



APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/874,535	02/19/2019	10212586	072388.0418	9744

21003 7590 01/30/2019
BAKER BOTTS L.L.P.
30 ROCKEFELLER PLAZA
44TH FLOOR
NEW YORK, NY 10112-4498

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 54 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

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

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

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

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

Masayuki HIRABAYASHI, Yokohama, JAPAN;
Maxell, Ltd., Kyoto, JAPAN;
Hideo NISHIJIMA, Hitachinaka, JAPAN;

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PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

By fax, send to: (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)

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.

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(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/874,535	05/01/2013	Masayuki HIRABAYASHI	072388.0418	9744

TITLE OF INVENTION: MOBILE TERMINAL AND CONTROL METHOD THEREOF

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$1000.00	\$0	03/19/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
SHIUE, DONG-CHANG	2648	455-026100

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. Use of a Customer Number is required.</p>	<p>2. For printing on the patent front page, list</p> <p>(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,</p> <p>(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.</p> <p>1 <u>Baker Botts L.L.P.</u></p> <p>2 _____</p> <p>3 _____</p>
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3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: **MAXELL, LTD.** (B) RESIDENCE: (CITY and STATE OR COUNTRY) **KYOTO, JAPAN**

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

4a. Fees submitted: Issue Fee Publication Fee (if required) Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

Electronic Payment via EFS-Web Enclosed check Non-electronic payment by credit card (Attach form PTO-2038)

The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. **02-4377**

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.

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NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

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 /Jonathan D. Cocks/ Date January 8, 2019

Typed or printed name Jonathan D. Cocks Registration No. 75,646

Electronic Acknowledgement Receipt

EFS ID:	34788729
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Jonathan Drew Cocks/Hiroko Lavietes
Filer Authorized By:	Jonathan Drew Cocks
Attorney Docket Number:	072388.0418
Receipt Date:	08-JAN-2019
Filing Date:	01-MAY-2013
Time Stamp:	11:06:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Issue_Fee_Transmittal.pdf	123505 <small>814226a856870d9799db3c1ddccb12e4a1 10198d</small>	no	1

Warnings:

IPR2020-00202

Information:	
Total Files Size (in bytes):	123505
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	

PART B - FEE(S) TRANSMITTAL

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P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/874,535	05/01/2013	Masayuki HIRABAYASHI	072388.0418	9744

TITLE OF INVENTION: MOBILE TERMINAL AND CONTROL METHOD THEREOF

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$1000.00	\$0	03/19/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
SHIUE, DONG-CHANG	2648	455-026100

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 03-09 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.

1 Baker Botts L.L.P.
 2 _____
 3 _____

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(A) NAME OF ASSIGNEE

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

MAXELL, LTD.

KYOTO, JAPAN

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

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- Applicant asserting small entity status. See 37 CFR 1.27
- Applicant changing to regular undiscounted fee status.

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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 /Jonathan D. Cocks/
 Typed or printed name Jonathan D. Cocks

Date January 8, 2019
 Registration No. 75,646

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NOTICE OF ALLOWANCE AND FEE(S) DUE

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NEW YORK, NY 10112-4498

Table with 2 columns: EXAMINER (SHIUE, DONG-CHANG), ART UNIT (2648), PAPER NUMBER

DATE MAILED: 12/19/2018

Table with 5 columns: APPLICATION NO. (13/874,535), FILING DATE (05/01/2013), FIRST NAMED INVENTOR (Masayuki HIRABAYASHI), ATTORNEY DOCKET NO. (072388.0418), CONFIRMATION NO. (9744)

TITLE OF INVENTION: MOBILE TERMINAL AND CONTROL METHOD THEREOF

Table with 7 columns: APPLN. TYPE (nonprovisional), ENTITY STATUS (UNDISCOUNTED), ISSUE FEE DUE (\$1000), PUBLICATION FEE DUE (\$0.00), PREV. PAID ISSUE FEE (\$1000.00), TOTAL FEE(S) DUE (\$0), DATE DUE (03/19/2019)

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: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

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(Date)

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EXAMINER	ART UNIT	CLASS-SUBCLASS
SHIUE, DONG-CHANG	2648	455-026100

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Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 13/874,535, 05/01/2013, Masayuki HIRABAYASHI, 072388.0418, 9744
Row 2: 21003, 7590, 12/19/2018, EXAMINER SHIUE, DONG-CHANG
Row 3: BAKER BOTTS L.L.P., 30 ROCKEFELLER PLAZA, 44TH FLOOR, NEW YORK, NY 10112-4498, ART UNIT 2648, PAPER NUMBER

DATE MAILED: 12/19/2018

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 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, 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 of the Patent Cooperation Treaty or Patent Act.

**Corrected
Notice of Allowability**

Application No.
13/874,535

Applicant(s)
HIRABAYASHI et al.

Examiner
DONG-CHANG SHIUE

Art Unit
2648

AIA Status
No

-- 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 Petition and amendment filed on 9/7/2018.
 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 1,3-5,8,10 and 12-25. 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:
- Certified copies of the priority documents have been received.
 - Certified copies of the priority documents have been received in Application No. _____.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

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


THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____. | 6. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material _____. | 7. <input type="checkbox"/> Other _____. |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date. _____. | |

/DONG-CHANG SHIUE/
Primary Examiner, Art Unit 2648

Search Notes 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648


CPC - Searched*		
Symbol	Date	Examiner
H04W12/06	12/15/2014	DS
H04L63/0492	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS
Updated search	12/5/2017	ds
H04M1/66 H04B7/00 H04L9/32 H04W12/00 H04W12/\$	4/23/2018	ds
Updated search	7/3/2018	ds
Updated search	08/04/2018	ds
Updated search	09/20/2018	ds
Updated search	11/26/2018	ds

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
455	26.1, 41.2	12/15/2014	DS

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.


/DONG-CHANG SHIUE/ Examiner, Art Unit 2648	/DONG-CHANG SHIUE/ Primary Examiner, Art Unit 2648
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Search Notes 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

Search Notes		
Search Notes	Date	Examiner
EAST (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	12/15/2014	DS
Inventor/Assignee search in EAST and eDAN	12/15/2014	DS
Consulted with Lewis West	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS
Updated search	12/5/2017	ds
Updated search	4/23/2018	ds
Consulted with Wesley Kim on 102 on 4/23/2018		
Updated search	7/3/2018	ds
Updated search	08/04/2018	ds
Updated search	09/20/2018	ds
Updated search	11/26/2018	ds

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
(Same as above)		08/04/2018	ds
(Same as above)		09/20/2018	ds
(same as above)		11/26/2018	ds


/DONG-CHANG SHIUE/ Examiner, Art Unit 2648	/DONG-CHANG SHIUE/ Primary Examiner, Art Unit 2648
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Issue Classification 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

CPC						
Symbol				Type	Version	
H04W	/	12	/	06	F	2013-01-01
H04L	/	63	/	0492	I	2013-01-01

CPC Combination Sets						
Symbol			Type	Set	Ranking	Version
	/		/			

None		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/DONG-CHANG SHIUE/ Primary Examiner, Art Unit 2648	12 December 2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

Issue Classification 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648


INTERNATIONAL CLASSIFICATION		
CLAIMED		
H04W	/ 12	/ 06

NON-CLAIMED		
/	/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					


None			Total Claims Allowed:	
(Assistant Examiner)	(Date)	20		
/DONG-CHANG SHIUE/ Primary Examiner, Art Unit 2648	12 December 2018	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	1	2	

Issue Classification 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

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

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	11	10	18	19										
-	2	-	11	7	20										
3	3	12	12	8	21										
4	4	2	13	14	22										
5	5	10	14	15	23										
-	6	16	15	19	24										
-	7	17	16	20	25										
9	8	6	17												
-	9	13	18												

None		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/DONG-CHANG SHIUE/ Primary Examiner, Art Unit 2648	12 December 2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

<i>Index of Claims</i> 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

CLAIMS										
<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47										
CLAIM		DATE								
Final	Original	12/15/2014	02/04/2016	07/19/2016	12/11/2016	04/20/2017	12/05/2017	04/23/2018	07/03/2018	11/26/2018
	1	✓	✓	✓	✓	✓	✓	✓	✓	=
	2	✓	-	-	-	-	-	-	-	-
	3	✓	✓	✓	✓	✓	✓	✓	✓	=
	4	✓	✓	✓	✓	✓	✓	✓	✓	=
	5	✓	✓	✓	✓	✓	✓	✓	✓	=
	6	✓	-	-	-	-	-	-	-	-
	7	✓	-	-	-	-	-	-	-	-
	8	✓	✓	✓	✓	✓	✓	✓	✓	=
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	11	✓	-	-	-	-	-	-	-	-
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	14				✓	✓	✓	✓	✓	=
	15				✓	✓	✓	✓	✓	=
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	23							✓	✓	=
	24							✓	✓	=
	25							✓	✓	=

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hirabayashi, *et al.* Examiner: Shiue, Dong-Chang
Serial No.: 13/874,535 Confirmation No.: 9744
Filed: May 1, 2013 Art Unit: 2648
Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF

MAIL STOP PETITIONS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PETITION TO WITHDRAWAL FROM ISSUE
PURSUANT TO 37 C.F.R. §1.313(c)(1)

Applicant hereby petitions for the withdrawal of this application from issue under 37 C.F.R. § 1.313(c)(1). One or more of the claims are unequivocally unpatentable as written; as such, an amendment to said claim or claims and an explanation as to how the amendment causes such claim or claims to be patentable is filed herewith. The Issue Fee was paid in this case on August 29, 2018. Applicant acknowledges that the Issue Fee paid on August 29, 2018, is not refundable. However, if the application is again allowed, Applicant requests that it be applied towards the Issue Fee required by the new Notice of Allowance.

AMENDMENTS TO THE CLAIMS begin on page 2.

REMARKS begin on page 9.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S977	538	(phone mobile portable) near5 (nfc ("near" adj field) bluetooth (short\$1range)) near5 (lock\$3 unlock\$3 control\$4) near3 (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:13
S976	7	S975 and (off lock\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:13
S975	10	("20120040611" "20120045989" "20130073448" "20130079026" "20130154926" "20130196594" "20130203347" "20130304635" "20140087660" "20150134513").PN. OR ("9998176").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2018/11/26 20:13
S974	26	("20120040611" "20120045989" "20130073448" "20130079026" "20130154926" "20130196594" "20130203347" "20130304635" "20140087660" "20150134513").PN. OR ("9998176").URPN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:13
S973	63	(maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3) and (@pd or @ad or @rlad or @prad)<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:13
S972	624	(maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
S971	10301	(maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
S970	4	(maintain\$3 back\$ground) with (link	US-PGPUB;	OR	ON	2018/11/26

		communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:12
S969	241	(maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
S968	5	(short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
S967	43	((locked)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
S966	7	((screen display) near5 (locked)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
S965	8	((screen display) near5 (locked)) same (short1range bluetooth wi\$1fi) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
S964	27	S963 and (sav\$3 stor\$3) same (identifi\$6 key\$1 information) same (devices terminals)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
S963	44	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$ or US-20090015654-\$ or US-20130095802-\$ or US-20070229221-\$ or US-20130259232-\$ or US-	US-PGPUB; USPAT; DERWENT	OR	ON	2018/11/26 20:12

S950	192	S949 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:11
S949	41918	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:11
S948	13	S947 and (GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:11
S947	103	S945 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:11
S946	103	S945 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:11
S945	10271	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:11
S944	21	@ad< "20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
S943	53072	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentikat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
S942	906	S941 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2018/11/26 20:10

			DERWENT; IBM_TDB			
S941	10271	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
S940	35	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US- 8019322-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
S939	122	S938 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
S938	10271	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
S937	122	S936 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
S936	10271	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
S935	8510	(H04M1/66 H04B7/00 H04L9/32).cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
S934	63	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2018/11/26 20:10

S933	19	NISHIJIMA.in. and Hide.in.	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
S932	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10

EAST Search History (I nterference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S994	0	((connect\$3 communicat\$3 coupl\$3) same (second) with (screen display) near3 locked) same (tablet phablet pda (cell mobile wireless handheld portable cellular) same (phone device station handset)) same (short\$1range blue\$1tooth wi\$1fi)).clm.	USPAT	OR	ON	2018/11/26 20:18
S993	0	((short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))).clm.	USPAT	OR	ON	2018/11/26 20:18
S992	0	((tablet phablet pda (cell mobile wireless handheld portable cellular) same (phone device station handset)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (screen display) near3 locked).clm.	USPAT	OR	ON	2018/11/26 20:18
S991	0	((maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (both with (locked disabled))).clm.	USPAT	OR	ON	2018/11/26 20:17
S990	0	((maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))).clm.	USPAT	OR	ON	2018/11/26 20:17
S989	0	((short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked).clm.	USPAT	OR	ON	2018/11/26 20:17
S988	0	((lock\$3 unlock\$3) with (control\$4 releas\$3)	USPAT	OR	ON	2018/11/26

IPR2020-00202

		same (authenticat\$3 key security) same ((screen display) near5 (locked)) same (short1range bluetooth wi\$1fi) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))).clm.				20:17
S987	913	((lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)).clm.	USPAT	OR	ON	2018/11/26 20:17
S986	0	((connect\$3 communicat\$3 coupl\$3) same (second) with (screen display) near3 locked) same (tablet phablet pda (cell mobile wireless handheld portable cellular) same (phone device station handset)) same (short\$1range blue\$1tooth wi\$1fi)).clm.	USPAT	OR	ON	2018/11/26 20:17
S985	0	((short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))).clm.	USPAT	OR	ON	2018/11/26 20:17
S984	0	((tablet phablet pda (cell mobile wireless handheld portable cellular) same (phone device station handset)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (screen display) near3 locked).clm.	USPAT	OR	ON	2018/11/26 20:17
S983	0	((maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (both with (locked disabled))).clm.	USPAT	OR	ON	2018/11/26 20:17
S982	0	((maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))).clm.	USPAT	OR	ON	2018/11/26 20:16
S981	0	((short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked).clm.	USPAT	OR	ON	2018/11/26 20:16
S980	0	((lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) same ((screen display) near5 (locked)) same (short1range bluetooth wi\$1fi) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))).clm.	USPAT	OR	ON	2018/11/26 20:16
S979	913	((lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)).clm.	USPAT	OR	ON	2018/11/26 20:16
S978	1761	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and (@pd or @ad or @rlad	USPAT	OR	ON	2018/11/26 20:16

| | | | | or @prad) < "20120523" | | | | |

12/ 12/ 2018 2:28:42 PM

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO. Includes details for application 13/874,535 and 21003 7590, listing inventor Masayuki HIRABAYASHI and attorney BAKER BOTTS L.L.P.

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):

DLNYDOCKET@BAKERBOTTS.COM

**Corrected
Notice of Allowability**

Application No. 13/874,535	Applicant(s) HIRABAYASHI et al.	
Examiner DONG-CHANG SHIUE	Art Unit 2648	AIA Status No

-- 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 Petition and amendment filed on 9/7/2018.
 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 1,3-5,8,10 and 12-25 . 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. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____. | 6. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material _____. | 7. <input type="checkbox"/> Other _____. |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date. _____. | |

/DONG-CHANG SHIUE/
Primary Examiner, Art Unit 2648

Search Notes 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648


CPC - Searched*		
Symbol	Date	Examiner
H04W12/06	12/15/2014	DS
H04L63/0492	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS
Updated search	12/5/2017	ds
H04M1/66 H04B7/00 H04L9/32 H04W12/00 H04W12/\$	4/23/2018	ds
Updated search	7/3/2018	ds
Updated search	08/04/2018	ds
Updated search	09/20/2018	ds
Updated search	11/26/2018	ds

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
455	26.1, 41.2	12/15/2014	DS

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.


/DONG-CHANG SHIUE/ Examiner, Art Unit 2648	/DONG-CHANG SHIUE/ Primary Examiner, Art Unit 2648
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Search Notes 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

Search Notes		
Search Notes	Date	Examiner
EAST (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	12/15/2014	DS
Inventor/Assignee search in EAST and eDAN	12/15/2014	DS
Consulted with Lewis West	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS
Updated search	12/5/2017	ds
Updated search	4/23/2018	ds
Consulted with Wesley Kim on 102 on 4/23/2018		
Updated search	7/3/2018	ds
Updated search	08/04/2018	ds
Updated search	09/20/2018	ds
Updated search	11/26/2018	ds

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
(Same as above)		08/04/2018	ds
(Same as above)		09/20/2018	ds
(same as above)		11/26/2018	ds


/DONG-CHANG SHIUE/ Examiner, Art Unit 2648	/DONG-CHANG SHIUE/ Primary Examiner, Art Unit 2648
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Issue Classification 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

CPC						
Symbol				Type	Version	
H04W	/	12	/	06	F	2013-01-01
H04L	/	63	/	0492	I	2013-01-01

CPC Combination Sets					
Symbol		Type	Set	Ranking	Version
	/		/		

None		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/DONG-CHANG SHIUE/ Examiner, Art Unit 2648	26 November 2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

Issue Classification 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648


INTERNATIONAL CLASSIFICATION			
CLAIMED			
H04W	/	12	/ 06

NON-CLAIMED			
/	/	/	/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					


None			Total Claims Allowed:	
(Assistant Examiner)	(Date)	20		
/DONG-CHANG SHIUE/ Examiner, Art Unit 2648	26 November 2018	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	1	2	

Issue Classification 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

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

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	11	10	18	19										
-	2	-	11	7	20										
3	3	12	12	8	21										
4	4	2	13	14	22										
5	5	10	14	15	23										
-	6	16	15	19	24										
-	7	17	16	20	25										
9	8	6	17												
-	9	13	18												

None		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/DONG-CHANG SHIUE/ Examiner, Art Unit 2648	26 November 2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

<i>Index of Claims</i> 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

CLAIMS										
<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47										
CLAIM		DATE								
Final	Original	12/15/2014	02/04/2016	07/19/2016	12/11/2016	04/20/2017	12/05/2017	04/23/2018	07/03/2018	11/26/2018
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	2	✓	-	-	-	-	-	-	-	-
	3	✓	✓	✓	✓	✓	✓	✓	✓	=
	4	✓	✓	✓	✓	✓	✓	✓	✓	=
	5	✓	✓	✓	✓	✓	✓	✓	✓	=
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	13				✓	✓	✓	✓	✓	=
	14				✓	✓	✓	✓	✓	=
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	22							✓	✓	=
	23							✓	✓	=
	24							✓	✓	=
	25							✓	✓	=

		communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:12
L38	241	(maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
L37	5	(short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
L36	43	((locked)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
L35	7	((screen display) near5 (locked)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
L34	8	((screen display) near5 (locked)) same (short1range bluetooth wi\$1fi) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
L33	27	L32 and (sav\$3 stor\$3) same (identifi\$6 key\$1 information) same (devices terminals)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
L32	44	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$ or US-20090015654-\$ or US-20130095802-\$ or US-20070229221-\$ or US-20130259232-\$ or US-20040181678-\$	US-PGPUB; USPAT; DERWENT	OR	ON	2018/11/26 20:12

		or US-20060123242-\$ or US-20130183936-\$ or US-20110214158-\$ or US-20120280790-\$.did. or (US-20170011387-\$ or US-20070287423-\$ or US-20110086615-\$.did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$ or US-7674298-\$ or US-7257374-\$ or US-8041340-\$ or US-8467770-\$ or US-8112066-\$ or US-8874467-\$.did. or (US-6614350-\$ or US-20110086615-\$.did.				
L31	82	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$ or US-20090015654-\$ or US-20130095802-\$ or US-20070229221-\$ or US-20130259232-\$ or US-20040181678-\$ or US-20060123242-\$ or US-20130183936-\$ or US-20110214158-\$ or US-20120280790-\$.did. or (US-20170011387-\$ or US-20070287423-\$ or US-20110086615-\$.did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$ or US-7674298-\$ or US-7257374-\$ or US-8041340-\$ or US-8467770-\$ or US-8112066-\$ or US-8874467-\$.did. or (US-6614350-\$ or US-20110086615-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
L30	0	L29 and (authentivat\$3) with (face) same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
L29	9620	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:12
L28	91	(secure authentivat\$3) with (face image) and (455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:11
L27	238	L26 and (lock\$3 un-lock\$3 unlock\$3) with (short-range (short adj range) bluetooth blue-tooth NFC ("near" adj field))	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2018/11/26 20:11

L10	10271	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
L9	35	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
L8	122	L7 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
L7	10271	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
L6	122	L5 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
L5	10271	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
L4	8510	(H04M1/66 H04B7/00 H04L9/32).cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
L3	63	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10
L2	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT;	OR	ON	2018/11/26 20:10

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L1	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/26 20:10

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L63	0	((connect\$3 communicat\$3 coupl\$3) same (second) with (screen display) near3 locked) same (tablet phablet pda (cell mobile wireless handheld portable cellular) same (phone device station handset)) same (short\$1range blue\$1tooth wi\$1fi)).clm.	USPAT	OR	ON	2018/11/26 20:18
L62	0	((short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))).clm.	USPAT	OR	ON	2018/11/26 20:18
L61	0	((tablet phablet pda (cell mobile wireless handheld portable cellular) same (phone device station handset)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (screen display) near3 locked)).clm.	USPAT	OR	ON	2018/11/26 20:18
L60	0	((maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (both with (locked disabled))).clm.	USPAT	OR	ON	2018/11/26 20:17
L59	0	((maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))).clm.	USPAT	OR	ON	2018/11/26 20:17
L58	0	((short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked)).clm.	USPAT	OR	ON	2018/11/26 20:17
L57	0	((lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) same ((screen display) near5 (locked)) same (short1range bluetooth wi\$1fi) same (second) with (tablet phablet pda (cell mobile wireless	USPAT	OR	ON	2018/11/26 20:17

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Apple Inc. EX1002 Page 43

		handheld portable cellular) near2 (phone device station handset))).clm.				
L56	913	((lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)).clm.	USPAT	OR	ON	2018/11/26 20:17
L55	0	(((connect\$3 communicat\$3 coupl\$3) same (second) with (screen display) near3 locked) same (tablet phablet pda (cell mobile wireless handheld portable cellular) same (phone device station handset)) same (short\$1range blue\$1tooth wi\$1fi)).clm.	USPAT	OR	ON	2018/11/26 20:17
L54	0	(((short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))).clm.	USPAT	OR	ON	2018/11/26 20:17
L53	0	(((tablet phablet pda (cell mobile wireless handheld portable cellular) same (phone device station handset)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (screen display) near3 locked).clm.	USPAT	OR	ON	2018/11/26 20:17
L52	0	(((maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (both with (locked disabled))).clm.	USPAT	OR	ON	2018/11/26 20:17
L51	0	(((maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))).clm.	USPAT	OR	ON	2018/11/26 20:16
L50	0	(((short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked).clm.	USPAT	OR	ON	2018/11/26 20:16
L49	0	(((lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) same ((screen display) near5 (locked)) same (short1range bluetooth wi\$1fi) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))).clm.	USPAT	OR	ON	2018/11/26 20:16
L48	913	(((lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)).clm.	USPAT	OR	ON	2018/11/26 20:16
L47	1761	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and (@pd or @ad or @rlad or @prad)<"20120523"	USPAT	OR	ON	2018/11/26 20:16

11/26/2018 8:19:09 PM

C:\Users\dshiu\Documents\EAST\Workspaces\13874535.wsp

IPR2020-00202

Apple Inc. EX1002 Page 44

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hirabayashi, *et al.* Examiner: Shiue, Dong-Chang
Serial No.: 13/874,535 Confirmation No.: 9744
Filed: May 1, 2013 Art Unit: 2648
Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF

MAIL STOP PETITIONS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PETITION TO WITHDRAWAL FROM ISSUE
PURSUANT TO 37 C.F.R. §1.313(c)(1)

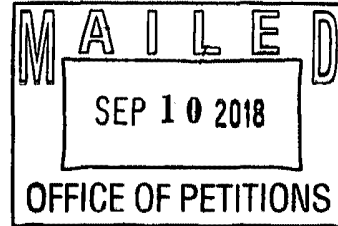
Applicant hereby petitions for the withdrawal of this application from issue under 37 C.F.R. § 1.313(c)(1). One or more of the claims are unequivocally unpatentable as written; as such, an amendment to said claim or claims and an explanation as to how the amendment causes such claim or claims to be patentable is filed herewith. The Issue Fee was paid in this case on August 29, 2018. Applicant acknowledges that the Issue Fee paid on August 29, 2018, is not refundable. However, if the application is again allowed, Applicant requests that it be applied towards the Issue Fee required by the new Notice of Allowance.

AMENDMENTS TO THE CLAIMS begin on page 2.

REMARKS begin on page 9.



BAKER BOTTS L.L.P.
30 ROCKEFELLER PLAZA
44TH FLOOR
NEW YORK NY 10112-4498



In re Application of :
Masayuki Hirabayashi, et al :
Application No. 13/874,535 : DECISION GRANTING PETITION
Filed: May 1, 2013 : UNDER 37 CFR 1.313(c)(1)
Attorney Docket No. 072388.0418 :

This is a decision on the petition under 37 CFR 1.313(c)(1), filed September 7, 2018, to withdraw the above-identified application from issue after payment of the issue fee.

The petition is **GRANTED**.

37 CFR 1.313(c) provides that:

Once the issue fee has been paid, the application will not be withdrawn from issue upon petition by the applicant for any reason except:

- (1) Unpatentability of one of more claims, which petition must be accompanied by an unequivocal statement that one or more claims are unpatentable, an amendment to such claim or claims, and an explanation as to how the amendment causes such claim or claims to be patentable;
- (2) Consideration of a request for continued examination in compliance with 37 CFR 1.114; or
- (3) Express abandonment of the application. Such express abandonment may be in favor of a continuing application.

The petition complies with the requirements of 37 CFR 1.313(c)(1). Accordingly, the above-identified application is withdrawn from issue.

Petitioner is advised that the issue fee paid in this application cannot be refunded. If, however, this application is again allowed, petitioner may request that it be applied towards the issue fee required by the new Notice of Allowance.¹

¹ The request to apply the issue fee to the new Notice may be satisfied by completing and returning the new Part B – Fee(s) Transmittal Form (along with any balance due at the time of submission). *Petitioner is advised that the Issue Fee Transmittal Form must be completed and timely submitted to avoid abandonment of the application.*

Telephone inquiries should be directed to Irvin Dingle at (571) 272 3210.

The application is being referred to Technology Center AU 2648 for consideration of the amendment submitted with the petition.

/Irvin Dingle/
Irvin Dingle
Lead Paralegal Specialist
Office of Petitions

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hirabayashi, *et al.* Examiner: Shiue, Dong-Chang
Serial No.: 13/874,535 Confirmation No.: 9744
Filed: May 1, 2013 Art Unit: 2648
Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF

MAIL STOP PETITIONS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PETITION TO WITHDRAWAL FROM ISSUE
PURSUANT TO 37 C.F.R. §1.313(c)(1)

Applicant hereby petitions for the withdrawal of this application from issue under 37 C.F.R. § 1.313(c)(1). One or more of the claims are unequivocally unpatentable as written; as such, an amendment to said claim or claims and an explanation as to how the amendment causes such claim or claims to be patentable is filed herewith. The Issue Fee was paid in this case on August 29, 2018. Applicant acknowledges that the Issue Fee paid on August 29, 2018, is not refundable. However, if the application is again allowed, Applicant requests that it be applied towards the Issue Fee required by the new Notice of Allowance.

AMENDMENTS TO THE CLAIMS begin on page 2.

REMARKS begin on page 9.

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A mobile terminal configured to switch between an unlocked state and a locked state in which a predetermined operation is limited, comprising:

a transceiver which performs short-range wireless communications;

a memory which previously stores information about an another mobile terminal; and

a controller which switches the mobile terminal between an unlocked state and a locked state based on an authentication input to the mobile terminal, wherein the locked state prevents unauthorized access to the mobile terminal;

wherein, when conditions are met, the controller controls the mobile terminal to transmit information to the another mobile terminal for switching a state of the another mobile terminal from a locked state to an unlocked state, wherein the conditions include:

first, the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state;

second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and

third, after the performing, receiving, by the controller, the authentication input for switching the mobile terminal from the locked state to the unlocked state.

2. (Cancelled)

3. (Previously Presented) The mobile terminal according to claim 13, wherein the transceiver, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

4. (Previously Presented) The mobile terminal according to claim 13, wherein before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user.

5. (Previously Presented) The mobile terminal according to claim 13, wherein the controller performs short-range wireless communications with the another mobile terminal by the transceiver and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the memory and is in communication range of the short-range wireless communications by the transceiver when the mobile terminal is in a locked state

6. (Cancelled)

7. (Cancelled)

8. (Previously Presented) A method for controlling a mobile terminal to transit between an unlocked state and a locked state in which a predetermined operation is limited, comprising the steps of:

performing short-range wireless communications;

storing information about an another mobile terminal in a memory; and

transmitting information from the mobile terminal to the another mobile terminal which is for switching a state of the another terminal from a locked state to an unlocked state when conditions are met, wherein the locked state prevents unauthorized access to the mobile terminal, and wherein the conditions include:

first, the mobile terminal is in a locked state; the another mobile terminal is in a locked state; and the another mobile terminal is in communication range of the short-range wireless communications;

second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications, performing, via the mobile terminal, the short-range wireless communication with the another mobile terminal; and

third, after the performing, receiving the authentication input by the mobile terminal for switching the mobile terminal from the locked state to the unlocked state.

9. (Cancelled)

10. (Previously Presented) The method according to claim 14, further comprising:

transmitting, based on the operation, a signal to the another mobile terminal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

11. (Cancelled)

12. (Previously Presented) The method according to claim 14, further comprising:

performing short-range wireless communications with the another mobile terminal and setting the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the memory and is in communication range of the short-range wireless communications when the mobile terminal is in a locked state.

13. (Previously Presented) The mobile terminal according to claim 1, wherein the operation includes a biometrics authentication.

14. (Previously Presented) The method according to claim 8, wherein the operation includes a biometrics authentication.

15. (Currently Amended) A lock state control system comprising:

a first mobile terminal and a second mobile terminal which are configured to switch between an unlocked state and a locked state in which a predetermined operation is limited;

wherein the first mobile terminal comprises a transceiver which performs short-range wireless communications, a memory which previously stores information about the second mobile terminal, and a controller which switches the first mobile terminal between an unlocked

state and a locked state based on an authentication input to the first mobile terminal from a user, wherein the locked state prevents unauthorized access to the first mobile terminal;

wherein, when conditions are met, the controller controls the first mobile terminal to transmit information to the second mobile terminal for switching a state of the second mobile terminal from a locked state to an unlocked state, wherein the conditions include:

first, the first mobile terminal is in a locked state, the second mobile terminal is in a locked state, and the second mobile terminal is in communication range of the short-range wireless communications of the first mobile terminal;

second, after the first mobile terminal is in the locked state, the second mobile terminal is in the locked state, and the second mobile terminal is in communication range of the short-range wireless communications of the first mobile terminal, performing, via the first mobile terminal, the short-range wireless communications with the second mobile terminal; and

third, after the performing, receiving, via the first mobile terminal, the authentication input for switching a state of the first mobile terminal from a locked state to an unlocked state.

16. (Previously Presented) The lock state control system according to claim 15, wherein the operation includes a biometrics authentication.

17. (Previously Presented) The mobile terminal according to claim 1, further configured to store information about two or more another mobile terminals.

18. (Previously Presented) The method according to claim 8, the method further comprising the step of storing information about two or more another mobile terminals.

19. (Currently Amended) The lock state control system according to claim 15, further comprising two or more second ~~another~~ mobile terminals.

20. (Previously Presented) The mobile terminal according to claim 1, wherein the short-range wireless communication is via a Bluetooth connection.

21. (Previously Presented) The mobile terminal according to claim 1, wherein the short-range wireless communication is via infrared or a Wi-Fi connection.

22. (Previously Presented) The method according to claim 8, wherein the short-range wireless communication is performed via a Bluetooth connection.

23. (Previously Presented) The method according to claim 8, wherein the short-range wireless communication is performed via infrared or a Wi-Fi connection.

24. (Previously Presented) The lock state control system according to claim 15, wherein the short-range wireless communications are performed via a Bluetooth connection.

25. (Previously Presented) The lock state control system according to claim 15, wherein the short-range wireless communications are performed via infrared or a Wi-Fi connection.

REMARKS

Claims 1, 3-5, 8, 10, and 12-25 were previously allowed in this application. *See* Notice of Allowance dated August 15, 2018. The Issue Fee was paid in this case on August 29, 2018. However, Applicant hereby petitions for the withdrawal of this application from issue under 37 C.F.R. § 1.313(c)(1), as claims 15 and 19 each are unequivocally unpatentable as written because each of claims 15 and 19 lack appropriate antecedent basis for the term “mobile terminal” and “another mobile terminal,” respectively, due to typographical errors. *See* 35 U.S.C. § 112.

Specifically, lines 8 and 15 of claim 15 recite the term “mobile terminal” without clarification as to whether “mobile terminal” refers to the “first mobile terminal” or the “second mobile terminal” previously recited. This antecedent basis issue renders claim 15 unpatentable under 35 U.S.C. § 112. Each of lines 8 and 15 of claim 15 has been corrected to recite “first mobile terminal.”

