executing an auxiliary application associated with the auxiliary information in the mobile device; and
   (d) processing a response information obtained in the mobile device by executing the auxiliary application.

2. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL.

3. (ORIGINAL) The method in accordance with claim 2, wherein the step (d) comprises displaying a web page associated with the URL on a screen of the mobile device.

4. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes a request for a location information, and wherein the step (c) comprises
executing the auxiliary application including a GPS (Global Positioning System) application to acquire the location information.

5. (ORIGINAL) The method in accordance with claim 4, wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus.

6. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes a request for a user input, and wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input.

7. (ORIGINAL) The method in accordance with claim 6, wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus.

8. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information.

9. (ORIGINAL) The method in accordance with claim 8, wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus.

10. (ORIGINAL) The method in accordance with claim 1, further comprising (e) running the main application based on the response information.

11. (ORIGINAL) The method in accordance with claim 1, wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification.
12. (PREVIOUSLY PRESENTED) A method of running applications using a playback apparatus, comprising steps of:

(a) executing a main application by the playback apparatus;

(b) transmitting, by the playback apparatus, to a mobile device an auxiliary information required for running the main application; and

(c) receiving, by the playback apparatus, from the mobile device a response information obtained by executing an auxiliary application associated with the auxiliary information.

13. (PREVIOUSLY PRESENTED) The method according to claim 12, further comprising:

(d) running, by the playback apparatus, the main application based on the response information.

14. (PREVIOUSLY PRESENTED) A method of running applications using a mobile device, comprising steps of:

(a) receiving, by the mobile device, from a playback apparatus executing a main application an auxiliary information required for running the main application;

(b) executing, by the mobile device, an auxiliary application associated with the auxiliary information; and

(c) processing, by the mobile device, a response information obtained by executing the auxiliary application.

15. (PREVIOUSLY PRESENTED) The method according to claim 14, further comprising:

transmitting, by the mobile device, the response information to the playback apparatus.
REMARKS

No claim has been amended by this paper. Currently, claims 1-15 are pending and under consideration.

REJECTIONS UNDER 35 U.S.C. §102:

Claims 1, 6, 7, 10 and 12-15 are rejected under 35 U.S.C. §102(a) and §102(b) as allegedly being anticipated by Jung (U.S. Publication No. 2007/0224937). Applicant respectfully traverses this rejection.


Claim 1, as amended, recites, inter alia:

(b) transmitting to the mobile device an auxiliary information required for running the main application; ...

(emphasis added)

As to the claim features above, the Office Action asserts that "[the secondary wireless devices] must inherently send identification information for user to know what type of device is nearby as in para 0077" (see the Office Action, page 2, item 5, last paragraph). It is clear that the Examiner considers the "identification information," as allegedly implied in Jung, as teaching the "auxiliary information" as recited in claim 1. However, Applicant respectfully notes that even if the "identification information" is inherently present in Jung, as alleged by the Examiner, the "identification information" is not information that is "required for running the main application" as recited in claim 1. Specifically, as conceded by the Office Action, page 2, item 5, last paragraph, the "identification information" should be information to identify "what type of device is nearby."
Hence, this “identification information” of the type of a nearby device is not required in the operations of the secondary wireless devices, which allegedly teach “executing a main application in the playback apparatus” as recited in claim 1 (see the Office Action, page 2, item 5, the penultimate paragraph). For instance, the operation of the printer, which is illustrated as one of the secondary wireless devices 101 in Fig. 1 of Jung, can be performed without using the identification information of the printer by, for example, manually selecting operation buttons on the printer. Therefore, it is respectfully submitted that Jung fails to teach or suggest at least “transmitting to the mobile device an auxiliary information required for running the main application,” as recited in claim 1.

Since Jung fails to disclose each and every feature recited in claim 1, Applicant respectfully submits that Jung does not anticipate claim 1. Independent claims 12 and 14 recite the features similar to those of claim 1 as discussed, and are thus allowable for at least this reason. Claims 6, 7, 10, 13 and 15 depend directly or indirectly from allowable claim 1, 12 or 14, and are thus allowable for at least this reason.

In view of the foregoing, withdrawal of the rejection of claims 1, 6, 7, 10 and 12-15 under 35 U.S.C. §102(b) is thus respectfully requested.

REJECTIONS UNDER 35 U.S.C. §103:

Claims 2, 3 and 11 are rejected under 35 U.S.C. §103(a) as being unpatentable over Jung in view of Lejeune (U.S. Publication No. 2009/0180398); Claims 8 and 9 are rejected under 35 U.S.C. §103(a) as being unpatentable over Jung in view of Camp, Jr. (U.S. Publication No. 2005/0215283); and Claims 4 and 5 are rejected under 35 U.S.C. §103(a) as being unpatentable over Jung in view of Lee et al. (U.S. Publication No. 2008/0207115). Applicant respectfully traverses this rejection.

Claims 2-5, 8, 9 and 11 depend directly or indirectly from claim 1. The secondary references, Lejeune, Camp, Jr., and Lee et al., were cited by the Office Action against the additional features recited in dependent claims 2-5, 8, 9 and 11, but fail to cure the deficiencies of Jung as noted above with regard to claim 1. Hence, assuming, arguendo, Jung and one of the secondary references may be combined and a reasonable expectation of success exists, this combination still fails to teach all of the features recited in claim 1. Accordingly, it is respectfully submitted that claims 2-5, 8, 9 and 11 are allowable over the cited references.
REQUEST FOR CONTINUED EXAMINATION (RCE)
TRANSMITTAL
(INCLUDING FILING FEE AND/OR PETITION FOR
EXTENSION OF TIME FEE)

Subsection (b) of 35 U.S.C. §132, effective May 29, 2000
provides for continued examination of a utility or plant application
filed on or after June 8, 1995.
See The American Inventors Protection Act of 1999 (AIPA)

To: Commissioner for Patents
   Box RCE
   P.O. Box 1450
   Alexandria, VA 22313-1450

   Attorney Docket No.: 0366.1005

First Named Inventor
Wonjang BAEK

Application No. 12/819,272

Group Art Unit 2643

Filing Date June 21, 2010

Examiner Erica Navar

CPA Filing Date

Confirmation No 9757

Title of Invention METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND
PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

This is a Request for Continued Examination (RCE) under 37 C.F.R. §1.114 of the above-identified application.

1. Submission required under 37 C.F.R. 1.114 (Box a or b must be completed)
   a. ☒ Previously submitted
      i. ☒ Consider the amendment(s)/reply under 37 C.F.R. § 1.116 previously filed on 10/24/12
         (Any un-entered amendment(s) referred to above will be entered).
      ii. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on ______
      iii. ☐ Other: ___
   b. ☐ Enclosed
      i. ☐ Amendment/Reply
      ii. ☐ Affidavit(s)/Declaration(s)
      iii. ☐ Information Disclosure Statement (IDS)
      iv. ☐ Other: ___

2. Miscellaneous
   a. ☐ Suspension of action on the above-identified application is requested under 37 C.F.R.
      103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee
      under 37 C.F.R. 1.17(i) required).
   b. ☐ Other: ____
Since an Official Action set an original due date of __, petition is hereby made for an extension of time to cover the date this RCE is filed, for which the requisite fee is enclosed (1 month ($150); 2 months ($570); 3 months ($1,290); 4 months ($2,010); 5 months ($2,730)):

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Suspension Fee ($130.00) $ 

Total of above Calculations = $930.00

Reduction by 50% for filing by small entity (Note 37 C.F.R. 1.9, 1.27, 1.28)

Reduction by 75% for filing by micro entity (37 C.F.R. 1.23(a)(1))

TOTAL FEES DUE = $930.00

4. [ ] Small entity status:
   a. [ ] is now claimed.
   b. [ ] was previously claimed and such status is still proper and desired.
   c. [ ] is no longer claimed.

5. [ ] Other: __

6. METHOD OF PAYMENT

[ ] A check in the amount of $ _ is enclosed.
[ ] Credit Card Payment Form PTO-2038 (attached).
[ ] Charge "TOTAL FEES DUE" to Deposit Account No. 503333. (A duplicate copy of this form is enclosed.)

7. GENERAL AUTHORIZATION

[ ] The Commissioner is hereby authorized to credit any overpayment or charge any additional fees under 37 C.F.R. 1.16 (filing fees) or 37 C.F.R. 1.17 (processing fees) during the prosecution of this application and of any related application(s) claiming benefit hereof pursuant to 35 U.S.C. § 120 to maintain pendency hereof and of any such related application to:

Deposit Account No. 503333

8. CORRESPONDENCE ADDRESS

STEIN MCEWEN, LLP
49,455
PATENT TRADEMARK OFFICE

9. SIGNATURE OF ATTORNEY OR AGENT REQUIRED

NAME Sungyeop Chung
REGISTRATION NO. 64,130

SIGNATURE Sungyeop
DATE 11/20/12
**Electronic Patent Application Fee Transmittal**

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Filed as Large Entity

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

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Information:

**Total Files Size (in bytes):** 284360

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

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

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

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

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

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

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.
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49455  7590  11/07/2012
STEIN MCEWEN, LLP
1400 EYE STREET, NW
SUITE 300
WASHINGTON, DC 20005

EXAMINER

NAVAR, ERICA

ART UNIT  PAPER NUMBER
2643

NOTIFICATION DATE  DELIVERY MODE
11/07/2012  ELECTRONIC

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

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@smiplaw.com
Advisory Action
Before the Filing of an Appeal Brief

Applicant(s)  
BAEK, WONJANG

Examiner  
ERICA NAVAR

Art Unit  
2643

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

THE REPLY FILED 24 October 2012 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☒ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:
   a) ☐ The period for reply expires ______ months from the mailing date of the final rejection.
   b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later.
   In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
   c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires ______ months from the mailing date of the prior Advisory Action or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.

Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANT’S FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on ______. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)); or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☒ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
   b) ☐ They raise the issue of new matter (see NOTE below);
   c) ☒ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: ______ (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. ☐ Applicant’s reply has overcome the following rejection(s): ______.

6. ☐ Newly proposed or amended claim(s) ______ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. ☐ For purposes of appeal, the proposed amendment(s): (a) ☐ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

9. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:

   See Continuation Sheet.

12. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). ______

13. ☐ Other: ______

STATUS OF CLAIMS

14. The status of the claim(s) is (or will be) as follows:

   Claim(s) allowed: ______
   Claim(s) objected to: ______
   Claim(s) rejected: 1-15.

   Claim(s) withdrawn from consideration: ______

/MARISOL FIGUEROA/
Primary Examiner, Art Unit 2643

U.S. Patent and Trademark Office
PTOL-303 (Rev. 09-2010) Part of Paper No. 20121101
Continuation of 11. does NOT place the application in condition for allowance because: Applicant argues that step (c) is not disclosed by Lejeune. The applicant further argues that no teaching or suggestion is found in Lejeune that the service application may be executed in the source device and that the examiner cited para 0037 of Lejeune. However, the examiner cited para 0048 and Fig. 2 of Jung for this particular limitation. Applicant further argues that examiner cited Fig. 2 of Lejeune as disclosing step (d). However, the examiner cited para 0007 of Jung (see Office Action mailed 24 August, 2012, top of page 3). Similarly, the examiner cited Jung, para 0044 as disclosing step (b) in the same Office Action.
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Wonjang Baek

Application No. 12/819,272

Confirmation No. 9757

Filed: June 21, 2010

For: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

PROPOSED AMENDMENT

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

Sir:

This is in response to the Office Action mailed August 24, 2012, and having a period for response set to expire on November 24, 2012.

Reconsideration of the claims is respectfully requested. The following remarks are respectfully submitted.
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Wonjang Baek

Application No. 12/819,272

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PROPOSED AMENDMENT

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P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This is in response to the Office Action mailed August 24, 2012, and having a period for response set to expire on November 24, 2012.

Reconsideration of the claims is respectfully requested. The following remarks are respectfully submitted.
IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with strikethrough. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND Claims 1, 6, 12 and 14, in accordance with the following:

1.  (CURRENTLY AMENDED) A method for running applications using a mobile device and a playback apparatus, the method comprising steps of:
   (a) executing a main application in the playback apparatus;
   (b) transmitting to the mobile device an auxiliary information required for running the main application;
   (c) executing an auxiliary application associated with the auxiliary information in the mobile device; and
   (d) processing a response information obtained in the mobile device by executing the auxiliary application,

     wherein the auxiliary information includes a request for a user input.

2.  (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL.

3.  (ORIGINAL) The method in accordance with claim 2, wherein the step (d) comprises displaying a web page associated with the URL on a screen of the mobile device.

4.  (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes a request for a location information, and wherein the step (c) comprises
executing the auxiliary application including a GPS (Global Positioning System) application to acquire the location information.

5. (ORIGINAL) The method in accordance with claim 4, wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus.

6. (CURRENTLY AMENDED) The method in accordance with claim 1, wherein the auxiliary information includes a request for a user input, and wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input.

7. (ORIGINAL) The method in accordance with claim 6, wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus.

8. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information.

9. (ORIGINAL) The method in accordance with claim 8, wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus.

10. (ORIGINAL) The method in accordance with claim 1, further comprising (e) running the main application based on the response information.

11. (ORIGINAL) The method in accordance with claim 1, wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification.
12. (CURRENTLY AMENDED) A method of running applications using a playback apparatus, comprising steps of:

(a) executing a main application by the playback apparatus;

(b) transmitting, by the playback apparatus, to a mobile device an auxiliary information required for running the main application; and

(c) receiving, by the playback apparatus, from the mobile device a response information obtained by executing an auxiliary application associated with the auxiliary information,

wherein the auxiliary information includes a request for a user input.

13. (PREVIOUSLY PRESENTED) The method according to claim 12, further comprising:

(d) running, by the playback apparatus, the main application based on the response information.

14. (CURRENTLY AMENDED) A method of running applications using a mobile device, comprising steps of:

(a) receiving, by the mobile device, from a playback apparatus executing a main application an auxiliary information required for running the main application;

(b) executing, by the mobile device, an auxiliary application associated with the auxiliary information; and

(c) processing, by the mobile device, a response information obtained by executing the auxiliary application,

wherein the auxiliary information includes a request for a user input.

15. (PREVIOUSLY PRESENTED) The method according to claim 14, further comprising:
transmitting, by the mobile device, the response information to the playback apparatus.
REMARKS

In accordance with the foregoing, claims 1, 6, 12 and 14 have been amended. Claims 1, 12 and 14 have been amended to incorporate in part the features of claim 6. Upon entry of this amendment, claims 1-15 are pending and under consideration. No new matter within the meaning of 35 U.S.C. §132 is presented in this Amendment.

REJECTIONS UNDER 35 U.S.C. §102:

Claims 1, 6, 7, 10 and 12-15 are rejected under 35 U.S.C. §102(a) and §102(b) as allegedly being anticipated by Jung (U.S. Publication No. 2007/0224937). Applicant respectfully traverses this rejection.


Claim 1, as amended, recites, inter alia:

(b) transmitting to the mobile device an auxiliary information required for running the main application;

... wherein the auxiliary information includes a request for a user input (emphasis added)

As to the claim features above, the Office Action asserts that "[the secondary wireless devices] must inherently send identification information for user to know what type of device is nearby as in para 0077" (see the Office Action, page 2, item 5, last paragraph). In other words, the Examiner considers the "identification information" is inherently present in Jung, and which
teaches the "auxiliary information" as recited in claim 1. With regard to this reasoning based on inherency of the missing element in Jung, the Examiner is respectfully advised to consider the following factors:

"To establish inherency, the extrinsic evidence, 'must make clear that the missing descriptive matter is necessarily present in the thing described in the reference, and that it would be so recognized by persons of ordinary skill in the art." In re Robertson, 169 F.3d 743, 745, 49 USPQ2d, 1949, 1950-51 (Fed. Cir. 1999) (citations omitted). "In relying upon the theory of inherency, the Examiner must provide a basis in fact and/or technical reasoning to reasonably support the determination that the allegedly inherent characteristic necessarily flows from the teachings of the applied prior art." Ex parte Levy, 17 UiSPQ2d 1461, 1464 (Bd. Pat. App. & Inter. 1990) (emphasis in original). "The fact that a certain result or characteristic may occur or be present in the prior art is not sufficient to establish the inherency of that result or characteristic." MPEP § 2112. IV (citing to In re Rijckaert, 9 F.3d 1531, 1534, (Fed. Cir. 1993)) (emphasis added).

Back in claim 1, as conceded by the Office Action, page 2, item 5, last paragraph, the "identification information" should be information to identify "what type of device is nearby." Since the "identification information" is information for user to know what type of device is nearby, as noted by the Examiner, it does not necessarily include a "request for a user input," as recited in claim 1. Although the aggregate user interface 155 shown in Fig. 2 of Jung, which the Office Action asserts teaches the "auxiliary application" recited in claim 1, displays a variety of user selection options associated with the allegedly implied "identification information" in Jung, no teaching or suggestion is found in Jung that this "identification information" necessarily includes a "request for a user input" as recited in claim 1. For example, the aggregate user interface 155 in Fig. 2 of Jung displays the "Honda Civic" under which several options, "Open Locks," "Activate Interior Lights," "Select radio station," and "Activate heating system," are listed. However, these user selection options could be downloaded onto the wireless device 100 through different ways from being included in the "identification information on what type of device is nearby," which is transmitted to the wireless device 100. Therefore, it is clear that the allegedly implied "identification information" of Jung does not necessarily include any user selection options. Accordingly, it is respectfully submitted that Jung fails to teach or suggest at least "transmitting to the mobile device an auxiliary information required for running the main application ... wherein the auxiliary information includes a request for a user input," as recited in
claim 1.

Since Jung fails to disclose each and every feature recited in claim 1, Applicant respectfully submits that Jung does not anticipate claim 1. Independent claims 12 and 14 recite the features similar to those of claim 1 as discussed, and are thus allowable for at least this reason. Claims 6, 7, 10, 13 and 15 depend directly or indirectly from allowable claim 1, 12 or 14, and are thus allowable for at least this reason.

In view of the foregoing, withdrawal of the rejection of claims 1, 6, 7, 10 and 12-15 under 35 U.S.C. §102(b) is thus respectfully requested.

REJECTIONS UNDER 35 U.S.C. §103:

Claims 2, 3 and 11 are rejected under 35 U.S.C. §103(a) as being unpatentable over Jung in view of Lejeune (U.S. Publication No. 2009/0180398); Claims 8 and 9 are rejected under 35 U.S.C. §103(a) as being unpatentable over Jung in view of Camp, Jr. (U.S. Publication No. 2005/0215283); and Claims 4 and 5 are rejected under 35 U.S.C. §103(a) as being unpatentable over Jung in view of Lee et al. (U.S. Publication No. 2008/0207115). Applicant respectfully traverses this rejection.

Claims 2-5, 8, 9 and 11 depend directly or indirectly from claim 1. The secondary references, Lejeune, Camp, Jr., and Lee et al., were cited by the Office Action against the additional features recited in dependent claims 2-5, 8, 9 and 11, but fail to cure the deficiencies of Jung as noted above with regard to claim 1. Hence, assuming, arguendo, Jung and one of the secondary references may be combined and a reasonable expectation of success exists, this combination still fails to teach all of the features recited in claim 1. Accordingly, it is respectfully submitted that claims 2-5, 8, 9 and 11 are allowable over the cited references, whether taken alone or in any combination thereof at least because they depend from allowable claim 1.

In view of the foregoing, withdrawal of the rejection of claims 2-5, 8, 9 and 11 under 35 U.S.C. §103(a) is respectfully requested.
CONCLUSION:

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 503333.

Respectfully submitted,

STEIN MCEWEN, LLP

Date: October 24, 2012

By: [Signature]

1400 Eye St., N.W.
Suite 300
Washington, D.C. 20005
Telephone: (202) 216-9505
Facsimile: (202) 216-9510

Registration No.: 64,130
# Electronic Acknowledgement Receipt

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**Title of Invention:** METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

| **First Named Inventor/Applicant Name:** | Wonjang BAEK |
| **Customer Number:**                    | 49455       |
| **Filer:**                               | Sungyeop Chung |
| **Filer Authorized By:**                 |             |
| **Attorney Docket Number:**             | 0366.1005   |
| **Receipt Date:**                        | 24-OCT-2012 |
| **Filing Date:**                         | 21-JUN-2010 |
| **Time Stamp:**                          | 21:35:08    |
| **Application Type:**                    | Utility under 35 USC 111(a) |

## Payment information:

Submitted with Payment

- yes [ ]
- no [X]

## File Listing:

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Warnings:

Information:

Total Files Size (in bytes): 905846

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.
**REPLY/AMENDMENT FEE TRANSMITTAL**

**FEE CALCULATION (fees effective 10/05/2012)**

<table>
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Since an Official Action set an original due date of , a petition is hereby made for an extension to cover the date this reply is filed for which the requisite fee is enclosed (1 month ($150)); (2 months ($570)); (3 months ($1,290)); (4 months ($2,010)); (5 months ($2,730)):

If Notice of Appeal is enclosed, add ($630.00) $  
If Statutory Disclaimer under Rule 20(d) is enclosed, add fee ($140.00) $  
Information Disclosure Statement (Rule 1.17(p)) ($180.00) $  
Total of above Calculations = $ 0.00  
Reduction by 50% for filing by small entity (37 CFR 1.9, 1.27 & 1.28) $  
Reduction by 75% for filing by micro entity (37 CFR 1.23(a)(1)) $  
TOTAL FEES DUE = $ 0.00

(1) If entry (1) is less than entry (2), entry (3) is "0".  
(2) If entry (2) is less than 20, change entry (2) to "20".  
(3) If entry (4) is less than entry (5), entry (6) is "0".  
(5) If entry (5) is less than 3, change entry (5) to "3".

**METHOD OF PAYMENT**

☐ Check enclosed as payment. ☐ Credit Card Payment Form, Form PTO-2038 (attached).

☐ Charge "TOTAL FEES DUE" to the Deposit Account No. below.

☐ No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).

**GENERAL AUTHORIZATION**

☒ If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:

Deposit Account No. 503333
Deposit Account Name STEIN MCEWEN, LLP

☒ The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC § 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.

SUBMITTED BY: STEIN MCEWEN, LLP

Typed Name Sungyeop Chung  Reg. No. 64130
Signature [Signature] Date October 24, 2012
**PATENT APPLICATION FEE DETERMINATION RECORD**

**APPLICATION AS FILED – PART I**

<table>
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- **BASIC FEE**
  - 37 CFR 1.16(a), (b), or (c)
  - N/A

- **SEARCH FEE**
  - 37 CFR 1.16(b), (i), or (m)
  - N/A

- **EXAMINATION FEE**
  - 37 CFR 1.16(g), (p), or (q)
  - N/A

- **TOTAL CLAIMS**
  - 37 CFR 1.16(i)
  - minus 20 = *

- **INDEPENDENT CLAIMS**
  - 37 CFR 1.16(i)
  - minus 3 = *

- **APPLICATION SIZE FEE**
  - 37 CFR 1.16(a)
  - If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

- **MULTIPLE DEPENDENT CLAIM PRESENT**
  - 37 CFR 1.16(j)

* If the difference in column 1 is less than zero, enter "0" in column 2.

**APPLICATION AS AMENDED – PART II**

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- **CLAIMS REMAINING AFTER AMENDMENT**
  - Total 37 CFR 1.16(i)
  - 15
  - Independent 37 CFR 1.16(i)
  - 3

- **HIGHEST NUMBER PREVIOUSLY PAID FOR**
  - Minus 20
  - Minus 3

- **PRESENT EXTRA**
  - 0
  - 0

- **FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM PER 37 CFR 1.16(j)**

**LEGAL INSTRUMENT EXAMINER:**

**MARCIA GORDON**

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

docketing@smiplaw.com
Office Action Summary

Application No. 12/819,272
Applicant(s) BAEK, WONJANG
Examiner ERICA NAVAR
Art Unit 2617

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

Period for Reply

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

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

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

Status

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

Disposition of Claims

5)☒ Claim(s) 1-15 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) 1-15 is/are rejected.
8)☐ Claim(s) ______ is/are objected to.
9)☐ Claim(s) ______ are subject to restriction and/or election requirement.

Application Papers

10)☐ The specification is objected to by the Examiner.
11)☒ The drawing(s) filed on 21 June 2010 is/are: a)☒ accepted or b)☐ objected to by the Examiner.

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

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

Priority under 35 U.S.C. § 119

13)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a)☒ All  b)☐ Some * c)☐ None of:
   1.☐ Certified copies of the priority documents have been received.
   2.☐ Certified copies of the priority documents have been received in Application No. ______.
   3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

1)☐ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson’s Patent Drawing Review (PTO-948)
3)☐ Information Disclosure Statement(s) (PTO/SB/08)
   Paper No(s)/Mail Date ______.

4)☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date ______.

5)☐ Notice of Informal Patent Application
6)☐ Other: ______.
DETAILED ACTION

Response to Amendment

1. The amendment filed on 31 May, 2012, has been entered and fully considered.

2. Claims 1-14 are pending, of which claims 12-15 are new.

3. The amendment is fully supported by the specification.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1, 6-7, 10, and 12-15 are rejected under 35 U.S.C. 102(b) as being anticipated by US 2007/0224937 A1 to Jung et al. (hereinafter, ‘Jung’)

Regarding Claims 1, 10, 12, and 14. Jung discloses a method for running applications using a mobile device and a playback apparatus (Fig. 1), the method comprising steps of:

(a) executing a main application in the playback apparatus (Fig. 1, para 0044 -- secondary wireless devices with various operations, user device);

(b) transmitting to the mobile device an auxiliary information required for running the main application (para 0044 -- establishes communication with user device; must inherently send identification information for user to know what type of device is nearby as in para 0077);
(c) executing an auxiliary application associated with the auxiliary information in the mobile device (Fig. 2, para 0048 -- aggregate user interface); and

(d) processing a response information obtained in the mobile device by executing the auxiliary application (para 0007 -- user interface used to control devices; para 0043 -- controls devices in proximity; para 0117).

Regarding Claim 6. Jung discloses the method in accordance with claim 1. Jung further discloses wherein the auxiliary information includes a request for a user input, and wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input (para 0039 -- wireless device used to implement user interface includes keyboard; para 0046 -- user selection; para 0099, 0101 -- key-related inputs from user).

Regarding Claims 7 and 15. Jung discloses the method in accordance with claim 6. Jung further discloses wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus (para 0007 -- user interface for controlling other device, therefore, must send commands back to the playback apparatus; para 0039 -- wireless device used to implement user interface includes keyboard; para 0046 -- user selection; para 0058 -- available actions).

Regarding Claims 10 and 13. Jung discloses the method in accordance with claim 1. Jung further discloses further comprising (e) running [by the playback apparatus] the main application based on the response information (para 0007 -- user interface used to control devices; para 0041 -- can control (execute/run applications on home audio or video systems, other devices, etc.); para 0043 -- controls devices in proximity).
Claim Rejections - 35 USC § 103

6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

7. **Claims 2-3 and 11 are rejected under 35 U.S.C. 103(a)** as being unpatentable over Jung in view of US 20090180398 A1 to Lejeune.

**Regarding Claim 2.** Jung discloses the method in accordance with claim 1. Lejeune further discloses wherein the auxiliary information includes an URL (Uniform Resource Locator) (**para 0037 -- service capabilities in form of URL for control; para 0038 -- URL**). And wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL is notoriously well known in the art but is also disclosed by Jung (**para 0057**). At the time of the invention, it would have been obvious for one of ordinary skill in the art to modify Jung to include the limitations disclosed by Lejeune, because such limitations are notoriously well known in the art, and routinely used to provide information regarding the source device (see Lejeune, para 0037).

**Regarding Claim 3.** Jung and Lejeune disclose the method in accordance with claim 2. Jung further discloses wherein the step (d) comprises displaying a web page associated with the URL on a screen of the mobile device (**para 0057 -- browser executing on the mobile device**).

**Regarding Claim 11.** Jung discloses the method in accordance with claim 1. Lejeune discloses wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification (**para 0032**). At the time of the invention, it would have been obvious for one of ordinary skill in the art to modify Jung, to include the limitations disclosed by Lejeune, because such limitations are
notoriously well known in the art, and commonly used for devices that present services, such as audio or video (see Lejeune, para 0032).