Furthermore, line 2 of claim 19 incorrectly recites the term “another mobile terminal,” which renders claim 19 unpatentable under 35 U.S.C. § 112 due to a lack of antecedent basis. Claim 19 has been amended to recite the term “second mobile terminals” to correct the antecedent basis issue.

Appropriate correction for each of the typographical errors noted above is reflected in the attached AMENDMENTS TO THE CLAIMS. Applicant confirms that each of these amendments corrects the typographical errors such that each of claims 15 and 19 now has appropriate antecedent basis and is, therefore, patentable. Applicant respectfully submits that no new matter is being added by the Amendments to the Claims.

Furthermore, Applicant respectfully requests the Amendments be entered and the application allowed again. As noted above, should the application be again allowed, Applicant

requests that the Issue Fee previously paid on August 29, 2018 be applied towards the Issue Fee required by the new Notice of Allowance.

The Commissioner is hereby authorized to charge \$140.00 Petition fee, and to the extent necessary, charge any additional required fees or credit any overpayments to Deposit Account No. 02-0384 of Baker Botts L.L.P.

If there are any matters concerning this Application that may be cleared up in a telephone conversation, please contact Applicant's attorney at 212-408-2561.

Respectfully submitted,

BAKER BOTTS L.L.P.

Dated: September 7, 2018

By: /Jonathan D. Cocks/
Jonathan D. Cocks
Registration No. 75,646
Attorney for Applicant
Baker Botts L.L.P.
30 Rockefeller Plaza, Floor 45
New York, NY 10112-4498
(212) 408-2561 (telephone)

Electronic Patent Application Fee Transmittal

Application Number:	13874535
Filing Date:	01-May-2013
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Filer:	Jonathan Drew Cocks/Hiroko Lavietes
Attorney Docket Number:	072388.0418

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
PETITION FEE- 37 CFR 1.17(H) (GROUP III)	1464	1	140	140

Patent-Appeals-and-Interference:

Post-Allowance-and-Post-Issuance:

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				140

Electronic Acknowledgement Receipt

EFS ID:	33654188
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Jonathan Drew Cocks/Hiroko Lavietes
Filer Authorized By:	Jonathan Drew Cocks
Attorney Docket Number:	072388.0418
Receipt Date:	07-SEP-2018
Filing Date:	01-MAY-2013
Time Stamp:	11:08:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$140
RAM confirmation Number	090718INTEFSW00008976024377
Deposit Account	024377
Authorized User	Hiroko Lavietes

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

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

IPR2020-00202

37 CFR 1.19 (Document supply fees)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Petition.pdf	162930	yes	10
			964256d56f5e00d8d4a9af080c25c8d2639fd74e		
Multipart Description/PDF files in .zip description					
	Document Description		Start	End	
	Petition to Withdraw from Issue		1	1	
	Claims		2	8	
	Applicant Arguments/Remarks Made in an Amendment		9	10	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30623	no	2
			9976b10ce91c2f2559c4721d902dc4f44df03f42		
Warnings:					
Information:					
Total Files Size (in bytes):			193553		

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.

Electronic Patent Application Fee Transmittal

Application Number:	13874535
Filing Date:	01-May-2013
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Filer:	Jonathan Drew Cocks/Hiroko Lavietes
Attorney Docket Number:	072388.0418

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1000

Electronic Acknowledgement Receipt

EFS ID:	33571425
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Jonathan Drew Cocks/Hiroko Lavietes
Filer Authorized By:	Jonathan Drew Cocks
Attorney Docket Number:	072388.0418
Receipt Date:	29-AUG-2018
Filing Date:	01-MAY-2013
Time Stamp:	12:17:41
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$1000
RAM confirmation Number	082918INTEFSW00009394024377
Deposit Account	024377
Authorized User	Hiroko Lavietes

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

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

IPR2020-00202

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Issue_Fee_Transmittal.pdf	124526	no	1
			14a2f0d5214586a9e408c315f7ad9105f6676a64		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30222	no	2
			1c345a98113d43ce56c0e7f8376f22ef56cc7be7		

Warnings:

Information:

Total Files Size (in bytes):	154748
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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

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NOTICE OF ALLOWANCE AND FEE(S) DUE

21003 7590 08/15/2018
BAKER BOTTS L.L.P.
30 ROCKEFELLER PLAZA
44TH FLOOR
NEW YORK, NEW YORK 10112-4498
UNITED STATES OF AMERICA

Table with 2 columns: EXAMINER (SHIUE, DONG-CHANG), ART UNIT (2648), PAPER NUMBER

DATE MAILED: 08/15/2018

Table with 5 columns: APPLICATION NO. (13/874,535), FILING DATE (05/01/2013), FIRST NAMED INVENTOR (Masayuki HIRABAYASHI), ATTORNEY DOCKET NO. (072388.0418), CONFIRMATION NO. (9744)

TITLE OF INVENTION: MOBILE TERMINAL AND CONTROL METHOD THEREOF

Table with 7 columns: APPLN. TYPE (nonprovisional), ENTITY STATUS (UNDISCOUNTED), ISSUE FEE DUE (\$1000), PUBLICATION FEE DUE (\$0.00), PREV. PAID ISSUE FEE (\$0.00), TOTAL FEE(S) DUE (\$1000), DATE DUE (11/15/2018)

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.

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.

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

21003 7590 08/15/2018
BAKER BOTTS L.L.P.
 30 ROCKEFELLER PLAZA
 44TH FLOOR
 NEW YORK, NEW YORK 10112-4498
 UNITED STATES OF AMERICA

Certificate of Mailing or Transmission

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

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/874.535	05/01/2013	Masayuki HIRABAYASHI	072388.0418	9744

TITLE OF INVENTION: MOBILE TERMINAL AND CONTROL METHOD THEREOF

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	11/15/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
SHIUE, DONG-CHANG	2648	455-026100

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</p>	<p>2. For printing on the patent front page, list</p> <p>(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, _____ 1</p> <p>(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. _____ 2</p> <p>_____ 3</p>
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3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE _____ (B) RESIDENCE: (CITY and STATE OR COUNTRY) _____

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

<p>4a. The following fee(s) are submitted:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p>
---	--

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.

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. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 13/874,535, 05/01/2013, Masayuki HIRABAYASHI, 072388.0418, 9744
Row 2: 21003, 7590, 08/15/2018, EXAMINER SHIUE, DONG-CHANG
Row 3: ART UNIT 2648, PAPER NUMBER
Text: BAKER BOTTS L.L.P., 30 ROCKEFELLER PLAZA, 44TH FLOOR, NEW YORK, NEW YORK 10112-4498, UNITED STATES OF AMERICA
DATE MAILED: 08/15/2018

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 of the Federal Intellectual Property Rights Act of 1980 or Patent

Notice of Allowability	Application No. 13/874,535	Applicant(s) HIRABAYASHI et al.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	AIA Status No

-- 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 AFCP 2.0 filed on 8/3/2018.
 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 1,3-5,8,10 and 12-25 . 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. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____. | 6. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material _____. | 7. <input checked="" type="checkbox"/> Other <u>PTO-2323 is attached</u> . |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date. _____. | |

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

Search Notes 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648


CPC - Searched*		
Symbol	Date	Examiner
H04W12/06	12/15/2014	DS
H04L63/0492	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS
Updated search	12/5/2017	ds
H04M1/66 H04B7/00 H04L9/32 H04W12/00 H04W12/\$	4/23/2018	ds
Updated search	7/3/2018	ds
Updated search	08/04/2018	ds

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
455	26.1, 41.2	12/15/2014	DS

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.


/DONG-CHANG SHIUE/ Examiner, Art Unit 2648	
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Search Notes 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

Search Notes		
Search Notes	Date	Examiner
EAST (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	12/15/2014	DS
Inventor/Assignee search in EAST and eDAN	12/15/2014	DS
Consulted with Lewis West	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS
Updated search	12/5/2017	ds
Updated search	4/23/2018	ds
Consulted with Wesley Kim on 102 on 4/23/2018		
Updated search	7/3/2018	ds
Updated search	08/04/2018	ds

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
(Same as above)		08/04/2018	ds

/DONG-CHANG SHIUE/ Examiner, Art Unit 2648	
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<i>Index of Claims</i> 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648


✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected


CLAIMS										
<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47										
CLAIM		DATE								
Final	Original	12/15/2014	02/04/2016	07/19/2016	12/11/2016	04/20/2017	12/05/2017	04/23/2018	07/03/2018	08/04/2018
	1	✓	✓	✓	✓	✓	✓	✓	✓	=
	2	✓	-	-	-	-	-	-	-	-
	3	✓	✓	✓	✓	✓	✓	✓	✓	=
	4	✓	✓	✓	✓	✓	✓	✓	✓	=
	5	✓	✓	✓	✓	✓	✓	✓	✓	=
	6	✓	-	-	-	-	-	-	-	-
	7	✓	-	-	-	-	-	-	-	-
	8	✓	✓	✓	✓	✓	✓	✓	✓	=
	9	✓	-	-	-	-	-	-	-	-
	10	✓	✓	✓	✓	✓	✓	✓	✓	=
	11	✓	-	-	-	-	-	-	-	-
	12		✓	✓	✓	✓	✓	✓	✓	=
	13				✓	✓	✓	✓	✓	=
	14				✓	✓	✓	✓	✓	=
	15				✓	✓	✓	✓	✓	=
	16				✓	✓	✓	✓	✓	=
	17							✓	✓	=
	18							✓	✓	=
	19							✓	✓	=
	20							✓	✓	=
	21							✓	✓	=
	22							✓	✓	=
	23							✓	✓	=
	24							✓	✓	=
	25							✓	✓	=

Issue Classification 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

CPC						
Symbol				Type	Version	
H04W	/	12	/	06	F	2013-01-01
H04L	/	63	/	0492	I	2013-01-01

CPC Combination Sets						
Symbol			Type	Set	Ranking	Version
	/		/			

/DONG-CHANG SHIUE/ Examiner, Art Unit 2648 (Assistant Examiner)	04 August 2018 (Date)	Total Claims Allowed: 20	
/DONG-CHANG SHIUE/ Examiner, Art Unit 2648 (Primary Examiner)	04 August 2018 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2

Issue Classification 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648


INTERNATIONAL CLASSIFICATION			
CLAIMED			
H04W	/	12	/ 06

NON-CLAIMED			
/	/	/	/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

/DONG-CHANG SHIUE/ Examiner, Art Unit 2648 (Assistant Examiner)	04 August 2018 (Date)	Total Claims Allowed: 20	
/DONG-CHANG SHIUE/ Examiner, Art Unit 2648 (Primary Examiner)	04 August 2018 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2

Issue Classification 	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI et al.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

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

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	11	10	18	19										
-	2	-	11	7	20										
3	3	12	12	8	21										
4	4	2	13	14	22										
5	5	10	14	15	23										
-	6	16	15	19	24										
-	7	17	16	20	25										
9	8	6	17												
-	9	13	18												

/DONG-CHANG SHIUE/ Examiner, Art Unit 2648 (Assistant Examiner)	04 August 2018 (Date)	Total Claims Allowed: 20	
/DONG-CHANG SHIUE/ Examiner, Art Unit 2648 (Primary Examiner)	04 August 2018 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2

AFCP 2.0 Decision

Application No.

13/874,535

Applicant(s)

HIRABAYASHI et al.

Examiner

DONG-CHANG SHIUE

Art Unit

2648

AIA Status

No

This is in response to the After Final Consideration Pilot request filed 03 August 2018.

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: _____

Examiner Note: Please attach an interview summary when necessary as described above.

		communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:09
L50	4	(maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08
L49	215	(maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08
L48	3	(short\$1range blue\$1tooth wi\$1fi) same (communicat\$3 coupl\$3 link) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08
L47	0	(short\$1range blue\$1tooth wi\$1fi) same (maintain\$3) near3 (communicat\$3 coupl\$3 link) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08
L46	3	(short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08
L45	38	((locked)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08
L44	5	((screen display) near5 (locked)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08
L43	6	((screen display) near5 (locked)) same (short\$1range blue\$1tooth wi\$1fi) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2018/08/04 17:08

			DERWENT; IBM_TDB			
L42	6	((screen display) near5 (locked)) same (short1range bluetooth wi\$1fi) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08
L41	27	L40 and (sav\$3 stor\$3) same (identifi\$6 key\$1 information) same (devices terminals)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08
L40	44	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$ or US-20090015654-\$ or US-20130095802-\$ or US-20070229221-\$ or US-20130259232-\$ or US-20040181678-\$ or US-20060123242-\$ or US-20130183936-\$ or US-20110214158-\$ or US-20120280790-\$).did. or (US-20170011387-\$ or US-20070287423-\$ or US-20110086615-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$ or US-7674298-\$ or US-7257374-\$ or US-8041340-\$ or US-8467770-\$ or US-8112066-\$ or US-8874467-\$).did. or (US-6614350-\$ or US-20110086615-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2018/08/04 17:08
L39	82	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$ or US-20090015654-\$ or US-20130095802-\$ or US-20070229221-\$ or US-20130259232-\$ or US-20040181678-\$ or US-20060123242-\$ or US-20130183936-\$ or US-20110214158-\$ or US-20120280790-\$).did. or (US-20170011387-\$ or US-20070287423-\$ or US-20110086615-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$ or US-7674298-\$ or US-7257374-\$ or US-	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08

		8041340-\$ or US-8467770-\$ or US-8112066-\$ or US-8874467-\$).did. or (US-6614350-\$ or US-20110086615-\$).did.				
L38	39	L36 and (authenticat\$3) same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08
L37	0	L36 and (authenticat\$3) with (face) same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08
L36	9602	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:08
L35	91	(secure authenticat\$3) with (face image) and (455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:07
L34	4	(authenticat\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:07
L33	237	L32 and (lock\$3 un-lock\$3 unlock\$3) with (short-range (short adj range) bluetooth blue-tooth NFC ("near" adj field))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:07
L32	80644	(H04W12/\$).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:07
L31	9602	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:07
L30	46	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-	US-PGPUB; USPAT;	OR	ON	2018/08/04 17:07

		same (un-lock\$3 unlock\$3))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:06
L22	192	L20 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:06
L21	192	L20 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:06
L20	41604	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:06
L19	41604	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:06
L18	13	L17 and (GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:06
L17	103	L14 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:06
L16	103	L14 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:06
L15	103	L14 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2018/08/04 17:06

L14	10210	(455/26.1 455/41.2).ccls. and @ad<"20120523"	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:06
L13	21	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:06
L12	51701	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:06
L11	906	L10 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:06
L10	10210	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:06
L9	35	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:05
L8	122	L7 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:05
L7	10210	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/08/04 17:05
L6	122	L5 and (lock\$3 unlock\$3) with (control\$4	US-PGPUB;	OR	ON	2018/08/04

		handheld portable cellular) same (phone device station handset)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (screen display) near3 locked).clm.				17:37
L68	0	((maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (both with (locked disabled))).clm.	USPAT	OR	ON	2018/08/04 17:34
L66	0	((maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))).clm.	USPAT	OR	ON	2018/08/04 17:33
L65	0	((short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked).clm.	USPAT	OR	ON	2018/08/04 17:33
L64	0	((lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) same ((screen display) near5 (locked)) same (short1range bluetooth wi\$1fi) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))).clm.	USPAT	OR	ON	2018/08/04 17:32
L63	2	L61 and L59 and (@pd or @ad or @rlad or @prad)<"20120523"	USPAT	OR	ON	2018/08/04 17:31
L62	2	L61 and L59	USPAT	OR	ON	2018/08/04 17:30
L61	888	((lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)).clm.	USPAT	OR	ON	2018/08/04 17:30
L59	1739	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and (@pd or @ad or @rlad or @prad)<"20120523"	USPAT	OR	ON	2018/08/04 17:13

8/ 4/ 2018 5:45:27 PM

C:\Users\dshiue\Documents\EAST\Workspaces\13874535.wsp

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Hirabayashi, <i>et al.</i>	Examiner:	Shiue, Dong-Chang
Serial No.:	13/874,535	Confirmation No.:	9744
Filed:	May 1, 2013	Art Unit:	2648
Title:	MOBILE TERMINAL AND CONTROL METHOD THEREOF		

AMENDMENT AFTER FINAL REJECTION AND REQUEST UNDER THE AFTER FINAL CONSIDERATION PROGRAM (AFCP) 2.0

FILED ELECTRONICALLY

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

Sir:

In response to the Final Office Action dated July 10, 2018, for which a shortened statutory period of three months, ending October 10, 2018, was set in which to respond, the following remarks are submitted and reconsideration of the claim rejections is respectfully requested. A request under the After Final Consideration Program (AFCP) 2.0 is also included herein.

AMENDMENTS TO THE CLAIMS begin on page 2 of this document.

REMARKS begin on page 9 of this document.



UNITED STATES PATENT AND TRADEMARK OFFICE

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO. Includes details for application 13/874,535 and 21003 7590, listing inventor Masayuki HIRABAYASHI and attorney BAKER BOTTS L.L.P.

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):

DLNYDOCKET@BAKERBOTTS.COM

<i>Applicant-Initiated Interview Summary</i>	Application No. 13/874,535	Applicant(s) HIRABAYASHI et al.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	AIA Status No

All participants (applicant, applicants representative, PTO personnel):

- (1) DONG-CHANG SHIUE. (3) _____.
(2) Jonathan D. Cocks. (4) _____.

Date of Interview: 01 August 2018.

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: Chin (US 20060224882) and Griffin (US 20120040611).

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...)

Applicant's representative went over the invention and described the elements that would distinguish this invention from others. In particular, the representative explained that Griffin does not teach both devices communicating with each other when both are in locked state. Examiner indicated that Device 31 enables NFC function to communicate with Device 32 when both were in communication range, and that the combination of Chin and Griffin results in the claimed invention. The examiner also indicated that further search and consideration would be needed upon receiving the official amendment. No other 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.

Attachment

/DONG-CHANG SHIUE/ Examiner, Art Unit 2648	
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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 attention 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 examiners 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 applicants 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 applicants 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 time 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 examiners 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 examiners initials.

Application No.: 13/874,535

Application No. 13/874,535

Filing Date: 05/01/2013

Attorney Docket No.: 072388.0418

Confirmation No.: 9744

Examiner: Dong-Chang SHIUE

Art Unit: 2648

Re: Attachment to Examiner Interview Agenda

Proposed Arguments for Discussion During Examiner Interview

1. Rejection of claims 1, 8, and 15 under Section 103

Claims 1, 8, and 15 stand rejected under 35 U.S.C. Section 103 as being unpatentable over Chin (US 2006/0224882) in view of Griffin (US 2012/0040611). Applicant respectfully disagrees.

Independent claim 1 was previously amended to recite the feature, "... wherein the conditions include: first, the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state; second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and third, after the performing, receiving, by the controller, the authentication input for switching the mobile terminal from the locked state to the unlocked state..." Independent claims 8 and 15 were also amended to recite similar features. No such configuration is taught or suggested by Chin or Griffin.

The Examiner acknowledges that Chin fails to teach or disclose, "...second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal..." as recited in claims 1, 8, and 15. (See Final Office Action, dated July 10, 2018 at 4). This element specifically details that the mobile terminal communicates with the another mobile terminal if the mobile terminal and the another mobile terminal are locked and the another mobile terminal is within communication range of the short-range wireless communications of the mobile terminal.

The Examiner turns to the Griffin reference in an attempt to cure the deficiencies of Chin. Griffin discloses "... [a] mobile wireless communications device may further include a processor carried by the portable housing and coupled to the NFC circuit and configured to switch the NFC circuit between the first NFC mode and the second NFC mode at a first frequency based upon a first triggering event, and switch the NFC circuit between the first NFC mode and the second NFC mode at a second frequency lower than the first frequency based upon a second triggering event different than the first triggering event." See, Griffin at Abstract. Griffin aims to improve usability

by switching between a first mode and a second mode. Specifically, Griffin discloses a technique for an NFC device that has two modes:

- A first mode (typical low power mode – NFC Standard) which switches ON/OFF the NFC circuit by 3 seconds (first frequency); and
- A second mode which switches ON/OFF the NFC circuit by 1 second (second frequency).

More specifically, the examiner relies on paragraph [0040] of Griffin to cure the deficiencies of Chin.

Griffin and Chin, however, taken individually or in combination, fail to teach or disclose each and every limitation of claims 1, 8, and 15.

Griffin discloses menus on the display in each of Figures 3 and 4, reproduced below.

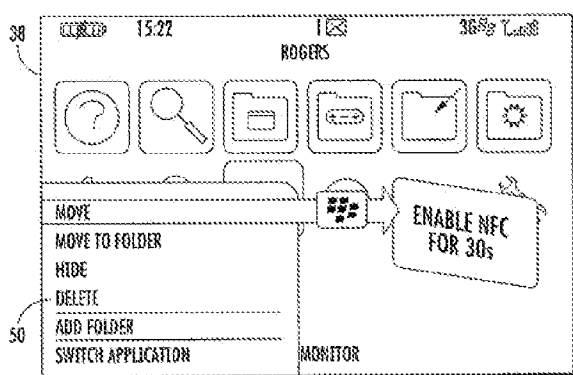


FIG. 3

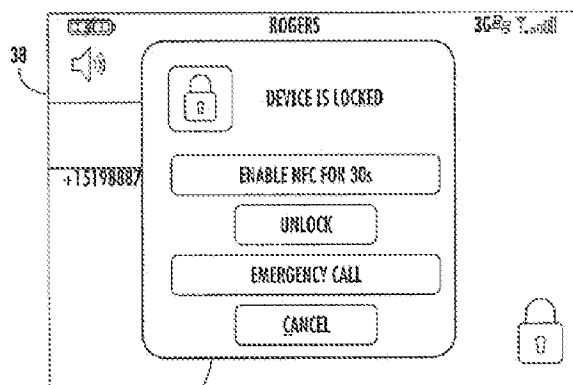


FIG. 4

Specifically, Figure 3 (which corresponds to the disclosure at [0038]-[0039] of Griffin) discloses menu 50, while Figure 4 (which corresponds to the disclosure at [0040] of Griffin) discloses menu 51. Menu 50 is the menu on the display in “Normal Mode” while Menu 51 is the menu on the display in a “Lock” status.

As the Examiner discusses, with respect to [0040], when NFC device 31 detects that the other NFC device 32 is locked, menu 51 is displayed on the display. With reference to Figure 4, it is clear that the “DEVICE IS LOCKED” (as shown verbatim on the display in Figure 4) and four options (“ENABLE NFC FOR 30s,” “UNLOCK,” “EMERGENCY CALL,” and “CANCEL”) are shown on the display. Additionally, there is absolutely no indication or corresponding description which details which device is being referred to when the “DEVICE IS LOCKED” message is displayed. However, there are two options under BRI, namely, NFC device 31 and NFC device 32. As such, there can be two constructions, and an explanation of each follows.

Under the first option, the locked device may be NFC device 31 (which we will call “Construction A”). On the other hand, and as a second option, the locked device may be NFC device 32 (which we will call “Construction B”). In general, Construction A is a more natural construction than

Construction B as the bottom right corner of Figure 4 shows a graphic indicating that a status is locked.

Considering Construction A and the four options noted above for NFC device 31: Menu 51 is to switch a mode of NFC device 31, and the four options do NOT change anything of NFC device 32. As such, NFC device 32 does not process anything based on the four options. Additionally, the specification supports this construction as there is no mention of NFC device 32 in any of [0040]–[0042] except for the first sentence of [0040]. On the other hand, when considering Construction B, the NFC device 31 is NOT locked and menu 51 is to remotely control NFC device 32 by the four options. Additionally, there is NO description regarding whether NFC device 32 is locked or unlocked in the specification.

As such, when considering Construction A, the NFC device 31 is locked. However, there is absolutely NO disclosure about the communication between NFC device 31 and NFC device 32 after NFC device 31 is locked in [0040]. Thus, there is NO disclosure about said element. On the other hand, when considering Construction B, NFC device 32 is locked. However, NFC device 31 is NOT locked. Therefore, there is NO disclosure about said element either.

Moreover, the **claimed invention is a technique for controlling a Lock/Unlock status of two devices**; while **Griffin is a technique for switching an NFC mode of NFC device 31 or NFC device 32 (not NFC device 31 AND NFC device 32)**. There is absolutely NO disclosure to switch a Lock/Unlock status of any of NFC device 31 and NFC device 32 in the sections of the specification cited by the Examiner in the Final Office Action dated July 10, 2018. Griffin fails to teach or suggest the Locking/Unlocking with respect to more than one device, under either of Construction A or Construction B. Therefore, Griffin and Chin, taken individually or in combination, fail to teach or suggest each and every limitation of claims 1, 8, or 15.

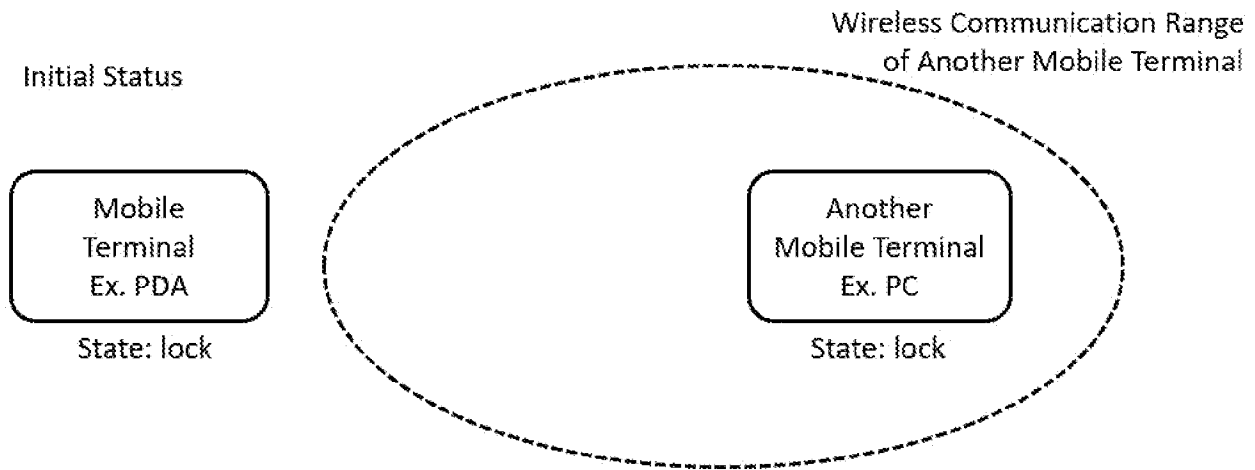
Turning back to the Chin reference, and with reference to Chin Figure 3, Chin discloses a step for unlocking one device (step 310), a step for coupling one device and the other device (step 330), and a step for unlocking the other device (step 350). That is to say, one device is NOT coupled with the other device when one device is unlocked (step 310). The meaning of “couple” indicates a (wired) docking between the PC and the PDA, as taught in the specification of Chin. In view of wireless communications, however, the meaning of “couple” indicates going into communication range of the short-range wireless communications from out of communication range of the short-range wireless communications.

On the other hand, the claimed invention shows that the mobile terminal transmits information about unlocking to the another mobile terminal when three conditions are met: first, the mobile terminal and the another mobile terminal are locked; second, the mobile terminal communicates with the another mobile terminal; and third, the mobile terminal receives an unlock input about the mobile terminal. That is to say, when the mobile terminal receives the unlock input, the another mobile terminal is within communication range of the short-range wireless communications of mobile terminal.

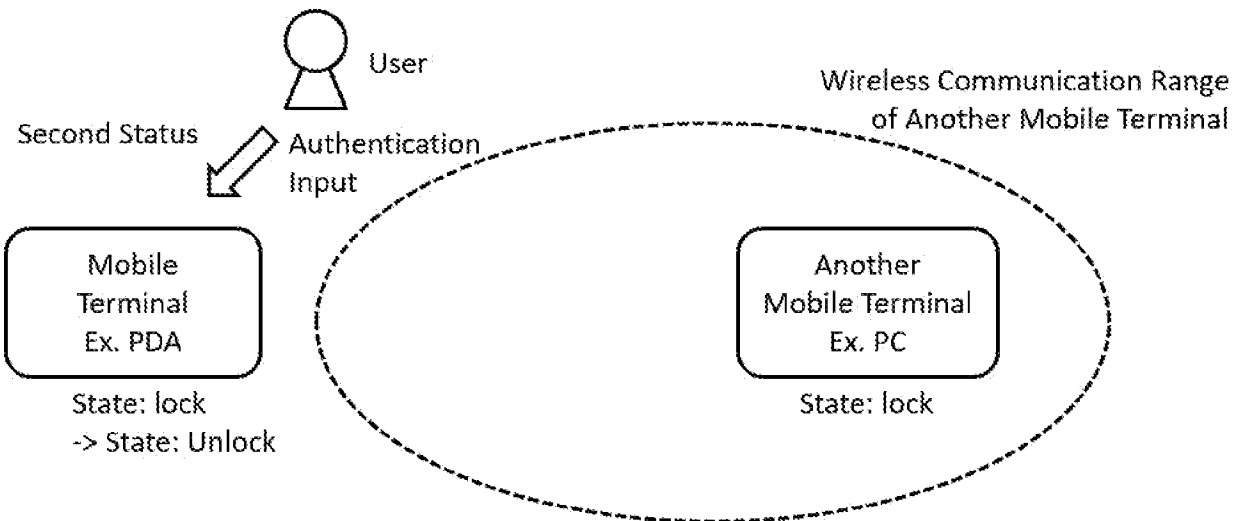
Therefore, the invention as claimed is NOT disclosed by Chin (considering the relationship among each element, Chin does NOT disclose any of the claimed elements after the wherein clause of claim 1, 8, or 15).

Moreover, the differences between the invention as claimed and Chin are NOT minute. In view of a wireless connection, Chin does NOT have a technical effect. Chin was invented and disclosed from a wired connection point of view.

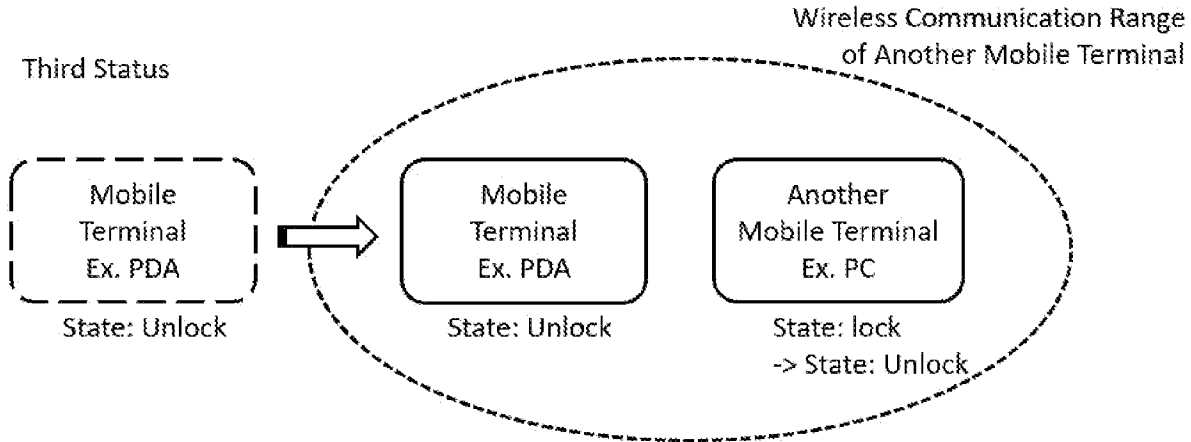
- Chin: Technique for usability



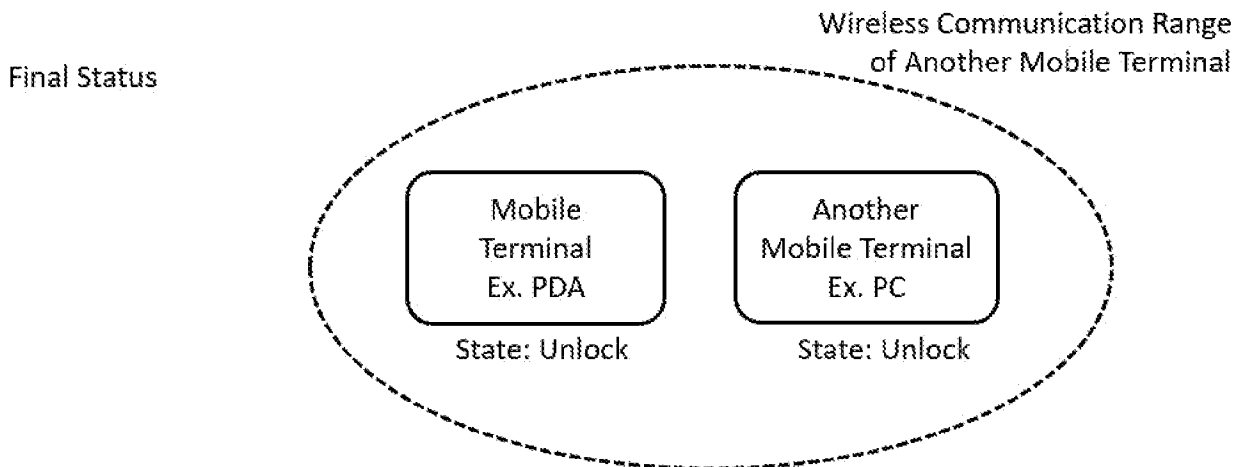
- Chin: Technique for usability



- Chin: Technique for usability



- Chin: Technique for usability



In order to unlock another device (per the Chin disclosure), a user has to unlock a device and go into communication range of the short-range wireless communications from out of communication range of the short-range wireless communications. Considering that the wireless communication range of Bluetooth (Class 2) is about 10m, it would not be convenient for a user.

**CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE
AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0**

Practitioner Docket No.: 072388.0418	Application No.: 13/874,535	Filing Date: May 1, 2013
First Named Inventor: Hirabayashi, et al.	Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF	
<p>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.</p> <ol style="list-style-type: none"> 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 (<i>e.g.</i>, 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, <i>e.g.</i>, 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: <ul style="list-style-type: none"> • 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>i.e.</i>, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions: <ul style="list-style-type: none"> ○ 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, <i>e.g.</i>, 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. <ul style="list-style-type: none"> ▪ 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 /Jonathan Drew Cocks/	Date August 3, 2018	
Name (Print/Typed) Jonathan Drew Cocks	Practitioner Registration No. 75,646	
<p>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*.</p>		
<input type="checkbox"/> * 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 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.

REMARKS

Claims 1, 3-5, 8, 10, and 12-25 are pending in this application; claims 1, 8, and 15 are amended, and claims 2, 6, 7, 9, and 11 are canceled. Support for the amendments may be found throughout the specification and specifically in [0004]-[0010] and [0025]-[0031] of the published application, the corresponding figures, and the originally-filed claims. Thus, Applicant respectfully submits that no new matter is being added by the Amendments to the Claims.

Interview Summary

On August 1, 2018, Applicant's Representative, Jonathan Cocks, discussed the application with Examiner Shiue by telephone. The parties discussed the Final Office Action dated July 10, 2018, the prior art – including the Chin reference (US 20060224882) and the Griffin reference (US 2012/0040611), and addressed arguments submitted with the interview agenda by the Applicant's Representative regarding the Chin and Griffin references. No agreement on patentability was reached. Applicants would like to thank the Examiner for his time.

Rejection of Claims under 35 U.S.C. § 103

Claims 1, 8 and 15 stand rejected under 35 U.S.C. § 103 as being unpatentable over Chin (US 2006/0224882; hereinafter “Chin”) in view of Griffin (US 2012/0040611; “Griffin”).

Claims 4, 5, 12-14 and 16 stand rejected under 35 U.S.C. § 103 as being unpatentable over Chin and Griffin in view of Smith (US 2013/0183936; “Smith”).

Claims 3 and 10 stand rejected under 35 U.S.C. § 103 as being unpatentable over Chin, Griffin, and Smith in view of Gerhardt (US 2012/0280790; “Gerhardt”).

Claims 17-19 stand rejected under 35 U.S.C. § 103 as being unpatentable over Chin and

Griffin in view of Friedlaender (US 2011/0195665; “Friedlaender”).

Claims 20-25 stand rejected under 35 U.S.C. § 103 as being unpatentable over Chin and Griffin, in view of Gerhardt.

Applicant respectfully traverses the rejections.

Independent claim 1 was previously amended to recite the feature, “ wherein the conditions include: first, the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state; second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and third, after the performing, receiving, by the controller, the authentication input for switching the mobile terminal from the locked state to the unlocked state...” Independent claims 8 and 15 were also previously amended to recite similar features. No such configuration is taught or suggested by Chin or Griffin.

Additionally, claim 1 is newly amended to recite, inter alia, “ a controller which switches the mobile terminal between an unlocked state and a locked state based on an authentication input to the mobile terminal, wherein the locked state prevents unauthorized access to the mobile terminal; ” Independent claims 8 and 15 are also amended to recited similar features. Again, no such configuration is taught or suggested by Chin or Griffin.

Specifically, these amendments to claims 1, 8, and 15 clearly identify a condition relating to when the controller transmits information to the another mobile terminal. That is, the mobile terminal communicates (transmits and receives information) with the another mobile terminal

before the status of the another mobile terminal changes from “lock” to “unlock” by receiving information from the mobile terminal. Further, the amendments to claims 1, 8, and 15 specify the particular order of processing, which is not taught or suggested by Chin or Griffin.

Chin discloses a method for unlocking a device in which the user first enters a password into a first computing device. *See* Chin [0026]. Specifically, Chin discloses unlocking the “locked” status of a PC (the another terminal) when combining a PDA with the PC. Subsequently, the user couples the first computing device to a second computing device. *See* Chin [0027] and step 330 of Fig. 3. In Chin, the subsequent act of coupling the first computing device (which has already been unlocked) to the second computing device results in the unlocking of the second computing device. *See* Chin [0014] (“A password locked computing device may be unlocked by coupling the locked device to a password unlocked computing device”). However, the locked device (PDA) of Chin **cannot** communicate (transmit and receive information) with the unlocked computing device (PC) because communication between the PDA and the PC is **NOT** established **before** the combining, as required by the present disclosure. As such, Chin fails to teach or suggest, “ wherein the conditions include: first, the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state; second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and third, after the performing, receiving, by the controller, the authentication input for switching the mobile terminal from the locked state to the unlocked

state...” as recited in claims 1, 8, and 15.

Moreover, the present disclosure teaches that the state of both devices (the mobile terminal and the another mobile terminal) are altered (changed from a locked state to an unlocked state) only once the two devices are in range of each other. On the other hand, Chin only teaches altering the state of the second device once the second device is within range of the first device. The first device of Chin is already unlocked before being coupled with the second device, as shown in Chin Figure 3. Additionally, in Figure 3 of Chin, at 310, Chin states “associate computing devices with password.” “Associate” can not and does not mean “couple.” As taught by Chin, “associate” means “recognizable,” (*See*, Chin at [0020] and [0030]) and not “paired,” “connected,” or “coupled.”

Furthermore, Chin fails to teach or suggest changing the status of the another mobile terminal by the mobile terminal when the another mobile terminal is in a wireless communication area of the mobile terminal. Specifically, claims 1, 8, and 15 include, “the mobile terminal is in a locked state” and “the another mobile terminal is in a locked state” as conditions for when the controller is to transmit information to the another mobile terminal. That is, a status of the another mobile terminal is “lock” when the mobile terminal transmits information to the another mobile terminal. Chin fails to disclose such limitations. Chin requires that a status of the PDA is “unlock” when combining the PDA with the PC in order to unlock a status of the PC. In other words, there is absolutely no disclosure by Chin that any status of the another mobile terminal is changed by the mobile terminal when the another mobile terminal is in a wireless communication area of the mobile terminal.

Furthermore, another feature of the present disclosure is that the mobile terminal transmits information for changing a status from Lock to Unlock to the another mobile terminal

once specified conditions are met in the order specified. In other words, the meeting of specified conditions is a trigger for the transmission of information. This is clear from the claim language shown in claims 1, 8, and 15. Chin fails to disclose any such conditions.

Even further, the Examiner acknowledges that Chin fails to teach or disclose, “ second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal ” as recited in claims 1, 8, and 15. (*See* Final Office Action, dated July 10, 2018 at 4). This element specifically details that the mobile terminal communicates with the another mobile terminal if the mobile terminal and the another mobile terminal are locked and the another mobile terminal is within communication range of the short-range wireless communications of the mobile terminal.

The Examiner turns to the Griffin reference in an attempt to cure the deficiencies of Chin. Griffin, however, considered alone or in combination with Chin, fails to cure the deficiencies of Chin.

Griffin discloses “ [a] mobile wireless communications device may further include a processor carried by the portable housing and coupled to the NFC circuit and configured to switch the NFC circuit between the first NFC mode and the second NFC mode at a first frequency based upon a first triggering event, and switch the NFC circuit between the first NFC mode and the second NFC mode at a second frequency lower than the first frequency based upon a second triggering event different than the first triggering event.” *See*, Griffin at Abstract. Griffin aims to improve usability by switching between a first mode and a second mode. Specifically, Griffin discloses a technique for an NFC device that has two modes:

- A first mode (typical low power mode – NFC Standard) which switches ON/OFF the NFC circuit by 3 seconds (first frequency); and
- A second mode which switches ON/OFF the NFC circuit by 1 second (second frequency).

More specifically, the examiner relies on paragraph [0040] of Griffin to cure the deficiencies of Chin. Griffin and Chin, however, taken individually or in combination, fail to teach or disclose each and every limitation of independent claims 1, 8, and 15.

Griffin discloses menus on the display in each of Figures 3 and 4, reproduced below.

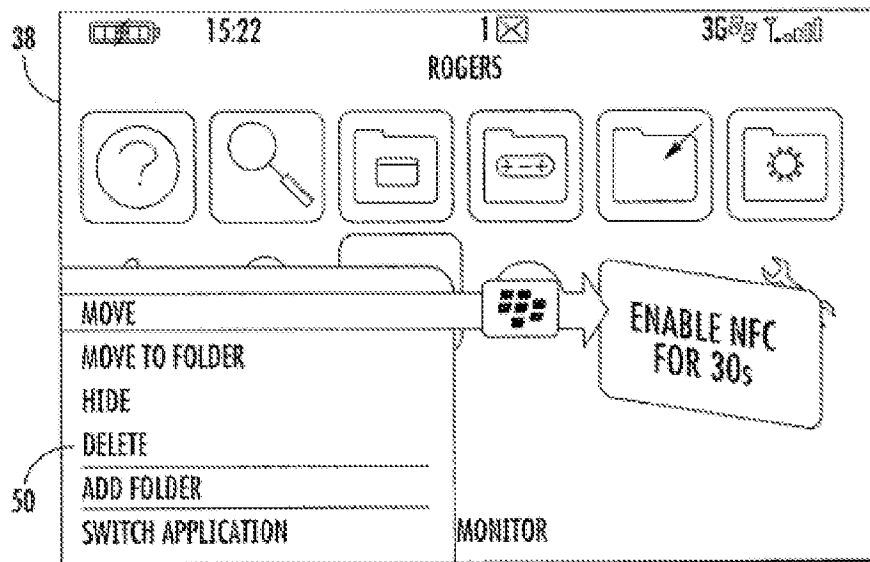


FIG. 3

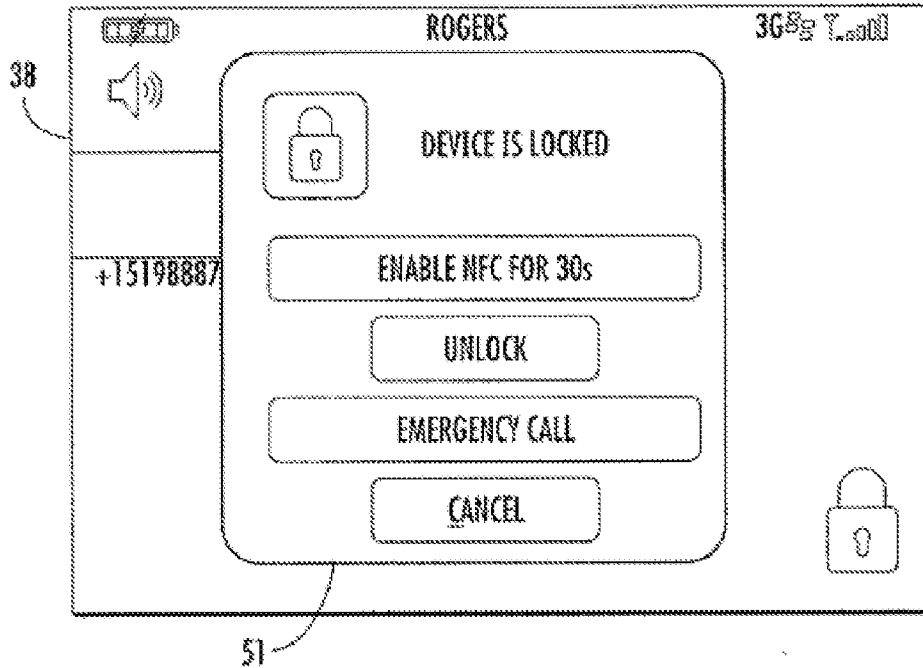


FIG. 4

Specifically, Figure 3 (which corresponds to the disclosure at [0038]-[0039] of Griffin) discloses menu 50, while Figure 4 (which corresponds to the disclosure at [0040] of Griffin) discloses menu 51. Menu 50 is the menu on the display in “Normal Mode” while Menu 51 is the menu on the display in a “Lock” status.

As the Examiner discusses, with respect to [0040], when NFC device 31 detects that the other NFC device 32 is locked, menu 51 is displayed on the display. With reference to Figure 4, it is clear that the “DEVICE IS LOCKED” (as shown verbatim on the display in Figure 4) and four options (“ENABLE NFC FOR 30s,” “UNLOCK,” “EMERGENCY CALL,” and “CANCEL”) are shown on the display. Additionally, there is absolutely no indication or corresponding description which details which device is being referred to when the “DEVICE IS LOCKED” message is displayed.

Under a first construction, the locked device may be NFC device 31. On the other hand,

and as a second construction, the locked device may be NFC device 32.

Considering the first construction and the four options noted above for NFC device 31: Menu 51 is to switch a mode of NFC device 31, and the four options do NOT change anything of NFC device 32. As such, NFC device 32 does not process anything based on the four options. Additionally, the specification supports this construction as there is no mention of NFC device 32 in any of [0040]–[0042] except for the first sentence of [0040]. On the other hand, when considering the second construction, the NFC device 31 is NOT locked and menu 51 is to remotely control NFC device 32 by the four options. Additionally, there is NO description regarding whether NFC device 32 is locked or unlocked in the specification.

As such, when considering the first construction, the NFC device 31 is locked. However, there is absolutely NO disclosure about the communication between NFC device 31 and NFC device 32 after NFC device 31 is locked in [0040]. Thus, there is NO disclosure about said element. On the other hand, when considering the second construction, NFC device 32 is locked. However, NFC device 31 is NOT locked. Therefore, there is NO disclosure about said element either.

Moreover, the **claimed invention is a technique for controlling a Lock/Unlock status of two devices**; while **Griffin discloses a technique for switching an NFC MODE of NFC device 31 or NFC device 32 (not NFC device 31 AND NFC device 32)**. There is absolutely NO disclosure to switch a Lock/Unlock status of any of NFC device 31 and NFC device 32 in the specification, as cited by the Examiner in the Final Office Action dated July 10, 2018. Griffin fails to teach or suggest the Locking/Unlocking with respect to more than one device, under either of the first possible construction or the second possible construction.

Even further, Figure 8 (at reference numeral 137) and Figure 10 (at reference numeral

204) of Griffin disclose a communication between NFC devices (“initial peer-to-peer NFC communications with other BFC device upon being switched to peer-to-peer recognition state therewith”), each of which are reproduced below for convenience.

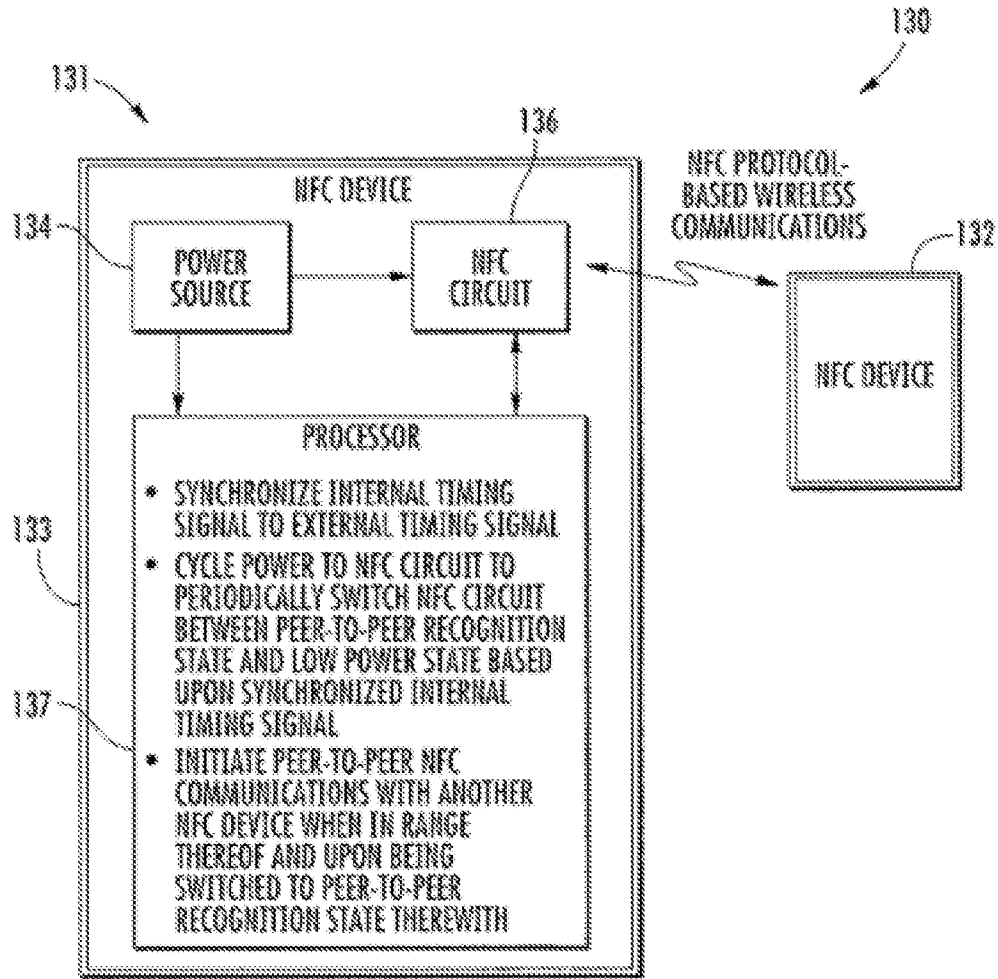


FIG. 8

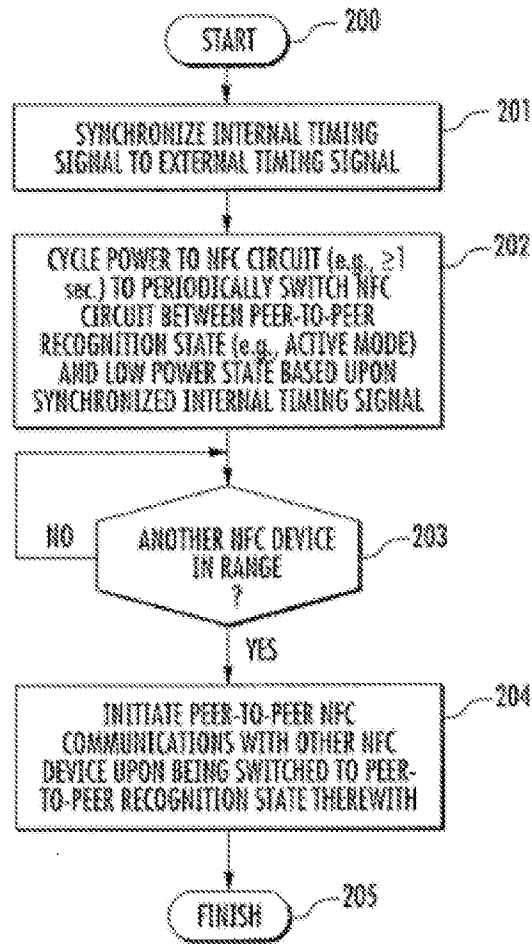


FIG. 10

However, in each of Griffin Figure 8, Figure 10, and the specification with regard to these figures, there is absolutely NO teaching or suggestion regarding the state of the NFC device—that is locked or unlocked. As such, a person of ordinary skill would not understand the communication is processed under a unlocked state of NFC devices. Further, considering to the technical purpose of Griffin (as detailed above), Griffin is NOT appropriate as cited reference for combination with Chin.

Additionally, as clearly disclosed and taught in Griffin, steps 137 and 204 are only initiated “**upon being switched to peer-to-peer recognition state therewith**” (emphasis added).

As such, Griffin does not teach or suggest “second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal,” as suggested by the Examiner, but rather that peer-to-peer communications are only initiated when switched to such a state therewith.

Therefore, Griffin and Chin, taken individually or in combination, fail to teach or suggest each and every limitation of claims 1, 8, or 15.

A Clear Articulation of the Reason(s) Why the Claimed Invention Would Be Obvious Must Be Made by the Examiner.

In addition to the arguments presented above, the Examiner bears the initial burden of factually supporting any *prima facie* conclusion of obviousness. If the Examiner does not produce a *prima facie* case, the Applicant is under no obligation to submit secondary evidence to show nonobviousness. M.P.E.P. § 2142. The key to supporting any rejection under 35 U.S.C. § 103 is the clear articulation of the reason(s) why the claimed invention would have been obvious. The Supreme Court in *KSR Int'l Co. v. Teleflex Inc.*, 550 U.S. 538, 418, 82 U.S.P.Q.2d 1385, 1396 (2007), noted that the analysis supporting a rejection under 35 U.S.C. § 103 should be made explicit. The Federal Circuit has stated that "rejections on obviousness cannot be sustained with mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." M.P.E.P. § 2142; *In re Kahn*, 441 F.3d 977, 988, 78 U.S.P.Q.2d 1329, 1336 (Fed. Cir. 2006); see also *KSR*, 550 U.S. at 418, 82 U.S.P.Q.2d at 1396.

Furthermore, “merely pointing to the presence of all claim elements in the prior art is not a complete statement of a rejection for obviousness.” *Crocs Inc. v. International Trade Commission*, 598 F.3d 1294 (Fed. Cir. 2010). “A proper rejection based on the rationale that the claimed invention is a combination of prior art elements also includes a finding that results flowing from the combination would have been predictable to a person of ordinary skill in the art.” MPEP § 2143, subsection I.A. Predictability encompasses the expectation that prior art elements are capable of being combined, as well as the expectation that the combination would have worked for its intended purpose. *DePuy Spine Inc. v. Medtronic Sofamor Danek Inc.*, 567 F.3d 1314 (Fed. Cir. 2009). Alternatively, predictability may be negated if a cited reference teaches away from the alleged combination of prior art elements. *United States v. Adams*, 383 U.S. 39, 52 86 S.Ct. 708, 15 L.Ed.2d 572 (1966) (upholding nonobviousness where references teaching away from the claimed combination would “deter any investigation into such a combination”); “[A] reference teaches away from a combination when using it in that combination would produce an inoperative result.” *In re ICON Health & Fitness Inc.*, 496 F.3d 1374, 1382 (Fed. Cir. 2007). An inference that a claimed combination would not have been obvious is especially strong where the prior art’s teachings undermine the very reason being proffered as to why a person of ordinary skill would have combined the known elements. *Id.*

Applicant further notes that “[i]f results would not have been predictable, Office personnel should not enter an obviousness rejection using the combination of prior art elements rationale, and should withdraw such a rejection if it has been made.” MPEP § 2143, subsection I.A.

The Examiner asserts that it would be obvious to combine the switching between modes for an NFC device of Griffin with the disclosure of Chin “in order to provide a low power

operation when in peer-to-peer operation because the mobile device is still in locked state which consumes less power.” *See*, Final Office Action dated July10, 2018 at 5. As an initial matter, it is unreasonable to allege that a person having ordinary skill in the pertinent art would look to the NFC circuitry of Griffin as being suitable for use in the device of Chin. Griffin is not only silent to its suitability for use within the device of Chin, but also does not even hint that the NFC circuit of Griffin could even be used and/or function in the environment/device of Chin, should a person of ordinary skill be motivated to combine Chin and Griffin (which Applicant is not admitting). In fact, it is unreasonable to allege that one skilled in the art would even look to the disclosure of Griffin, because Chin identifies a solution to the problem it is attempting to solve.

Moreover, the combination of Chin and Griffin fails to teach or disclose the particular order of processing as claimed in pending independent claims 1, 8, and 15.

Obviousness Must Not Rest on Hindsight or Ex Post Reasoning but Rather on Whether a Person of Ordinary Skill in the Art at the Time of the Invention Would Have Made the Proffered Combination.

A legal conclusion of obviousness must be supported by clearly articulated reasoning with some rational underpinning as to why the invention would have been obvious to a person of ordinary skill in the art at the time of the invention. MPEP 2141.III; *see also Innogenetics, N.V. v. Abbott Labs.*, 512 F.3d 1363, 1373 (Fed. Cir. 2008). Merely conclusory statements are insufficient. *In re Kahn*, 441 F.3d 977, 988 (Fed. Cir. 2006). Ex post reasoning and hindsight reconstruction of references to match the claimed invention must be avoided. *KSR Int’l Co. v. Teleflex Inc.*, 550 U.S. 398, 421 (2007) (“[A] factfinder should be aware, of course, of the distortion caused by hindsight bias and must be cautious of arguments reliant on ex post

reasoning”); *Graham v. John Deere Co.*, 383 U.S. 1, 36 (1966) (“This may also serve to ‘guard against slipping into use of hindsight,’ (citation omitted) and to resist the temptation to read into the prior art the teachings of the invention in issue.”); *Innogenetics*, 512 F.3d at 1374 n.3 (“We must still be careful not to allow hindsight reconstruction of references .”).

It is only through impermissible hindsight reasoning that one of ordinary skill in the art would even consider combining the NFC circuitry of Griffin with the device of Chin, as the combination does not disclose the claimed invention. The claimed invention shows that the mobile terminal transmits information about unlocking to the another mobile terminal when three conditions are met: first, the mobile terminal and the another mobile terminal are locked; second, the mobile terminal communicates with the another mobile terminal; and third, the mobile terminal receives an unlock input about the mobile terminal. That is to say, when the mobile terminal receives the unlock input, the another mobile terminal is within communication range of the short-range wireless communications of mobile terminal. The combination of Chin and Griffin fails to disclose such. Furthermore, the combination of Chin and Griffin fails to teach or disclose the particular order of processing as claimed in pending independent claims 1, 8, and 15.

The Examiner’s statements in error to the contrary renders an analysis by the Office that is clearly erroneous.¹ The Examiner has not articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. In other words, the rejection has not been made explicit and, as such, should be withdrawn. Therefore, the Office has erred for at

¹ "Rejections on obviousness cannot be sustained with mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." M.P.E.P. § 2142; *In re Kahn*, 441 F.3d 977, 988, 78 U.S.P.Q.2d 1329, 1336 (Fed. Cir. 2006); see also *KSR*, 550 U.S. at 418, 82 U.S.P.Q.2d at 1396. "Rejections on obviousness cannot be sustained with mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." M.P.E.P. § 2142; *In re Kahn*, 441 F.3d 977, 988, 78 U.S.P.Q.2d 1329, 1336 (Fed. Cir. 2006); see also *KSR*, 550 U.S. at 418, 82 U.S.P.Q.2d at 1396. An inference that a claimed combination would not have been obvious is especially strong where the prior art’s teachings undermine the very reason being proffered as to why a person of ordinary skill would have combined the known elements. *DePuy Spine Inc. v. Medtronic Sofamor Danek Inc.*, 567 F.3d 1314 (Fed. Cir. 2009).

least one reason, and withdrawal of the rejection is requested.

Turning back to the Chin reference, and with reference to Chin Figure 3, Chin discloses a step for unlocking one device (step 310), a step for coupling one device and the other device (step 330), and a step for unlocking the other device (step 350). That is to say, one device is NOT coupled with the other device when one device is unlocked (step 310). The meaning of “couple” indicates a (wired) docking between the PC and the PDA, as taught in the specification of Chin. In view of wireless communications, however, the meaning of “couple” indicates going into communication range of the short-range wireless communications from out of communication range of the short-range wireless communications. As discussed above, on the other hand, the claimed invention shows that the mobile terminal transmits information about unlocking to the another mobile terminal when three conditions are met: first, the mobile terminal and the another mobile terminal are locked; second, the mobile terminal communicates with the another mobile terminal; and third, the mobile terminal receives an unlock input about the mobile terminal. That is to say, when the mobile terminal receives the unlock input, the another mobile terminal is within communication range of the short-range wireless communications of mobile terminal.

As such, Applicant submits claims 1, 8, 15, and the claims dependent thereon are allowable over Chin and Griffin for at least these reasons.

Accordingly, Applicant submits that this rejection of claims 1, 8, and 15 under 35 U.S.C. § 103(a) should be withdrawn.

The deficiencies of Chin and Griffin have been discussed above. Smith, Gerhardt, and Friedlaender each fail to cure the deficiencies of Chin and/or Griffin. Specifically, none of Smith, Gerhardt, or Friedlaender teach or suggest the feature, “ wherein the conditions include: first, the mobile terminal is in a locked state, the another mobile terminal is in a locked

state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state; second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and third, after the performing, receiving, by the controller, the authentication input for switching the mobile terminal from the locked state to the unlocked state...” as recited in each of claims 1, 8, 15, and the claims dependent thereon.

Accordingly, Chin, Griffin, Smith, Gerhardt, and Friedlaender, taken alone or in combination, fail to teach or suggest each and every limitation of claims 1, 8, 15, and the claims dependent thereon. Thus, claims 1, 8, 15, and the claims dependent thereon are each allowable over the cited prior art.

Accordingly, Applicant submits that this rejection of the claims under 35 U.S.C. § 103(a) should be withdrawn.

Formal Request for Interview

Applicant submits that this application is in condition for allowance for at least the reasons set forth herein. If this application is not considered to be in condition for allowance by the Examiner, Applicant requests an interview with the Examiner to discuss the present application. Applicant’s attorney, Jonathan D. Cocks, may be reached at telephone number 212-408-2561 to schedule a mutually convenient date and time and to provide assistance or additional information as required.

CONCLUSION

On the basis of the foregoing remarks, Applicant respectfully submits that the pending claims of the present application are allowable over the prior art of record. Applicant thus respectfully requests the previous rejections be withdrawn, and that the pending claims be allowed by the Examiner. Favorable consideration and timely allowance of this application are respectfully requested.

This Response is being made solely to expedite prosecution of the present application and does not constitute an acquiescence to any prior art, objections, or rejections identified by the Examiner. Applicant's silence with regard to the Examiner's rejections of the dependent claims constitutes a recognition by Applicant that the rejections are moot based on Applicant's Amendment and/or Remarks regarding the independent claim from which the dependent claims depend.

Applicant authorizes the Commissioner to charge any additional fees and/or credit any overpayments associated with this paper to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418. Further, if a fee is required for an extension of time under 37 C.F.R. § 1.136 not provided for above, Applicant requests such extension and authorizes the charging of the extension fee to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418.

Respectfully submitted,

BAKER BOTTS L.L.P.

Dated: August 3, 2018

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REMARKS

Claims 1, 3-5, 8, 10, and 12-25 are pending in this application; claims 1, 8, and 15 are amended, and claims 2, 6, 7, 9, and 11 are canceled. Support for the amendments may be found throughout the specification and specifically in [0004]-[0010] and [0025]-[0031] of the published application, the corresponding figures, and the originally-filed claims. Thus, Applicant respectfully submits that no new matter is being added by the Amendments to the Claims.

Interview Summary

On August 1, 2018, Applicant's Representative, Jonathan Cocks, discussed the application with Examiner Shiue by telephone. The parties discussed the Final Office Action dated July 10, 2018, the prior art – including the Chin reference (US 20060224882) and the Griffin reference (US 2012/0040611), and addressed arguments submitted with the interview agenda by the Applicant's Representative regarding the Chin and Griffin references. No agreement on patentability was reached. Applicants would like to thank the Examiner for his time.

Rejection of Claims under 35 U.S.C. § 103

Claims 1, 8 and 15 stand rejected under 35 U.S.C. § 103 as being unpatentable over Chin (US 2006/0224882; hereinafter “Chin”) in view of Griffin (US 2012/0040611; “Griffin”).

Claims 4, 5, 12-14 and 16 stand rejected under 35 U.S.C. § 103 as being unpatentable over Chin and Griffin in view of Smith (US 2013/0183936; “Smith”).

Claims 3 and 10 stand rejected under 35 U.S.C. § 103 as being unpatentable over Chin, Griffin, and Smith in view of Gerhardt (US 2012/0280790; “Gerhardt”).

Claims 17-19 stand rejected under 35 U.S.C. § 103 as being unpatentable over Chin and

Griffin in view of Friedlaender (US 2011/0195665; “Friedlaender”).

Claims 20-25 stand rejected under 35 U.S.C. § 103 as being unpatentable over Chin and Griffin, in view of Gerhardt.

Applicant respectfully traverses the rejections.

Independent claim 1 was previously amended to recite the feature, “ wherein the conditions include: first, the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state; second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and third, after the performing, receiving, by the controller, the authentication input for switching the mobile terminal from the locked state to the unlocked state...” Independent claims 8 and 15 were also previously amended to recite similar features. No such configuration is taught or suggested by Chin or Griffin.

Additionally, claim 1 is newly amended to recite, inter alia, “ a controller which switches the mobile terminal between an unlocked state and a locked state based on an authentication input to the mobile terminal, wherein the locked state prevents unauthorized access to the mobile terminal; ” Independent claims 8 and 15 are also amended to recited similar features. Again, no such configuration is taught or suggested by Chin or Griffin.

Specifically, these amendments to claims 1, 8, and 15 clearly identify a condition relating to when the controller transmits information to the another mobile terminal. That is, the mobile terminal communicates (transmits and receives information) with the another mobile terminal

before the status of the another mobile terminal changes from “lock” to “unlock” by receiving information from the mobile terminal. Further, the amendments to claims 1, 8, and 15 specify the particular order of processing, which is not taught or suggested by Chin or Griffin.