8. **Claims 8 and 9 are rejected under 35 U.S.C. 103(a)** as being unpatentable over Jung in view of US 20050215283 A1 to Camp, JR.

**Regarding Claim 8.** Jung discloses the method in accordance with claim 1. Camp, JR. discloses wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information (**para 0003 -- image, internet protocol format; para 0006 -- pointer commands, browser**).

At the time of the invention, it would have been obvious for one of ordinary skill in the art to modify Jung to include the limitations disclosed by Camp, JR., because such limitations allow devices to share information and resources, and allow the control and coordination of several devices (see Jung, para 0046, 0048, for example).

**Regarding Claim 9.** Jung and Camp, JR. discloses the method in accordance with claim 8. Camp, JR. discloses wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus (**para 0010 -- image data transmitted; para 0012 -- image data transmitted from hand-held electronic device; para 0019 -- image data transmitted to electronic display device**).
9. **Claims 4 and 5 are rejected under 35 U.S.C. 103(a)** as being unpatentable over Jung in view of US 20080207115 A1 to Lee et al. (hereinafter, ‘Lee’).

    **Regarding Claim 4.** Jung discloses the method in accordance with claim 1. Lee discloses wherein the auxiliary information includes a request for a location information, and wherein the step (c) comprises executing the auxiliary application including a GPS (Global Positioning System) application to acquire the location information (para 0028 -- requests location information, receives response message; para 0030 -- GPS, location sensing unit).

    At the time of the invention, it would have been obvious for one of ordinary skill in the art to modify Jung to include the limitations disclosed by Lee, because such limitations allow devices to determine the relative location between each other in order to transmit information between the devices (see para 0014, 0025 of Lee; also see Jung, para 0060)

    **Regarding Claim 5.** Jung and Lee disclose the method in accordance with claim 4. Lee further discloses wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus (para 0028, receives response message with location information).

**Response to Arguments**

10. Applicant's arguments filed 31, May 2012, have been fully considered but they are not persuasive. Applicant’s arguments are directed to the amended claims, which are addressed in the rejection above. The examiner notes that during patent examination, the claims are given the broadest reasonable interpretation consistent with the specification. See In re Morris, 127 F.3d
1048, 44 USPQ2d 1023 (Fed. Cir. 1997). However, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

**Conclusion**

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERICA NAVAR whose telephone number is (571)270-5888. The examiner can normally be reached on Monday-Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Jinsong Hu can be reached on (571) 272-3965. 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.

ERICA NAVAR
Examiner
Art Unit 2617

/ERICA NAVAR/
Examiner, Art Unit 2617

/AJIT PATEL/
Primary Examiner, Art Unit 2617
**Search Notes**

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Wonjang Baek

Application No.12/819,272

Confirmation No. 9757

Filed: June 21, 2010

Examiner: Navar, Erica

For: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

AMENDMENT UNDER 37 CFR 1.111

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

Sir:

This is in response to the Office Action mailed March 1, 2012, and having a period for response set to expire on June 1, 2012.

Reconsideration of the claims is respectfully requested. The following remarks are respectfully submitted.
IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with strikethrough. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claim 1 and ADD claims 12-15, in accordance with the following:

1. (CURRENTLY AMENDED) A method for running applications using a mobile device and a playback apparatus, the method comprising steps of:

   (a) executing a main application in the playback apparatus;

   (b) transmitting to the mobile device an auxiliary information required for running the main application;

   (c) executing an auxiliary application associated with the auxiliary information in the mobile device; and

   (d) processing a response information obtained in the mobile device by executing the auxiliary application.

2. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL.

3. (ORIGINAL) The method in accordance with claim 2, wherein the step (d) comprises displaying a web page associated with the URL on a screen of the mobile device.

4. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes a request for a location information, and wherein the step (c) comprises
executing the auxiliary application including a GPS (Global Positioning System) application to acquire the location information.

5. (ORIGINAL) The method in accordance with claim 4, wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus.

6. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes a request for a user input, and wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input.

7. (ORIGINAL) The method in accordance with claim 6, wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus.

8. (ORIGINAL) The method in accordance with claim 1, wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information.

9. (ORIGINAL) The method in accordance with claim 8, wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus.

10. (ORIGINAL) The method in accordance with claim 1, further comprising (e) running the main application based on the response information.

11. (ORIGINAL) The method in accordance with claim 1, wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification.
12. (NEW) A method of running applications using a playback apparatus, comprising steps of:
   (a) executing a main application by the playback apparatus;
   (b) transmitting, by the playback apparatus, to a mobile device an auxiliary information required for running the main application; and
   (c) receiving, by the playback apparatus, from the mobile device a response information obtained by executing an auxiliary application associated with the auxiliary information.

13. (NEW) The method according to claim 12, further comprising:
   (d) running, by the playback apparatus, the main application based on the response information.

14. (NEW) A method of running applications using a mobile device, comprising steps of:
   (a) receiving, by the mobile device, from a playback apparatus executing a main application an auxiliary information required for running the main application;
   (b) executing, by the mobile device, an auxiliary application associated with the auxiliary information; and
   (c) processing, by the mobile device, a response information obtained by executing the auxiliary application.

15. (NEW) The method according to claim 14, further comprising:
   (d) transmitting, by the mobile device, the response information to the playback apparatus.
REMARKS

In accordance with the foregoing, claim 1 has been amended and new claims 12-15 have been added. Support for the amended features is can be found at least on page 8, last line through page 9, line 6 of the specification, and claims 1-11 as originally filed. Upon entry of this amendment, claims 1-15 are pending and under consideration. No new matter within the meaning of 35 U.S.C. §132 is presented in this Amendment.

REJECTIONS UNDER 35 U.S.C. §102:

Claims 1, 10, and 11 are rejected under 35 U.S.C. §102(a) and §102(e) as being anticipated by Lejeune (U.S. Publication No. 2009/0180398). Applicant respectfully traverses this rejection.

Applicant respectfully submits that the rejections of independent claim 1 must be withdrawn because the cited prior art fails to disclose each and every feature recited in the claim. "Anticipation requires the disclosure in a single prior art reference of each element of the claim under consideration." W.L. Gore & Assoc. v. Garlock, 721 F.2d 1540, 220 USPQ 303 (Fed. Cir. 1983), cert. denied, 469 U.S. 851 (1984). Further, "when evaluating the scope of a claim, every limitation in the claim must be considered. USPTO personnel may not dissect a claimed invention into discrete elements and then evaluate the elements in isolation. Instead, the claim as a whole must be considered." U.S.P.T.O. Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility, page 9, October 26, 2005 (emphasis in original). As the Federal Circuit stated, "[a]nticipation requires the presence in a single prior art reference disclosure of each and every element of the claimed invention, arranged as in the claim." Lindemann Maschinenfabrik GmbH v. American Hoist & Derrick Col., 730 F.2d 1452, 221 USPQ 481, 485 (Fed. Cir. 1984) (citing Connell v. Sears, Roebuck & Co., 722 F.2d 1542, 220 USPQ 193 (Fed. Cir. 1984)) (emphasis added).

Claim 1, as amended, recites, inter alia:

(c) executing an auxiliary application associated with the auxiliary information in the mobile device; and

(d) processing a response information obtained in the mobile device by executing the auxiliary application. (emphasis added)
The Office Action characterizes the "presentation device 145" and the "source device 130" shown in Fig. 2 of Lejeune as teaching the "playback apparatus" and the "mobile device," as recited in claim 1, respectively. See the Office Action, page 2, item 2, paragraphs 3-4. Based on this interpretation, the Office Action concludes the following:

Step (c) recited in claim 1 is allegedly anticipated by paragraph 0037 of Lejeune, which describes that "source device provides requested information," and by paragraph 0040 of Lejeune, which describes that "operation 22[5] obtains service application from source device." See the Office Action, page 2, item 2, paragraph 5. Applicant respectfully disagrees with this conclusion because the cited prior art actually does not teach such feature as claimed.

Specifically, paragraph 0040 of Lejeune clearly describes that "... resulting in operation 225 that obtains a service application from source device 130" (see also, Fig. 2). Hence, according to the teachings of Lejeune, the service application is simply transmitted from the source device 130 to the presentation device 145. However, no teaching or suggestion is found in Lejeune that the service application may be executed in the source device 130. Thus, it is clear that Lejeune fails to anticipate at least "executing an auxiliary application associated with the auxiliary information in the mobile device," as recited in claim 1.

The Office Action further concludes that step (d) recited in claim 1 is allegedly anticipated by Fig. 2 of Lejeune that discloses "receiv[ing] service capabilities, application (215, 225), service presentation 230." See the Office Action, page 3, paragraph 1. Applicant respectfully disagrees with this conclusion for at least the following reasons:

As noted above with regard to step (c) of claim 1, the "service application" described in Lejeune, which the Office Action concludes teaches the "auxiliary application" as recited in claim 1, is not executed in the "source device 130," which allegedly corresponds to the "mobile device" as recited in claim 1. Consequently, Lejeune fails to anticipate at least "processing a response information obtained in the mobile device by executing the auxiliary application," as recited in claim 1.

Furthermore, Lejeune also fails to disclose at least the following features recited in claim 1:

(b) transmitting to the mobile device an auxiliary information required for running the main application (emphasis added)
The Office Action asserts that the "request service capability 210" and "request service application 220" shown in Fig. 2 of Lejeune anticipate the claim features *supra*. See the Office Action, page 2, item 2, paragraph 4. According to this assertion, the requests 210, 220 disclosed in Lejeune must be analogous to the "auxiliary information required for running the main application," as recited in claim 1.

However, it is respectfully submitted that neither the "request service capability 210" nor the "request service application 220," of Lejeune, can anticipate the "auxiliary information" of claim 1 because none of them is *required for running* the "resident application" described in Lejeune, which the Office Action characterizes as corresponding to the "main application" as recited in claim 1. See the Office Action, page 2, item 2, paragraph 3. Thus, it is clear that Lejeune also fails to anticipate at least "transmitting to the mobile device an auxiliary information required for running the main application," as recited in claim 1.

Since Lejeune does not disclose each and every feature recited in claim 1, it is respectfully submitted that this cited prior art fails to anticipate claim 1. Claims 10 and 11 depend from claim 1, and are thus allowable for at least this reason.

In view of the foregoing, withdrawal of the rejection of claims 1, 10, and 11 under 35 U.S.C. §102(a) and §102(e) is thus respectfully requested.

**REJECTIONS UNDER 35 U.S.C. §103:**

Claims 2-3 and 6-7 are rejected under 35 U.S.C. §103(a) as being unpatentable over Lejeune in view of Jung et al. (U.S. Publication No. 2007/0224937); Claims 8 and 9 are rejected under 35 U.S.C. §103(a) as being unpatentable over Lejeune in view of Camp, Jr. (U.S. Publication No. 2005/0215283); Claims 8 and 9 are rejected under 35 U.S.C. §103(a) as being unpatentable over Lejeune in view of Camp, Jr.; and Claims 4 and 5 are rejected under 35 U.S.C. §103(a) as being unpatentable over Lejeune in view of Lee et al. (U.S. Publication No. 2008/0207115). Applicant respectfully traverses this rejection.

Claims 2-9 depend directly or indirectly from claim 1. The secondary references, Jung et al., Camp, Jr., and Lee et al., were cited in the Office Action in an attempt to teach the additional features recited in dependent claims 2-9, but fail to cure the deficiencies of Lejeune as noted above with regard to claim 1. Hence, assuming, *arguendo*, Lejeune and one of the secondary
references may be combined and a reasonable expectation of success exists, this combination still fails to teach all of the features recited in claim 1. Thus, claims 2-9 are allowable over the cited references, whether taken alone or in any combination thereof at least because claims 2-9 depend from allowable claim 1.

In view of the foregoing, the rejection of claims 2-9 under 35 U.S.C. §103(a) is respectfully requested to be withdrawn.

New claims 12-15 recite the features similar to those of claim 1 as discussed above, and are thus allowable for at least this reason.

CONCLUSION:

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 503333.

Respectfully submitted,

STEIN MCEWEN, LLP

Date: May 31, 2012

By: Sungyeop Chung
Registration No.: 64,130

1400 Eye St., N.W.
Suite 300
Washington, D.C. 20005
Telephone: (202) 216-9505
Facsimile: (202) 216-9510
### Electronic Acknowledgement Receipt

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**Title of Invention:**

METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

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

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

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/OE/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.
REPLY/AMENDMENT
FEE TRANSMITTAL

Attorney Docket No. 0366.1005
Application Number 12/819,272
Filing Date June 21, 2010
First Named Inventor Wonjang BAEK
Group Art Unit 2617

AMOUNT ENCLOSED $0.00
Examiner Name Erica Navar

FEES CALCULATION

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Since an Official Action set an original due date of June 1, 2012, petition is hereby made for an extension to cover the date this reply is filed for which the requisite fee is enclosed (1 month ($150)); (2 months ($550)); (3 months ($1,270)); (4 months ($1,880)); (5 months ($2,690)):

If Notice of Appeal is enclosed, add ($620.00)
If Statutory Disclaimer under Rule 20(d) is enclosed, add fee ($140.00)
Information Disclosure Statement (Rule 1.17(p)) ($180.00)

Total of above Calculations = $0.00
Reduction by 50% for filing by small entity (37 CFR 1.9, 1.27 & 1.28)
Reduction by 75% for filing by micro entity (37 CFR 1.23(a)(1))

TOTAL FEES DUE = $0.00

(1) If entry (1) is less than entry (2), entry (3) is "0".
(2) If entry (2) is less than 20, change entry (2) to "20".
(4) If entry (4) is less than entry (5), entry (6) is "0".
(5) If entry (5) is less than 3, change entry (5) to "3".

METHOD OF PAYMENT

☐ Check enclosed as payment. ☐ Credit Card Payment Form, Form PTO-2038(attached).
☐ Charge "TOTAL FEES DUE" to the Deposit Account No. below.
☐ No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).

GENERAL AUTHORIZATION

☒ If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:

Deposit Account No. 503333
Deposit Account Name STEIN MCEWEN, LLP

☒ The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC § 120 (e.g., continuations/divisionals/CDPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.