Chin discloses a method for unlocking a device in which the user first enters a password into a first computing device. *See* Chin [0026]. Specifically, Chin discloses unlocking the “locked” status of a PC (the another terminal) when combining a PDA with the PC. Subsequently, the user couples the first computing device to a second computing device. *See* Chin [0027] and step 330 of Fig. 3. In Chin, the subsequent act of coupling the first computing device (which has already been unlocked) to the second computing device results in the unlocking of the second computing device. *See* Chin [0014] (“A password locked computing device may be unlocked by coupling the locked device to a password unlocked computing device”). However, the locked device (PDA) of Chin **cannot** communicate (transmit and receive information) with the unlocked computing device (PC) because communication between the PDA and the PC is **NOT** established **before** the combining, as required by the present disclosure. As such, Chin fails to teach or suggest, “ wherein the conditions include: first, the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state; second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and third, after the performing, receiving, by the controller, the authentication input for switching the mobile terminal from the locked state to the unlocked

state...” as recited in claims 1, 8, and 15.

Moreover, the present disclosure teaches that the state of both devices (the mobile terminal and the another mobile terminal) are altered (changed from a locked state to an unlocked state) only once the two devices are in range of each other. On the other hand, Chin only teaches altering the state of the second device once the second device is within range of the first device. The first device of Chin is already unlocked before being coupled with the second device, as shown in Chin Figure 3. Additionally, in Figure 3 of Chin, at 310, Chin states “associate computing devices with password.” “Associate” can not and does not mean “couple.” As taught by Chin, “associate” means “recognizable,” (*See*, Chin at [0020] and [0030]) and not “paired,” “connected,” or “coupled.”

Furthermore, Chin fails to teach or suggest changing the status of the another mobile terminal by the mobile terminal when the another mobile terminal is in a wireless communication area of the mobile terminal. Specifically, claims 1, 8, and 15 include, “the mobile terminal is in a locked state” and “the another mobile terminal is in a locked state” as conditions for when the controller is to transmit information to the another mobile terminal. That is, a status of the another mobile terminal is “lock” when the mobile terminal transmits information to the another mobile terminal. Chin fails to disclose such limitations. Chin requires that a status of the PDA is “unlock” when combining the PDA with the PC in order to unlock a status of the PC. In other words, there is absolutely no disclosure by Chin that any status of the another mobile terminal is changed by the mobile terminal when the another mobile terminal is in a wireless communication area of the mobile terminal.

Furthermore, another feature of the present disclosure is that the mobile terminal transmits information for changing a status from Lock to Unlock to the another mobile terminal

once specified conditions are met in the order specified. In other words, the meeting of specified conditions is a trigger for the transmission of information. This is clear from the claim language shown in claims 1, 8, and 15. Chin fails to disclose any such conditions.

Even further, the Examiner acknowledges that Chin fails to teach or disclose, “ second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal ” as recited in claims 1, 8, and 15. (*See* Final Office Action, dated July 10, 2018 at 4). This element specifically details that the mobile terminal communicates with the another mobile terminal if the mobile terminal and the another mobile terminal are locked and the another mobile terminal is within communication range of the short-range wireless communications of the mobile terminal.

The Examiner turns to the Griffin reference in an attempt to cure the deficiencies of Chin. Griffin, however, considered alone or in combination with Chin, fails to cure the deficiencies of Chin.

Griffin discloses “ [a] mobile wireless communications device may further include a processor carried by the portable housing and coupled to the NFC circuit and configured to switch the NFC circuit between the first NFC mode and the second NFC mode at a first frequency based upon a first triggering event, and switch the NFC circuit between the first NFC mode and the second NFC mode at a second frequency lower than the first frequency based upon a second triggering event different than the first triggering event.” *See*, Griffin at Abstract. Griffin aims to improve usability by switching between a first mode and a second mode. Specifically, Griffin discloses a technique for an NFC device that has two modes:

- A first mode (typical low power mode – NFC Standard) which switches ON/OFF the NFC circuit by 3 seconds (first frequency); and
- A second mode which switches ON/OFF the NFC circuit by 1 second (second frequency).

More specifically, the examiner relies on paragraph [0040] of Griffin to cure the deficiencies of Chin. Griffin and Chin, however, taken individually or in combination, fail to teach or disclose each and every limitation of independent claims 1, 8, and 15.

Griffin discloses menus on the display in each of Figures 3 and 4, reproduced below.

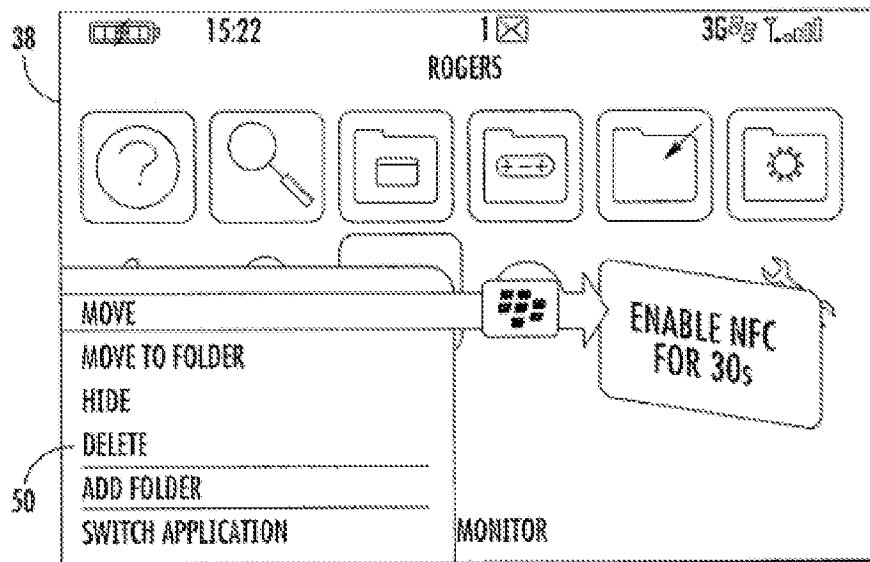


FIG. 3

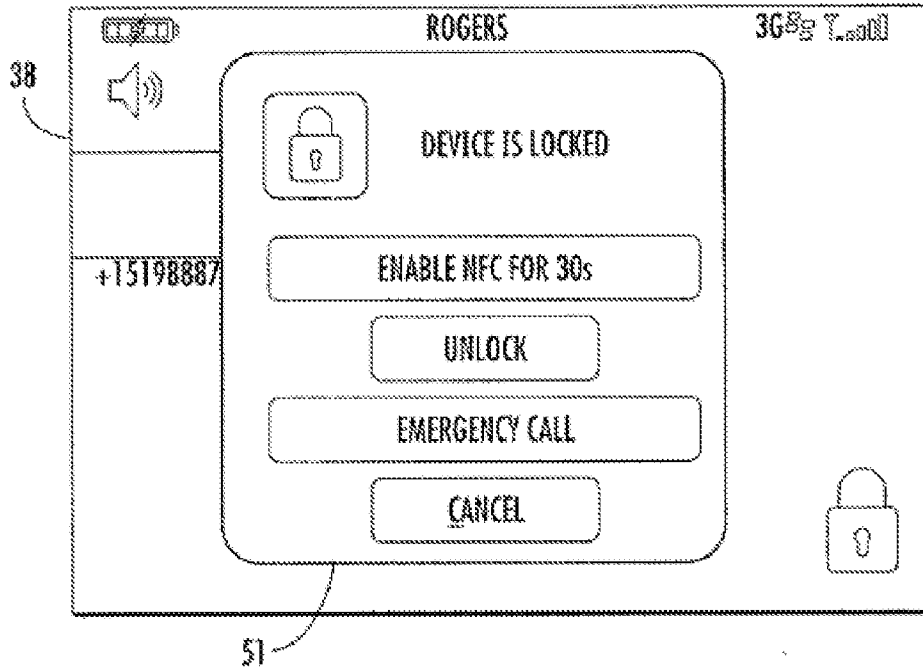


FIG. 4

Specifically, Figure 3 (which corresponds to the disclosure at [0038]-[0039] of Griffin) discloses menu 50, while Figure 4 (which corresponds to the disclosure at [0040] of Griffin) discloses menu 51. Menu 50 is the menu on the display in “Normal Mode” while Menu 51 is the menu on the display in a “Lock” status.

As the Examiner discusses, with respect to [0040], when NFC device 31 detects that the other NFC device 32 is locked, menu 51 is displayed on the display. With reference to Figure 4, it is clear that the “DEVICE IS LOCKED” (as shown verbatim on the display in Figure 4) and four options (“ENABLE NFC FOR 30s,” “UNLOCK,” “EMERGENCY CALL,” and “CANCEL”) are shown on the display. Additionally, there is absolutely no indication or corresponding description which details which device is being referred to when the “DEVICE IS LOCKED” message is displayed.

Under a first construction, the locked device may be NFC device 31. On the other hand,

and as a second construction, the locked device may be NFC device 32.

Considering the first construction and the four options noted above for NFC device 31: Menu 51 is to switch a mode of NFC device 31, and the four options do NOT change anything of NFC device 32. As such, NFC device 32 does not process anything based on the four options. Additionally, the specification supports this construction as there is no mention of NFC device 32 in any of [0040]–[0042] except for the first sentence of [0040]. On the other hand, when considering the second construction, the NFC device 31 is NOT locked and menu 51 is to remotely control NFC device 32 by the four options. Additionally, there is NO description regarding whether NFC device 32 is locked or unlocked in the specification.

As such, when considering the first construction, the NFC device 31 is locked. However, there is absolutely NO disclosure about the communication between NFC device 31 and NFC device 32 after NFC device 31 is locked in [0040]. Thus, there is NO disclosure about said element. On the other hand, when considering the second construction, NFC device 32 is locked. However, NFC device 31 is NOT locked. Therefore, there is NO disclosure about said element either.

Moreover, the **claimed invention is a technique for controlling a Lock/Unlock status of two devices**; while **Griffin discloses a technique for switching an NFC MODE of NFC device 31 or NFC device 32 (not NFC device 31 AND NFC device 32)**. There is absolutely NO disclosure to switch a Lock/Unlock status of any of NFC device 31 and NFC device 32 in the specification, as cited by the Examiner in the Final Office Action dated July 10, 2018. Griffin fails to teach or suggest the Locking/Unlocking with respect to more than one device, under either of the first possible construction or the second possible construction.

Even further, Figure 8 (at reference numeral 137) and Figure 10 (at reference numeral

204) of Griffin disclose a communication between NFC devices (“initial peer-to-peer NFC communications with other BFC device upon being switched to peer-to-peer recognition state therewith”), each of which are reproduced below for convenience.

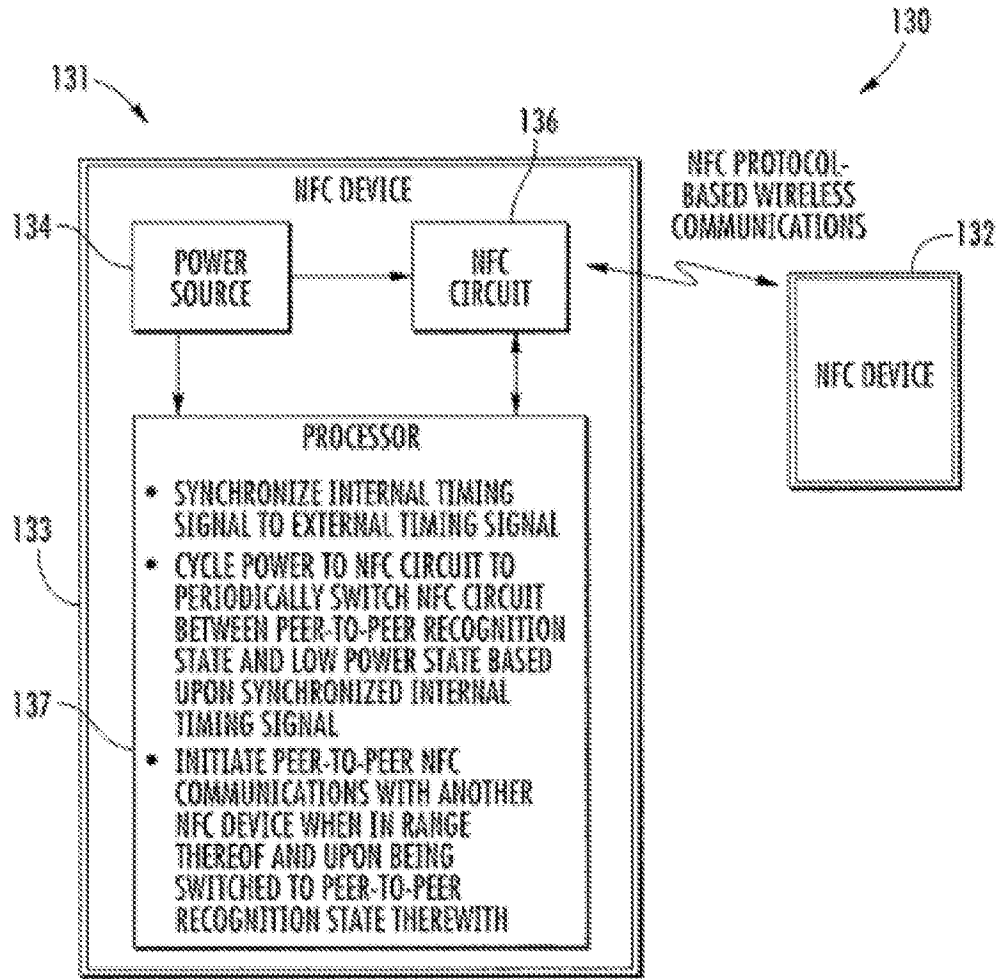


FIG. 8

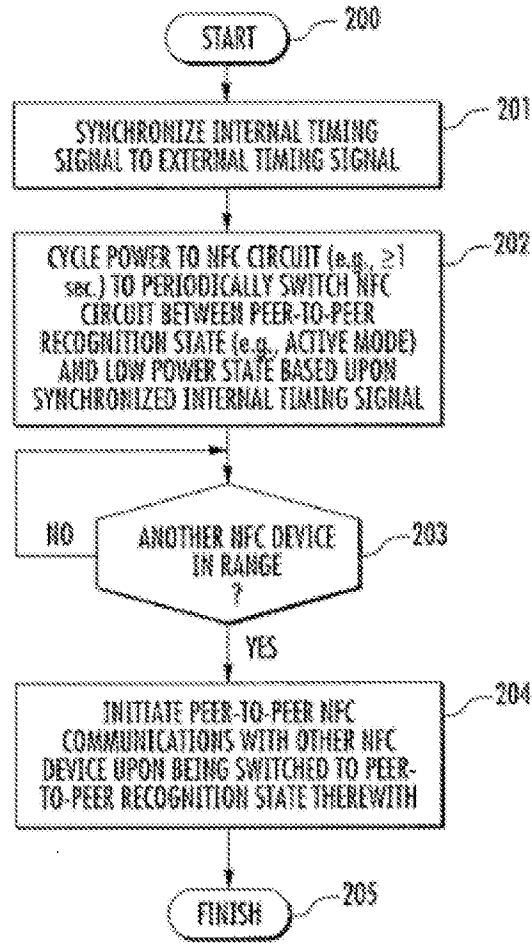


FIG. 10

However, in each of Griffin Figure 8, Figure 10, and the specification with regard to these figures, there is absolutely NO teaching or suggestion regarding the state of the NFC device—that is locked or unlocked. As such, a person of ordinary skill would not understand the communication is processed under a unlocked state of NFC devices. Further, considering to the technical purpose of Griffin (as detailed above), Griffin is NOT appropriate as cited reference for combination with Chin.

Additionally, as clearly disclosed and taught in Griffin, steps 137 and 204 are only initiated “**upon being switched to peer-to-peer recognition state therewith**” (emphasis added).

As such, Griffin does not teach or suggest “second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal,” as suggested by the Examiner, but rather that peer-to-peer communications are only initiated when switched to such a state therewith.

Therefore, Griffin and Chin, taken individually or in combination, fail to teach or suggest each and every limitation of claims 1, 8, or 15.

A Clear Articulation of the Reason(s) Why the Claimed Invention Would Be Obvious Must Be Made by the Examiner.

In addition to the arguments presented above, the Examiner bears the initial burden of factually supporting any *prima facie* conclusion of obviousness. If the Examiner does not produce a *prima facie* case, the Applicant is under no obligation to submit secondary evidence to show nonobviousness. M.P.E.P. § 2142. The key to supporting any rejection under 35 U.S.C. § 103 is the clear articulation of the reason(s) why the claimed invention would have been obvious. The Supreme Court in *KSR Int'l Co. v. Teleflex Inc.*, 550 U.S. 538, 418, 82 U.S.P.Q.2d 1385, 1396 (2007), noted that the analysis supporting a rejection under 35 U.S.C. § 103 should be made explicit. The Federal Circuit has stated that "rejections on obviousness cannot be sustained with mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." M.P.E.P. § 2142; *In re Kahn*, 441 F.3d 977, 988, 78 U.S.P.Q.2d 1329, 1336 (Fed. Cir. 2006); see also *KSR*, 550 U.S. at 418, 82 U.S.P.Q.2d at 1396.

Furthermore, “merely pointing to the presence of all claim elements in the prior art is not a complete statement of a rejection for obviousness.” *Crocs Inc. v. International Trade Commission*, 598 F.3d 1294 (Fed. Cir. 2010). “A proper rejection based on the rationale that the claimed invention is a combination of prior art elements also includes a finding that results flowing from the combination would have been predictable to a person of ordinary skill in the art.” MPEP § 2143, subsection I.A. Predictability encompasses the expectation that prior art elements are capable of being combined, as well as the expectation that the combination would have worked for its intended purpose. *DePuy Spine Inc. v. Medtronic Sofamor Danek Inc.*, 567 F.3d 1314 (Fed. Cir. 2009). Alternatively, predictability may be negated if a cited reference teaches away from the alleged combination of prior art elements. *United States v. Adams*, 383 U.S. 39, 52 86 S.Ct. 708, 15 L.Ed.2d 572 (1966) (upholding nonobviousness where references teaching away from the claimed combination would “deter any investigation into such a combination”); “[A] reference teaches away from a combination when using it in that combination would produce an inoperative result.” *In re ICON Health & Fitness Inc.*, 496 F.3d 1374, 1382 (Fed. Cir. 2007). An inference that a claimed combination would not have been obvious is especially strong where the prior art’s teachings undermine the very reason being proffered as to why a person of ordinary skill would have combined the known elements. *Id.*

Applicant further notes that “[i]f results would not have been predictable, Office personnel should not enter an obviousness rejection using the combination of prior art elements rationale, and should withdraw such a rejection if it has been made.” MPEP § 2143, subsection I.A.

The Examiner asserts that it would be obvious to combine the switching between modes for an NFC device of Griffin with the disclosure of Chin “in order to provide a low power

operation when in peer-to-peer operation because the mobile device is still in locked state which consumes less power.” *See*, Final Office Action dated July 10, 2018 at 5. As an initial matter, it is unreasonable to allege that a person having ordinary skill in the pertinent art would look to the NFC circuitry of Griffin as being suitable for use in the device of Chin. Griffin is not only silent to its suitability for use within the device of Chin, but also does not even hint that the NFC circuit of Griffin could even be used and/or function in the environment/device of Chin, should a person of ordinary skill be motivated to combine Chin and Griffin (which Applicant is not admitting). In fact, it is unreasonable to allege that one skilled in the art would even look to the disclosure of Griffin, because Chin identifies a solution to the problem it is attempting to solve.

Moreover, the combination of Chin and Griffin fails to teach or disclose the particular order of processing as claimed in pending independent claims 1, 8, and 15.

Obviousness Must Not Rest on Hindsight or Ex Post Reasoning but Rather on Whether a Person of Ordinary Skill in the Art at the Time of the Invention Would Have Made the Proffered Combination.

A legal conclusion of obviousness must be supported by clearly articulated reasoning with some rational underpinning as to why the invention would have been obvious to a person of ordinary skill in the art at the time of the invention. MPEP 2141.III; *see also Innogenetics, N.V. v. Abbott Labs.*, 512 F.3d 1363, 1373 (Fed. Cir. 2008). Merely conclusory statements are insufficient. *In re Kahn*, 441 F.3d 977, 988 (Fed. Cir. 2006). Ex post reasoning and hindsight reconstruction of references to match the claimed invention must be avoided. *KSR Int’l Co. v. Teleflex Inc.*, 550 U.S. 398, 421 (2007) (“[A] factfinder should be aware, of course, of the distortion caused by hindsight bias and must be cautious of arguments reliant on ex post

reasoning”); *Graham v. John Deere Co.*, 383 U.S. 1, 36 (1966) (“This may also serve to ‘guard against slipping into use of hindsight,’ (citation omitted) and to resist the temptation to read into the prior art the teachings of the invention in issue.”); *Innogenetics*, 512 F.3d at 1374 n.3 (“We must still be careful not to allow hindsight reconstruction of references .”).

It is only through impermissible hindsight reasoning that one of ordinary skill in the art would even consider combining the NFC circuitry of Griffin with the device of Chin, as the combination does not disclose the claimed invention. The claimed invention shows that the mobile terminal transmits information about unlocking to the another mobile terminal when three conditions are met: first, the mobile terminal and the another mobile terminal are locked; second, the mobile terminal communicates with the another mobile terminal; and third, the mobile terminal receives an unlock input about the mobile terminal. That is to say, when the mobile terminal receives the unlock input, the another mobile terminal is within communication range of the short-range wireless communications of mobile terminal. The combination of Chin and Griffin fails to disclose such. Furthermore, the combination of Chin and Griffin fails to teach or disclose the particular order of processing as claimed in pending independent claims 1, 8, and 15.

The Examiner’s statements in error to the contrary renders an analysis by the Office that is clearly erroneous.¹ The Examiner has not articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. In other words, the rejection has not been made explicit and, as such, should be withdrawn. Therefore, the Office has erred for at

¹ "Rejections on obviousness cannot be sustained with mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." M.P.E.P. § 2142; *In re Kahn*, 441 F.3d 977, 988, 78 U.S.P.Q.2d 1329, 1336 (Fed. Cir. 2006); see also *KSR*, 550 U.S. at 418, 82 U.S.P.Q.2d at 1396. "Rejections on obviousness cannot be sustained with mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." M.P.E.P. § 2142; *In re Kahn*, 441 F.3d 977, 988, 78 U.S.P.Q.2d 1329, 1336 (Fed. Cir. 2006); see also *KSR*, 550 U.S. at 418, 82 U.S.P.Q.2d at 1396. An inference that a claimed combination would not have been obvious is especially strong where the prior art’s teachings undermine the very reason being proffered as to why a person of ordinary skill would have combined the known elements. *DePuy Spine Inc. v. Medtronic Sofamor Danek Inc.*, 567 F.3d 1314 (Fed. Cir. 2009).

least one reason, and withdrawal of the rejection is requested.

Turning back to the Chin reference, and with reference to Chin Figure 3, Chin discloses a step for unlocking one device (step 310), a step for coupling one device and the other device (step 330), and a step for unlocking the other device (step 350). That is to say, one device is NOT coupled with the other device when one device is unlocked (step 310). The meaning of “couple” indicates a (wired) docking between the PC and the PDA, as taught in the specification of Chin. In view of wireless communications, however, the meaning of “couple” indicates going into communication range of the short-range wireless communications from out of communication range of the short-range wireless communications. As discussed above, on the other hand, the claimed invention shows that the mobile terminal transmits information about unlocking to the another mobile terminal when three conditions are met: first, the mobile terminal and the another mobile terminal are locked; second, the mobile terminal communicates with the another mobile terminal; and third, the mobile terminal receives an unlock input about the mobile terminal. That is to say, when the mobile terminal receives the unlock input, the another mobile terminal is within communication range of the short-range wireless communications of mobile terminal.

As such, Applicant submits claims 1, 8, 15, and the claims dependent thereon are allowable over Chin and Griffin for at least these reasons.

Accordingly, Applicant submits that this rejection of claims 1, 8, and 15 under 35 U.S.C. § 103(a) should be withdrawn.

The deficiencies of Chin and Griffin have been discussed above. Smith, Gerhardt, and Friedlaender each fail to cure the deficiencies of Chin and/or Griffin. Specifically, none of Smith, Gerhardt, or Friedlaender teach or suggest the feature, “ wherein the conditions include: first, the mobile terminal is in a locked state, the another mobile terminal is in a locked

state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state; second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and third, after the performing, receiving, by the controller, the authentication input for switching the mobile terminal from the locked state to the unlocked state...” as recited in each of claims 1, 8, 15, and the claims dependent thereon.

Accordingly, Chin, Griffin, Smith, Gerhardt, and Friedlaender, taken alone or in combination, fail to teach or suggest each and every limitation of claims 1, 8, 15, and the claims dependent thereon. Thus, claims 1, 8, 15, and the claims dependent thereon are each allowable over the cited prior art.

Accordingly, Applicant submits that this rejection of the claims under 35 U.S.C. § 103(a) should be withdrawn.

Formal Request for Interview

Applicant submits that this application is in condition for allowance for at least the reasons set forth herein. If this application is not considered to be in condition for allowance by the Examiner, Applicant requests an interview with the Examiner to discuss the present application. Applicant’s attorney, Jonathan D. Cocks, may be reached at telephone number 212-408-2561 to schedule a mutually convenient date and time and to provide assistance or additional information as required.

CONCLUSION

On the basis of the foregoing remarks, Applicant respectfully submits that the pending claims of the present application are allowable over the prior art of record. Applicant thus respectfully requests the previous rejections be withdrawn, and that the pending claims be allowed by the Examiner. Favorable consideration and timely allowance of this application are respectfully requested.

This Response is being made solely to expedite prosecution of the present application and does not constitute an acquiescence to any prior art, objections, or rejections identified by the Examiner. Applicant's silence with regard to the Examiner's rejections of the dependent claims constitutes a recognition by Applicant that the rejections are moot based on Applicant's Amendment and/or Remarks regarding the independent claim from which the dependent claims depend.

Applicant authorizes the Commissioner to charge any additional fees and/or credit any overpayments associated with this paper to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418. Further, if a fee is required for an extension of time under 37 C.F.R. § 1.136 not provided for above, Applicant requests such extension and authorizes the charging of the extension fee to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418.

Respectfully submitted,

BAKER BOTTS L.L.P.

Dated: August 3, 2018

By: /Jonathan D. Cocks/
Jonathan D. Cocks
Registration No. 75,646
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(212) 408-2561 (telephone)

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A mobile terminal configured to switch between an unlocked state and a locked state in which a predetermined operation is limited, comprising:

a transceiver which performs short-range wireless communications;

a memory which previously stores information about an another mobile terminal; and

a controller which switches the mobile terminal between an unlocked state and a locked state based on an authentication input to the mobile terminal, wherein the locked state prevents unauthorized access to the mobile terminal;

wherein, when conditions are met, the controller controls the mobile terminal to transmit information to the another mobile terminal for switching a state of the another mobile terminal from a locked state to an unlocked state, wherein the conditions include:

first, the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state;

second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and

third, after the performing, receiving, by the controller, the authentication input for switching the mobile terminal from the locked state to the unlocked state.

2. (Cancelled)

3. (Previously Presented) The mobile terminal according to claim 13, wherein the transceiver, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

4. (Previously Presented) The mobile terminal according to claim 13, wherein before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user.

5. (Previously Presented) The mobile terminal according to claim 13, wherein the controller performs short-range wireless communications with the another mobile terminal by the transceiver and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the memory and is in communication range of the short-range wireless communications by the transceiver when the mobile terminal is in a locked state

6. (Cancelled)

7. (Cancelled)

8. (Currently Amended) A method for controlling a mobile terminal to transit between an unlocked state and a locked state in which a predetermined operation is limited, comprising the steps of:

performing short-range wireless communications;

storing information about an another mobile terminal in a memory; and

transmitting information from the mobile terminal to the another mobile terminal which is for switching a state of the another terminal from a locked state to an unlocked state when conditions are met, wherein the locked state prevents unauthorized access to the mobile terminal, and wherein the conditions include:

first, the mobile terminal is in a locked state; the another mobile terminal is in a locked state; and the another mobile terminal is in communication range of the short-range wireless communications;

second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications, performing, via the mobile terminal, the short-range wireless communication with the another mobile terminal; and

third, after the performing, receiving the authentication input by the mobile terminal for switching the mobile terminal from the locked state to the unlocked state.

9. (Cancelled)

10. (Previously Presented) The method according to claim 14, further comprising:

transmitting, based on the operation, a signal to the another mobile terminal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

11. (Cancelled)

12. (Previously Presented) The method according to claim 14, further comprising:

performing short-range wireless communications with the another mobile terminal and setting the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the memory and is in communication range of the short-range wireless communications when the mobile terminal is in a locked state.

13. (Previously Presented) The mobile terminal according to claim 1, wherein the operation includes a biometrics authentication.

14. (Previously Presented) The method according to claim 8, wherein the operation includes a biometrics authentication.

15. (Currently Amended) A lock state control system comprising:

a first mobile terminal and a second mobile terminal which are configured to switch between an unlocked state and a locked state in which a predetermined operation is limited;

wherein the first mobile terminal comprises a transceiver which performs short-range wireless communications, a memory which previously stores information about the second mobile terminal, and a controller which switches the first mobile terminal between an unlocked

state and a locked state based on an authentication input to the first mobile terminal from a user, wherein the locked state prevents unauthorized access to the mobile terminal;

wherein, when conditions are met, the controller controls the first mobile terminal to transmit information to the second mobile terminal for switching a state of the second mobile terminal from a locked state to an unlocked state, wherein the conditions include:

first, the first mobile terminal is in a locked state, the second mobile terminal is in a locked state, and the second mobile terminal is in communication range of the short-range wireless communications of the first mobile terminal;

second, after the mobile terminal is in the locked state, the second mobile terminal is in the locked state, and the second mobile terminal is in communication range of the short-range wireless communications of the first mobile terminal, performing, via the first mobile terminal, the short-range wireless communications with the second mobile terminal; and

third, after the performing, receiving, via the first mobile terminal, the authentication input for switching a state of the first mobile terminal from a locked state to an unlocked state.

16. (Previously Presented) The lock state control system according to claim 15, wherein the operation includes a biometrics authentication.

17. (Previously Presented) The mobile terminal according to claim 1, further configured to store information about two or more another mobile terminals.

18. (Previously Presented) The method according to claim 8, the method further comprising the step of storing information about two or more another mobile terminals.

19. (Previously Presented) The lock state control system according to claim 15, further comprising two or more another mobile terminals.

20. (Previously Presented) The mobile terminal according to claim 1, wherein the short-range wireless communication is via a Bluetooth connection.

21. (Previously Presented) The mobile terminal according to claim 1, wherein the short-range wireless communication is via infrared or a Wi-Fi connection.

22. (Previously Presented) The method according to claim 8, wherein the short-range wireless communication is performed via a Bluetooth connection.

23. (Previously Presented) The method according to claim 8, wherein the short-range wireless communication is performed via infrared or a Wi-Fi connection.

24. (Previously Presented) The lock state control system according to claim 15, wherein the short-range wireless communications are performed via a Bluetooth connection.

25. (Previously Presented) The lock state control system according to claim 15, wherein the short-range wireless communications are performed via infrared or a Wi-Fi connection.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hirabayashi, *et al.* Examiner: Shiue, Dong-Chang
Serial No.: 13/874,535 Confirmation No.: 9744
Filed: May 1, 2013 Art Unit: 2648
Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF

**AMENDMENT AFTER FINAL REJECTION AND REQUEST UNDER THE AFTER
FINAL CONSIDERATION PROGRAM (AFCP) 2.0**

FILED ELECTRONICALLY

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

Sir:

In response to the Final Office Action dated July 10, 2018, for which a shortened statutory period of three months, ending October 10, 2018, was set in which to respond, the following remarks are submitted and reconsideration of the claim rejections is respectfully requested. A request under the After Final Consideration Program (AFCP) 2.0 is also included herein.

AMENDMENTS TO THE CLAIMS begin on page 2 of this document.

REMARKS begin on page 9 of this document.

Electronic Acknowledgement Receipt

EFS ID:	33367452
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Jonathan Drew Cocks/Danielle Rey
Filer Authorized By:	Jonathan Drew Cocks
Attorney Docket Number:	072388.0418
Receipt Date:	03-AUG-2018
Filing Date:	01-MAY-2013
Time Stamp:	12:29:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	After Final Consideration Program Request	AFCP_asfiled.pdf	89380 <small>98015845e59470a07daccb7fba25393a9c89f eaaa</small>	no	2

Warnings:

IPR2020-00202

Information:				
2		FOA_Resp_asfiled.pdf	226011 96b36ab5ad79a4bcae550229fd6e26d19ce f66f5	yes 25
Multipart Description/PDF files in .zip description				
		Document Description	Start	End
		Applicant Arguments/Remarks Made in an Amendment	9	25
		Claims	2	8
		Response After Final Action	1	1
Warnings:				
Information:				
Total Files Size (in bytes):			315391	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>				

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/874,535	Filing Date 05/01/2013	<input type="checkbox"/> To be Mailed
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ENTITY: LARGE SMALL MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		x \$80 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		x \$420 =	
<input type="checkbox"/> 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).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED - PART II

	(Column 1)		(Column 2)	(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	08/03/2018		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	x \$100 = 0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$460 = 0
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
TOTAL ADD'L FEE						0

	(Column 1)		(Column 2)	(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
TOTAL ADD'L FEE						

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

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

*** 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.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/874,535	05/01/2013	Masayuki HIRABAYASHI	072388.0418

CONFIRMATION NO. 9744

POA ACCEPTANCE LETTER



21003
BAKER BOTTS L.L.P.
30 ROCKEFELLER PLAZA
44TH FLOOR
NEW YORK, NY 10112-4498

Date Mailed: 08/01/2018

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 07/26/2018.

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.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/mtklemichael/



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Table with 6 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY. DOCKET NO, TOT CLAIMS, IND CLAIMS. Row 1: 13/874,535, 05/01/2013, 2648, 3840, 072388.0418, 11, 8

CONFIRMATION NO. 9744
REPLACEMENT FILING RECEIPT

21003
BAKER BOTTS L.L.P.
30 ROCKEFELLER PLAZA
44TH FLOOR
NEW YORK, NY 10112-4498



Date Mailed: 08/01/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

Inventor(s)

Masayuki HIRABAYASHI, Yokohama, JAPAN;
Hideo NISHIJIMA, Hitachinaka, JAPAN;

Applicant(s)

Maxell, Ltd., Kyoto, JAPAN;

Assignment For Published Patent Application

Maxell, Ltd., Kyoto, JAPAN

Power of Attorney: The patent practitioners associated with Customer Number 21003

Domestic Applications for which benefit is claimed - None.

A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

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

JAPAN 2012-117105 05/23/2012 No Access Code Provided

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: No

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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: 05/31/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/874,535**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No
Title

MOBILE TERMINAL AND CONTROL METHOD THEREOF

Preliminary Class

455

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

Practitioners associated with Customer Number: 21003

OR

Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

The address associated with Customer Number: 21003

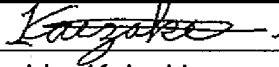
OR

<input type="checkbox"/>	Firm or Individual Name			
	Address			
	City	State	Zip	
	Country			
	Telephone	Email		

Assignee Name and Address:
 Maxell, Ltd.
 1, Koizumi, Oyamazaki, Oyamazaki-cho Otokuni-gun, Kyoto 618-8525, Japan

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of. The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record
 The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	Oct. 17, 2017
Name	Kazuhiro Kaizaki	Telephone	
Title	Vice President		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (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 3 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.

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.

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: MAXELL, LTD.Application No./Patent No.: 13/874,535 Filed/Issue Date: 05-01-2013Titled: MOBILE TERMINAL AND CONTROL METHOD THEREOFMAXELL, LTD., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. The assignee of the entire right, title, and interest.
2. An assignee of less than the entire right, title, and interest (check applicable box):
- The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
- B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Masayuki Hirabayashi et al. To: HITACHI CONSUMER ELECTRONICS CO., LTD.The document was recorded in the United States Patent and Trademark Office at
Reel 030758, Frame 0043, or for which a copy thereof is attached.2. From: HITACHI CONSUMER ELECTRONICS CO., LTD. To: HITACHI MAXELL, LTD.The document was recorded in the United States Patent and Trademark Office at
Reel 033685, Frame 0883, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(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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Apple Inc. EX1002 Page 152

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STATEMENT UNDER 37 CFR 3.73(c)

3. From: HITACHI MAXELL, LTD. To: MAXELL, LTD.

The document was recorded in the United States Patent and Trademark Office at
Reel 045142, Frame 0208, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet(s).

As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Robert L. Maier/

Signature

Robert L. Maier

Printed or Typed Name

July 26, 2018

Date

54,291

Title or Registration 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.

Electronic Acknowledgement Receipt

EFS ID:	33295078
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Robert Lawrence Maier/Hiroko Lavietes
Filer Authorized By:	Robert Lawrence Maier
Attorney Docket Number:	072388.0418
Receipt Date:	26-JUL-2018
Filing Date:	01-MAY-2013
Time Stamp:	16:09:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	Corrected_ADS.pdf	129204 <small>b38e361c5f4c81271c7a811cd3f4d0d6754d fb52</small>	no	7

Warnings:

IPR2020-00202

Information:

This is not an USPTO supplied ADS fillable form

2	Power of Attorney	POA.pdf	38011	no	1
			2b535b196ce178b435a10631a5292e480d5d1dc3		

Warnings:

Information:

3	Assignee showing of ownership per 37 CFR 3.73	Statement.pdf	188335	no	3
			3668c89434b15656f9536158848495d4e2e4af5b		

Warnings:

Information:

Total Files Size (in bytes):	355550
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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.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	072388.0418
		Application Number	13/874,535
Title of Invention	MOBILE TERMINAL AND CONTROL METHOD THEREOF		
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.)

Inventor Information:

Inventor 1 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Masayuki		Hirabayashi	
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City	Yokohama	Country of Residence ⁱ	JP	

Mailing Address of Inventor:

Address 1	c/o Hitachi, Ltd., IP Group, 12th Floor			
Address 2	Marunouchi Center Bldg., 6-1, Marunouchi 1-chome			
City	Chiyoda-ku, Tokyo	State/Province		
Postal Code	100-8220	Country ⁱ	JP	

Inventor 2 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Hideo		Nishijima	
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City	Hitachinaka	Country of Residence ⁱ	JP	

Mailing Address of Inventor:

Address 1	c/o Hitachi, Ltd., IP Group, 12th Floor			
Address 2	Marunouchi Center Bldg., 6-1, Marunouchi 1-chome			
City	Chiyoda-ku, Tokyo	State/Province		
Postal Code	100-8220	Country ⁱ	JP	

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	072388.0418
	Application Number	<u>13/874,535</u>
Title of Invention	MOBILE TERMINAL AND CONTROL METHOD THEREOF	

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	21003		
Email Address		<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	MOBILE TERMINAL AND CONTROL METHOD THEREOF		
Attorney Docket Number	072388.0418	Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	10	Suggested Figure for Publication (if any)	

Filing By Reference :

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

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). Either enter 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.

Please Select One:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	21003		

IPR2020-00202

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	072388.0418
	Application Number	<u>13/874,535</u>
Title of Invention	MOBILE TERMINAL AND CONTROL METHOD THEREOF	

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.

When referring to the current application, please leave the application number blank.

Prior Application Status			<input type="button" value="Remove"/>
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)

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 priority to a foreign application. 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(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

			<input type="button" value="Remove"/>
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
2012-117105	JP	2012-05-23	

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	072388.0418
	Application Number	<u>13/874,535</u>
Title of Invention	MOBILE TERMINAL AND CONTROL METHOD THEREOF	

Authorization to Permit Access:

<input checked="" type="checkbox"/> Authorization to Permit Access to the Instant Application by the Participating Offices
<p>If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.</p> <p>In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.</p> <p>In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.</p>

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.		
Applicant 1		
<p>If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.</p>		
<input type="button" value="Clear"/>		
<input checked="" type="radio"/> Assignee	<input type="radio"/> Legal Representative under 35 U.S.C. 117	<input type="radio"/> Joint Inventor
<input type="radio"/> Person to whom the inventor is obligated to assign.	<input type="radio"/> Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:		
Name of the Deceased or Legally Incapacitated Inventor : <input type="text"/>		
If the Applicant is an Organization check here. <input checked="" type="checkbox"/>		
Organization Name	Hitachi Maxell, Ltd.	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	072388.0418
	Application Number	<u>13/874,535</u>
Title of Invention	MOBILE TERMINAL AND CONTROL METHOD THEREOF	

Mailing Address Information For Applicant:			
Address 1	-1-88, Oshitora 1-chome, Ibaraki-shi- 1 KOIZUMI, OYAMAZAKI, OYAMAZAKI-CHO, OTOKUNI-GUN		
Address 2			
City	-Osaka- KYOTO	State/Province	
Country	JP	Postal Code	-567-8567
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1	
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.	
If the Assignee or Non-Applicant Assignee is an Organization check here. <input checked="" type="checkbox"/>	
Organization Name	Hitachi Maxell, Ltd.

Mailing Address Information For Assignee including Non-Applicant Assignee:			
Address 1	-1-88, Oshitora 1-chome, Ibaraki-shi- 1 KOIZUMI, OYAMAZAKI, OYAMAZAKI-CHO, OTOKUNI-GUN		
Address 2			
City	-Osaka- KYOTO	State/Province	
Country	JP	Postal Code	-567-8567-
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.			
Signature	/Robert L. Maier/	Date (YYYY-MM-DD)	2018-07-26 IPR2020-00202

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	072388.0418
	Application Number	<u>13/874,535</u>
Title of Invention	MOBILE TERMINAL AND CONTROL METHOD THEREOF	

First Name	Robert L.	Last Name	Maier	Registration Number	54291
------------	-----------	-----------	-------	---------------------	-------

Additional Signature may be generated within this form by selecting the Add button.

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.**

Privacy Act Statement

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO. Includes details for application 13/874,535 and 21003, inventor Masayuki HIRABAYASHI, and examiner SHIUE, DONG-CHANG.

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):

DLNYDOCKET@BAKERBOTTSCOM

DETAILED ACTION

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

Response to Arguments

Rejection of Claims under 35 U.S.C. § 102(b)

On pages 9-12 of Remarks filed on 05/31/208, Applicant's arguments with respect to claims 1, 8, 15 and the primary reference Chin have been considered but are moot because the arguments do not apply to the new combination of the references being used in the current rejection.

Rejection of Claims under 35 U.S.C. § 103(a)

On pages 12-14 of the Remarks, Applicant's statements regarding claims 3-5, 10, 12-14, 16-19, and 20-25 are acknowledged.

The examiner addressed every specific claim limitation with citations from the prior art using applicant's claim language verbatim. See below.

Claim Rejections - 35 USC § 103

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

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

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1. Claims 1, 8, and 15 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (US 20060224882) in view of **Griffin** (US 20120040611).

Regarding claim 1, Chin discloses that “A mobile terminal configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

a transceiver which performs short-range wireless communications (**Chin, Fig. 1: Communication connection(s) 116**);

a memory which previously stores information about an another mobile terminal (**Chin, Fig. 1: Non-removable storage 110, and [0016], lines 1-3: At least two computing devices may be synchronized such that shared information stored on the computing devices is kept up-to-date; and [0018], last 7 lines: A synchronization program on each computing device stores the received GUID to manage the type of data to synchronize with the corresponding computing device. The GUIDs enable the computing devices to recognize each other as being associated with the same authorized user when the computing devices are subsequently coupled together**); and

a controller which switches the mobile terminal between an unlocked and a locked state based on an authentication input to the mobile terminal (**Chin, Fig. 1: Processing unit 102, and [Abstract]: password unlocked**);

wherein, when ~~predetermined~~ conditions are met, the controller controls the mobile terminal to transmit information to the another mobile terminal for switching a

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state of the another mobile terminal from a locked state to an unlocked state (**Chin, Fig.**

3: Step 350, Password unlock second computing device which is the another

mobile terminal) to the another mobile terminal; wherein the predetermined conditions

include:

first, a state of the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state (Chin, Fig 3 and [0031-0032]: both terminals are locked before Step 320); a

state of the another mobile terminal is a locked state; the another mobile terminal is in communication range of the short range wireless communications of the transceiver;

third, after the performing, receiving, by the controller, receives the authentication input for switching the mobile terminal from the locked state to the unlocked state (Chin,

Fig. 3: Step 320, Password unlock first computing device which is the mobile

terminal)."

Chin does not expressly disclose that second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, performs the short-range wireless communications with the another mobile terminal.

Griffin teaches that "second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver

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while in the locked state, performing, via the transceiver, performs the short-range wireless communications with the another mobile terminal (Griffin, [0040], lines 1-14: here the processor 37 generates a menu on the display 38 for enabling initiation of NFC device recognition and communications with the other NFC device 32 upon detection thereof from a "locked" device mode. That is, the menu 51 is generated from the locked mode, meaning that the keypad (whether touch screen or individual buttons) or other convenience keys are disabled by the processor 37. In some locked modes,...)." Further it is to noted that Chin discloses that the another mobile device is in locked state before being unlocked and when in a short-range communication range.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Griffin's teaching in the terminal of Chin in order to provide a low power operation when in peer-to-peer operation ([0043]) because the mobile device is still in locked state which consumes less power.

Regarding claims 8 and 15, the claims are interpreted and rejected for the same reason as set forth in claim 1 above.

2. Claims 4, 5, 12-14, and 16 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (US 20060224882) and **Griffin** (US 20120040611) in view of **Smith** (US 20130183936).

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Regarding claim 13, Chin and Griffin disclose the features of claim 1, but do not disclose that the operation includes a biometric authentication.

Smith teaches that “the operation includes a biometric authentication (**Smith, [0022], last 4 lines: the portable wireless device may also be used such as, for example and without limitation, biometric devices such as fingerprint readers or cameras; and [0052], lines 8-11: The data from the data store 115 may include, but is not limited to, one or more public and/or private keys that uniquely identify a user, one or more pieces of biometric data that uniquely identify a user.)**”

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Smith’s teaching in the terminal of Chin and Griffin in order to provide better personalized biometric data other than a password in uniquely identifying a user and hence a better security.

Regarding claim 4, Smith further teaches that “The mobile terminal according to claim 13, wherein: before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user (**Smith, [0018], last 8 lines: Information about which resources are being authenticated to can be presented to the user on the smart phone's screen, so that the user is aware of what resources are being accessed while the smart phone is connected to the computer. The user could also be given a choice about whether or not to accept such access.)**.”

Regarding claim 5, Chin further discloses that “A mobile terminal according to claim 13, wherein: the controller performs short-range wireless communications with the another mobile terminal by the transceiver and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the memory and is in communication range of the short-range wireless communications by the transceiver when the mobile terminal is in a locked state (**Chin, Abstract, lines 1-4: A password locked computing device may be unlocked by coupling the locked device to a password unlocked computing device that is associated with the same user as the locked device; and Fig. 3 and [0027]: Step 330, Couple first computing device to second computing device, wherein the another mobile terminal is in the range so that coupling can occur; and Fig. 3: Step 320, Password unlock first computing device which is the mobile terminal).**”

Regarding claim 12, the claim is interpreted and rejected for the same reason as set forth in claim 5 above.

Regarding claim 14, the claim is interpreted and rejected for the same reason as set forth in claim 13 above.

Regarding claim 16, the claim is interpreted and rejected for the same reason as set forth in claim 13 above.

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3. Claims 3 and 10 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (US 20060224882), **Griffin** (US 20120040611), and **Smith** (US 20130183936) in view of **Gerhardt** (US 20120280790).

Regarding claim 3, Chin, Griffin, and Smith teach the features of claim 13, but do not disclose that wherein the transceiver unit, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

Gerhardt teaches that "the communication unit, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications **(Gerhardt, Fig. 13 and [0080]: The proximate user may send a lock, unlock or status request command either directly to the now radio-enabled lock system (1300) directly,...)**." Further, the radio-enabled lock system may not be mobile, but **Gerhardt** teaches sending a signal, such as a command, to another device, such as another mobile device, to lock the device. It is this teaching that can be obviously combined with Chin, Griffin, and Smith based on the authentication input to the mobile terminal to result in the claimed subject matter.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Gerhardt's teaching in the mobile terminal of Chin, Griuffin, and Smith so that the another mobile terminal can be locked based on a

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user input, such as authentication input, in order to avoid accidentally putting the another mobile terminal in a locked state.

Regarding claim 10, the claim is interpreted and rejected for the same reason as set forth in claim 3 above.

4. Claims 17-19 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (US 20060224882) and **Griffin** (US 20120040611) in view of **Friedlaender** (US 20110195665).

Regarding claim 17, **Chin** and **Griffin** disclose the features of claim 1, but do not expressly disclose that the mobile terminal according to claim 1, further configure to store information about two or more another mobile terminals.

Friedlaender teaches that “the mobile terminal according to claim 1, further configure to store information about two or more another mobile terminals (**Friedlaender, [0045], lines 8-10: ... microcontroller which has memory to store the addresses/keys of the devices with which it has paired**).”

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Friedlaender’s teaching in the mobile terminal of Chin and Griffin so that the mobile terminal can lock or unlock another more mobile terminals when they are in a wireless communication area of the mobile terminal.

Regarding claims 18 and 19, the claims are interpreted and rejected for the same reason as set forth in claim 17 above.

5. Claims 20-25 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (US 20060224882) and **Griffin** (US 20120040611) in view of **Gerhardt** (US 20120280790).

Regarding claim 20, **Chin** and **Griffin** disclose the features of claim 1, but does not expressly disclose that wherein the short-range wireless communication is via a Bluetooth connection.

Gerhardt teaches that "wherein the short-range wireless communication is via a Bluetooth connection (**Gerhardt, [0131], lines 1-8: Bluetooth™ and Claim 5: Bluetooth ID**)."

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Gerhardt's teaching in the mobile terminal of Chin and Griffin so that the commonly used Bluetooth technology can be utilized for locking/unlocking paired devices.

Regarding claim 21, **Chin** discloses the features of claim 1, but does not expressly disclose that wherein the short-range wireless communication is via infrared or a Wi-Fi connection.

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Gerhardt teaches that "wherein the short-range wireless communication is via infrared or a Wi-Fi connection (**Gerhardt, [0131], lines 1-8: Wi-Fi™ and Claim 5: Wi-Fi ID).**"

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Gerhardt's teaching in the mobile terminal of Chin and Griffin so that the commonly used Wi-Fi technology can be utilized for locking/unlocking paired devices.

Regarding claims 22 and 24, the claims are interpreted and rejected for the same reason as set forth in claim 20 above.

Regarding claims 23 and 25, the claims are interpreted and rejected for the same reason as set forth in claim 21 above.

Conclusion

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

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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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 DONG-CHANG SHIUE whose telephone number is (313)446-6552. The examiner can normally be reached on Monday-Friday; 8 - 4:30 EST.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wesley Kim can be reached on 571-272-7867. 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

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/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

Notice of References Cited	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification	
*	A	US-2012/0040611 A1	02-2012	GRIFFIN; JASON TYLER	H04W52/0254	455/41.1
	B	US-				
	C	US-				
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)			
	U				
	V				
	W				
	X				

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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	21	@ad<"20120523" and (lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 20:34
L6	122	L5 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentikat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 20:34
L5	10191	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 20:34
L4	8467	(H04M1/66 H04B7/00 H04L9/32).opc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 20:34
L3	63	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 20:34
L2	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 20:34
L1	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 20:34
S730	7	S729 and (off lock\$3)	US-PGPUB;	OR	ON	2018/07/03

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			USPAT; USOCR			15:52
S729	10	("20120040611" "20120045989" "20130073448" "20130079026" "20130154926" "20130196594" "20130203347" "20130304635" "20140087660" "20150134513").PN. OR ("9998176").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2018/07/03 15:51
S728	2	"9998176".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 15:51
S727	3	"20160043775".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 15:32
S726	63	(maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3) and (@pd or @ad or @rlad or @prad)<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 15:17
S725	592	(maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 13:42
S724	9695	(maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 13:42
S723	4	(maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3) with (both second) with (user tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset equipment))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 13:39
S722	206	(maintain\$3 back\$ground) with (link communicat\$3 connect\$3 tether\$3) same (short\$1range blue\$1tooth nfc ("near"\$1field adj communicat\$3)) same (lock\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/07/03 13:37

S721	2	(short\$1range blue\$1tooth wi\$1fi) same (communicat\$3 coupl\$3 link) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 10:49
S720	0	(short\$1range blue\$1tooth wi\$1fi) same (maintain\$3) near3 (communicat\$3 coupl\$3 link) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 10:48
S719	2	(short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset)) with (screen display) near3 locked	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 10:26
S718	36	((locked)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 10:08
S717	4	((screen display) near5 (locked)) same (short\$1range blue\$1tooth wi\$1fi) same (connect\$3 communicat\$3 coupl\$3) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 10:06
S716	5	((screen display) near5 (locked)) same (short\$1range blue\$1tooth wi\$1fi) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 10:03
S715	5	((screen display) near5 (locked)) same (short1range bluetooth wi\$1fi) same (second) with (tablet phablet pda (cell mobile wireless handheld portable cellular) near2 (phone device station handset))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/05/18 10:02

EAST Search History (Interference)

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7 / 3 / 2018 8:35:40 PM**C:\Users\dshiu\Documents\EAST\Workspaces\13874535.wsp**

Index of Claims 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

✓	Rejected
=	Allowed


-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

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

CLAIM		DATE									
Final	Original	12/15/2014	02/04/2016	07/19/2016	12/11/2016	04/20/2017	12/05/2017	04/23/2018	07/03/2018		
	1	✓	✓	✓	✓	✓	✓	✓	✓		
	2	✓	-	-	-	-	-	-	-		
	3	✓	✓	✓	✓	✓	✓	✓	✓		
	4	✓	✓	✓	✓	✓	✓	✓	✓		
	5	✓	✓	✓	✓	✓	✓	✓	✓		
	6	✓	-	-	-	-	-	-	-		
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	8	✓	✓	✓	✓	✓	✓	✓	✓		
	9	✓	-	-	-	-	-	-	-		
	10	✓	✓	✓	✓	✓	✓	✓	✓		
	11	✓	-	-	-	-	-	-	-		
	12		✓	✓	✓	✓	✓	✓	✓		
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	14				✓	✓	✓	✓	✓		
	15				✓	✓	✓	✓	✓		
	16				✓	✓	✓	✓	✓		
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	24							✓	✓		
	25							✓	✓		

Search Notes 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

CPC- SEARCHED		
Symbol	Date	Examiner
H04W12/06	12/15/2014	DS
H04L63/0492	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS
Updated search	12/5/2017	ds
H04M1/66 H04B7/00 H04L9/32 H04W12/00 H04W12/\$	4/23/2018	ds
Updated search	7/3/2018	ds

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	26.1, 41.2	12/15/2014	DS

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES		
Search Notes	Date	Examiner
EAST (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	12/15/2014	DS
Inventor/Assignee search in EAST and eDAN	12/15/2014	DS
Consulted with Lewis West	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS

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SEARCH NOTES

Search Notes	Date	Examiner
Updated search	12/5/2017	ds
Updated search	4/23/2018	ds
Consulted with Wesley Kim on 102 on 4/23/2018		
Updated search	7/3/2018	ds

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/874,535 05/01/2013 Masayuki HIRABAYASHI 072388.0418 9744

21003 7590 06/04/2018
BAKER BOTTS L.L.P.
30 ROCKEFELLER PLAZA
44TH FLOOR
NEW YORK, NY 10112-4498

EXAMINER

SHIUE, DONG-CHANG

ART UNIT PAPER NUMBER

2648

NOTIFICATION DATE DELIVERY MODE

06/04/2018

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.

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Applicant-Initiated Interview Summary	Application No. 13/874,535	Applicant(s) HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	

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

(1) DONG-CHANG SHIUE. (3)_____.

(2) Jonathan Cocks. (4)_____.

Date of Interview: 21 May 2018.

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: Chin (US 20060224882).

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...)

Applicant's representative explained that claim 1 was amended to include an order of operations. Examiner indicated the amendment seemed to overcome the current rejection and further consideration and/or search would be required upon receiving the official amendment. No other 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.

Attachment

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

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 attention 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 time 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.

REVISED PROPOSED AMENDMENTS TO THE CLAIMS FOR DISCUSSION

PURPOSES

The following claims are to be presented for discussion purposes during an Examiner Interview, and therefore, are not intended to be entered into the record.

1. (Currently Amended) A mobile terminal configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

a transceiver which performs short-range wireless communications;

a memory which previously stores information about another mobile terminal; and

a controller which switches the mobile terminal between an unlocked and a locked state based on an authentication input to the mobile terminal;

wherein, when ~~predetermined~~ conditions are met, the controller controls the mobile terminal to transmit information to the another mobile terminal for switching a state of the another mobile terminal from a locked state to an unlocked state ~~to the another mobile terminal;~~ wherein the ~~predetermined~~ conditions include:

first, a state of the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state;

~~a state of the another mobile terminal is a locked state;~~

~~the another mobile terminal is in communication range of the short range wireless communications of the transceiver;~~

second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the

transceiver, ~~performs~~ the short-range wireless communications with the another mobile terminal;
and

third, after the performing, receiving, by the controller, ~~receives~~ the authentication input for switching the mobile terminal from the locked state to the unlocked state.

2. (Cancelled)

3. (Currently Amended) The mobile terminal according to claim 13, wherein[[:]] the transceiver, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

4. (Currently Amended) The mobile terminal according to claim 13, wherein[[:]] before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user.

5. (Currently Amended) The mobile terminal according to claim 13, wherein[[:]] the controller performs short-range wireless communications with the another mobile terminal by the transceiver and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the memory and is in communication range of the short-range wireless communications by the transceiver when the mobile terminal is in a locked state

6. (Cancelled)

7. (Cancelled)

8. (Currently Amended) A method for controlling a mobile terminal to transit between an unlocked and a locked state in which a predetermined operation is limited, comprising the steps of:

performing short-range wireless communications;

storing information about another mobile terminal in a memory; and

transmitting information from the mobile terminal to the another mobile terminal which is for switching a state of the another terminal from a locked state to an unlocked state when ~~predetermined~~ conditions are met, wherein the ~~predetermined~~ conditions include:

first, a state of the mobile terminal is in a locked state; a state of the another mobile terminal is in a locked state; and the another mobile terminal is in communication range of the short-range wireless communications;

second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications, performing, via the mobile terminal, performs the short-range wireless communication with the another mobile terminal; and

third, after the performing, receiving the mobile terminal receives the authentication input by the mobile terminal for switching the mobile terminal from the locked state to the unlocked state.

9. (Cancelled)

10. (Currently Amended) The method according to claim 14, further comprising:
~~based on the operation,~~ transmitting, based on the operation, a signal[[,]] to the another mobile terminal,~~a signal~~ to transit the another mobile terminal to a locked state by performing the short-range wireless communications.
11. (Cancelled)
12. (Previously Presented) The method according to claim 14, further comprising:
performing short-range wireless communications with the another mobile terminal and setting the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the memory and is in communication range of the short-range wireless communications when the mobile terminal is in a locked state.
13. (Currently Amended) The mobile terminal according to claim 1, wherein[[:]] the operation includes a biometrics authentication.
14. (Currently Amended) The method according to claim 8, wherein[[:]] the operation includes a biometrics authentication.
15. (Currently Amended) A lock state control system comprising: ~~which comprises~~
a first mobile terminal and a second mobile terminal which are configured to switch between an unlocked and a locked state in which a predetermined operation is limited;
wherein the first mobile terminal comprises a transceiver which performs short-range wireless communications, a memory which previously stores information about the second mobile

terminal, and a controller which switches the first mobile terminal between an unlocked and a locked state based on an authentication input to the first mobile terminal from a user; [[and]]

wherein, when ~~predetermined~~ conditions are met, the controller controls the first mobile terminal to transmit information to the second mobile terminal for switching a state of the second mobile terminal from a locked state to an unlocked state ~~to the second mobile terminal~~, wherein the ~~predetermined~~ conditions include:

first, a state of the first mobile terminal is in a locked state,[[;]] ~~a state of the second mobile terminal is in a locked state,[[;]] and the second mobile terminal is in communication range of the short-range wireless communications of the first mobile terminal;~~

second, after the mobile terminal is in the locked state, the second mobile terminal is in the locked state, and the second mobile terminal is in communication range of the short-range wireless communications of the first mobile terminal, performing, via the first mobile terminal, ~~performs~~ the short-range wireless communications with the second mobile terminal; and

third, after the performing, receiving, via the first mobile terminal, ~~receives~~ the authentication input for switching a state of the first mobile terminal from a locked state to an unlocked state.

16. (Currently Amended) The lock state control system according to claim 15, wherein[[;]] the operation includes a biometrics authentication.

17. (Previously Presented) The mobile terminal according to claim 1, further configured to store information about two or more another mobile terminals.

18. (Previously Presented) The method according to claim 8, the method further comprising the step of storing information about two or more another mobile terminals.

19. (Previously Presented) The lock state control system according to claim 15, further comprising two or more another mobile terminals.

20. (Previously Presented) The mobile terminal according to claim 1, wherein the short-range wireless communication is via a Bluetooth connection.

21. (Previously Presented) The mobile terminal according to claim 1, wherein the short-range wireless communication is via infrared or a Wi-Fi connection.

22. (Previously Presented) The method according to claim 8, wherein the short-range wireless communication is performed via a Bluetooth connection.

23. (Previously Presented) The method according to claim 8, wherein the short-range wireless communication is performed via infrared or a Wi-Fi connection.

24. (Previously Presented) The lock state control system according to claim 15, wherein the short-range wireless communications are performed via a Bluetooth connection.

25. (Previously Presented) The lock state control system according to claim 15, wherein the short-range wireless communications are performed via infrared or a Wi-Fi connection.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hirabayashi, *et al.* Examiner: Shiue, Dong-Chang
Serial No.: 13/874,535 Confirmation No.: 9744
Filed: May 1, 2013 Art Unit: 2648
Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF

AMENDMENT

FILED ELECTRONICALLY

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

Sir:

In response to the Non-Final Office Action dated April 27, 2018, for which a shortened statutory period of three months, ending July 27, 2018, was set in which to respond, the following remarks are submitted and reconsideration of the claim rejections is respectfully requested.

AMENDMENTS TO THE CLAIMS begin on page 2 of this document.

REMARKS begin on page 9 of this document.

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A mobile terminal configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

a transceiver which performs short-range wireless communications;

a memory which previously stores information about an another mobile terminal; and

a controller which switches the mobile terminal between an unlocked and a locked state based on an authentication input to the mobile terminal;

wherein, when ~~predetermined~~ conditions are met, the controller controls the mobile terminal to transmit information to the another mobile terminal for switching a state of the another mobile terminal from a locked state to an unlocked state ~~to the another mobile terminal;~~ wherein the ~~predetermined~~ conditions include:

first, a state of the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state;

~~a state of the another mobile terminal is a locked state;~~

~~the another mobile terminal is in communication range of the short range wireless communications of the transceiver;~~

second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, ~~performs~~ the short-range wireless communications with the another mobile

terminal; and

third, after the performing, receiving, by the controller, ~~receives~~ the authentication input for switching the mobile terminal from the locked state to the unlocked state.

2. (Cancelled)

3. (Currently Amended) The mobile terminal according to claim 13, wherein[[:]] the transceiver, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

4. (Currently Amended) The mobile terminal according to claim 13, wherein[[:]] before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user.

5. (Currently Amended) The mobile terminal according to claim 13, wherein[[:]] the controller performs short-range wireless communications with the another mobile terminal by the transceiver and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the memory and is in communication range of the short-range wireless communications by the transceiver when the mobile terminal is in a locked state

6. (Cancelled)

7. (Cancelled)

8. (Currently Amended) A method for controlling a mobile terminal to transit between an unlocked and a locked state in which a predetermined operation is limited, comprising the steps of:

performing short-range wireless communications;

storing information about an another mobile terminal in a memory; and

transmitting information from the mobile terminal to the another mobile terminal which is for switching a state of the another terminal from a locked state to an unlocked state when ~~predetermined~~ conditions are met, wherein the ~~predetermined~~ conditions include:

first, a state of the mobile terminal is in a locked state; a state of the another mobile terminal is in a locked state; and the another mobile terminal is in communication range of the short-range wireless communications;

second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications, performing, via the mobile terminal, performs the short-range wireless communication with the another mobile terminal; and

third, after the performing, receiving the mobile terminal receives the authentication input by the mobile terminal for switching the mobile terminal from the locked state to the unlocked state.

9. (Cancelled)

10. (Currently Amended) The method according to claim 14, further comprising:

~~based on the operation,~~ transmitting, based on the operation, a signal~~[[,]]~~ to the another mobile terminal, ~~a signal~~ to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

11. (Cancelled)

12. (Previously Presented) The method according to claim 14, further comprising:

performing short-range wireless communications with the another mobile terminal and setting the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the memory and is in communication range of the short-range wireless communications when the mobile terminal is in a locked state.

13. (Currently Amended) The mobile terminal according to claim 1, wherein~~[[:]]~~ the operation includes a biometrics authentication.

14. (Currently Amended) The method according to claim 8, wherein~~[[:]]~~ the operation includes a biometrics authentication.

15. (Currently Amended) A lock state control system comprising: ~~which comprises~~

a first mobile terminal and a second mobile terminal which are configured to switch between an unlocked and a locked state in which a predetermined operation is limited;

wherein the first mobile terminal comprises a transceiver which performs short-range wireless communications, a memory which previously stores information about the second mobile terminal, and a controller which switches the first mobile terminal between an unlocked

and a locked state based on an authentication input to the first mobile terminal from a user;
[[and]]

wherein, when ~~predetermined~~ conditions are met, the controller controls the first mobile terminal to transmit information to the second mobile terminal for switching a state of the second mobile terminal from a locked state to an unlocked state ~~to the second mobile terminal~~, wherein the ~~predetermined~~ conditions include:

first, a state of the first mobile terminal is in a locked state,[[;]] ~~a state of the second mobile terminal is in a locked state,[[;]] and the second mobile terminal is in communication range of the short-range wireless communications of the first mobile terminal;~~

second, after the mobile terminal is in the locked state, the second mobile terminal is in the locked state, and the second mobile terminal is in communication range of the short-range wireless communications of the first mobile terminal, performing, via the first mobile terminal, ~~performs~~ the short-range wireless communications with the second mobile terminal;
and

third, after the performing, receiving, via the first mobile terminal, ~~receives~~ the authentication input for switching a state of the first mobile terminal from a locked state to an unlocked state.