SUBMITTED BY: STEIN MCEWEN, LLP
Typed Name Sungyeop Chung Reg. No. 64,130
Signature Date May 31, 2012
**PATENT APPLICATION FEE DETERMINATION RECORD**

Substitute for Form PTO-875

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* If the difference in column 1 is less than zero, enter "0" in column 2.
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*** If the "Highest Number Previously Paid For" in THIS SPACE is less than 3, enter "3".

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

Legal Instrument Examiner: /VENICE WILLIAMS/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

docketing@smiplaw.com
Office Action Summary

Application No. 12/819,272
Applicant(s) BAEK, WONJANG
Examiner ERICA NAVAR
Art Unit 2617

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.

- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

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

Status

1) [ ] Responsive to communication(s) filed on 21 June 2010.
2a) [ ] This action is FINAL.
2b) [x] 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) [x] Claim(s) 1-11 is/are pending in the application.
   5a) Of the above claim(s) ______ is/are withdrawn from consideration.
6) [ ] Claim(s) ______ is/are allowed.
7) [x] Claim(s) 1-11 is/are rejected.
8) [ ] Claim(s) ______ is/are objected to.
9) [ ] Claim(s) ______ are subject to restriction and/or election requirement.

Application Papers

10) [ ] The specification is objected to by the Examiner.
11) [ ] The drawing(s) filed on 21 June 2010 is/are: a) [x] accepted or b) [ ] objected to by the Examiner.

   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
12) [ ] The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

13) [x] Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) [x] All    b) [ ] Some *    c) [ ] None of:
      1. [x] 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) [x] Notice of References Cited (PTO-892)
2) [ ] Notice of Draftsperson’s Patent Drawing Review (PTO-948)
3) [ ] Information Disclosure Statement(s) (PTO/SB/08)
   Paper No(s)/Mail Date ____.
4) [ ] Interview Summary (PTO-413)
   Paper No(s)/Mail Date ____.
5) [ ] Notice of Informal Patent Application
6) [ ] Other: ____.
DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 10, and 11 are rejected under 35 U.S.C. 102(a) and 102(e) as being anticipated by US 20090180398 A1 to LeJeune.

Regarding Claim 1, LeJeune discloses a method for running applications using a mobile device and a playback apparatus (Abstract -- facilitates interaction for service capabilities between devices), the method comprising steps of:

(a) executing a main application in the playback apparatus (Fig. 3 -- presentation device, resident applications; para 0032 -- presentation device presenting services such as audio and video);

(b) transmitting to the mobile device an auxiliary information required for running the main application (Fig. 2, para 0040 -- presentation device requests service capabilities, application (210, 220); para 0029 -- source device can be mobile phone);

(c) executing an auxiliary application associated with the auxiliary information in the mobile device (para 0037 -- source device provides requested information; para 0040 -- operation 220 obtains service application from source device); and
(d) processing a response information obtained by executing the auxiliary application

(Fig. 2 -- receive service capabilities, application (215, 225), service presentation 230).

Regarding Claim 10, LeJeune discloses the method in accordance with claim 1. LeJeune further discloses further comprising (e) running the main application based on the response information (para 0010 -- presentation device uses service associated with source device using the service application).

Regarding Claim 11, LeJeune discloses the method in accordance with claim 1. LeJeune further discloses wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification (para 0032).

Claim Rejections - 35 USC § 103

3. 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.

4. 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.
5. **Claims 2-3 and 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over LeJeune in view of US 20070224937 A1 to Jung et al. (hereinafter, 'Jung').**

**Regarding Claim 2.** LeJeune discloses the method in accordance with claim 1. LeJeune further discloses wherein the auxiliary information includes an URL (Uniform Resource Locator) (para 0037 -- service capabilities in form of URL for control; para 0038 -- URL). And wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL is notoriously well known in the art but is also disclosed by Jung (para 0057). At the time of the invention, it would have been obvious for one of ordinary skill in the art to modify LeJeune to disclose using a web browser to connect to the URL, because such limitations are well known as one of the primary methods to connect to a URL.

**Regarding Claim 3.** LeJeune and Jung disclose the method in accordance with claim 2. Jung further discloses wherein the step (d) comprises displaying a web page associated with the URL on a screen of the mobile device (para 0057 -- browser executing on the mobile device).

**Regarding Claim 6.** LeJeune discloses the method in accordance with claim 1. Jung discloses wherein the auxiliary information includes a request for a user input, and wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input (para 0039 -- wireless device used to implement user interface includes keyboard; para 0046 -- user selection; para 0099, 0101 -- key-related inputs from user).

At the time of the invention, it would have been obvious for one of ordinary skill in the art to modify LeJeune to include the limitations disclosed by Jung, because such limitations allow devices to share information and resources, and allow the control and coordination of
several devices simultaneously in order to enhance the capabilities of the various devices (see LeJeune, para 0005, 0006).

**Regarding Claim 7.** LeJeune and Jung disclose the method in accordance with claim 6. Jung further discloses wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus (para 0007 -- user interface for controlling other device, therefore, must send commands back to the playback apparatus; para 0039 -- wireless device used to implement user interface includes keyboard; para 0046 -- user selection; para 0058 -- available actions).

6. **Claims 8 and 9 are rejected under 35 U.S.C. 103(a)** as being unpatentable over LeJeune in view of US 20050215283 A1 to Camp, JR.

**Regarding Claim 8.** LeJeune discloses the method in accordance with claim 1. Camp, JR. discloses wherein the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information (para 0003 -- image, internet protocol format; para 0006 -- pointer commands, browser).

At the time of the invention, it would have been obvious for one of ordinary skill in the art to modify LeJeune to include the limitations disclosed by Camp, JR., because such limitations allow devices to share information and resources, and allow the control and coordination of several devices simultaneously in order to enhance the capabilities of the various devices (see LeJeune, para 0005, 0006).
Regarding Claim 9. LeJeune and Camp, JR. disclose the method in accordance with
claim 8. Camp, JR. discloses wherein the step (d) comprises transmitting the response
information including the image information to the playback apparatus (para 0010 -- image
data transmitted; para 0012 -- image data transmitted from hand-held electronic device;
para 0019 -- image data transmitted to electronic display device).

6. **Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over
LeJeune in view of US 20080207115 A1 to Lee et al. (hereinafter, ‘Lee’).**

Regarding Claim 4. LeJeune discloses the method in accordance with claim 1. Lee
discloses wherein the auxiliary information includes a request for a location information, and
wherein the step (c) comprises executing the auxiliary application including a GPS (Global
Positioning System) application to acquire the location information (para 0028 -- requests
location information, receives response message; para 0030 -- GPS, location sensing unit).

At the time of the invention, it would have been obvious for one of ordinary skill in the
art to modify LeJeune to include the limitations disclosed by Lee, because such limitations allow
devices to determine the relative location between each other in order to transmit information
between the devices (see para 0014, 0025 of Lee; also see LeJeune, para 0019)

Regarding Claim 5. LeJeune discloses the method in accordance with claim 4. Lee
further discloses wherein the step (d) comprises transmitting the response information including
the location information to the playback apparatus (para 0028, receives response message with
location information).
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERICA NAVAR whose telephone number is (571)270-5888. The examiner can normally be reached on Monday-Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Kent Chang can be reached on (571) 272-7667. 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.

/Meless N Zewdu/
Primary Examiner, Art Unit 2617

/ERIC NAVAR/
Examiner, Art Unit 2617
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)*

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.
**BIB DATA SHEET**

**CONFIRMATION NO. 9757**

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**APPLICANTS**
Wonjang BAEK, Seongnam-si, KOREA, REPUBLIC OF;

**CONTINUING DATA**

**FOREIGN APPLICATIONS**
REPUBLIC OF KOREA 10-2009-0055449 06/22/2009

**IF REQUIRED, FOREIGN FILING LICENSE GRANTED**
** SMALL ENTITY **
06/29/2010

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**ADDRESS**
STEIN MCEWEN, LLP
1400 EYE STREET, NW
SUITE 300
WASHINGTON, DC 20005
UNITED STATES

**TITLE**
METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

**FILING FEE RECEIVED**
462

FEES: Authority has been given in Paper
No. __________ to charge/credit DEPOSIT ACCOUNT
No. __________ for following:

- [ ] All Fees
- [ ] 1.16 Fees (Filing)
- [ ] 1.17 Fees (Processing Ext. of time)
- [ ] 1.18 Fees (Issue)
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☐ CPA
☐ T.D.
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The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/18/2011.

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

/mtekle/michael/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101
NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/18/2011.

• The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record (37 CFR 1.33).

/mteklcmichael/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101
POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
AND REVOCATION OF PRIOR POWERS

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

Sir:

The undersigned corporation is the assignee of record of the entire right, title, and interest of the patent applications and patents identified listed in the enclosed Attachment A:

REVOCATION OF PRIOR POWERS OF ATTORNEY

revokes all powers of attorney previously given, and

NEW POWER OF ATTORNEY

appoints the attorneys and/or agents of STEIN MCEWEN LLP under Customer No. 49,455 to prosecute and transact all business in the United States Patent and Trademark Office connected therewith.

CORRESPONDENCE CHANGE OF ADDRESS

All correspondence and telephone communications should be directed to the address associated with Customer Number 49,455, which is currently:

STEIN MCEWEN LLP
1400 EYE ST., N.W.
SUITE 300
WASHINGTON, D.C. 20005
PHONE: (202) 216-9505
FACSIMILE: (202) 216-9510
STATEMENT AND CERTIFICATION UNDER 37 CFR §3.73(B)

ANYPOINT MEDIA GROUP, a United States corporation, certifies that it is the assignee of the entire right, title and interest in the patent applications and patents identified in the enclosed Attachment A, by way of assignments, and those assignments were recorded in the USPTO with available data identified in the Attachment A and/or are attached hereto as indicated in Attachment A.

The undersigned is empowered to sign this certificate on behalf of the assignee.

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 are made with knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

If there are any fees associated with the filing of this Statement and Certification, please charge and/or credit the same to Deposit Account No. 503333.

Dated 08/16/11

By: [Signature]
Name: HAN JUN SIK
Title: Managing Director
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**Warnings:**
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**Information:**
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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

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

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

In re the Application of:

Wonjang BAEK

Application No. 12/819,272                        Group Art Unit: 2617

Confirmation No. 9757

Filed: June 21, 2010                        Examiner: Dwayne D. Bost

For: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

LETTER TO THE EXAMINER REQUESTING ENTRY OF CHANGE IN POWER OF ATTORNEY AND CORRESPONDENCE ADDRESS

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

Sir:

In accordance with the enclosed Power of Attorney, it is respectfully submitted that the attorneys of Stein McEwen, LLP, customer number 49,455, are associated with the instant application and all prior powers of attorney have been revoked.

Please direct all correspondence to the address associated with customer number 49,455, which is presently as follows:

Stein McEwen, LLP
1400 Eye St., NW
Suite 300
Washington, D.C. 20005

Respectfully submitted,

STEIN MCEWEN, LLP

Michael D. Stein
Registration No. 37,240

Date: August 18, 2011

1400 Eye St. N.W., Suite 300
Washington, D.C. 20005
Telephone: (202) 216-9505
Facsimile: (202) 216-9510
Title: METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION
Publication No.: US-2010-0323760-A1
Publication Date: 12/23/2010

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 publicly 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
This is to certify that the following application annexed hereto is a true copy from the records of the Korean Intellectual Property Office.

Application Number: 10-2009-0055449

Filing Date: JUN. 22, 2009

Applicant(s): dreamer

Commissioner: [Seal]
제출 일자: 2009-06-22

【서지사항】

【서류명】 특허출원서
【참조번호】 0053
【출원구분】 특허출원
【출원인】

【영문】 드리머
【출원인코드】 5-2009-003922-3

【대리인】

【영문】 특허법인지명
【대리인코드】 9-2007-100021-5
【지정된변리사】 이창범, 박준용, 김경욱, 서일경, 이상현
【포괄위임등록번호】 2009-008139-0

【발명의국문명칭】 모바일 장치와 BD-J 규격을 지원하는 재생 장치를 이용한 애플리케이션 운영 방법
【발명의영문명칭】 METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

【발명자】

【성명】 백원장
【성명의영문표기】 Beek Wonjang
【주민등록번호】 620511-1XXXXX
【우편번호】 463-731
【주소】 경기 성남시 분당구 이매동 아름마을견영아파트 107동 402호
【국적】 KR
【심사청구】 청구
제목 일자 : 2009-06-22

【취지】 위와 같이 특허청장에게 제출합니다.

대리인  특허법인지명  (서명 또는 인)

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【합계】 608,000 원
[요약서]

[요약]

모바일 장치와 BD-J 규격을 지원하는 재생 장치를 이용한 애플리케이션 운용 방법이 개시된다. 본 발명의 애플리케이션 운용 방법에 따르면, BD-J 규격을 지원 하는 재생 장치가 수행하지 못하는 기능을 모바일 장치가 수행하도록 함으로써, 재 생 장치의 리소스가 부족하게 되는 것을 방지하고 재조 비용의 상승을 방지할 수 있다.

[대표도]

도 1
【명세서】

【발명의 명칭】

모바일 장치와 BD-J 규격을 지원하는 재생 장치를 이용한 에플리케이션 운영 방법(METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION)

【발명의 상세한 설명】

【기술분야】

본 발명은 모바일 장치와 BD-J 규격을 지원하는 재생 장치를 이용한 에플리케이션 운영 방법에 관한 것으로, 특히 BD-J 규격을 지원하는 재생 장치가 수행하지 못하는 기능을 모바일 장치가 수행하도록 하는 모바일 장치와 BD-J 규격을 지원 하는 재생 장치를 이용한 에플리케이션 운영 방법에 관한 것이다.

【배경기술】

<2> 블루레이(Blu-ray)는 소니, 마쓰시타, 샤프 등의 기업체가 속한 "블루레이 연합(Blu-ray Disc Association)"을 통해 정자색 레이저를 이용한 광디스크 규격을 지정한다.

<3> 블루레이 디스크는 직경 12cm 두께 1.2mm로 기존에 이용하던 CD나 DVD와 외형적으로는 동일하지만, CD나 DVD보다 증가된 기록 용량을 가진다.