16. (Currently Amended) The lock state control system according to claim 15, wherein[[;]] the operation includes a biometrics authentication.

17. (Previously Presented) The mobile terminal according to claim 1, further configured to store information about two or more another mobile terminals.

18. (Previously Presented) The method according to claim 8, the method further comprising the step of storing information about two or more another mobile terminals.
19. (Previously Presented) The lock state control system according to claim 15, further comprising two or more another mobile terminals.
20. (Previously Presented) The mobile terminal according to claim 1, wherein the short-range wireless communication is via a Bluetooth connection.
21. (Previously Presented) The mobile terminal according to claim 1, wherein the short-range wireless communication is via infrared or a Wi-Fi connection.
22. (Previously Presented) The method according to claim 8, wherein the short-range wireless communication is performed via a Bluetooth connection.
23. (Previously Presented) The method according to claim 8, wherein the short-range wireless communication is performed via infrared or a Wi-Fi connection.
24. (Previously Presented) The lock state control system according to claim 15, wherein the short-range wireless communications are performed via a Bluetooth connection.

25. (Previously Presented) The lock state control system according to claim 15, wherein the short-range wireless communications are performed via infrared or a Wi-Fi connection.

REMARKS

Claims 1, 3-5, 8, 10, and 12-25 are pending in this application; claims 1, 3-5, 8, 10, and 13-16 are amended; and claims 2, 6, 7, 9, and 11 are canceled. Support for the amendments may be found throughout the specification, for example in paragraphs [0022]-[0031] of the published application, the corresponding figures, and the originally-filed claims. Thus, Applicant respectfully submits that no new matter is being added by the Amendments to the Claims.

Rejection of Claims under 35 U.S.C. § 102(b)

Claims 1, 8, and 15 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Chin (US 2006/0224882). Applicant respectfully traverses the rejection.

Independent claim 1 is hereby amended to recite the feature, "... wherein the conditions include: first, the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state; second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and third, after the performing, receiving, by the controller, the authentication input for switching the mobile terminal from the locked state to the unlocked state..." Independent claims 8 and 15 are also hereby amended to recite similar features. No such configuration is taught or suggested by Chin.

Specifically, these amendments to claims 1, 8, and 15 clearly identify a condition relating to when the controller transmits information to the another mobile terminal. That is, the mobile

terminal communicates (transmits and receives information) with the another mobile terminal **before** the status of the another mobile terminal changes from “lock” to “unlock” by receiving information from the mobile terminal. Further, the amendments to claims 1, 8, and 15 specify the particular order of processing, which is not taught or suggested by Chin.

Chin discloses a method for unlocking a device in which the user first enters a password into a first computing device. *See* Chin [0026]. Specifically, Chin discloses unlocking the “locked” status of a PC (the another terminal) when combining a PDA with the PC. Subsequently, the user couples the first computing device to a second computing device. *See* Chin [0027] and step 330 of Fig. 3. In Chin, the subsequent act of coupling the first computing device (which has already been unlocked) to the second computing device results in the unlocking of the second computing device. *See* Chin [0014] (“A password locked computing device may be unlocked by coupling the locked device to a password unlocked computing device”). However, the locked device (PDA) of Chin **cannot** communicate (transmit and receive information) with the unlocked computing device (PC) because communication between the PDA and the PC is **NOT** established **before** the combining, as required by the present disclosure. As such, Chin fails to teach or suggest, “... wherein the conditions include: first, the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state; second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and third, after the performing, receiving, by the controller, the

authentication input for switching the mobile terminal from the locked state to the unlocked state...” as recited in claims 1, 8, and 15.

Moreover, the present disclosure teaches that the state of both devices (the mobile terminal and the another mobile terminal) are altered (changed from a locked state to an unlocked state) only once the two devices are in range of each other. On the other hand, Chin only teaches altering the state of the second device once the second device is within range of the first device. The first device of Chin is already unlocked before being coupled with the second device, as shown in Chin Figure 3. Additionally, in Figure 3 of Chin, at 310, Chin states “associate computing devices with password.” “Associate” can not and does not mean “couple.” As taught by Chin, “associate” means “recognizable,” (*See*, Chin at [0020] and [0030]) and not “paired,” “connected,” or “coupled.”

Furthermore, Chin fails to teach or suggest changing the status of the another mobile terminal by the mobile terminal when the another mobile terminal is in a wireless communication area of the mobile terminal. Specifically, claims 1, 8, and 15 include, “the mobile terminal is in a locked state” and “the another mobile terminal is in a locked state” as conditions for when the controller is to transmit information to the another mobile terminal. That is, a status of the another mobile terminal is “lock” when the mobile terminal transmits information to the another mobile terminal. Chin fails to disclose such limitations. Chin requires that a status of the PDA is “unlock” when combining the PDA with the PC in order to unlock a status of the PC. In other words, there is absolutely no disclosure by Chin that any status of the another mobile terminal is changed by the mobile terminal when the another mobile terminal is in a wireless communication area of the mobile terminal.

Furthermore, another feature of the present disclosure is that the mobile terminal

transmits information for changing a status from Lock to Unlock to the another mobile terminal once specified conditions are met in the order specified. In other words, the meeting of specified conditions is a trigger for the transmission of information. This is clear from the amended claim language shown in claims 1, 8, and 15. Chin fails to disclose any such conditions.

As such, Applicant submits claims 1, 8, 15, and the claims dependent thereon are allowable over Chin for at least these reasons.

Accordingly, Applicant submits that this rejection of claims 1, 8, and 15 under 35 U.S.C. § 102(b) should be withdrawn.

Rejection of Claims under 35 U.S.C. § 103(a)

Claims 4, 5, 12-14, and 16 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Chin in view of Smith (US 2013/0183936).

Claims 3 and 10 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Chin and Smith and in view of Gerhardt (US 2012/0280790).

Claims 17-19 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Chin in view of Friedlaender (US 2011/0195665).

Claims 20-25 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Chin in view of Gerhardt.

Applicant respectfully traverses the rejection(s).

Independent claim 1 recites, “A mobile terminal configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising: a transceiver which performs short-range wireless communications; a memory which previously stores information about an another mobile terminal; and a controller which switches the mobile

terminal between an unlocked and a locked state based on an authentication input to the mobile terminal; wherein, when conditions are met, the controller controls the mobile terminal to transmit information to the another mobile terminal for switching a state of the another mobile terminal from a locked state to an unlocked state, wherein the conditions include: first, the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state; second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and third, after the performing, receiving, by the controller, the authentication input for switching the mobile terminal from the locked state to the unlocked state.” Each of independent claims 8 and 15 recite similar features.

The deficiencies of Chin have been discussed above. Smith, Gerhardt, and Friedlaender each fail to remedy the deficiencies of Chin. Specifically, none of Smith, Gerhardt, or Friedlaender teach or suggest the feature, “... wherein the conditions include: first, the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state; second, after the mobile terminal is in the locked state, the another mobile terminal is in the locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state, performing, via the transceiver, the short-range wireless communications with the another mobile terminal; and third, after the performing, receiving, by the controller, the

authentication input for switching the mobile terminal from the locked state to the unlocked state...” as recited in each of claims 1, 8, 15, and the claims dependent thereon.

Accordingly, Chin, Smith, Gerhardt, and Friedlaender, taken alone or in combination, fail to teach or suggest each and every limitation of claims 1, 8, 15, and the claims dependent thereon. Thus, claims 1, 8, 15, and the claims dependent thereon are each allowable over the cited prior art.

Accordingly, Applicant submits that this rejection of the claims under 35 U.S.C. § 103(a) should be withdrawn.

Formal Request for Interview

Applicant submits that this application is in condition for allowance for at least the reasons set forth herein. If this application is not considered to be in condition for allowance by the Examiner, Applicant requests an interview with the Examiner to discuss the present application. Applicant’s attorney, Jonathan D. Cocks, may be reached at telephone number 212-408-2561 to schedule a mutually convenient date and time and to provide assistance or additional information as required.

CONCLUSION

On the basis of the foregoing remarks, Applicant respectfully submits that the pending claims of the present application are allowable over the prior art of record. Applicant thus respectfully requests the previous rejections be withdrawn, and that the pending claims be allowed by the Examiner. Favorable consideration and timely allowance of this application are respectfully requested.

This Amendment is being made solely to expedite prosecution of the present application and does not constitute an acquiescence to any prior art, objections, or rejections identified by the Examiner. Applicant's silence with regard to the Examiner's rejections of the dependent claims constitutes a recognition by Applicant that the rejections are moot based on Applicant's Amendment and/or Remarks regarding the independent claim from which the dependent claims depend.

Applicant authorizes the Commissioner to charge any additional fees and/or credit any overpayments associated with this paper to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418. Further, if a fee is required for an extension of time under 37 C.F.R. § 1.136 not provided for above, Applicant requests such extension and authorizes the charging of the extension fee to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418.

Respectfully submitted,

BAKER BOTTS L.L.P.

Dated: May 31, 2018

By: /Jonathan D. Cocks/
Jonathan D. Cocks
Registration No. 75,646
Attorney for Applicant
Baker Botts L.L.P.
30 Rockefeller Plaza, Floor 45
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(212) 408-2561 (telephone)

Electronic Acknowledgement Receipt

EFS ID:	32768069
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Jonathan Drew Cocks/Danielle Rey
Filer Authorized By:	Jonathan Drew Cocks
Attorney Docket Number:	072388.0418
Receipt Date:	31-MAY-2018
Filing Date:	01-MAY-2013
Time Stamp:	12:48:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		NFOA_Response_asfiled.pdf	74468 <small>4b297a2f7a07ccf7ab26f1e78f1fc99c82bfa4c4</small>	yes	15

Multipart Description/PDF files in .zip description			
Document Description		Start	End
Amendment/Req. Reconsideration-After Non-Final Reject		1	1
Claims		2	8
Applicant Arguments/Remarks Made in an Amendment		9	15

Warnings:

Information:

Total Files Size (in bytes):	74468
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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.



UNITED STATES PATENT AND TRADEMARK OFFICE

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

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO. Includes details for application 13/874,535 and 21003 7590, listing inventor Masayuki HIRABAYASHI and attorney BAKER BOTTS L.L.P.

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):

DLNYDOCKET@BAKERBOTTSCOM

Applicant-Initiated Interview Summary	Application No. 13/874,535	Applicant(s) HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	

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

- (1) DONG-CHANG SHIUE. (3) ____.
- (2) Jonathan D. Cocks. (4) ____.

Date of Interview: 18 May 2018.

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: Chin (US 20060224882).

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...)

Applicant's representative explained the difference between proposed amendment and Fig. 3 of the primary reference Chin. Examiner indicated that Chin still reads on the amended claim and the proposed amendment did not specify the conditions and/or functions in an order of operations to overcome the current rejection. Examiner indicated that further consideration and search would be required upon receiving the official amendment. No other 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.

Attachment

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

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 attention 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 time 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.

PROPOSED AMENDMENTS TO THE CLAIMS FOR DISCUSSION PURPOSES

The following claims are to be presented for discussion purposes during an Examiner Interview, and therefore, are not intended to be entered into the record.

1. (Currently Amended) A mobile terminal configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

a transceiver which performs short-range wireless communications;

a memory which previously stores information about another mobile terminal; and

a controller which switches the mobile terminal between an unlocked and a locked state based on an authentication input to the mobile terminal;

wherein, when ~~predetermined~~ conditions are met, the controller controls the mobile terminal to transmit information to the another mobile terminal for switching a state of the another mobile terminal from a locked state to an unlocked state ~~to the another mobile terminal;~~, wherein the ~~predetermined~~ conditions include:

first, a state of the mobile terminal is in a locked state, the another mobile terminal is in a locked state, and the another mobile terminal is within communication range of the short-range wireless communications of the transceiver while in the locked state;

~~a state of the another mobile terminal is a locked state;~~

~~the another mobile terminal is in communication range of the short range wireless communications of the transeeiver;~~

second, performing, via the transceiver, performs the short-range wireless communications with the another mobile terminal; and

third, receiving, by the controller, receives the authentication input for switching the mobile terminal from the locked state to the unlocked state.

2. (Cancelled)

3. (Currently Amended) The mobile terminal according to claim 13, wherein the transceiver, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

4. (Currently Amended) The mobile terminal according to claim 13, wherein before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user.

5. (Currently Amended) The mobile terminal according to claim 13, wherein the controller performs short-range wireless communications with the another mobile terminal by the transceiver and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the memory and is in communication range of the short-range wireless communications by the transceiver when the mobile terminal is in a locked state

6. (Cancelled)

7. (Cancelled)

8. (Currently Amended) A method for controlling a mobile terminal to transit between an unlocked and a locked state in which a predetermined operation is limited, comprising the steps of:

performing short-range wireless communications;

storing information about another mobile terminal in a memory; and

transmitting information from the mobile terminal to the another mobile terminal which is for switching a state of the another terminal from a locked state to an unlocked state when ~~predetermined~~ conditions are met, wherein the ~~predetermined~~ conditions include:

first, a state of the mobile terminal is in a locked state; a state of the another mobile terminal is in a locked state; and the another mobile terminal is in communication range of the short-range wireless communications;

second, performing, via the mobile terminal, performs the short-range wireless communication with the another mobile terminal; and

third, receiving the mobile terminal receives the authentication input by the mobile terminal for switching the mobile terminal from the locked state to the unlocked state.

9. (Cancelled)

10. (Currently Amended) The method according to claim 14, further comprising:

~~based on the operation,~~ transmitting, based on the operation, a signal[[,]] to the another mobile terminal, ~~a signal~~ to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

11. (Cancelled)

12. (Previously Presented) The method according to claim 14, further comprising:
performing short-range wireless communications with the another mobile terminal and
setting the mobile terminal to be in an unlocked state when the another mobile terminal is stored
in the memory and is in communication range of the short-range wireless communications when
the mobile terminal is in a locked state.

13. (Currently Amended) The mobile terminal according to claim 1, wherein[[:]] the operation
includes a biometrics authentication.

14. (Currently Amended) The method according to claim 8, wherein[[:]] the operation includes
a biometrics authentication.

15. (Currently Amended) A lock state control system comprising: ~~which comprises~~
a first mobile terminal and a second mobile terminal which are configured to switch
between an unlocked and a locked state in which a predetermined operation is limited;
wherein the first mobile terminal comprises a transceiver which performs short-range
wireless communications, a memory which previously stores information about the second mobile
terminal, and a controller which switches the first mobile terminal between an unlocked and a
locked state based on an authentication input to the first mobile terminal from a user; [[and]]
wherein, when ~~predetermined~~ conditions are met, the controller controls the first mobile
terminal to transmit information to the second mobile terminal for switching a state of the second

mobile terminal from a locked state to an unlocked state ~~to the second mobile terminal~~, wherein the ~~predetermined~~ conditions include:

first, a state of the first mobile terminal is in a locked state,~~[[;]] a state~~ of the second mobile terminal is in a locked state,~~[[;]] and~~ the second mobile terminal is in communication range of the short-range wireless communications of the first mobile terminal;

second, performing, via the first mobile terminal, ~~performs~~ the short-range wireless communications with the second mobile terminal; and

third, receiving, via the first mobile terminal, ~~receives~~ the authentication input for switching a state of the first mobile terminal from a locked state to an unlocked state.

16. (Currently Amended) The lock state control system according to claim 15, wherein~~[[;]]~~ the operation includes a biometrics authentication.

17. (Previously Presented) The mobile terminal according to claim 1, further configured to store information about two or more another mobile terminals.

18. (Previously Presented) The method according to claim 8, the method further comprising the step of storing information about two or more another mobile terminals.

19. (Previously Presented) The lock state control system according to claim 15, further comprising two or more another mobile terminals.

20. (Previously Presented) The mobile terminal according to claim 1, wherein the short-range wireless communication is via a Bluetooth connection.

21. (Previously Presented) The mobile terminal according to claim 1, wherein the short-range wireless communication is via infrared or a Wi-Fi connection.

22. (Previously Presented) The method according to claim 8, wherein the short-range wireless communication is performed via a Bluetooth connection.

23. (Previously Presented) The method according to claim 8, wherein the short-range wireless communication is performed via infrared or a Wi-Fi connection.

24. (Previously Presented) The lock state control system according to claim 15, wherein the short-range wireless communications are performed via a Bluetooth connection.

25. (Previously Presented) The lock state control system according to claim 15, wherein the short-range wireless communications are performed via infrared or a Wi-Fi connection.

Applicant Initiated Interview Request Form

Application No.: 13/874,535 First Named Applicant: Masayuki HIRABAYASHI
 Examiner: Dong-Chang Shiue Art Unit: 2648 Status of Application: Rejection

Tentative Participants:

(1) Dong-Chang Shiue (2) Jonathan D. Cocks
 (3) _____ (4) _____

Proposed Date of Interview: Friday, May 18, 2018 Proposed Time: 9:30 Eastern (☉AM☉PM)

Type of Interview Requested:

(1) Telephonic (2) Personal (3) Video Conference

Exhibit To Be Shown or Demonstrated: YES NO

If yes, provide brief description: _____

Issues To Be Discussed

Issues (Rej., Obj., etc)	Claims/ Fig. #s	Prior Art	Discussed	Agreed	Not Agreed
(1) <u>Rej. 102</u>	<u>1, 8, 15</u>	<u>Chin</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) <u>Rej. 103</u>	<u>4, 5, 12-14, 16</u>	<u>Chin, Smith</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3) <u>Rej. 103</u>	<u>3, 10</u>	<u>Chin, Smith, Gerhardt</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4) <u>Rej. 103</u>	<u>17-19/20-25</u>	<u>Chin, Friedlaender/Chin, Gerhardt</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Continuation Sheet Attached Proposed Amendment or Arguments Attached

Brief Description of Arguments to be Presented: Applicant seeks to discuss the current Office action (dated 4/27/18) and provides proposed amendments to facilitate discussion.

An interview was conducted on the above-identified application on _____

NOTE: This form should be completed and filed by applicant in advance of the interview (see MPEP § 713.01). If this form is signed by a registered practitioner not of record, the Office will accept this as an indication that he or she is authorized to conduct an interview on behalf of the principal (37 CFR 1.32(a)(3)) pursuant to 37 CFR 1.34. This is not a power of attorney to any above named practitioner. See the Instruction Sheet for this form, which is incorporated by reference. By signing this form, applicant or practitioner is certifying that he or she has read the Instruction Sheet. After the interview is conducted, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible. This application will not be delayed from issue because of applicant's failure to submit a written record of this interview.

/Jonathan D. Cocks/
 Applicant/Applicant's Representative Signature

Jonathan D. Cocks
 Typed/Printed Name of Applicant or Representative

75,646
 Registration Number, if applicable

 Examiner/SPE Signature

 Applicant's/Applicant's Representative's Telephone Number

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 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 24 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.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 3.

Instruction Sheet for:
APPLICANT INITIATED INTERVIEW REQUEST FORM
(Not to be Submitted to the USPTO)

1. If this form is signed by a registered practitioner not of record, the authority to submit the Applicant Initiated Interview Request Form is pursuant to limited authority to act in a representative capacity under 37 CFR 1.34 and further proof of authority to act in a representative capacity may be required. See 37 CFR 1.34.

The Office will accept the signed form as an indication that the registered practitioner not of record is authorized to conduct an interview on behalf of the principal in pursuant to 37 CFR 1.34.

For more information, see the "Conducting an Interview with a Registered Practitioner Acting in a Representative Capacity" notice which is available on the USPTO Web site at: <http://www.uspto.gov/patents/law/notices/2010.jsp>.

2. This is not a power of attorney to any named practitioner. Accordingly, any registered practitioner not of record named on the form does not have authority to sign a request to change the correspondence address, a request for express abandonment, a disclaimer, a power of attorney, or other document requiring the signature of the applicant, assignee of the entire interest or an attorney of record. If appropriate, a separate power of attorney to the named practitioner should be executed and filed in the US Patent and Trademark Office.
3. Any interview concerning an unpublished application under 35 U.S.C. § 122(b) with a registered practitioner not of record who obtains authorization through use of the PTOL-413A will be conducted based on the information and files supplied by the practitioner in view of the confidentiality requirements of 35 U.S.C. § 122(a).

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : HIRABAYASHI et al. Examiner : Dong-Chang SHIUE
Serial No. : 13/874,535 Confirmation No. : 9744
Filed : 5/1/2013 Group Art Unit : 2648
For : MOBILE TERMINAL AND CONTROL METHOD THEREOF

APPLICANT INITIATED INTERVIEW SUMMARY

FILED ELECTRONICALLY

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

On April 23, 2018, Applicants' Representative, Jonathan Cocks, discussed the application with Examiner Shiue and Supervisor Kim by telephone. The parties discussed the Final Office Action dated December 13, 2017 as well as Applicants' recently filed Response thereto, filed March 29, 2018. The parties discussed the amendments included in the Response filed March 29, 2018 as well as the prior art, including the Chin reference (US 20060224882). No agreement on patentability was reached. Applicants would like to thank both of the Examiners for their time.

Respectfully submitted,

BAKER BOTTS L.L.P.

May 21, 2018

Date

/Jonathan D. Cocks/

Jonathan D. Cocks
Patent Office Reg. No. 75,646

Robert L. Maier
Patent Office Reg. No. 54,291

Attorney(s) for Applicant
Baker Botts, LLP
30 Rockefeller Plaza
New York, NY 10112-4498
212-408-2500

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : HIRABAYASHI et al. Examiner : Dong-Chang SHIUE
Serial No. : 13/874,535 Confirmation No. : 9744
Filed : 5/1/2013 Group Art Unit : 2648
For : MOBILE TERMINAL AND CONTROL METHOD THEREOF

APPLICANT INITIATED INTERVIEW SUMMARY

FILED ELECTRONICALLY

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

On May 18, 2018, Applicants' Representative, Jonathan Cocks, discussed the application with Examiner Shiue by telephone. The parties discussed the Non-Final Office Action dated April 27, 2018, the prior art – including the Chin reference (US 20060224882), and proposed amendments to the claims. The Examiner agreed that claim amendments which explicitly recite an order of processing would overcome the current rejection, but that additional searching would be required. No agreement on patentability was reached. Applicants would like to thank the Examiner for his time.

Respectfully submitted,

BAKER BOTTS L.L.P.

May 21, 2018

Date

/Jonathan D. Cocks/

Jonathan D. Cocks
Patent Office Reg. No. 75,646

Robert L. Maier
Patent Office Reg. No. 54,291

Attorney(s) for Applicant
Baker Botts, LLP
30 Rockefeller Plaza
New York, NY 10112-4498
212-408-2500

Electronic Acknowledgement Receipt

EFS ID:	32679446
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Jonathan Drew Cocks/Danielle Rey
Filer Authorized By:	Jonathan Drew Cocks
Attorney Docket Number:	072388.0418
Receipt Date:	21-MAY-2018
Filing Date:	01-MAY-2013
Time Stamp:	15:44:37
Application Type:	Utility under 35 USC 111(a)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Applicant summary of interview with examiner	Interview_Summary_Intv_date_04232018.pdf	129935 <small>3730554ed34dc7a82b7747938fab6360d07b9597</small>	no	1

Warnings:

IPR2020-00202

Information:					
2	Applicant summary of interview with examiner	Interview_Summary_Intv_date_05182018.pdf	130797	no	1
			e126249f1cc6819d959283177d482afd9a73890e		
Warnings:					
Information:					
Total Files Size (in bytes):				260732	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



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Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO., EXAMINER, ART UNIT, PAPER NUMBER, NOTIFICATION DATE, DELIVERY MODE. Includes application details for Masayuki HIRABAYASHI and examiner SHIUE, DONG-CHANG.

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):

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Applicant-Initiated Interview Summary	Application No. 13/874,535	Applicant(s) HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	

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

- (1) DONG-CHANG SHIUE. (3) Jonathan D. Cocks.
(2) Wesley Kim. (4) _____.

Date of Interview: 23 April 2018.

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: Chin (US 20060224882).

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...)

The applicant's representative went over the invention and described the elements that would distinguish this invention from others. The predetermined conditions recited in amended claim 1 were particularly described and discussed. Examiners introduced Chin reference (US 20060224882) and indicated that Chin's Figure 3 along with paragraphs [0031-0032] read on the predetermined conditions recited in claim 1. No other agreement was reached.

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Attachment

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

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)

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- 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
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- 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.
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- 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 time 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.

DETAILED ACTION

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

Continued Examination Under 37 CFR 1.114

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 3/29/2018 has been entered.

Response to Arguments

Rejection of Claims under 35 U.S.C. § 103(a)

On pages 10-11 of Remarks filed on 03/29/2018, Applicant submits that (1) the mobile terminal communicates (transmits and receives information) with the another mobile terminal **before** the status of the another mobile terminal changes from "lock" to "unlock" by receiving information from the mobile terminal. However, the locked device (PDA) of Chin cannot communicate (transmit and receive information) with the unlocked computing device (PC) because communication between the PDA and the PC is NOT established before the combining, as required by the present disclosure. (2) Claims 1, 8, and 15 have been amended to include, "a Lock status of the mobile terminal" and "a Lock status of the another mobile terminal" as conditions for when the controller is to

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transmit information to the another mobile terminal. That is, a status of the another mobile terminal is "lock" when the mobile terminal transmits information to the another mobile terminal. Chin fails to disclose such limitations. Chin requires that a status of the PDA is "unlock" when combining the PDA with the PC in order to unlock a status of the PC. In other words, there is absolutely no disclosure by Chin that any status of the another mobile terminal is changed by the mobile terminal when the another mobile terminal is in a wireless communication area of the mobile terminal.

Examiner respectfully disagrees. In response to (1), in the first three limitations recited in Claim 1 (and similarly in Claim 8 and 15), the limitations merely state that a transceiver performing short-range communication, a memory previously storing information, and a controller switching the mobile terminal between an unlocked and a locked state, which are interpreted as the capabilities of the mobile terminal. Chin disclose these capabilities in at least Fig. 1, Abstract, and paragraphs [0016] & [0018]. See citation in 102 Rejections below.

In response to (2), the predetermined conditions are clearly disclosed by Chin in at least Fig. 3 and paragraphs [0031-0032] because the predetermined conditions do not specify a particular order of existence or as a function of time line. Each condition is disclosed in Fig. 3, for instance, both computing devices (or mobile terminals) are locked before unlocking the first computing device in Block 320. Further, in [0032] and Block 350 of Fig. 3, the second computing device is unlocked by the first computing device when the second computing device is in a wireless communication area of the first computing device. See citation in 102 Rejections below.

On page 12 of the Remarks, Applicant's arguments with respect to Kakiuchi and the combination of Chin and Kakiuchi are moot because Kakiuchi is no longer used as a secondary reference.

Claim Rejections - 35 USC § 102

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.

1. Claims 1, 8, and 15 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by **Chin** (US 20060224882).

Regarding claim 1, Chin discloses that “A mobile terminal configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

~~a communication unit~~ transceiver which performs short-range wireless communications (**Chin, Fig. 1: Communication connection(s) 116**);

~~a storage unit~~ memory which previously stores information about another mobile terminal (**Chin, Fig. 1: Non-removable storage 110, and [0016], lines 1-3: At least two computing devices may be synchronized such that shared information stored on the computing devices is kept up-to-date; and [0018], last 7 lines: A synchronization program on each computing device stores**

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the received GUID to manage the type of data to synchronize with the corresponding computing device. The GUIDs enable the computing devices to recognize each other as being associated with the same authorized user when the computing devices are subsequently coupled together);

~~and a control unit controller~~ which switches the mobile terminal between an unlocked and a locked state based on an authentication input to the mobile terminal ~~from a user~~ (Chin, Fig. 1: Processing unit 102, and [Abstract]: password unlocked);

wherein, when predetermined conditions are met, the ~~control unit controller~~ controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal (Chin, Fig. 3: Step 350, Password unlock second computing device which is the another mobile terminal);

wherein the under a predetermined conditions include condition when the following steps are performed:

a state of the mobile terminal is a locked state; a state of the another mobile terminal is a locked state (Chin, Fig 3 and [0031-0032]: both terminals are locked before Step 320);

the another mobile terminal is in communication range of the short-range wireless communications of the transceiver; the transceiver performs performing the short-range wireless communications with the another mobile terminal by the

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~~communication unit (Chin, Fig. 3 and [0027]: Step 330, Couple first computing device to second computing device, wherein the another mobile terminal is in the range so that coupling can occur); and~~

~~the controller receives the authentication input for switching the mobile terminal from the locked state to the unlocked state (Chin, Fig. 3: Step 320, Password unlock first computing device which is the mobile terminal)."~~

Regarding claims 8 and 15, the claims are interpreted and rejected for the same reason as set forth in claim 1 above.

Claim Rejections - 35 USC § 103

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

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

2. Claims 4, 5, 12-14, and 16 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (US 20060224882) in view of **Smith** (US 20130183936).

Regarding claim 13, **Chin** discloses the features of claim 1, but do not disclose that the operation includes a biometric authentication.

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Smith teaches that “the operation includes a biometric authentication (**Smith, [0022], last 4 lines: the portable wireless device may also be used such as, for example and without limitation, biometric devices such as fingerprint readers or cameras; and [0052], lines 8-11: The data from the data store 115 may include, but is not limited to, one or more public and/or private keys that uniquely identify a user, one or more pieces of biometric data that uniquely identify a user.)”**

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Smith’s teaching in the terminal of Chin in order to provide better personalized biometric data other than a password in uniquely identifying a user and hence a better security.

Regarding claim 4, Smith further teaches that “The mobile terminal according to claim 13, wherein: before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user (**Smith, [0018], last 8 lines: Information about which resources are being authenticated to can be presented to the user on the smart phone's screen, so that the user is aware of what resources are being accessed while the smart phone is connected to the computer. The user could also be given a choice about whether or not to accept such access.)”**

Regarding claim 5, Chin further discloses that “A mobile terminal according to claim 13, wherein: the ~~control-unit~~ controller performs short-range wireless communications with the another mobile terminal by the ~~communication-unit~~ transceiver”

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and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the ~~storage unit~~ memory and is in communication range of the short-range wireless communications by the ~~communication unit~~ transceiver when the mobile terminal is in a locked state (**Chin, Abstract, lines 1-4: A password locked computing device may be unlocked by coupling the locked device to a password unlocked computing device that is associated with the same user as the locked device; and Fig. 3 and [0027]: Step 330, Couple first computing device to second computing device, wherein the another mobile terminal is in the range so that coupling can occur; and Fig. 3: Step 320, Password unlock first computing device which is the mobile terminal).**)”

Regarding claim 12, the claim is interpreted and rejected for the same reason as set forth in claim 5 above.

Regarding claim 14, the claim is interpreted and rejected for the same reason as set forth in claim 13 above.

Regarding claim 16, the claim is interpreted and rejected for the same reason as set forth in claim 13 above.

3. Claims 3 and 10 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (US 20060224882) and **Smith** (US 20130183936) in view of **Gerhardt** (US 20120280790).

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Regarding claim 3, Chin and Smith teach the features of claim 13, but do not disclose that the communication unit, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

Gerhardt teaches that "the communication unit, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications **(Gerhardt, Fig. 13 and [0080]: The proximate user may send a lock, unlock or status request command either directly to the now radio-enabled lock system (1300) directly,...)**." Further, the radio-enabled lock system may not be mobile, but **Gerhardt** teaches sending a signal, such as a command, to another device, such as another mobile device, to lock the device. It is this teaching that can be obviously combined with Chin and Smith based on the authentication input to the mobile terminal to result in the claimed subject matter.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Gerhardt's teaching in the mobile terminal of Chin and Smith so that the another mobile terminal can be locked based on a user input, such as authentication input, in order to avoid accidentally putting the another mobile terminal in a locked state.

Regarding claim 10, the claim is interpreted and rejected for the same reason as set forth in claim 3 above.

4. Claims 17-19 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (US 20060224882) in view of **Friedlaender** (US 20110195665).

Regarding claim 17, Chin discloses the features of claim 1, but does not expressly disclose that the mobile terminal according to claim 1, further configure to store information about two or more another mobile terminals.

Friedlaender teaches that “the mobile terminal according to claim 1, further configure to store information about two or more another mobile terminals **(Friedlaender, [0045], lines 8-10: ... microcontroller which has memory to store the addresses/keys of the devices with which it has paired).**”

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Friedlaender’s teaching in the mobile terminal of Chin so that the mobile terminal can lock or unlock another more mobile terminals when they are in a wireless communication area of the mobile terminal.

Regarding claims 18 and 19, the claims are interpreted and rejected for the same reason as set forth in claim 17 above.

5. Claims 20-25 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (US 20060224882) in view of **Gerhardt** (US 20120280790).

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Regarding claim 20, Chin discloses the features of claim 1, but does not expressly disclose that wherein the short-range wireless communication is via a Bluetooth connection.

Gerhardt teaches that "wherein the short-range wireless communication is via a Bluetooth connection (**Gerhardt, [0131], lines 1-8: Bluetooth™ and Claim 5: Bluetooth ID).**"

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Gerhardt's teaching in the mobile terminal of Chin so that the commonly used Bluetooth technology can be utilized for locking/unlocking paired devices.

Regarding claim 21, Chin discloses the features of claim 1, but does not expressly disclose that wherein the short-range wireless communication is via infrared or a Wi-Fi connection.

Gerhardt teaches that "wherein the short-range wireless communication is via infrared or a Wi-Fi connection (**Gerhardt, [0131], lines 1-8: Wi-Fi™ and Claim 5: Wi-Fi ID).**"

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Gerhardt's teaching in the mobile terminal of Chin so that the commonly used Wi-Fi technology can be utilized for locking/unlocking paired devices.

Regarding claims 22 and 24, the claims are interpreted and rejected for the same reason as set forth in claim 20 above.

Regarding claims 23 and 25, the claims are interpreted and rejected for the same reason as set forth in claim 21 above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONG-CHANG SHIUE whose telephone number is (313)446-6552. The examiner can normally be reached on Monday-Friday; 8 - 4:30 EST.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wesley Kim can be reached on 571-272-7867. 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

Art Unit: 2648

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.

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

Applicant-Initiated Interview Summary	Application No. 13/874,535	Applicant(s) HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	

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

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Date of Interview: 23 April 2018.

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

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- 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 time 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.

Notice of References Cited	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2006/0224882 A1	10-2006	Chin; Peter G.	G06F21/34	713/150
*	B	US-2013/0183936 A1	07-2013	Smtih; Clayton Douglas	H04W12/06	455/411
*	C	US-2012/0280790 A1	11-2012	Gerhardt; Paul Michael	G07C9/00309	340/5.61
*	D	US-2011/0195665 A1	08-2011	Friedlaender; Daniel	G08C17/02	455/41.2
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

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

Applicant Initiated Interview Request Form

Application No.: 13/874,535 First Named Applicant: Masayuki HIRABAYASHI
 Examiner: Shiue, Dong-Chang Art Unit: 2648 Status of Application: Rejection

Tentative Participants:

(1) Jonathan D. Cocks (2) Dong-Chang Shiue
 (3) Wesley Kim (4) _____

Proposed Date of Interview: Friday, April 20, 2018 Proposed Time: 11:15 (Eastern) (☉AM☉PM)

Type of Interview Requested:

(1) Telephonic (2) Personal (3) Video Conference

Exhibit To Be Shown or Demonstrated: YES NO

If yes, provide brief description: _____

Issues To Be Discussed

Issues (Rej., Obj., etc)	Claims/ Fig. #s	Prior Art	Discussed	Agreed	Not Agreed
(1) <u>Rej.</u>	<u>1, 8, 15</u>	<u>Chin, Kakiuchi</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) <u>Rej.</u>	<u>4, 5, 12-14, 16</u>	<u>Chin, Kakiuchi, Smith</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3) _____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4) _____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Continuation Sheet Attached Proposed Amendment or Arguments Attached

Brief Description of Arguments to be Presented: Applicant seeks to discuss the current Office action (dated 12/13/2017) and the recently filed Response (filed 3/29/2018) thereto.

An interview was conducted on the above-identified application on _____

NOTE: This form should be completed and filed by applicant in advance of the interview (see MPEP § 713.01). If this form is signed by a registered practitioner not of record, the Office will accept this as an indication that he or she is authorized to conduct an interview on behalf of the principal (37 CFR 1.32(a)(3)) pursuant to 37 CFR 1.34. This is not a power of attorney to any above named practitioner. See the Instruction Sheet for this form, which is incorporated by reference. By signing this form, applicant or practitioner is certifying that he or she has read the Instruction Sheet. After the interview is conducted, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible. This application will not be delayed from issue because of applicant's failure to submit a written record of this interview.

/Jonathan D. Cocks/
 Applicant/Applicant's Representative Signature

Jonathan D. Cocks
 Typed/Printed Name of Applicant or Representative

75,646
 Registration Number, if applicable

 Examiner/SPE Signature

 Applicant's/Applicant's Representative's Telephone Number

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 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 24 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.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 3.

Instruction Sheet for:
APPLICANT INITIATED INTERVIEW REQUEST FORM
(Not to be Submitted to the USPTO)

1. If this form is signed by a registered practitioner not of record, the authority to submit the Applicant Initiated Interview Request Form is pursuant to limited authority to act in a representative capacity under 37 CFR 1.34 and further proof of authority to act in a representative capacity may be required. See 37 CFR 1.34.

The Office will accept the signed form as an indication that the registered practitioner not of record is authorized to conduct an interview on behalf of the principal in pursuant to 37 CFR 1.34.

For more information, see the "Conducting an Interview with a Registered Practitioner Acting in a Representative Capacity" notice which is available on the USPTO Web site at: <http://www.uspto.gov/patents/law/notices/2010.jsp>.


2. This is not a power of attorney to any named practitioner. Accordingly, any registered practitioner not of record named on the form does not have authority to sign a request to change the correspondence address, a request for express abandonment, a disclaimer, a power of attorney, or other document requiring the signature of the applicant, assignee of the entire interest or an attorney of record. If appropriate, a separate power of attorney to the named practitioner should be executed and filed in the US Patent and Trademark Office.
3. Any interview concerning an unpublished application under 35 U.S.C. § 122(b) with a registered practitioner not of record who obtains authorization through use of the PTOL-413A will be conducted based on the information and files supplied by the practitioner in view of the confidentiality requirements of 35 U.S.C. § 122(a).

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.

Search Notes 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

CPC- SEARCHED		
Symbol	Date	Examiner
H04W12/06	12/15/2014	DS
H04L63/0492	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS
Updated search	12/5/2017	ds
H04M1/66 H04B7/00 H04L9/32 H04W12/00 H04W12/\$	4/23/2018	ds

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	26.1, 41.2	12/15/2014	DS

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES		
Search Notes	Date	Examiner
EAST (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	12/15/2014	DS
Inventor/Assignee search in EAST and eDAN	12/15/2014	DS
Consulted with Lewis West	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS
Updated search	12/5/2017	ds

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SEARCH NOTES

Search Notes	Date	Examiner
Updated search	4/23/2018	ds
Consulted with Wesley Kim on 102 on 4/23/2018		

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	27	L3 and (sav\$3 stor\$3) same (identifi\$6 key\$1 information) same (devices terminals)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 16:59
L3	44	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$ or US-20090015654-\$ or US-20130095802-\$ or US-20070229221-\$ or US-20130259232-\$ or US-20040181678-\$ or US-20060123242-\$ or US-20130183936-\$ or US-20110214158-\$ or US-20120280790-\$).did. or (US-20170011387-\$ or US-20070287423-\$ or US-20110086615-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$ or US-7674298-\$ or US-7257374-\$ or US-8041340-\$ or US-8467770-\$ or US-8112066-\$ or US-8874467-\$).did. or (US-6614350-\$ or US-20110086615-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2018/04/23 16:58
S712	39	S704 and (authenticat\$3) same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:49
S711	0	S704 and (authenticat\$3) with (face) same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:48
S710	91	(secure authenticat\$3) with (face image) and (455/26.1 455/41.2).cls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2018/04/23 10:36

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			DERWENT; IBM_TDB			
S709	4	(authenticat\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:36
S708	235	S707 and (lock\$3 un-lock\$3 unlock\$3) with (short-range (short adj range) bluetooth blue-tooth NFC ("near" adj field))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:35
S707	79823	(H04W12/\$).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:35
S706	79823	(H04W12/\$).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:35
S705	1109	(H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:35
S704	9507	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:35
S703	46	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:35
S702	8442	(H04M1/66 H04B7/00 H04L9/32).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR;	OR	ON	2018/04/23 10:35

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S701	5	S698 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:35
S700	40980	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S699	80	S698 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S698	40980	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S697	3	S696 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S696	192	S694 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S695	192	S694 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S694	40980	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S693	13	S692 and ((GPS (global adj position\$3))	US-PGPUB;	OR	ON	2018/04/23

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		same (second auxiliary))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			10:34
S692	103	S690 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S691	103	S690 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S690	10162	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S689	21	@ad< "20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S688	50460	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S687	904	S686 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S686	10162	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:34
S685	35	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2018/04/23 10:33

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		\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.	IBM_TDB			
S684	122	S683 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:33
S683	10162	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:33
S682	10162	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:33
S681	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:33
S680	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:33
S679	3	("20110060480").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:33
S678	3	("7283812").URPN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:33
S677	12	S676 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:32

S676	10162	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:32
S675	10162	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:32
S674	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:32
S673	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:32
S672	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/23 10:32
S671	1	S670 and (wi\$1fi and bluetooth)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/19 21:40
S670	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/19 21:39
S669	11	S666 and (wi\$1fi and bluetooth)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/19 21:33
S668	28	S666 and (wi\$1fi bluetooth)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2018/04/19 21:33

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			DERWENT; IBM_TDB			
S667	7	S666 and (plural\$3 multiple several) same (stor\$3) same (information identification identifier)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/19 21:25
S666	42	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$ or US-20090015654-\$ or US-20130095802-\$ or US-20070229221-\$ or US-20130259232-\$ or US-20040181678-\$ or US-20060123242-\$ or US-20130183936-\$ or US-20110214158-\$ or US-20120280790-\$).did. or (US-20170011387-\$ or US-20070287423-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$ or US-7674298-\$ or US-7257374-\$ or US-8041340-\$ or US-8467770-\$ or US-8112066-\$ or US-8874467-\$).did. or (US-6614350-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2018/04/19 21:24

EAST Search History (Interference)

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Index of Claims 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

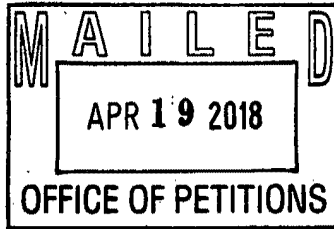
A	Appeal
O	Objected

Claims renumbered in the same order as presented by applicant
 CPA
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CLAIM		DATE								
Final	Original	12/15/2014	02/04/2016	07/19/2016	12/11/2016	04/20/2017	12/05/2017	04/23/2018		
	1	✓	✓	✓	✓	✓	✓	✓		
	2	✓	-	-	-	-	-	-		
	3	✓	✓	✓	✓	✓	✓	✓		
	4	✓	✓	✓	✓	✓	✓	✓		
	5	✓	✓	✓	✓	✓	✓	✓		
	6	✓	-	-	-	-	-	-		
	7	✓	-	-	-	-	-	-		
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NEW YORK NY 10112-4498



.Doc Code: TRACK1.GRANT

<p>Decision Granting Request for Prioritized Examination (Track I or After RCE)</p>	<p>Application No.: 13/874,535</p>
<p>1. THE REQUEST FILED <u>March 29, 2018</u> IS GRANTED.</p> <p>The above-identified application has met the requirements for prioritized examination</p> <p>A. <input type="checkbox"/> for an original nonprovisional application (Track I). B. <input checked="" type="checkbox"/> for an application undergoing continued examination (RCE).</p> <p>2. The above-identified application will undergo prioritized examination. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:</p> <p>A. filing a <u>petition for extension of time</u> to extend the time period for filing a reply; B. filing an <u>amendment to amend the application to contain more than four independent claims, more than thirty total claims</u>, or a multiple dependent claim; C. filing a <u>request for continued examination</u>; D. filing a notice of appeal; E. filing a request for suspension of action; F. mailing of a notice of allowance; G. mailing of a final Office action; H. completion of examination as defined in 37 CFR 41.102; or I. abandonment of the application.</p> <p>Telephone inquiries with regard to this decision should be directed to Brian W. Brown at 571-272-5338.</p> <p>/Brian W. Brown/ [Signature]</p> <p>Petitions Examiner, Office of Petitions (Title)</p>	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Request for Continued Examination (RCE) Transmittal Address to: Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	Application Number	13/874,535
	Filing Date	05-01-2013
	First Named Inventor	Masayuki HIRABAYASHI
	Art Unit	2648
	Examiner Name	SHIUE, DONG-CHANG
	Attorney Docket Number	072388.0418

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
 Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).
 - a. Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.
 - i. Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
 - ii. 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 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)
 - b. Other Certification & Request - Prioritized Examination
3. **Fees** The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed. The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. 02-4377.
 - a.
 - i. RCE fee required under 37 CFR 1.17(e)
 - ii. Extension of time fee (37 CFR 1.136 and 1.17)
 - iii. Other Prioritized Examination (37 CFR 1.17(c)), Processing fee (37 CFR 1.17 (i))
 - b. Check in the amount of \$ _____ enclosed
 - c. Payment by credit card (Form PTO-2038 enclosed)
 - d. Payment by EFS-Web

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED			
Signature	/Jonathan Drew Cocks/	Date	March 29, 2018
Name (Print/Type)	Jonathan Drew Cocks	Registration No.	75,646

CERTIFICATE OF MAILING OR TRANSMISSION			
I hereby certify that this correspondence is being EFS-Web transmitted to the United States Patent and Trademark Office (USPTO), deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the USPTO on the date shown below.			
Signature		Date	
Name (Print/Type)		Date	

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop RCE, 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.

Instruction Sheet for RCEs

(not to be submitted to the USPTO)

NOTES:

An RCE is not a new application, and filing an RCE will not result in an application being accorded a new filing date.

Filing Qualifications:

The application must be a utility or plant application filed on or after June 8, 1995. The application cannot be a provisional application, a utility or plant application filed before June 8, 1995, a design application, or a patent under reexamination. See 37 CFR 1.114(e).

Filing Requirements:

Prosecution in the application must be closed. Prosecution is closed if the application is under appeal, or the last Office action is a final action, a notice of allowance, or an action that otherwise closes prosecution in the application (e.g., an Office action under *Ex parte Quayle*). See 37 CFR 1.114(b).

A submission and a fee are required at the time the RCE is filed. If reply to an Office action under 35 U.S.C. 132 is outstanding (e.g., the application is under final rejection), the submission must meet the reply requirements of 37 CFR 1.111. If there is no outstanding Office action, the submission can be an information disclosure statement, an amendment, new arguments, or new evidence. See 37 CFR 1.114(c). The submission may be a previously filed amendment (e.g., an amendment after final rejection).

WARNINGS:**Request for Suspension of Action:**

All RCE filing requirements must be met before suspension of action is granted. A request for a suspension of action under 37 CFR 1.103(c) does not satisfy the submission requirement and does not permit the filing of the required submission to be suspended.

Improper RCE will NOT toll Any Time Period:

Before Appeal - If the RCE is improper (e.g., prosecution in the application is not closed or the submission or fee has not been filed) and the application is not under appeal, the time period set forth in the last Office action will continue to run and the application will be abandoned after the statutory time period has expired if a reply to the Office action is not timely filed. No additional time will be given to correct the improper RCE.

Under Appeal - If the RCE is improper (e.g., the submission or the fee has not been filed) and the application is under appeal, the improper RCE is effective to withdraw the appeal. Withdrawal of the appeal results in the allowance or abandonment of the application depending on the status of the claims. If there are no allowed claims, the application is abandoned. If there is at least one allowed claim, the application will be passed to issue on the allowed claim(s). See MPEP 1215.01.

See MPEP 706.07(h) for further information on the RCE practice.

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.

REMARKS

Claims 1, 3-5, 8, 10, and 12-25 are pending in this application. Claims 1, 3, 5, 8, 12, and 15 are amended; new claims 17-25 are added; and claims 2, 6, 7, 9, and 11 are canceled. Support for the amendments and newly added claims may be found throughout the specification, for example in paragraphs [0022]-[0031] and [0047] of the published application, the corresponding figures, and the originally-filed claims. Thus, Applicant respectfully submits that no new matter is being added by the Amendments to the Claims.

Rejection of Claims under 35 U.S.C. § 103(a)

Claims 1, 8, and 15 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Chin (JP 2006-285965, hereinafter “Chin”) in view of Kakiuchi (US 2007/0287423, hereinafter Kakiuchi”).

Claims 4, 5, 12-14, and 16 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Chin and Kakiuchi in view of Smith (US 2013/0183936, hereinafter “Smith”).

Claims 3 and 10 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Chin, Smith, and Kakiuchi in view of Gerhardt (US 2012/0280790, hereinafter “Gerhardt”).

Applicant respectfully traverses the rejection(s).

Independent claim 1 is hereby amended to recite the feature, “...wherein, *when predetermined conditions are met*, the controller controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal; *wherein the predetermined conditions include: a state of the mobile terminal is a locked state; a state of the another mobile terminal is a locked state; the another mobile terminal is in communication range of the short-range wireless*

communications of the transceiver; the transceiver performs the short-range wireless communications with the another mobile terminal; and the controller receives the authentication input for switching the mobile terminal from the locked state to the unlocked state.” Independent claims 8 and 15 are hereby amended to recite similar features. No such configuration is disclosed or suggested by Chin or Kakiuchi.

Specifically, these limitations identify a condition relating to when the controller transmits information to the another mobile terminal. That is, the mobile terminal communicates (transmits and receives information) with the another mobile terminal **before** the status of the another mobile terminal changes from “lock” to “unlock” by receiving information from the mobile terminal.

Chin discloses a method for unlocking a device in which the user first enters a password into a first computing device. *See* Chin [0026]. Specifically, Chin discloses unlocking the “locked” status of a PC (the another terminal) when combining a PDA with the PC. Subsequently, the user couples the first computing device to a second computing device. *See* Chin [0027] and step 330 of Fig. 3. In Chin, the subsequent act of coupling the first computing device (which has already been unlocked) to the second computing device results in the unlocking of the second computing device. *See* Chin [0014] (“A password locked computing device may be unlocked by coupling the locked device to a password unlocked computing device”). However, the locked device (PDA) of Chin **cannot** communicate (transmit and receive information) with the unlocked computing device (PC) because communication between the PDA and the PC is **NOT** established **before** the combining, as required by the present disclosure. As such, Chin fails to teach or suggest, “wherein, when predetermined conditions are met, the controller controls the mobile terminal to transmit information for switching a state of the

another mobile terminal from a locked state to an unlocked state to the another mobile terminal; wherein the predetermined conditions include: a state of the mobile terminal is a locked state; a state of the another mobile terminal is a locked state; the another mobile terminal is in communication range of the short-range wireless communications of the transceiver; the transceiver performs the short-range wireless communications with the another mobile terminal; and the controller receives the authentication input for switching the mobile terminal from the locked state to the unlocked state...” as recited in claims 1, 8, and 15.

Moreover, Chin fails to teach or suggest changing the status of the another mobile terminal by the mobile terminal when the another mobile terminal is in a wireless communication area of the mobile terminal. Specifically, claims 1, 8, and 15 have been amended to include, “a Lock status of the mobile terminal” and “a Lock status of the another mobile terminal” as conditions for when the controller is to transmit information to the another mobile terminal. That is, a status of the another mobile terminal is “lock” when the mobile terminal transmits information to the another mobile terminal. Chin fails to disclose such limitations. Chin requires that a status of the PDA is “unlock” when combining the PDA with the PC in order to unlock a status of the PC. In other words, there is absolutely no disclosure by Chin that any status of the another mobile terminal is changed by the mobile terminal when the another mobile terminal is in a wireless communication area of the mobile terminal.

Furthermore, another feature of the present disclosure is that the mobile terminal transmits information for changing a status from Lock to Unlock to the another mobile terminal once specified conditions are met. In other words, the meeting of specified conditions is a trigger for the transmission of information. This is clear from the amended claim language shown in claims 1, 8, and 15. Chin fails to disclose any such conditions.

Kakiuchi fails to cure the deficiencies of Chin. Independent claims 1, 8, and 15 each recite elements not taught, suggested, or disclosed by Kakiuchi. Kakiuchi discloses equipment to prevent spoofing in an authentication technique that uses a portable terminal. *See* Abstract. Specifically, Kakiuchi discloses a technique for authentication of payments in two stages. *See*, Kakiuchi [0068], [0075]. Said feature uses an identification of register for switching a status of the mobile terminal from Lock to Unlock.

Kakiuchi fails to teach or suggest a status of Lock and Unlock of the register (which corresponds to “the another mobile terminal” of the present disclosure). That is, Kakiuchi focuses only on the improvement of security for payment functions of a mobile terminal. Specifically, Kakiuchi fails to teach or suggest “...wherein, *when predetermined conditions are met*, the controller controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal; *wherein the predetermined conditions include: a state of the mobile terminal is a locked state; a state of the another mobile terminal is a locked state; the another mobile terminal is in communication range of the short-range wireless communications of the transceiver; the transceiver performs the short-range wireless communications with the another mobile terminal; and the controller receives the authentication input for switching the mobile terminal from the locked state to an unlocked state...*” as recited in claims 1, 8, and 15.

Moreover, and as a separate matter, Applicant submits that the Office’s proposed combination of Chin and Kakiuchi is improper as there is no motivation to the combine to the teachings of Chin with the teachings of Kakiuchi. As discussed, Chin relates to a technique about a status of Lock and Unlock of the mobile terminal and the another mobile terminal, while Kakiuchi only refers to a status of Lock and Unlock of a single mobile terminal, not the another

mobile terminal. One of ordinary skill in the art would not look to combine Chin and Kakiuchi as they relate to separate and distinct technologies, and do not each comprise a mobile terminal and the another mobile terminal.

Accordingly, Applicant submits claims 1, 3-5, 8, 10, and 12-25 are also allowable over Chin and Kakiuchi for at least these reasons.

Accordingly, Applicant submits that this rejection of claims under 35 U.S.C. § 103(a) should be withdrawn.

Formal Request for Interview

Applicant submits that this application is in condition for allowance for at least the reasons set forth herein. If this application is not considered to be in condition for allowance by the Examiner, Applicant requests an interview with the Examiner to discuss the present application. Applicant's attorney, Jonathan D. Cocks, may be reached at telephone number 212-408-2561 to schedule a mutually convenient date and time and to provide assistance or additional information as required.

CONCLUSION

On the basis of the foregoing remarks, Applicant respectfully submits that the pending claims of the present application are allowable over the prior art of record. Applicant thus respectfully requests the previous rejections be withdrawn, and that the pending claims be allowed by the Examiner. Favorable consideration and timely allowance of this application are respectfully requested.

This Amendment is being made solely to expedite prosecution of the present application and does not constitute an acquiescence to any prior art, objections, or rejections identified by the Examiner. Applicant's silence with regard to the Examiner's rejections of the dependent claims constitutes a recognition by Applicant that the rejections are moot based on Applicant's Amendment and/or Remarks regarding the independent claim from which the dependent claims depend.

Please charge the required fee for extending the time for a response within the first month after the period for response, pursuant to 37 C.F.R. § 1.17(b), to Deposit Account 02-4377. Applicant authorizes the Commissioner to charge any additional fees and/or credit any overpayments associated with this paper to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418. Further, if a fee is required for an extension of time under 37 C.F.R. § 1.136 not provided for above, Applicant requests such extension and authorizes the charging of the extension fee to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418.

Respectfully submitted,

BAKER BOTTS L.L.P.

Dated: March 29, 2018

By: /Jonathan D. Cocks/
Jonathan D. Cocks
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AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A mobile terminal configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

a ~~communication unit~~ transceiver which performs short-range wireless communications;

a ~~storage unit~~ memory which previously stores information about another mobile terminal; ~~and~~

a ~~control unit~~ controller which switches the mobile terminal between an unlocked and a locked state based on an authentication input to the mobile terminal ~~from a user~~;

wherein, when predetermined conditions are met, the ~~control unit~~ controller controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal;

wherein the under a predetermined conditions include condition when the following steps are performed:

a state of the mobile terminal is a locked state;

a state of the another mobile terminal is a locked state;

the another mobile terminal is in communication range of the short-range wireless communications of the transceiver;

the transceiver performs performing the short-range wireless communications with the another mobile terminal ~~by the communication unit~~; and

the controller receives the authentication input for switching the mobile terminal from the locked state to the unlocked state

~~receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state, wherein the authentication input is received when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit.~~

2. (Cancelled).

3. (Currently Amended) The mobile terminal according to claim 13, wherein:

the ~~communication unit~~ transceiver, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

4. (Previously Presented) The mobile terminal according to claim 13, wherein:

before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user.

5. (Currently Amended) The mobile terminal according to claim 13, wherein:

the ~~control unit~~ controller performs short-range wireless communications with the another mobile terminal by the ~~communication unit~~ transceiver and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the ~~storage unit~~ memory and is in communication range of the short-range wireless communications by the ~~communication unit~~

transceiver when the mobile terminal is in a locked state

6. (Cancelled).

7. (Cancelled).

8. (Currently Amended) A method for controlling a mobile terminal to transit between an unlocked and a locked state in which a predetermined operation is limited, comprising the steps of:

performing short-range wireless communications;

storing information about another mobile terminal in a ~~storage unit~~ memory; and

transmitting information from the mobile terminal to the another mobile terminal which is for switching a state of the another terminal from a locked state to an unlocked state when ~~under a~~ predetermined conditions are met, wherein the predetermined conditions include: condition based on an authentication input to the mobile terminal from a user when the following steps are performed:

a state of the mobile terminal is a locked state;

a state of the another mobile terminal is a locked state;

the another mobile terminal is in communication range of the short-range wireless communications;

the mobile terminal performs the short-range wireless communication with the another mobile terminal; and

the mobile terminal receives the authentication input for switching the mobile terminal

from the locked state to the unlocked state

~~performing the short range wireless communications with the another mobile terminal;~~
and

~~receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state, wherein the authentication input is received when the another mobile terminal stored in the storage unit is in communication range of the short range wireless communications.~~

9. (Cancelled).

10. (Previously Presented) The method according to claim 14, further comprising:

based on the operation, transmitting, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

11. (Cancelled).

12. (Currently Amended) The method according to claim 14, further comprising:

performing short-range wireless communications with the another mobile terminal and setting the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the ~~storage unit~~ memory and is in communication range of the short-range wireless communications when the mobile terminal is in a locked state.

13. (Previously Presented) The mobile terminal according to claim 1, wherein:

the operation includes a biometrics authentication.

14. (Previously Presented) The method according to claim 8, wherein:

the operation includes a biometrics authentication.

15. (Currently Amended) A lock state control system which comprises a first mobile terminal and a second mobile terminal which are configured to switch between an unlocked and a locked state in which a predetermined operation is limited;

wherein the first mobile terminal comprises a ~~communication unit~~ transceiver which performs short-range wireless communications, a ~~storage unit~~ memory which previously stores information about the second mobile terminal, and a ~~control unit~~ controller which switches the first mobile terminal between an unlocked and a locked state based on an authentication input to the first mobile terminal from a user; and

wherein, when predetermined conditions are met, the controller ~~the control unit~~ controls the first mobile terminal to transmit information for switching a state of the second mobile terminal from a locked state to an unlocked state to the second mobile terminal, wherein the predetermined conditions include: under a predetermined condition when the following steps are performed:

a state of the first mobile terminal is a locked state;

a state of the second mobile terminal is a locked state;

the second mobile terminal is in communication range of the short-range wireless communications of the first mobile terminal;

the first mobile terminal performs the short-range wireless communications with the second mobile terminal; and

the first mobile terminal receives the authentication input for switching a state of the first mobile terminal from a locked state to an unlocked state.

~~performing the short range wireless communications with the second mobile terminal by the communication unit; and~~

~~receiving the authentication input to the first mobile terminal switching a state of the first mobile terminal from a locked state to an unlocked state, wherein the authentication input is received when the second mobile terminal stored in the storage unit is in communication range of the short range wireless communications of the communication unit.~~

16. (Previously Presented) The lock state control system according to claim 15, wherein: the operation includes a biometrics authentication.

17. (New) The mobile terminal according to claim 1, further configured to store information about two or more another mobile terminals.

18. (New) The method according to claim 8, the method further comprising the step of storing information about two or more another mobile terminals.

19. (New) The lock state control system according to claim 15, further comprising two or more another mobile terminals.

20. (New) The mobile terminal according to claim 1, wherein the short-range wireless communication is via a Bluetooth connection.

21. (New) The mobile terminal according to claim 1, wherein the short-range wireless communication is via infrared or a Wi-Fi connection.

22. (New) The method according to claim 8, wherein the short-range wireless communication is performed via a Bluetooth connection.

23. (New) The method according to claim 8, wherein the short-range wireless communication is performed via infrared or a Wi-Fi connection.

24. (New) The lock state control system according to claim 15, wherein the short-range wireless communications are performed via a Bluetooth connection.

25. (New) The lock state control system according to claim 15, wherein the short-range wireless communications are performed via infrared or a Wi-Fi connection.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hirabayashi, *et al.* Examiner: Shiue, Dong-Chang
Serial No.: 13/874,535 Confirmation No.: 9744
Filed: May 1, 2013 Art Unit: 2648
Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF

**AMENDMENT AFTER FINAL OFFICE ACTION
AND REQUEST FOR CONTINUED EXAMINATION**

FILED ELECTRONICALLY

MAIL STOP RCE

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

Sir:

In response to the Final Office Action dated December 13, 2017, for which a shortened statutory period of three months, ending March 13, 2018, was set in which to respond, and for which pursuant to 37 C.F.R. § 1.136(a), a one-month extension of time, ending April 13, 2018, is hereby requested, the following remarks are submitted and reconsideration of the claim rejections is respectfully requested. A Request for Continued Examination and Request for Prioritized Examination (Track 1) are filed herewith.

AMENDMENTS TO THE CLAIMS begin on page 2 of this document.

REMARKS begin on page 9 of this document.

Electronic Patent Application Fee Transmittal

Application Number:	13874535			
Filing Date:	01-May-2013			
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF			
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI			
Filer:	Jonathan Drew Cocks/Danielle Rey			
Attorney Docket Number:	072388.0418			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
REQUEST FOR PRIORITIZED EXAMINATION	1817	1	4000	4000
Pages:				
Claims:				
Miscellaneous-Filing:				
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 1 month with \$0 paid	1251	1	200	200
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1900	1900
Total in USD (\$)				6240

Electronic Acknowledgement Receipt

EFS ID:	32193642
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Jonathan Drew Cocks/Danielle Rey
Filer Authorized By:	Jonathan Drew Cocks
Attorney Docket Number:	072388.0418
Receipt Date:	29-MAR-2018
Filing Date:	01-MAY-2013
Time Stamp:	12:23:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$6240
RAM confirmation Number	032918INTEFSW00010735024377
Deposit Account	
Authorized User	

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

IPR2020-00202

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	TrackOne Request	RCETrackOneRequest_asfiled.pdf	74265	no	2
			b97c0617fc1d99c135ff7decb8ca837401615f4		
Warnings:					
Information:					
2	Request for Continued Examination (RCE)	RCE_asfiled.pdf	114391	no	3
			abe2e64fddcb7564312ed77c703a7c724e04436a		
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
3		FOAResponse_asfiled.pdf	177431	yes	14
			ec9a9632c9225b025cc9368d837938389d2c821e		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Applicant Arguments/Remarks Made in an Amendment		9	14	
	Claims		2	8	
	Amendment Submitted/Entered with Filing of CPA/RCE		1	1	
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	36079	no	2
			d6013b83a0c325834dfff4a9ba500cb95491b2bc		
Warnings:					
Information:					
Total Files Size (in bytes):			402166		

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.

**CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION
 UNDER 37 CFR 1.102(e) (Page 1 of 1)**

First Named Inventor:	Masayuki HIRABAYASHI	Nonprovisional Application Number (if known):	13/874,535
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i), the prioritized examination fee set forth in 37 CFR 1.17(c), and if not already paid, the publication fee set forth in 37 CFR 1.18(d) have been filed with the request. The basic filing fee, search fee, examination fee, and any required excess claims and application size fees are filed with the request or have been already been paid.
2. The application contains or is amended to contain no more than four independent claims and no more than thirty total claims, and no multiple dependent claims.
3. The applicable box is checked below:

I. Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

- i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.
 ---OR---
 (b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.
- ii. An executed oath or declaration under 37 CFR 1.63 is filed with the application.

II. Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

- i. A request for continued examination has been filed with, or prior to, this form.
- ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
- iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
- iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
- v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature /Jonathan Drew Cocks/	Date March 29, 2018
Name (Print/Typed) Jonathan Drew Cocks	Practitioner Registration Number 75,646

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the form of the signature. If necessary, submit multiple forms for more than one signature, see below*.

*Total of _____ 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 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.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/874,535	Filing Date 05/01/2013	<input type="checkbox"/> To be Mailed
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ENTITY: LARGE SMALL MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		x \$80 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		x \$420 =	
<input type="checkbox"/> 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).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED - PART II

AMENDMENT	Date	(Column 1)		(Column 2)	(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	03/29/2018						
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	x \$100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$460 =	0
<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))							
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
						TOTAL ADD'L FEE	0

AMENDMENT	Date	(Column 1)		(Column 2)	(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =	
<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))							
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
						TOTAL ADD'L FEE	

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

LIE

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

Vincent S Butler

*** 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.**

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/874,535 05/01/2013 Masayuki HIRABAYASHI 072388.0418 9744

21003 7590 12/13/2017
BAKER BOTTS L.L.P.
30 ROCKEFELLER PLAZA
44TH FLOOR
NEW YORK, NY 10112-4498

EXAMINER

SHIUE, DONG-CHANG

ART UNIT PAPER NUMBER

2648

NOTIFICATION DATE DELIVERY MODE

12/13/2017

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):

DLNYDOCKET@BAKERBOTTSCOM

DETAILED ACTION

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

Response to Arguments

Applicant's arguments/statements filed on 08/21/2017 have been fully considered but are moot because a new secondary reference is being used in the current rejection. The examiner addressed every specific claim limitation with citations from the prior art using applicant's claim language verbatim. See below.