<4> 블루레이는 405 nm 파장의 정자색 레이저를 사용하여 싱글 레이어 15 GB, 듀얼 레이어 30 GB의 기록 용량을 가졌으므로 기존 DVD의 기록 용량의 5배 이상의 기
목 용량을 가진다. 뿐만 아니라, 블루레이는 움드 레이어(4층)와 옥률 레이어(8층)를 적용하는 경우, 기록 용량을 100 GB 내지 200 GB까지 확장할 수 있다.

블루레이는 영상 압축 기술로서 현재 DVD에서 주로 사용되는 MPEG-2보다 압축 성능이 뛰어난 H.264/AVC 또는 VC-1 등의 압축 기술을 사용한다. 또한, 블루레이는 음성 압축 기술로서 현재 DVD에서 주로 사용되는 PCM, 돌비 디지털(DD), DTS 뿐만 아니라 돌비 디지털플러스(DD+)와 돌비트루HD(Dolby TrueHD), DTS-HD MA(Master Audio) 등의 기술을 지원한다.

블루레이 플레이어는 블루레이 디스크에 저장된 오디오/비디오 데이터를 재생하는 기능을 기본으로 한다.

블루레이 디스크에 저장된 오디오/비디오 데이터를 재생하는 기능과 더불어 네트워크 접속 등의 부가적인 기능을 지원하기 위하여 BD-J 규격이 제안되었다. BD-J 규격은 자바 기반의 양방향 플랫폼으로서, BD-J 규격은 블루레이 플레이어에서 네트워크 접속, PIP(Picture-In-Picture) 및 국부 저장장치(Local Storage)에 대한 접속을 지원한다.

따라서, BD-J 규격을 지원하는 블루레이 플레이어는 원격 저장 장치에 저장되어 있는 오디오/비디오 데이터를 재생할 수 있다.

또한, 블루레이 플레이어뿐만 아니라 TV, 게임기, 셋톱박스, 휴대용 멀티미디어 재생 장치(PMP), 개인용 컴퓨터 및 PVR(Personal Video Recorder) 등의 다양한 장치도 미들웨어를 통하여 BD-J 규격을 지원할 수 있다.
이하에서, 재생 장치는 블루레이 디스크 및 DVD에 저장된 멀티미디어 콘텐츠를

는, BD-J 규격을 지원하는 블루레이 플레이어를 포함하는 다양한 장치를 BD-

J 규격을 지원하는 재생 장치라 한다.

BD-J 규격을 지원하는 재생 장치에서는 자바 기반의 다양한 애플리케이션을

실행할 수 있다. 예를 들어, BD-J 규격을 지원하는 재생 장치에서는 워드 프로세서

애플리케이션, 노트패드 프로그램, URL이 포함된 애플리케이션 및 영상 캡쳐 애플

리케이션 등의 다양한 애플리케이션이 실행될 수 있다. 그러나, BD-J 규격을 지원

하는 재생 장치는 기보드 등의 사용자 입력 수단, 웹 브라우저 수단, 영상 입력 수

단 등을 포함하지 않으므로 다양한 애플리케이션은 제한적으로 실행될 수밖에

없다. 예를 들어, BD-J 규격을 지원하는 재생 장치에서 워드 프로세서 애플리케이

션을 실행하는 것이 가능한 경우라도, 사용자는 워드 프로세서 애플리케이션을 통

해 문서를 작성하는 것은 불가능하며, 워드 프로세서 애플리케이션에 제공하는 뷰

어(viewer) 기능만을 이용할 수 있다. 또한, BD-J 규격을 지원하는 재생 장치는 웹

브라우저를 지원하지 않으므로 애플리케이션에 URL이 포함되어 있는 경우라도 사용

자는 URL과 관련된 웹 페이지를 열람할 수 없다.

BD-J 규격을 지원하는 재생 장치가 지원하지 않는 기능을 추가적으로 제한적

인 리소스를 보유한 재생 장치에 구현하는 것은 매우 어려울 뿐만 아니라 실제로

구현하는 경우 제조 비용이 급격히 상승한다는 문제점이 있다.
본 발명은 BD-J 규격을 지원하는 재생 장치가 수행하지 못하는 기능을 모바일 장치가 수행하도록 함으로써, 재생 장치의 디소스가 부족하게 되는 것을 방지하고 제조 비용의 상승을 방지할 수 있는 모바일 장치와 BD-J 규격을 지원하는 재생 장치를 이용한 애플리케이션 운용 방법을 제공하는 것을 그 목적으로 한다.

상기 목적이 달성하기 위하여, 본 발명에 따른 모바일 장치와 BD-J 규격을 지원하는 재생 장치를 이용한 애플리케이션 운용 방법은 (a) 상기 재생 장치에서 주 애플리케이션을 실행하는 단계; (b) 상기 주 애플리케이션의 운용에 필요한 보조 정보를 상기 모바일 장치로 전송하는 단계; (c) 상기 모바일 장치에서 상기 보조 정보와 연관된 보조 애플리케이션을 실행하는 단계; 및 (d) 상기 보조 애플리케이션을 실행하여 얻어진 응답 정보를 처리하는 단계를 포함하는 것을 특징으로 한다.

상기 보조 정보는 URL을 포함하며, 상기 (c) 단계는 웹 브라우저를 실행하여 상기 URL에 접속하는 단계를 포함하는 것이 바람직하다.

상기 (d) 단계는 상기 URL과 연관된 웹 페이지를 상기 모바일 장치의 스크린에 표시하는 단계를 포함하는 것이 바람직하다.

상기 보조 정보는 위치 정보에 대한 요청을 포함하며, 상기 (c) 단계는 GPS
애플리케이션을 실행하여 위치 정보를 획득하는 단계를 포함하는 것이 바람직하다.

(19) 상기 (d) 단계는 상기 위치 정보를 포함하는 상기 응답 정보를 상기 재생 장치로 전송하는 단계를 포함하는 것이 바람직하다.

(20) 상기 보조 정보는 사용자 입력에 대한 요청을 포함하며, 상기 (c) 단계는 키보드 애플리케이션을 실행하여 상기 사용자 입력을 수신하는 단계를 포함하는 것이 바람직하다.

(21) 상기 (d) 단계는 상기 사용자 입력을 포함하는 상기 응답 정보를 상기 재생 장치로 전송하는 단계를 포함하는 것이 바람직하다.

(22) 상기 보조 정보는 영상 정보에 대한 요청을 포함하며, 상기 (c) 단계는 영상 생성 애플리케이션을 실행하여 상기 영상 정보를 생성하는 단계를 포함하는 것이 바람직하다.

(23) 상기 (d) 단계는 상기 영상 정보를 포함하는 상기 응답 정보를 상기 재생 장치로 전송하는 단계를 포함하는 것이 바람직하다.

(24) 상기 응답 정보를 기초로 상기 주 애플리케이션을 운용하는 단계를 더 포함하는 것이 바람직하다.

(25) 상기 재생 장치는 BD-J 규격을 지원하는 것이 바람직하다.

【효과】

(26) 본 발명에 따르면, BD-J 규격을 지원하는 재생 장치가 수행하지 못하는 기능을 모바일 장치가 수행하도록 함으로써, 리소스 부족 및 제조 비용의 상승을 방지
할 수 있다.

【발명의 실시를 위한 구체적인 내용】

이하, 본 발명에 따른 모바일 장치와 BD-J 규격을 지원하는 제생 장치를 이용한 애플리케이션 운용 방법을 정부한 도면을 참조로 보다 구체적으로 설명한다.

이하에서, 모바일 장치는 iPhone 등의 휴대용 통신 단말기, PDA, 노트북 컴퓨터 및 PMP(Portable Media Player)를 포함하지만, 이에 국한되지는 않는다. 또한, BD-J 규격을 지원하는 제생 장치는 BD-J 규격을 지원하는 블루레이 플레이어 및 BD-J 규격을 지원하는 미디어어를 탑재한 텔레비전, 셀프 박스 및 게임기를 포함하지만, 이에 국한되지는 않는다.

도 1은 본 발명에 따른 모바일 장치와 BD-J 규격을 지원하는 제생 장치를 이용한 애플리케이션 운용 방법을 도시한 흐름도이다.

도 1을 참조하면, 상기 제생 장치에서 주 애플리케이션을 실행한다(S100). 주 애플리케이션은 상기 제생 장치에 저장된 수도 있으며, 네트워크를 통해 수신할 수도 있다. 주 애플리케이션은 위드 프로세서 애플리케이션, 노트워드 프로그램, 영상 캡처 애플리케이션을 포함할 수 있으나, 이에 국한되지 않는다.

다음에는, 상기 제생 장치에서 실행된 주 애플리케이션의 운용에 필요한 보조 정보를 상기 모바일 장치로 전송한다(S110).

상기 보조 정보는 주 애플리케이션의 운용하기 위하여 필요한 각종 정보를 포함한다. 예를 들어, 주 애플리케이션의 제도 프로세서 애플리케이션의 경우, 보
조 정보는 사용자가 입력하고자 하는 내용, 즉 사용자 입력에 대한 요청을 포함할 수 있다. 또한, 주 애플리케이션이 영상 캡처 애플리케이션인 경우, 보조 정보는 영상 정보에 대한 요청을 포함할 수 있다.

다음에는, 상기 모바일 장치에서 상기 보조 정보와 연관된 보조 애플리케이션을 실행한다(S120). 예를 들어, 주 애플리케이션이 워드 프로세서 애플리케이션인 경우, 보조 애플리케이션은 사용자 입력을 생성하기 위한 키보드 애플리케이션을 포함할 수 있다. 또한, 주 애플리케이션이 영상 캡처 애플리케이션인 경우, 보조 애플리케이션은 영상 정보를 생성하는 영상 생성 애플리케이션을 포함할 수 있다.

다음에는, 보조 애플리케이션을 실행하여 얻어진 응답 정보를 처리한다(S130). 예를 들어, 보조 애플리케이션이 키보드 애플리케이션인 경우, 키보드 애플리케이션을 통해 수신한 사용자 입력을 포함하는 응답 정보를 재생 장치로 전송한다. 또한, 보조 애플리케이션이 영상 생성 프로그램인 경우, 영상 생성 프로그램을 통해 생성한 영상 정보를 포함하는 응답 정보를 재생 장치로 전송한다.

다음에는, 상기 재생 장치가 수신한 응답 정보를 기초로 상기 주 애플리케이션을 운용한다(S140). 예를 들어, 주 애플리케이션이 워드 프로세서 애플리케이션인 경우, 모바일 장치로부터 수신한 응답 정보에 포함된 사용자 입력을 워드 프로세서 애플리케이션에 전달하여 재생 장치와 연결된 디스플레이 장치의 스크린 상에 표시한다. 또한, 주 애플리케이션이 영상 캡처 애플리케이션인 경우, 모바일 장치로부터 수신한 응답 정보에 포함된 영상 정보를 영상 캡처 애플리케이션에 전달한다.
여 영상 캡처를 수행한다.

이하에서는, 본 발명에 따른 다양한 실시예를 도면을 참조하여 상세히 설명한다.

[제1 실시예]

제1 실시예는 주 애플리케이션을 실행하는 과정에 URL이 포함되는 경우의 실시예이다. 통상적으로, 재생 장치는 웹 페이지에 대한 검속 기능을 제공하는 웹 브라우저를 구비하지 않는다. 따라서, 주 애플리케이션을 실행하는 도중에 화면에 상기 웹 페이지의 URL을 포함하는 링크가 표시되는 경우라도 사용자는 상기 웹 페이지에 접속할 수 없다. 본 발명에 따르면, 사용자는 자신이 소유한 모바일 장치를 이용하여 상기 웹 페이지에 접속할 수 있다. 이하에서 상세히 설명한다.

도 2는 보조 정보가 URL을 포함하는 경우의 본 발명에 따른 애플리케이션 운용 방법을 도시한 흐름도이다.

도 2를 참조하면, 재생 장치에서 주 애플리케이션을 실행한다(S200). 주 애플리케이션은 블루레이 디스크를 재생하는 디스크 재생 애플리케이션일 수 있다. 디스크 재생 애플리케이션을 실행하는 도중에 웹 페이지의 URL을 포함하는 링크가 화면에 표시될 수 있다. 예를 들어, 블루레이 디스크에 수록된 영화 컨텐츠를 네이버에 제공하는 웹 페이지의 상세 정보에 관한 링크가 표시될 수 있다.

다음에는, 상기 주 애플리케이션에 포함된 URL, 즉 보조 정보를 모바일 장치로 전송한다(S210).
다음에는, 모바일 장치에서 웹 브라우저를 실행하여 URL에 접속한다(S220). 
제생 장치는 웹 브라우저를 구비하지 않으므로, 사용자가 상기 링크를 클릭하더라도 웹 페이지에 접속할 수 없으나, 웹 브라우저를 구비한 모바일 장치는 제생 장치가 전송한 URL에 접속하여 컨텐츠를 다운로드할 수 있다.

다음에는, 상기 URL과 연관된 웹 페이지를 모바일 장치의 스크린에 표시한다(S230).

[제2 실시예]

제2 실시에서는 주 애플리케이션을 실행하는 과정에서 위치 정보를 필요로 하는 경우의 실시예이다. 통상적으로, 제생 장치는 위치 정보를 제공하는 GPS 기능을 포함하지 않는다. 따라서, 주 애플리케이션이 위치 정보를 필요로 하는 경우라도 제생 장치는 위치 정보를 제공하지 못하므로 주 애플리케이션의 적절히 실행되기 어렵다. 본 발명에 따르면, 주 애플리케이션이 위치 정보를 필요로 하는 경우 모바일 장치로부터 위치 정보를 제공받아 주 애플리케이션을 실행할 수 있다. 이하에서 상세히 설명한다.

도 3은 보조 정보가 위치 정보에 대한 요청을 포함하는 경우의 본 발명에 따른 애플리케이션 운용 방법을 도시한 흐름도이다.

도 3을 참조하면, 제생 장치에서 주 애플리케이션을 실행한다(S300). 주 애플리케이션은 위치 정보를 필요로 하는 지도 서비스 애플리케이션일 수 있다.

지도 서비스 애플리케이션을 실행하는 도중에 위치 정보가 필요하면, 제생
장치는 위치 정보에 대한 요청을 포함하는 보조 정보를 생성하여 상기 모바일 장치로 전송한다(S310).

다음에는, 모바일 장치에서 GPS 애플리케이션을 실행하여 모바일 장치와 연결된 GPS 모듈로부터 위치 정보를 획득한다(S320).

다음에는, 모바일 장치는 상기 GPS 모듈로부터 획득한 위치 정보를 포함하는 응답 정보를 생성하여 제생 장치로 전송한다(S330).

다음에는, 제생 장치는 모바일 장치로부터 수신한 응답 정보에 포함된 위치 정보를 주 애플리케이션에 전달한다(S340). 제생 장치는 필요에 따라 위치 정보를 제생 장치와 연결된 디스플레이 장치의 스크린 상에 표시할 수 있다.

제2 실시에는 위치 정보를 필요로 하는 경우를 개시하고 있으나, 이에 한정 되지는 않는다. 예를 들어, 상기 제생 장치는 구비하지 않았으나 모바일 장치가 구비한 센서(예를 들어, 가속도 센서, 칼라스)가 존재하고, 상기 제생 장치가 상기 센서가 측정한 센서값을 필요로 하는 경우, 모바일 장치는 제생 장치의 요청에 따라 센서값을 포함하는 응답 정보를 제생 장치에 전송할 수 있다.

[제3 실시예]

제3 실시에는 주 애플리케이션을 실행하는 과정에서 사용자 입력을 필요로 하는 경우의 실시예이다. 통상적으로, 제생 장치는 사용자 입력을 제공하는 키보드 기능을 포함하지 않는다. 따라서, 주 애플리케이션이 사용자 입력을 필요로 하는 경우라도 제생 장치는 사용자 입력을 제공하지 못하므로 주 애플리케이션이 적절히
실행되기 어렵다. 본 발명에 따르면, 주 애플리케이션이 사용자 입력을 필요로 하는 경우 모바일 장치로부터 사용자 입력을 제공받아 주 애플리케이션을 실행할 수 있다. 이하에서 상세히 설명한다.

도 4는 보조 정보가 사용자 입력에 대한 요청을 포함하는 경우의 본 발명에 따른 애플리케이션 운용 방법을 도시한 흐름도이다.

도 4를 참조하면, 재생 장치에서 주 애플리케이션을 실행한다(S400). 주 애플리케이션은 사용자 입력(어플 둘레, 키보드 입력)을 필요로 하는 워드 프로세서 애플리케이션, 노트북 애플리케이션, 이메일 애플리케이션, 문자 입력 애플리케이션할 수 있다.

워드 프로세서 애플리케이션 또는 노트북 애플리케이션을 실행하는 도중에 사용자 입력이 필요하면, 재생 장치는 사용자 입력에 대한 요청을 포함하는 보조 정보를 생성하여 상기 모바일 장치로 전송한다(S410).

다음에는, 모바일 장치에서 키보드 애플리케이션을 실행하여 사용자 입력을 수신한다(S420). 예를 들어, 모바일 장치에 터치스크린이 구비되어 있으면, 모바일 장치는 화상 키보드 애플리케이션을 실행하여 사용자 입력을 수신한다.

다음에는, 모바일 장치는 키보드 애플리케이션을 통해 수신한 사용자 입력을 포함하는 응답 정보를 생성하여 재생 장치로 전송한다(S430).

다음에는, 재생 장치는 모바일 장치로부터 수신한 응답 정보에 포함된 사용자 입력을 주 애플리케이션에 전달한다(S440). 재생 장치는 필요에 따라 사용자 입력

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력은 재생 장치와 연결된 디스플레이 장치의 스크린 상에 표시할 수 있다.

[제4 실시예]

제4 실시예에는 주 애플리케이션을 실행하는 과정에서 영상 정보를 필요로 하는 경우의 실시예이다. 통상적으로, 재생 장치는 영상 정보를 제공하는 카메라 기능을 포함하지 않는다. 따라서, 주 애플리케이션이 영상 캡처를 위하여 영상 정보를 필요로 하는 경우라도 재생 장치는 영상 정보를 제공하지 못하므로 주 애플리케이션이 적절히 실행되기 어렵다. 본 발명에 따르면, 주 애플리케이션이 영상 정보를 필요로 하는 경우 모바일 장치로부터 영상 정보를 제공받아 주 애플리케이션을 실행할 수 있다. 이하에서 상세히 설명한다.

도 5는 보조 정보가 영상 정보에 대한 요청을 포함하는 경우의 본 발명에 따른 애플리케이션 운영 방법을 도시한 흐름도이다.

도 5를 참조하면, 재생 장치에서 주 애플리케이션을 실행한다(S500). 주 애플리케이션은 영상 정보(예를 들어, 카메라 입력)를 필요로 하는 영상 캡처 애플리케이션을 실행할 수 있다.

영상 캡처 애플리케이션을 실행하는 도중에 영상 정보가 필요하므로, 재생 장치는 영상 정보에 대한 요청을 포함하는 보조 정보를 생성하여 상기 모바일 장치로 전송한다(S510).

다음에는, 모바일 장치에서 영상 생성 애플리케이션을 실행하여 영상 정보를 생성한다(S520). 예를 들면, 모바일 장치에 카메라가 구비되어 있으면, 모바일 장치
치는 영상 생성 애플리케이션을 실행하여 영상 정보를 수신한다.

다음에는, 모바일 장치는 영상 생성 애플리케이션을 통해 수신한 영상 정보를 포함하는 응답 정보를 생성하여 제생 장치로 전송한다(S530).

다음에는, 제생 장치는 모바일 장치로부터 수신한 응답 정보에 포함된 영상 정보를 주 애플리케이션에 전달한다(S540). 제생 장치는 필요에 따라 영상 정보를 제생 장치와 연결된 출력 장치, 예를 들면 디스플레이 장치의 스크린 상에 표시할 수 있다.

[제5 실시예]

제5 실시예는 주 애플리케이션을 실행하는 과정에서 음성 정보를 필요로 하는 경우의 실시예이다. 통상적으로, 제생 장치는 음성 정보를 제공하는 마이크로폰을 포함하지 않는다. 따라서, 주 애플리케이션이 음성 인식을 위하여 음성 정보를 필요로 하는 경우라도 제생 장치는 음성 정보를 제공하지 못하므로 주 애플리케이션의 적절히 실행되기 어렵다. 본 발명에 따르면, 주 애플리케이션이 음성 정보를 필요로 하는 경우 모바일 장치로부터 음성 정보를 제공받아 주 애플리케이션을 실행할 수 있다. 이하에서 상세히 설명한다.

도 6은 보조 정보가 음성 정보에 대한 요청을 포함하는 경우의 본 발명에 따른 애플리케이션 운용 방법을 도시한 흐름도이다.

도 6을 참조하면, 제생 장치에서 주 애플리케이션을 실행한다(S500). 주 애플리케이션은 음성 정보(예를 들면, 마이크로폰 입력)를 필요로 하는 음성 인식 앱
폴리케이션일 수 있다.

음성 캡처 애플리케이션을 실행하는 도중에 음성 정보가 필요하면, 재생 장치는 음성 정보에 대한 요청을 포함하는 보조 정보를 생성하여 상기 모바일 장치로 전송한다(S610).

다음에는, 모바일 장치에서 음성 생성 애플리케이션을 실행하여 음성 정보를 생성한다(S620). 예를 들어, 모바일 장치에 마이크로폰이 구비되어 있으며, 모바일 장치는 음성 생성 애플리케이션을 실행하여 음성 정보를 생성한다.

다음에는, 모바일 장치는 음성 생성 애플리케이션을 통해 생성한 음성 정보를 포함하는 응답 정보를 생성하여 재생 장치로 전송한다(S630).

다음에는, 재생 장치는 모바일 장치로부터 수신한 응답 정보에 포함된 음성 정보를 주 애플리케이션에 전달한다(S640). 재생 장치는 필요에 따라 음성 정보를 재생 장치와 연결된 출력 장치, 예를 들면 스피커를 통해 출력할 수 있다.

비록 본 발명의 구성이 구체적으로 설명되었지만 이는 단지 본 발명의 예시적으로 설명한 것에 불과한 것으로, 본 발명이 속하는 기술분야에서 통상적 지식을 가진 자라면 본 발명의 본질적인 특성에서 벗어나지 않는 범위 내에서 다양한 변형이 가능할 것이다.

따라서 본 명세서에 게시된 실시예들은 본 발명을 한정하기 위한 것이 아니라 설명하기 위한 것이고, 이러한 실시예에 의하여 본 발명의 사상과 범위가 한정되는 것은 아니다. 본 발명의 범위는 아래의 청구범위에 의해 해석되어야 하며, 그
와 동등한 범위 내에 있는 모든 기술은 본 발명의 권리범위에 포함되는 것으로 해석되어야 할 것이다.
【특허청구범위】

【청구항 1】

모바일 장치와 재생 장치를 이용한 애플리케이션 운용 방법에 있어서,

(a) 상기 재생 장치에서 주 애플리케이션을 실행하는 단계;

(b) 상기 주 애플리케이션의 운용에 필요한 보조 정보를 상기 모바일 장치로 전송하는 단계;

(c) 상기 모바일 장치에서 상기 보조 정보와 연관된 보조 애플리케이션을 실행하는 단계; 및

(d) 상기 보조 애플리케이션을 실행하여 얻어진 응답 정보를 처리하는 단계를 포함하는 것을 특징으로 하는 애플리케이션 운용 방법.

【청구항 2】

제1항에 있어서,

상기 보조 정보는 URL을 포함하며,

상기 (c) 단계는 웹 브라우저를 실행하여 상기 URL에 접속하는 단계를 포함하는 것을 특징으로 하는 애플리케이션 운용 방법.

【청구항 3】

제2항에 있어서,

상기 (d) 단계는 상기 URL과 연관된 웹 페이지를 상기 모바일 장치의 스크린에 표시하는 단계를 포함하는 것을 특징으로 하는 애플리케이션 운용 방법.
【정구항 4】

제3항에 있어서,

상기 보조 정보는 위치 정보에 대한 요청을 포함하며,

상기 (c) 단계는 GPS 애플리케이션을 실행하여 위치 정보를 획득하는 단계를 포함하는 것을 특경으로 하는 애플리케이션 운용 방법.

【정구항 5】

제4항에 있어서,

상기 (d) 단계는 상기 위치 정보를 포함하는 상기 응답 정보를 상기 재생 장치로 전송하는 단계를 포함하는 것을 특경으로 하는 애플리케이션 운용 방법.

【정구항 6】

제5항에 있어서,

상기 보조 정보는 사용자 입력에 대한 요청을 포함하며,

상기 (c) 단계는 키보드 애플리케이션을 실행하여 상기 사용자 입력을 수신하는 단계를 포함하는 것을 특경으로 하는 애플리케이션 운용 방법.

【정구항 7】

제6항에 있어서,

상기 (d) 단계는 상기 사용자 입력을 포함하는 상기 응답 정보를 상기 재생 장치로 전송하는 단계를 포함하는 것을 특경으로 하는 애플리케이션 운용 방법.
【정구항 8】

제1항에 있어서,

상기 보조 정보는 영상 정보에 대한 요청을 포함하며,

상기 (c) 단계는 영상 생성 애플리케이션을 실행하여 상기 영상 정보를 생성하는 단계를 포함하는 것을 특징으로 하는 애플리케이션 운용 방법.

【정구항 9】

제1항에 있어서,

상기 (d) 단계는 상기 영상 정보를 포함하는 상기 응답 정보를 상기 재생 장치로 전송하는 단계를 포함하는 것을 특징으로 하는 애플리케이션 운용 방법.

【정구항 10】

제1항에 있어서,

상기 응답 정보는 기초로 상기 주 애플리케이션을 운용하는 단계를 더 포함하는 것을 특징으로 하는 애플리케이션 운용 방법.

【정구항 11】

제1항에 있어서,

상기 재생 장치는 BD-J 규격을 지원하는 것을 특징으로 하는 애플리케이션 운용 방법.

【도면의 간단한 설명】

[79] 도 1은 본 발명에 따른 모바일 장치와 BD-J 규격을 지원하는 재생 장치를 이
운항 애플리케이션 운용 방법을 도시한 흐름도.

<80> 도 2는 보조 정보가 URL을 포함하는 경우의 본 발행에 따른 애플리케이션 운용 방법을 도시한 흐름도.

<81> 도 3은 보조 정보가 위치 정보에 대한 요청을 포함하는 경우의 본 발행에 따른 애플리케이션 운용 방법을 도시한 흐름도.

<82> 도 4는 보조 정보가 사용자 정보에 대한 요청을 포함하는 경우의 본 발행에 따른 애플리케이션 운용 방법을 도시한 흐름도.

<83> 도 5는 보조 정보가 영상 정보에 대한 요청을 포함하는 경우의 본 발행에 따른 애플리케이션 운용 방법을 도시한 흐름도.

<84> 도 6은 보조 정보가 음성 정보에 대한 요청을 포함하는 경우의 본 발행에 따른 애플리케이션 운용 방법을 도시한 흐름도.
【도면】

【도 1】

시작

재생 장치에서 주 애플리케이션을 실행

주 애플리케이션의 원용에 필요한 보조 정보를 모바일 장치로 전송

모바일 장치에서 보조 정보와 연관된 보조 애플리케이션을 실행

보조 애플리케이션을 실행하여 임의간 응답 정보를 처리

응답 정보를 기초로 주 애플리케이션을 운용

종료
【도 2】

시작

재생 장치에서 주 애플리케이션을 실행

주 애플리케이션에 포함된 URL을 모바일 장치로 전송

웹 브라우저를 실행하여 URL에 접속

URL과 연관된 웹 페이지를 모바일 장치의 스크린에 표시

종료

【도 3】

시작

재생 장치에서 주 애플리케이션을 실행

주 애플리케이션의 위치 정보에 대한 요청을 모바일 장치로 전송

GPS 애플리케이션을 실행하여 위치 정보 획득

위치 정보를 포함하는 음성 정보를 재생 장치로 전송

위치 정보를 기초로 주 애플리케이션을 운용

종료
【도 4】

시작

재생 장치에서 주 애플리케이션을 실행

주 애플리케이션의 사용자 입력에 대한 요청을 모바일 장치로 전송

키보드 애플리케이션을 실행하여 사용자 입력을 수신

사용자 입력을 포함하는 응답 정보를 재생 장치로 전송

사용자 입력을 기초로 주 애플리케이션을 운용

종료
【도 5】

시작

재생 장치에서 영상 컷체 애플리케이션을 실행 ★500

영상 컷체 애플리케이션의 영상 정보에 대한 요구를 모바일 장치로 전송 ★510

영상 생성 애플리케이션을 실행하여 영상 정보를 생성 ★520

영상 정보를 포함하는 응답 정보를 재생 장치로 전송 ★530

영상 정보를 이용하여 영상 컷체를 수행 ★540

종료
【도 6】

시작

재생 장치에서 음성 인식 애플리케이션을 실행

음성 인식 애플리케이션의 음성 정보에 대한 요청을 모바일 장치로 전송

음성 생성 애플리케이션을 실행하여 음성 정보를 생성

음성 정보를 포함하는 응답 정보를 재생 장치로 전송

음성 정보를 이용하여 음성 인식을 수행

종료
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)

Wonjiang BAEK, Seongnam-si, KOREA, REPUBLIC OF;

Assignment For Published Patent Application

DREAMER, Burbank, CA

Power of Attorney: The patent practitioners associated with Customer Number 20529

Domestic Priority data as claimed by applicant

Foreign Applications

REPUBLIC OF KOREA 10-2009-0055449 06/22/2009

Request to Retrieve - This application either claims priority to one or more applications filed in an intellectual property Office that participates in the Priority Document Exchange (PDX) program or contains a proper Request to Retrieve Electronic Priority Application(s) (PTO/SB/38 or its equivalent). Consequently, the USPTO will attempt to electronically retrieve these priority documents.

If Required, Foreign Filing License Granted: 06/29/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US 12/819,272

Projected Publication Date: 12/23/2010

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **
PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process simplifies the filing of patent applications on the same invention in member countries, but does not result in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application’s filing receipt contains further information and guidance as to the status of applicant’s license for foreign filing.

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

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

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**NOT GRANTED**

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APPLICATION ELEMENTS
See MPEP chapter 600 concerning utility patent application contents.

1. ✔ Fee Transmittal Form (e.g., PTO/SB/17)
2. ✔ Applicant claims small entity status.
   See 37 CFR 1.27.
3. ✔ Specification [Total Pages 21]
   Both the claims and abstract must start on a new page
   (For Information on the preferred arrangement, see MPEP 606.01(a))
4. ✔ Drawing(s) (35 U.S.C. 113) [Total Sheets 6]
5. ✔ Oath or Declaration [Total Sheets 2]
   a. ✔ Newly executed (original or copy)
   b. ☐ A copy from a prior application (37 CFR 1.63(d))
   (for continuation/divisional with Box 18 completed)
   i. ✔ DELETION OF INVENTOR(S)
      Signed statement attached deleting inventor(s)
      name in the prior application, see 37 CFR
      1.63(d)(2) and 1.33(b).
6. ✔ Application Data Sheet. See 37 CFR 1.76
7. ☐ CD-ROM or CD-R in duplicate, large table or
   Computer Program (Appendix)
   Landscape Table on CD
8. ☐ Nucleotide and/or Amino Acid Sequence Submission
   (if applicable, items a. – c. are required)
   a. ☐ Computer Readable Form (CRF)
   b. Specification Sequence Listing on:
      i. ☐ CD-ROM or CD-R (2 copies); or
      ii. ☐ Paper
   c. ☐ Statements verifying identity of above copies
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:
   ☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: __________________________
   Prior application information: Examiner: ____________ Art Unit: ____________

19. CORRESPONDENCE ADDRESS

☐ The address associated with Customer Number: ____________
   OR ☐ Correspondence address below

Name ____________________________
Address ____________________________
City ____________ State ____________ Zip Code ____________
Country ____________________________ Telephone ____________ Email ____________________________
Signature ____________________________ Date June 21, 2010
Name (Print/Type) ____________________________
Registration No. (Attorney/Agent) 41,194

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

### Secrecy Order 37 CFR 5.2

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

### Applicant Information:

<table>
<thead>
<tr>
<th>Applicant</th>
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<tr>
<td><strong>Applicant Authority</strong></td>
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<td><strong>Prefix</strong></td>
<td><strong>Given Name</strong></td>
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<td>Wonjae</td>
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<td><strong>Residence Information (Select One)</strong></td>
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<td>☑ Non US Residency</td>
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<tr>
<td><strong>City</strong></td>
<td><strong>Country Of Residence</strong></td>
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<tr>
<td>Seongnam-si, Gyeonggi-do</td>
<td>KR</td>
</tr>
<tr>
<td><strong>Citizenship under 37 CFR 1.41(b)</strong></td>
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</tr>
<tr>
<td>KR</td>
<td></td>
</tr>
</tbody>
</table>

**Mailing Address of Applicant:**

| Address 1 | | |
| 107-402, AreumMaeul Kunyoung Apts., |
| Address 2 | | |
| Imae-dong, Bundang-gu |
| **City** | **State/Province** | | | |
| Seongnam-si, Gyeonggi-do | | | | |
| **Postal Code** | **Country** | | | |
| 463-731 | KR |

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.

### Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence Information of this application.

**Customer Number** 20529

**Email Address**

Add Email Remove Email

### Application Information:

| **Title of the Invention** | METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION |
| **Attorney Docket Number** | 30932U |
| **Small Entity Status Claimed** | ☒ |
| **Application Type** | Nonprovisional |
| **Subject Matter** | Utility |
| **Suggested Class (if any)** | |
| **Sub Class (if any)** | |
| **Suggested Technology Center (if any)** | |
| **Total Number of Drawing Sheets (if any)** | 6 |
| **Suggested Figure for Publication (if any)** | |

EFS Web 2.2.2
**Publication Information:**

- [ ] Request Early Publication (Fee required at time of Request 37 CFR 1.219)
- [ ] Request Not to Publish. I hereby request that the attached application not be published under 35 U.S. C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

**Representative Information:**

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.

<table>
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<th>Please Select One:</th>
<th>☐ Customer Number</th>
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**Domestic Benefit/National Stage Information:**

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.

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Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.

**Foreign Priority Information:**

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

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Additional Foreign Priority Data may be generated within this form by selecting the Add button.

**Assignee Information:**

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.
<table>
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<th>Application Data Sheet 37 CFR 1.76</th>
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<td>METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION</td>
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<tr>
<td>If the Assignee is an Organization check here.</td>
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<tr>
<td>Organization Name</td>
<td>DREAMER</td>
<td></td>
</tr>
<tr>
<td>Mailing Address Information:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address 1</td>
<td>3500 W. Olive Avenue, Suite 990</td>
<td></td>
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<tr>
<td>Address 2</td>
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<tr>
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<td>Additional Assignee Data may be generated within this form by selecting the Add button.</td>
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</table>

**Signature:**

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

<table>
<thead>
<tr>
<th>Signature</th>
<th>Jerald L. Meyer/</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date (YYYY-MM-DD)</td>
<td>2010-06-21</td>
</tr>
<tr>
<td>First Name</td>
<td>Jerald L.</td>
</tr>
<tr>
<td>Last Name</td>
<td>Meyer</td>
</tr>
<tr>
<td>Registration Number</td>
<td>41194</td>
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This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
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The information provided by you in this form will be subject to the following routine uses:

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

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

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

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

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

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

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

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

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.
METHOD FOR RUNNING APPLICATIONS USING MOBILE DEVICE AND
PLAYBACK APPARATUS SUPPORTING BD-J SPECIFICATION

This application claims the benefit of Korean Patent Application No. 10-2009-0055449 filed on June 22, 2009, which is hereby incorporated for reference.

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a method for running applications using a mobile device and a playback apparatus supporting a BD-J specification, and more particularly to a method for running applications using a mobile device and a playback apparatus supporting a BD-J specification wherein a function that cannot be provided by the playback apparatus supporting the BD-J specification is provided by the mobile device.

2. Description of the Related Art

A Blu-ray specification is designed by Blu-ray Disc Association ("BDA"), whose members include Sony, Hitachi and Sharp. The Blu-ray specification includes a specification of a Blu-ray disk which is an optical disc that may be read and recorded using a blue laser.

While a diameter and a thickness of the Blu-ray disk, which are 12 cm and 1.2 mm, respectively, are same as those of conventional CD (Compact Disc) and DVD (Digital Versatile Disc), a storage capacity thereof is larger than those of the conventional CD and
Because the blue laser having a wavelength of 405 nm is used for reading the Blu-ray disk instead of a red laser having a wavelength of 650 nm used for reading the DVD, more data can be stored in the Blu-ray disk than the DVD.

Specifically, a single layer Blu-ray disk is capable of storing up to 25 GB of a data and a dual layer Blu-ray disk is capable of storing up to 50 GB of the data. This means that the Blu-ray disk can store five times more data than the DVD.

Moreover, a quad layer Blu-ray disk and an octal layer Blu-ray disk can store up to 100 GB and 200 GB, respectively.

The Blu-ray disk supports a video compression codec of MPEG-2 which is widely used in the DVD. Moreover, BDA standard specification requires the Blu-ray disk to use H.264/AVC or VC-1 as the video compression codec which provides improved compression ratio compared to MPEG-2.

In addition, the Blu-ray disk supports audio formats such as Dolby Digital Plus, Dolby TrueHD and DTS-HD Master Audio as well as PCM (Pulse-code modulation), Dolby Digital and DTS.

A Blu-ray player plays audio/video data stored in the Blu-ray disk. A Blu-ray player supporting a BD-J specification supports an interactive service based on JAVA. Moreover, the Blu-ray player supporting the BD-J specification supports a network connectivity, a PIP (Picture-In-Picture) and a connection to a local storage.

Therefore, the Blu-ray player supporting a BD-J specification may play the audio/video data stored in a remote storage.
Henceforth, "a playback apparatus supporting the BD-J specification" includes the Blu-ray player supporting the BD-J specification or an apparatus using a middleware supporting the BD-J specification such as a TV, a set-top box, a PMP (Portable Multimedia Player), a video game console, a PC (Personal Computer) and a PVR (Personal Video Recorder).

The playback apparatus supporting the BD-J specification is capable of executing various applications. For instance, various applications such as a word processor application, a note-pad application, an application including a URL (Uniform Resource Locator) and an image capture application may be executed in the playback apparatus supporting the BD-J specification.

However, the playback apparatus supporting the BD-J specification does not include a user input means, a web browsing means and an image input means. Therefore, the various applications are executed in limited manner in the playback apparatus supporting the BD-J specification.

For example, when the word processor application is executed in the playback apparatus supporting the BD-J specification, the user may only view a document through a document viewer provided by the word processor application and may not edit the document through the word processor application because the playback apparatus supporting the BD-J specification does not include the user input means.

For another example, when the application including the URL is executed in the playback apparatus supporting the BD-J specification, the user cannot use the playback apparatus supporting the BD-J specification to connect to a web page because the playback
apparatus supporting the BD-J specification does not support a web browsing.

When a function not supported by the playback apparatus supporting the BD-J specification is embodied additionally in order to overcome above limitations, a resource of the playback apparatus supporting the BD-J specification may be taken up and a manufacturing cost thereof is increased disadvantageously.
SUMMARY OF THE INVENTION

It is an object of the present invention to provide a method for running applications using a mobile device and a playback apparatus supporting a BD-J specification wherein a function that cannot be provided by the playback apparatus supporting the BD-J specification is provided by the mobile device.

In order to achieve above-described object of the present invention, there is provided a method for running applications using a mobile device and a playback apparatus, the method comprising steps of: (a) executing a main application in the playback apparatus; (b) transmitting to the mobile device an auxiliary information required for running the main application; (c) executing an auxiliary application associated with the auxiliary information in the mobile device; and (d) processing a response information obtained by executing the auxiliary application.

Preferably, the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL.

Preferably, the step (d) comprises displaying a web page associated with the URL on a screen of the mobile device.

Preferably, wherein the auxiliary information includes a request for a location information, and wherein the step (c) comprises executing the auxiliary application including a GPS (Global Positioning System) application to acquire the location information.

Preferably, the step (d) comprises transmitting the response information including
the location information to the playback apparatus.

Preferably, the auxiliary information includes a request for a user input, and wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input.

Preferably, the step (d) comprises transmitting the response information including the user input to the playback apparatus.

Preferably, the auxiliary information includes a request for an image information, and wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information.

Preferably, the step (d) comprises transmitting the response information including the image information to the playback apparatus.

The method in accordance with the present invention may further comprise (e) running the main application based on the response information.

Preferably, the playback apparatus supports a BD-J (Blu-ray Disc Java) specification.

**BRIEF DESCRIPTION OF THE DRAWINGS**

Fig. 1 is a flow diagram illustrating a method for running applications using a mobile device and a playback apparatus supporting a BD-J specification in accordance with the present invention.

Fig. 2 is a flow diagram illustrating a method for running applications when the auxiliary information includes the URL in accordance with the present invention.
Fig. 3 is a flow diagram illustrating a method for running applications when the auxiliary information includes a request for the location information in accordance with the present invention.

Fig. 4 is a flow diagram illustrating a method for running applications when the auxiliary information includes a request for the user input in accordance with the present invention.

Fig. 5 is a flow diagram illustrating a method for running applications when the auxiliary information includes a request for the image information in accordance with the present invention.

Fig. 6 is a flow diagram illustrating a method for running applications when the auxiliary information includes a request for the voice information in accordance with the present invention.

**DETAILED DESCRIPTION OF THE INVENTION**

A method for running applications using a mobile device and a playback apparatus supporting a BD-J specification in accordance with the present invention will be described in detail with reference to accompanied drawing.

Hereinafter, the mobile device may include, but is not limited to, a portable communication terminal such as an iPhone, a PDA (personal digital assistant), a laptop computer and PMP (Portable Media Player). Moreover, the playback apparatus supporting the BD-J specification may include, but is not limited to, a Blu-ray player supporting the BD-J specification and a television, a set-top box and a game machine with a middleware
supporting the BD-J specification.

Fig. 1 is a flow diagram illustrating a method for running applications using a mobile device and a playback apparatus supporting a BD-J specification in accordance with the present invention.

Referring to Fig. 1, a main application is executed in the playback apparatus (S100). The main application may be stored in the playback apparatus or received through a network. The main application may include, but is not limited to, a word processor application, a note-pad application or an image capture application.

Thereafter, an auxiliary information required for running the main application which is executed in the playback apparatus is transmitted to the mobile device (S110).

The auxiliary information includes various informations required for running the main application. In one embodiment, when the main application is the word processor application, the auxiliary information may include a request for a user input. In another embodiment, when the main application is the image capture application, the auxiliary information may include a request for an image information.

Thereafter, an auxiliary application associated with the auxiliary information is executed in the mobile device (S120). In one embodiment, when the main application is the word processor application, the auxiliary application may include a keyboard application for receiving the user input. In another embodiment, when the main application is the image capture application, the auxiliary application may include an image generating application for generating the image information.

Thereafter, a response information obtained by executing the auxiliary application
is processed (S130). In one embodiment, when the auxiliary application is the keyboard application, the response information including the user input received through the keyboard application is transmitted to the playback apparatus. In another embodiment, when the auxiliary application is the image generating application, the response information including the image information generated by the image generating application is transmitted to the playback apparatus.

Thereafter, the main application is run based on the response information received from the playback apparatus (S140). In one embodiment, when the main application is the word processor application, the user input included in the response information received from the mobile device is relayed to the word processor application, and displayed on a screen of a display apparatus connected to the playback apparatus. In another embodiment, when the main application is the image capture application, the image information included in the response information received from the mobile device is relayed to the image capture application to be captured as an image.

Various embodiments in accordance with the present invention will now be described in detail with reference to the accompanied drawings.

[First embodiment]

The first embodiment exemplifies a method in accordance with the present invention wherein a URL (Uniform Resource Locator) is demanded by the main application when running the main application.

Generally, the playback apparatus is not capable of providing a web browsing via a web browser. Therefore, the user can not connect to a web page during an execution of the
main application even if a link including a URL of the web page is displayed on the screen. In accordance with the present invention, the user may use the mobile device in his/her possession to connect to the web page. A detailed description will be given hereinafter.

Fig. 2 is a flow diagram illustrating the method for running applications when the auxiliary information includes the URL in accordance with the present invention.

Referring to Fig. 2, the main application is executed in the playback apparatus (S200). The main application may be a disk playback application playing a blu-ray disk.

The link including the URL of the web page may be displayed on the screen during the execution of the disk playback application. For instance, a link for a detailed information on cast of a movie may be displayed while the user navigates through contents stored in the blu-ray disk.

Thereafter, the URL included in the main application, i.e., the auxiliary information is transmitted to the mobile device (S210).

Thereafter, the web browser is executed in the mobile device and connects to the URL (S220). The playback apparatus is not equipped the web browser. The user cannot browse through the web page because the playback apparatus is not capable of providing the web browsing. However, the mobile device equipped with the web browser may connect to the URL received from the playback apparatus to download a content associated with the URL.

Thereafter, the web page associated with the URL is displayed on the screen of the mobile device (S230).

[Second embodiment]
The second embodiment exemplifies a method in accordance with the present invention wherein a location information is demanded during the process of executing the main application.

Generally, the playback apparatus is not capable of providing a GPS (Global Positioning System) function which provides the location information. Therefore, the playback apparatus may not execute the main application properly when the main application requires the location information. In accordance with the present invention, when the main application requires the location information, the playback apparatus may receive the location information from the mobile device to properly execute the main application. A detailed description is given below.

Fig. 3 is a flow diagram illustrating the method for running applications when the auxiliary information includes a request for the location information in accordance with the present invention.

Referring to Fig. 3, the main application is executed in the playback apparatus (S300). The main application may be a map service application requiring the location information.

When the location information is required during the execution of the map service application, the auxiliary information, generated by the playback apparatus, including the request for the map service application is transmitted to the mobile device (S310).

Thereafter, the location information is acquired from a GPS module connected to the mobile device by executing a GPS application in the mobile device (S320).
Thereafter, the response information, generated by the mobile device, including the location information which is obtained from the GPS module is transmitted to the playback apparatus (S330).

Thereafter, the location information included in the response information received from the playback apparatus is relayed to the main application (S340). The location information may be displayed on the screen of a display apparatus connected to the playback apparatus when necessary.

While the main application requiring the location information is exemplified in the second embodiment, the main application may require other informations. For instance, the main application may require value measured by a sensor that is equipped by the mobile device, but not equipped by the playback apparatus such as an acceleration sensor and a compass. When the main application requires the value, the mobile device transmits the response information including the value in response to the request from the playback apparatus.

[Third embodiment]

The third embodiment exemplifies a method in accordance with the present invention wherein the user input is demanded during the process of executing the main application.

Generally, the playback apparatus is not capable of providing a keyboard function for receiving the user input. Therefore, the playback apparatus may not execute the main application properly when the main application requires the user input. In accordance with the present invention, when the main application requires the user input, the playback
apparatus may receive the user input from the mobile device to properly execute the main application. A detailed description is given below.

Fig. 4 is a flow diagram illustrating the method for running applications when the auxiliary information includes a request for the user input in accordance with the present invention.

Referring to Fig. 4, the main application is executed in the playback apparatus (S400). The main application may be a word processor application, a note-pad application, an e-mail application or a character input application requiring the user input such as a keyboard input.

When the user input is required during the execution of the word processor application or the note-pad application, the auxiliary information, generated by the playback apparatus, including the request for the user input is transmitted to the mobile device (S410).

Thereafter, the user input is received by executing the keyboard application in the mobile device (S420). For instance, when the mobile device is equipped with a touch screen, the user input is received by executing a touch screen application.

Thereafter, the response information, generated by the mobile device, including the user input obtained by the keyboard application is transmitted to the playback apparatus (S430).

Thereafter, the user input included in the response information which is received from the mobile device is relayed to the main application (S440). The user input may be displayed on the screen of the display apparatus connected to the playback apparatus when
necessary.

[Fourth embodiment]

The fourth embodiment exemplifies a method in accordance with the present invention wherein the image information is demanded during the process of executing the main application.

Generally, the playback apparatus is not capable of providing a camera function for obtaining the image information. Therefore, the playback apparatus may not execute the main application properly when the main application requires the image information. In accordance with the present invention, when the main application requires the image information, the playback apparatus may receive the image information from the mobile device to properly execute the main application. A detailed description is given below.

Fig. 5 is a flow diagram illustrating the method for running applications when the auxiliary information includes a request for the image information in accordance with the present invention.

Referring to Fig. 5 the main application is executed in the playback apparatus (S500). The main application may be an image capture application requiring the image information such as a camera input.

When the image information is required during the execution of the image capture application, the auxiliary information, generated by the playback apparatus, including the request for the image information is transmitted to the mobile device (S510).

Thereafter, the image information is generated by executing an image generation application in the mobile device (S520). For instance, when the mobile device is equipped
with a camera, the image information is generated by executing the image generation application.

Thereafter, the response information, generated by the mobile device, including the image information obtained from the image generation application is transmitted to the playback apparatus (S530).

Thereafter, the image information included in the response information received from the playback apparatus is relayed to the main application (S540). The image information may be displayed on the screen of the display apparatus connected to the playback apparatus when necessary.

[Fifth embodiment]

The fifth embodiment exemplifies a method in accordance with the present invention wherein a voice information is demanded during the process of executing the main application.

Generally, the playback apparatus is equipped with a microphone for obtaining the voice information. Therefore, the playback apparatus may not execute the main application properly when the main application requires the voice information. In accordance with the present invention, when the main application requires the voice information, the playback apparatus may receive the voice information from the mobile device to properly execute the main application. A detailed description is given below.

Fig. 6 is a flow diagram illustrating the method for running applications when the auxiliary information includes a request for the voice information in accordance with the present invention.
Referring to Fig. 6 the main application is executed in the playback apparatus (S600). The main application may be a voice recognition application requiring the voice information such as a microphone input.

When the voice information is required during the execution of the voice recognition application, the auxiliary information, generated by the playback apparatus, including the request for the voice information is transmitted to the mobile device (S610).

Thereafter, the voice information is generated by executing a voice generation application in the mobile device (S620). For instance, when the mobile device is equipped with the microphone, the voice information is generated by executing the voice generation application for receiving the voice information from the user.

Thereafter, the response information, generated by the mobile device, including the voice information generated by the voice generation application is transmitted to the playback apparatus (S630).

Thereafter, the voice information included in the response information received from the playback apparatus is relayed to the main application (S640). A voice recognition is carried out by the voice recognition application using the voice information.

In accordance with the present invention, a function that cannot be provided by the playback apparatus supporting the BD-J specification is provided by the mobile device, thereby preventing the lack of resources and suppressing the rise of the manufacturing costs.

While the present invention has been particularly shown and described with reference to the preferred embodiment thereof, it will be understood by those skilled in the art that various changes in form and details may be effected therein without departing from
the spirit and scope of the invention as defined by the appended claims.
What is claimed is:

1. A method for running applications using a mobile device and a playback apparatus, the method comprising steps of:
   (a) executing a main application in the playback apparatus;
   (b) transmitting to the mobile device an auxiliary information required for running the main application;
   (c) executing an auxiliary application associated with the auxiliary information in the mobile device; and
   (d) processing a response information obtained by executing the auxiliary application.

2. The method in accordance with claim 1, wherein the auxiliary information includes an URL (Uniform Resource Locator), and wherein the step (c) comprises executing the auxiliary application including a web browser to connect to the URL.

3. The method in accordance with claim 2, wherein the step (d) comprises displaying a web page associated with the URL on a screen of the mobile device.

4. The method in accordance with claim 1, wherein the auxiliary information includes a request for a location information, and wherein the step (c) comprises executing the auxiliary application including a GPS
(Global Positioning System) application to acquire the location information.

5. The method in accordance with claim 4, wherein the step (d) comprises transmitting the response information including the location information to the playback apparatus.

6. The method in accordance with claim 1, wherein the auxiliary information includes a request for a user input, and

   wherein the step (c) comprises executing the auxiliary application including a keyboard application to receive the user input.

7. The method in accordance with claim 6, wherein the step (d) comprises transmitting the response information including the user input to the playback apparatus.

8. The method in accordance with claim 1, wherein the auxiliary information includes a request for an image information, and

   wherein the step (c) comprises executing the auxiliary application including an image generation application to generate the image information.

9. The method in accordance with claim 8, wherein the step (d) comprises transmitting the response information including the image information to the playback apparatus.
10. The method in accordance with claim 1, further comprising (e) running the main application based on the response information.

11. The method in accordance with claim 1, wherein the playback apparatus supports a BD-J (Blu-ray Disc Java) specification.
ABSTRACT OF DISCLOSURE

A method for running applications using a mobile device and a playback apparatus supporting a BD-J specification is disclosed. In accordance with the present invention, a function that cannot be provided by the playback apparatus supporting the BD-J specification is provided by the mobile device, thereby preventing the lack of resources and the rise of suppressing the manufacturing costs of the playback apparatus.
START

Main application is executed in playback apparatus

Auxiliary information required for the main application is transmitted to mobile device

Auxiliary application associated with auxiliary information is executed in mobile device

Response information obtained by executing auxiliary information is processed

Main application is run based on response information

END

Fig. 1
START

Main application is executed in playback apparatus  S200

URL included in main application is transmitted to mobile device  S210

Execute web browser to connect to URL  S220

display web page associated with URL on screen of mobile device  S230

END

Fig. 2
START

Main application is executed in playback apparatus ~ S300

Request for location information is transmitted to mobile device ~ S310

Location information is obtained by executing GPS application ~ S320

Response information including location information is transmitted to playback apparatus ~ S330

Main application is run based on location information ~ S340

END

Fig. 3
START

Main application is executed in playback apparatus → S400

Request for user input is transmitted to mobile device → S410

User input is received by executing keyboard application → S420

Response information including user input is transmitted to playback apparatus → S430

Main application is run based on user input → S440

END

Fig. 4
START

Image capture application is executed in playback apparatus

Request for image information is transmitted to mobile device

Image information is generated by executing image generating application

Response information including image information is transmitted to playback apparatus

Image is captured from image information

END

Fig. 5
START

Voice recognition application is executed in playback apparatus \(\sim S600\)

Request for voice information is transmitted to mobile device \(\sim S610\)

Voice information is generated by executing voice generation application \(\sim S620\)

Response information including voice information is transmitted to playback apparatus \(\sim S630\)

Voice recognition is carried out using voice information. \(\sim S640\)

END

Fig. 6
DECLARATION FOR PATENT APPLICATION

As a below-named inventor(s), I/we hereby declare that:

My/Our residence(s), post office address(es) and citizenship(s) is/are as stated below next to my/our name(s).

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

the specification of which: [check one]

[X] is attached hereto.

[ ] was filed on ______________, as Serial No. ______________,

and was amended on ______________ (if applicable).

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

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined by 37 CFR § 1.56.

I/We hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor’s certificate listed below, and have also identified below any foreign application for patent or inventor’s certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Applications:

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I/We hereby appoint the Practitioners associated with the following Customer Number:

Customer Number 20529

Direct Telephone Calls to:

Gary M. Nath
(703) 548-6284

Send Correspondence to:

Customer Number 20529
THE NATH LAW GROUP
112 South West Street
Alexandria, VA 22314
U.S.A.

I/We hereby claim the benefit under 35 U.S.C § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by 35 U.S.C. § 112, first paragraph, I/We acknowledge the duty to disclose material information as defined in 37 CFR § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

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I/we hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:

Application Number(s) ____________________________ Filing Date ____________________________

We 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 are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: BAEG, WOONG
Inventor's Signature: ____________________________ Date: 5/12/10

Residence: 107-402, AreumMaeul Kunyoung Apts., Imae-dong, Bundang-qu, Seongnam-si, Gyeonggi-do 463-731, Republic of Korea

Country of Citizenship: Republic of Korea

Post Office Address: 107-402, AreumMaeul Kunyoung Apts., Imae-dong, Bundang-qu, Seongnam-si, Gyeonggi-do 463-731, Republic of Korea
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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

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

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

*Substitute for Form PTO-875*

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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 number found in the appropriate box in column 1.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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