Claim Rejections - 35 USC § 103

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

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

1. Claims 1, 8, and 15 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (JP-2006-285965) in view of **Kakiuchi** (US 20070287423).

Regarding claim 1, Chin discloses that "A mobile terminal (**Chin, Fig. 1: PDA 210 or mobile phone 220**) configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

a communication unit which performs short-range wireless communications

(Chin, Fig. 1 and [0011]: The computer paraphernalia 100 include the

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communication interface 116 which enables the equipment to communicate with other computer paraphernalia 118 via a network etc. again. Although not restricted to a Local Area Network,... wherein Local Area Network is considered a short range network);

a storage unit (**Chin, Fig. 1: system memory 104**) which previously stores information about another mobile terminal (**Chin, Fig. 2 and [0017], last 5 lines:...** which should store received GUID and should synchronize with corresponding computer paraphernalia, *wherein GUID is equipment ID of another mobile terminal*); and

a control unit (**Chin, Fig. 1: the handling unit 102**) which switches the mobile terminal between an unlocked and a locked state based on an authentication input to the mobile terminal from a user (**Chin, [0016], lines 3-5: the user can do lock release of PDA210 by inputting password PW2. The password lock of the personal computer 200 is carried out**);

wherein the control unit controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal (**Chin, Fig. 2 and [0007], lines 2-7: Password lock release can be carried out by entering the password relevant to first computer paraphernalia for first computer paraphernalia. The password lock of the second computer paraphernalia can be carried out. First computer paraphernalia are combined with second computer paraphernalia. Password lock release of the second computer paraphernalia is carried out automatically, without a user**

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entering the password relevant to second computer paraphernalia, when it is recognized mutually that these pieces of equipment relates to the same user; and [0016], last 5 lines: PDA210 can recognize that the personal computer 200 is connected with the same permission user based on recognition information.

Therefore, PDA210 can carry out password lock release of the personal computer 200 automatically, without needing for a user to do the direct entry of the password (namely, PW1) of the personal computer 200, *wherein information such as recognition information is transmitted*) under a predetermined condition when the following steps are performed:

performing the short-range wireless communications with the another mobile terminal by the communication unit (**Chin, Fig. 2 and [0013], last 4 lines: **Computer paraphernalia may be any equipment in which password protection, such as the personal computer 200, Personal Digital Assistant (PDA) 210, the mobile phone 220, and the digital camera 230, is possible. Any computer paraphernalia can be combined with other computer paraphernalia of any via wireless connection or wired connection); and****

Chin does explicitly disclose receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state, wherein the authentication input is received when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit.

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Kakiuchi teaches that “receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state, wherein the authentication input is received when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit (**Kakiuchi, Fig. 2 and [0051], lines 5-10: This settlement is processed by performing the settlement process communication (post-authentication communication) with the portable telephone 1 brought close to the presentation unit 2b of the register 2 after the amount billed is input to the register main body 2a of the register 2 by the clerk, as shown in FIG. 2; and [0006]: ... living body authentication, personal identification number, password...**.” Kakiuchi teaches a post-authentication method that requires another authenticating process when the mobile terminal is brought close to another terminal that is unlocked so as to be able to communicate with the mobile terminal. Furthermore, Chin has already disclosed that unlocking another terminal can be performed by entering password to the mobile terminal. Hence, re-entering a password or personal identification number for improving a secure communication link would be very obvious to a skilled artisan in the art.

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to implement Kakiuchi’s teaching in the terminal of Chin so that a higher level of security is ensured by making sure both devices are in close proximity especially for functions directly related to financial transactions (**Kakiuchi [0004]**).

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Regarding claim 8, the claim is interpreted and rejected for the same reason as set forth in claim 1 above.

Regarding claim 15, Chin discloses that "A lock state control system which comprises a first mobile terminal and a second mobile terminal (**Chin, Fig. 1: PDA 210 or mobile phone 220, wherein a first mobile terminal can be PDA 210 and a second mobile terminal can be mobile phone 220 or digital camera 230; and Fig. 2 and [0013], last 4 lines: Computer paraphernalia may be any equipment in which password protection, such as the personal computer 200, Personal Digital Assistant (PDA) 210, the mobile phone 220, and the digital camera 230, is possible. Any computer paraphernalia can be combined with other computer paraphernalia of any via wireless connection or wired connection) which are configured to switch between an unlocked and a locked state in which a predetermined operation is limited (**Chin, [0016], lines 3-5: the user can do lock release of PDA210 by inputting password PW2. The password lock of the personal computer 200 is carried out**);**

wherein the first mobile terminal comprises a communication unit which performs short-range wireless communications (**Chin, Fig. 1 and [0011]: The computer paraphernalia 100 include the communication interface 116 which enables the equipment to communicate with other computer paraphernalia 118 via a network etc. again. Although not restricted to a Local Area Network, wherein Local Area**

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Network is considered a short range network), a storage unit (**Chin, Fig. 1: system memory 104**) which previously stores information about the second mobile terminal (**Chin, Fig. 2 and [0017], last 5 lines:...** **which should store received GUID and should synchronize with corresponding computer paraphernalia, wherein GUID is equipment ID of another mobile terminal**), and a control unit (**Chin, Fig. 1: the handling unit 102**) which switches the first mobile terminal between an unlocked and a locked state based on an authentication input to the first mobile terminal from a user (**Chin, [0016], lines 3-5: the user can do lock release of PDA210 by inputting password PW2. The password lock of the personal computer 200 is carried out**); and

wherein the control unit controls the first mobile terminal to transmit information for switching a state of the second mobile terminal from a locked state to an unlocked state to the second mobile terminal under a predetermined condition (**Chin, Fig. 2 and [0007], lines 2-7: Password lock release can be carried out by entering the password relevant to first computer paraphernalia for first computer paraphernalia. The password lock of the second computer paraphernalia can be carried out. First computer paraphernalia are combined with second computer paraphernalia. Password lock release of the second computer paraphernalia is carried out automatically, without a user entering the password relevant to second computer paraphernalia, when it is recognized mutually that these pieces of equipment relates to the same user; and [0016], last 5 lines: PDA210 can recognize that the personal computer 200 is connected with the same permission**

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user based on recognition information. Therefore, PDA210 can carry out password lock release of the personal computer 200 automatically, without needing for a user to do the direct entry of the password (namely, PW1) of the personal computer 200, *wherein information such as recognition information is transmitted*) when the following steps are performed:

performing the short-range wireless communications with the second mobile terminal by the communication unit (**Chin, Fig. 2 and [0013], last 4 lines: Computer paraphernalia may be any equipment in which password protection, such as the personal computer 200, Personal Digital Assistant (PDA) 210, the mobile phone 220, and the digital camera 230, is possible. Any computer paraphernalia can be combined with other computer paraphernalia of any via wireless connection or wired connection); and**

Chin does explicitly disclose receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state, wherein the authentication input is received when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit.

Kakiuchi teaches that “receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state, wherein the authentication input is received when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit (**Kakiuchi, Fig. 2 and [0051], lines 5-10: This settlement is**

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processed by performing the settlement process communication (post-authentication communication) with the portable telephone 1 brought close to the presentation unit 2b of the register 2 after the amount billed is input to the register main body 2a of the register 2 by the clerk, as shown in FIG. 2; and [0006]: ... living body authentication, personal identification number, password...)." Kakiuchi teaches a post-authentication method that requires another authenticating process when the mobile terminal is brought close to another terminal that is unlocked so as to be able to communicate with the mobile terminal. Furthermore, Chin has already disclosed that unlocking another terminal can be performed by entering password to the mobile terminal. Hence, re-entering a password or personal identification number for improving a secure communication link would be very obvious to a skilled artisan in the art.

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to implement Kakiuchi's teaching in the terminal of Chin so that ensuring of security is an absolute requirement if functions directly related to financial transactions such as electronic money are equipped ([0004]).

2. Claims 4, 5, 12-14, and 16 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (JP-2006-285965) and **Kakiuchi** (US 20070287423) in view of **Smith** (US 20130183936).

Regarding claim 13, Chin and Kakiuchi disclose the features of claim 1, but do not disclose that the operation includes a biometric authentication.

Smith teaches that “the operation includes a biometric authentication (**Smith, [0022], last 4 lines: the portable wireless device may also be used such as, for example and without limitation, biometric devices such as fingerprint readers or cameras; and [0052], lines 8-11: The data from the data store 115 may include, but is not limited to, one or more public and/or private keys that uniquely identify a user, one or more pieces of biometric data that uniquely identify a user.)”**

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to implement Smith’s teaching in the terminal of Chin and Kakiuchi in order to provide better personalized biometric data other than a password in uniquely identifying a user and hence a better security.

Regarding claim 4, Smith further teaches that “The mobile terminal according to claim 13, wherein: before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user (**Smith, [0018], last 8 lines: Information about which resources are being authenticated to can be presented to the user on the smart phone's screen, so that the user is aware of what resources are being accessed while the smart phone is connected to the computer. The user could also be given a choice about whether or not to accept such access.)”**

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Regarding claim 5, Chin further discloses that “A mobile terminal according to claim 1, wherein: the control unit performs short-range wireless communications with the another mobile terminal by the communication unit and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the storage unit and is in communication range of the short-range wireless communications by the communication unit when the mobile terminal is in a locked state (**Chin, Abstract, lines 2-4: The computer device locked by a password can be unlocked when the locked device is connected to a computer device, which is unlocked by using a password related to the same user of the locked device; and [0016], line 6: PDA210 is combinable with the personal computer 200 on radio, *wherein the another mobile terminal is in short-range wireless communication*; Fig. 2 and [0013], last 4 lines: Computer paraphernalia may be any equipment in which password protection, such as the personal computer 200, Personal Digital Assistant (PDA) 210, the mobile phone 220, and the digital camera 230, is possible. Any computer paraphernalia can be combined with other computer paraphernalia of any via wireless connection or wired connection).**”

Regarding claim 12, the claim is interpreted and rejected for the same reason as set forth in claim 5 above.

Regarding claim 14, the claim is interpreted and rejected for the same reason as set forth in claim 13 above.

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Regarding claim 16, the claim is interpreted and rejected for the same reason as set forth in claim 13 above.

3. Claims 3 and 10 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (JP-2006-285965), **Smith** (US 20130183936), and **Kakiuchi** (US 20070287423) in view of **Gerhardt** (US 20120280790).

Regarding claim 3, Chin, Smith, and Kakiuchi teaches the features of claim 13, but does not disclose that the communication unit, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

Gerhardt teaches that "the communication unit, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications **(Gerhardt, Fig. 13 and [0080]: The proximate user may send a lock, unlock or status request command either directly to the now radio-enabled lock system (1300) directly,...)**." Further, the radio-enabled lock system may not be mobile, but **Gerhardt** teaches sending a signal, such as a command, to another device, such as another mobile device, to lock the device. It is this teaching that can be obviously combined with Chin and Smith based on the authentication input to the mobile terminal to result in the claimed subject matter.

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Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to implement **Gerhardt's** teaching in the mobile terminal of **Chin, Smith, and Kakiuchi** so that the another mobile terminal can be locked based on a user input, such as authentication input, in order to avoid accidentally putting the another mobile terminal in a locked state.

Regarding claim 10, the claim is interpreted and rejected for the same reason as set forth in claim 3 above.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONG-CHANG SHIUE whose telephone number is

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(313)446-6552. The examiner can normally be reached on Monday-Friday; 8 - 4:30 EST.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wesley Kim can be reached on 571-272-7867. 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.

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

/WESLEY KIM/
Supervisory Patent Examiner, Art Unit 2648

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Notice of References Cited	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A US-2007/0287423 A1	12-2007	Kakiuchi; Takashi	G06Q20/32	455/411
*	B US-2006/0224882 A1	10-2006	Chin; Peter G.	G06F21/34	713/150
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I	US-				
J	US-				
K	US-				
L	US-				
M	US-				


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O					
P					
Q					
R					
S					
T					

NON-PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)				
U					
V					
W					
X					

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

Search Notes 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

CPC- SEARCHED		
Symbol	Date	Examiner
H04W12/06	12/15/2014	DS
H04L63/0492	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS
Updated search	12/5/2017	ds

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	26.1, 41.2	12/15/2014	DS

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES		
Search Notes	Date	Examiner
EAST (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	12/15/2014	DS
Inventor/Assignee search in EAST and eDAN	12/15/2014	DS
Consulted with Lewis West	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS
Updated search	12/5/2017	ds

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INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S665	2	"20070287423".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 11:11
S664	2	S661 and (enter input) with (security pass\$code pass\$word authenticat\$3) and ("near" proximity short\$1range)	USPAT	OR	ON	2017/12/05 10:49
S663	21	S661 and (enter input) with (security pass\$code pass\$word authenticat\$3)	USPAT	OR	ON	2017/12/05 10:49
S662	0	S661 and (re\$1enter re\$input)	USPAT	OR	ON	2017/12/05 10:48
S661	39	("2008/0162299").URPN.	USPAT	OR	ON	2017/12/05 10:47
S660	2	"20080162299".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 10:43
S659	27	(re\$enter re\$input) with (authenticat\$3 pass\$1work pass\$code security) same ("near" proximity short\$1range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/05 10:35
S658	3	S657 and (authenticat\$3 with input) same (proxim\$3 "near" close range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/11/28 11:17
S657	40	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$ or US-20090015654-\$ or US-20130095802-\$ or US-20070229221-\$ or US-20130259232-\$ or US-	US-PGPUB; USPAT; DERWENT	OR	ON	2017/11/28 11:15

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		20040181678-\$ or US-20060123242-\$ or US-20130183936-\$ or US-20110214158-\$ or US-20120280790-\$.did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$ or US-7674298-\$ or US-7257374-\$ or US-8041340-\$ or US-8467770-\$ or US-8112066-\$.did. or (US-6614350-\$ or EP-1835697-\$.did.				
S656	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/07/20 13:55
S655	4	("20070296545" "20050138356").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/22 14:15
S654	2	"20120280790".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/22 10:10
S653	0	"2010075656.pn",	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/19 19:51
S652	0	"20100075656.pn",	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/19 19:50
S651	11	("20120143707" "7928829" "20070186106" "20110320352" "20050198029" "20060236373" "20020023215" "20070101153" "8145194" "20090191811" "6396412" "20090191811" "20060236373").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S650	14	("8249556" "8249556" "20110214158" "20130183936" "8364963" "20030199267" "20140149746" "7756478" "8498618" "8249558" "20080196086" "20090021350" "7597250" "7756478" "20030025603" "20090249478").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S649	2	("20150058942" "20150163221").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02

S648	0	("20150058942" "20150163221").pn.	USPAT	OR	ON	2016/12/11 17:02
S647	3	"20060123242".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S646	0	"200060123242".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S645	15	(secure authenticat\$3) with (fingerprint biometric) with (nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S644	479	(secure authenticat\$3) with (fingerprint biometric) with (nfc ("near" adj field) bluetooth (short\$1range)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S643	1508	(secure authenticat\$3) with (fingerprint biometric) same (nfc ("near" adj field) bluetooth (short\$1range)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S642	0	(secure authenticat\$3) with (fingerprint biometric) same (nfc ("near" adj field) bluetooth (short\$1range)) near5 (lock\$3 unlock\$3) near3 (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S641	30	(phone mobile portable) near5 (nfc ("near" adj field) bluetooth (short\$1range)) near5 (lock\$3 unlock\$3) near3 (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S640	496	(phone mobile portable) near5 (nfc ("near" adj field) bluetooth (short\$1range)) near5 (lock\$3 unlock\$3 control\$4) near3 (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S639	1450	(phone mobile portable) near5 (nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3	US-PGPUB; USPAT; USOCR;	OR	ON	2016/12/11 17:02

		control\$4) with (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S638	13	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with ((seond another) near3 (phone mobile)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S637	0	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with ((seond another) near3 (phone mobile)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S636	751	(nfc ("near" adj field) bluetooth (short\$1range)) with (mobile phone) with (lock\$3 unlock\$3) with ((phone mobile)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S635	751	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with ((phone mobile)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S634	751	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3 (trun adj on)) with ((phone mobile)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S633	37	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3 (trun adj on)) with ((television tv)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S632	6	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with ((another second) adj (mobile phone pda device equipment apparatus electoric)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S631	4	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with ((another second) adj (mobile phone pda device equipment apparatus electoric)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	USPAT	OR	ON	2016/12/11 17:02
S630	39	("2006/0128305").URPN.	USPAT	OR	ON	2016/12/11

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						17:02
S629	17	("20010015694" "20010043659" "20030086387" "20030139878" "20040203384" "20040239484" "20060003788" "20060217063" "4825210" "5781121" "6370200" "6438367" "6456976" "7063400" "7603511" "7668556").PN. OR ("8564402").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
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S627	7	("20020032786" "20040203895" "20060128305" "20070229221" "20090021350" "20100099394" "6154665").PN. OR ("8818335").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S626	1	"8818335".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S625	89	(secure authenticat\$3) with (face image) and (455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S624	1199	(secure authenticat\$3) with (face image) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S623	4	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S622	5	"8825021".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S621	10	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S620	3	"20130095802".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2016/12/11 17:02

			IBM_TDB			
S619	2	"8041340".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S618	12	(authenticat\$3 recogni\$4 match\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S617	4	(authenticat\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S616	6675	(authenticat\$3) with (face) and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S615	0	14/874535	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S614	2	("6148205").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S613	106	("20030122655" "20020078393" "6594762" "5646593" "6144314" "20020123325" "6433685" "6326891" "20020121975" "6804699" "6148205" "5712973" "5960085" "6175922" "4639726" "20010002211" "20010007817" "20020016838" "20020121975" "6609656" "6901057" "6087937" "6804699" "5842118" "6150928" "20020077060" "6678728" "6408172" "6081704" "20020091785" "6614350" "6631271" "6449726" "6124805" "6174205" "6181284" "20020077077" "20010053947" "5345383").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S612	8	("20020108058" "20040056759" "20040192303" "20090183241" "6643781" "7415605" "7607015"	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02

		"7674298").PN.				
S611	32	("7674298").URPN.	USPAT	OR	ON	2016/12/11 17:02
S610	220	S609 and (lock\$3 un-lock\$3 unlock\$3) with (short-range (short adj range) bluetooth blue-tooth NFC ("near" adj field))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
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S608	1347	(H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S607	8863	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S606	24	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S605	24	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S604	7812	(H04M1/66 H04B7/00 H04L9/32).cpc. and @ad<"20120523"	US-PGPUB; USPAT;	OR	ON	2016/12/11 17:02

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S603	25	("20090232041" "6535494" "7817588" "8027666" "7266373" "7110747" "20050037734" "20070202807" "7460863").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S602	5	S600 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S601	76	S600 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S600	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S599	0	S597 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S598	12	S597 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S597	181	S596 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S596	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02

S595	13	S593 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S594	49	S593 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S593	103	S592 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S592	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S591	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S590	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S589	22	@ad< "20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short-range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S588	21	@ad< "20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S587	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S586	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S585	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S584	11	S582 and S583	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S583	44839	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentikat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S582	902	S581 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S581	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S580	5	("6070240" "6747546").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S579	19	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$ or US-20060224882- \$.did. or (US-8732458-\$ or US- 8818335-\$ or US-8526915-\$ or US-	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02

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		8222990-\$ or US-8090364-\$ or US-8019322-\$).did.				
S578	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S577	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S576	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S575	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S574	3258	(H04W12/00 H04L9/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S573	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S572	1347	H04W12/00.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S571	9773	(455/26.1 455/41.2).cls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S570	18	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02

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		\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.				
S569	122	S568 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentica\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S568	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S567	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S566	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S565	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S564	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S563	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S562	63	NI SHI JIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S561	0	NI SHI JIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2016/12/11 17:02

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			IBM_TDB			
S560	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S559	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S558	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S557	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S556	122	S555 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S555	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S554	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S553	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S552	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02

S551	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S550	12	S548 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S549	149	S548 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S548	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S547	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S546	63	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S545	0	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S544	930	NI SHI JI MA.in. and Hideo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S543	19	NI SHI JI MA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S542	32	HI RABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR;	OR	ON	2016/12/11 17:02

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S541	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S540	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S539	5	S537 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S538	76	S537 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S537	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S536	0	S534 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S535	12	S534 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S534	181	S533 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S533	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB;	OR	ON	2016/12/11

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			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:02
S532	13	S530 and (GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S531	49	S530 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S530	103	S529 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S529	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S528	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S527	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S526	22	@ad< "20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short-range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S525	21	@ad< "20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2016/12/11 17:02

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			IBM_TDB			
S524	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S523	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S522	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S521	11	S519 and S520	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S520	44839	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentica\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S519	902	S518 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S518	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S517	5	("6070240" "6747546").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S516	19	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US-	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02

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		20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.				
S515	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S514	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S513	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S512	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S511	3258	(H04W12/00 H04L9/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S510	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S509	1347	H04W12/00.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S508	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

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			EPO; JPO; DERWENT; IBM_TDB			
S507	18	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S506	122	S505 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S505	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S504	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S503	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S502	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S501	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S500	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S499	63	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02

S498	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S497	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S496	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S495	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S494	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S493	122	S492 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S492	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S491	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S490	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S489	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S488	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S487	12	S485 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S486	149	S485 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S485	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S484	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S483	63	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S482	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S481	930	NISHIJIMA.in. and Hideo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S480	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

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			EPO; JPO; DERWENT; IBM_TDB			
S479	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S478	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S477	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S476	89	(secure authenticat\$3) with (face image) and (455/26.1 455/41.2).cls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S475	1199	(secure authenticat\$3) with (face image) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S474	4	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S473	5	"8825021".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02

EAST Search History (Interference)

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12/ 5/ 2017 6:30:07 PM**C:\ Users\ dshiu\ Documents\ EAST\ Workspaces\ 13874535.wsp**

Index of Claims 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

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

CLAIM		DATE							
Final	Original	12/15/2014	02/04/2016	07/19/2016	12/11/2016	04/20/2017	12/05/2017		
	1	✓	✓	✓	✓	✓	✓		
	2	✓	-	-	-	-	-		
	3	✓	✓	✓	✓	✓	✓		
	4	✓	✓	✓	✓	✓	✓		
	5	✓	✓	✓	✓	✓	✓		
	6	✓	-	-	-	-	-		
	7	✓	-	-	-	-	-		
	8	✓	✓	✓	✓	✓	✓		
	9	✓	-	-	-	-	-		
	10	✓	✓	✓	✓	✓	✓		
	11	✓	-	-	-	-	-		
	12		✓	✓	✓	✓	✓		
	13				✓	✓	✓		
	14				✓	✓	✓		
	15				✓	✓	✓		
	16				✓	✓	✓		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hirabayashi, *et al.* Examiner: Shiue, Dong-Chang
Serial No.: 13/874,535 Confirmation No.: 9744
Filed: May 1, 2013 Art Unit: 2648
Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF

AMENDMENT AND RESPONSE TO NON-FINAL OFFICE ACTION

FILED ELECTRONICALLY

MAIL STOP AMENDMENT

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

Sir:

In response to the Non-Final Office Action dated April 28, 2017, for which a shortened statutory period of three months, ending July 28, 2017, was set in which to respond, and for which pursuant to 37 C.F.R. § 1.136(a), a one-month extension of time, ending August 28, 2017, is hereby requested, the following remarks are submitted and reconsideration of the claim rejections is respectfully requested.

Presentation of the Claims begin on page 2 of this document.

Remarks begin on page 7 of this document.

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A mobile terminal configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

a communication unit which performs short-range wireless communications;

a storage unit which previously stores information about another mobile terminal;

and

a control unit which switches the mobile terminal between an unlocked and a locked state based on an authentication input to the mobile terminal from a user;

wherein the control unit controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal under a predetermined condition when the following steps are performed:

performing the short-range wireless communications with the another mobile terminal by the communication unit; and

receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state, wherein the authentication input is received when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit.

2. (Cancelled).

3. (Previously Presented) The mobile terminal according to claim 13, wherein:

the communication unit, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

4. (Previously Presented) The mobile terminal according to claim 13, wherein:
before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user.

5. (Previously Presented) The mobile terminal according to claim 13, wherein:
the control unit performs short-range wireless communications with the another mobile terminal by the communication unit and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the storage unit and is in communication range of the short-range wireless communications by the communication unit when the mobile terminal is in a locked state

6. (Cancelled).

7. (Cancelled).

8. (Currently Amended) A method for controlling a mobile terminal to transit between an unlocked and a locked state in which a predetermined operation is limited, comprising the steps of:

performing short-range wireless communications;

storing information about another mobile terminal in a storage unit; and

transmitting information from the mobile terminal to the another mobile terminal which is for switching a state of the another terminal from a locked state to an unlocked state under a predetermined condition based on an authentication input to the mobile terminal from a user when the following steps are performed:

performing the short-range wireless communications with the another mobile terminal;

and

receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state, wherein the authentication input is received when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications.

9. (Cancelled).

10. (Previously Presented) The method according to claim 14, further comprising:

based on the operation, transmitting, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

11. (Cancelled).

12. (Previously Presented) The method according to claim 14, further comprising:

performing short-range wireless communications with the another mobile terminal and setting the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the storage unit and is in communication range of the short-range wireless communications when the mobile terminal is in a locked state.

13. (Previously Presented) The mobile terminal according to claim 1, wherein:
the operation includes a biometrics authentication.

14. (Previously Presented) The method according to claim 8, wherein:
the operation includes a biometrics authentication.

15. (Currently Amended) A lock state control system which comprises a first mobile terminal and a second mobile terminal which are configured to switch between an unlocked and a locked state in which a predetermined operation is limited;

wherein the first mobile terminal comprises a communication unit which performs short-range wireless communications, a storage unit which previously stores information about the second mobile terminal, and a control unit which switches the first mobile terminal between an unlocked and a locked state based on an authentication input to the first mobile terminal from a user; and

wherein the control unit controls the first mobile terminal to transmit information for switching a state of the second mobile terminal from a locked state to an unlocked state to the second mobile terminal under a predetermined condition when the following steps are performed:

performing the short-range wireless communications with the second mobile terminal by the communication unit; and

receiving the authentication input to the first mobile terminal switching a state of the first mobile terminal from a locked state to an unlocked state, wherein the authentication input is received when the second mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit.

16. (Previously Presented) The lock state control system according to claim 15, wherein:
the operation includes a biometrics authentication.

REMARKS

Claims 1, 3-5, 8, 10, and 12-16 are pending in this application. Upon entry of this Amendment, claims 1, 8, and 15 are amended. Support for the amendments may be found throughout the specification, for example in paragraphs [0029], [0046] and [0061] of the published application. Thus, Applicant respectfully submits that no new matter is being added by the Amendments to the Claims.

Statement of Substance of Interview

In accordance with M.P.E.P. § 713.04, Applicant provides this Statement in response to the Examiner's Applicant-Initiated Interview Summary dated August 1, 2017. Applicant acknowledges with appreciation the interview held between Supervisory Patent Examiner Wesley Kim, Examiner Dong-Chang Shiue, Applicant's Attorney Henry Chen, and Hirokazu Ishii on July 19, 2017. Applicant's attorney discussed the differences between the cited art and the pending claims. No agreement was reached during the interview.

In accordance with M.P.E.P. § 713.04, Applicant provides this Statement in response to the Examiner's Applicant-Initiated Interview Summary dated August 17, 2017. A telephonic call was held between Examiner Dong-Chang Shiue and Applicant's Attorney Henry Chen on August 10, 2017. Applicant's attorney discussed amending the claims. No agreement was reached during the call.

Rejection of Claims 1, 3-5, 8, 10, and 12-16 under 35 U.S.C. § 102

Claims 1, 3-5, 8, 10, and 12-16 are rejected under 35 U.S.C. § 102(b) as being anticipated by Chin (JP-2006-285965).

Independent claim 1 is hereby amended to recite the feature “receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state, *wherein the authentication input is received when the another mobile terminal stored in the storage unit is in communication range* of the short-range wireless communications of the communication unit.” Independent claims 8 and 15 are hereby amended to recite similar features. No such configuration is disclosed or suggested by Chin.

Chin discloses a method for unlocking a device in which the user first enters a password into a first computing device. Chin at [0026] and step 320 of Fig. 3. Subsequently, the user couples the first computing device to a second computing device. Chin at [0027] and step 330 of Fig. 3. In Chin, the subsequent act of coupling the first computing device (which has already been unlocked) to the second computing device results in the unlocking of the second computing device. Chin at [0014] (“A password locked computing device may be unlocked by coupling the locked device to a password unlocked computing device”). Chin does not disclose the amended feature above, in which the mobile terminal (a first computing device) and the another mobile terminal (a second computing device) are already in communication range when the authentication input is entered into the mobile terminal (“wherein the authentication input is received when the another mobile terminal ... is in communication range”).

Accordingly, Applicant submits that the rejection of independent claims 1, 8 and 15 under 35 U.S.C. § 102(b) should be withdrawn. Applicant submits dependent claims 3-5 and 13 are allowable at least for depending from allowable independent claim 1; dependent claims 10, 12, and 14 are allowable at least for depending from allowable independent claim 8; and dependent claim 16 is allowable at least for depending from allowable independent claim 15. Accordingly, Applicant submits that the rejection of claims 1, 3-5, 8, 10, and 12-16 under 35

U.S.C. § 102(b) should be withdrawn.

CONCLUSION

On the basis of the foregoing remarks, Applicant respectfully submits that the pending claims of the present application are allowable over the prior art of record. Applicant thus respectfully requests the previous rejections be withdrawn, and that the pending claims be allowed by the Examiner. Favorable consideration and timely allowance of this application are respectfully requested.

This Amendment is being made solely to expedite prosecution of the present application and does not constitute an acquiescence to any prior art, objections, or rejections identified by the Examiner. Applicant's silence with regard to the Examiner's rejections of the dependent claims constitutes a recognition by Applicant that the rejections are moot based on Applicant's Amendment and/or Remarks regarding the independent claim from which the dependent claims depend.

Please charge the required fee for extending the time for a response within the first month after the period for response, pursuant to 37 C.F.R. § 1.17(b), to Deposit Account 02-4377. Applicant authorizes the Commissioner to charge any additional fees and/or credit any overpayments associated with this paper to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418. Further, if a fee is required for an extension of time under 37 C.F.R. § 1.136 not provided for above, Applicant requests such extension and authorizes the charging of the extension fee to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418.

Respectfully submitted,

BAKER BOTTS L.L.P.

Dated: August 21, 2017

By: /Henry Chen/
Henry Chen
Registration No. 67,587

Attorney for Applicant

Baker Botts L.L.P.
30 Rockefeller Plaza, Floor 45
New York, NY 10112-4498
(212) 408-2597 (telephone)
(212) 259-2597 (facsimile)

Electronic Patent Application Fee Transmittal

Application Number:	13874535
Filing Date:	01-May-2013
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Filer:	Henry Chen/Hiroko Lavietes
Attorney Docket Number:	072388.0418

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	1251	1	200	200
Miscellaneous:				
Total in USD (\$)				200

Electronic Acknowledgement Receipt

EFS ID:	30138017
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Henry Chen/Hiroko Lavietes
Filer Authorized By:	Henry Chen
Attorney Docket Number:	072388.0418
Receipt Date:	21-AUG-2017
Filing Date:	01-MAY-2013
Time Stamp:	16:26:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$200
RAM confirmation Number	082217INTEFSW00003046024377
Deposit Account	024377
Authorized User	Hiroko Lavietes

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:
37 CFR 1.21 (Miscellaneous fees and charges)

IPR2020-00202

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Extension of Time	EOT.pdf	169757	no	2
			0e6a311ff520dd1f2e012a4289a05c26a9d10176		
Warnings:					
Information:					
2		Amendment.pdf	161185	yes	10
			1de8e1c7bf36449860b6703306e84c7092c9df54		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	6	
	Applicant Arguments/Remarks Made in an Amendment		7	10	
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30509	no	2
			623d8e2af72f39a6f7b17df070dc288fa03b6985		
Warnings:					
Information:					
Total Files Size (in bytes):			361451		

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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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:

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public 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.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/874,535	Filing Date 05/01/2013	<input type="checkbox"/> To be Mailed
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ENTITY: LARGE SMALL MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		x \$80 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		x \$420 =	
<input type="checkbox"/> 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).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED - PART II

	(Column 1)		(Column 2)	(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	08/21/2017		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))	* 11	Minus ** 20	= 0	x \$80 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus *** 3	= 0	x \$420 =	0
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

	(Column 1)		(Column 2)	(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))	*	Minus **	=	x \$0 =	
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x \$0 =	
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

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

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

*** 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.



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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/874,535 05/01/2013 Masayuki HIRABAYASHI 072388.0418 9744

21003 7590 08/17/2017
BAKER BOTTS L.L.P.
30 ROCKEFELLER PLAZA
44TH FLOOR
NEW YORK, NY 10112-4498

EXAMINER

SHIUE, DONG-CHANG

ART UNIT PAPER NUMBER

2648

NOTIFICATION DATE DELIVERY MODE

08/17/2017

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Applicant-Initiated Interview Summary	Application No. 13/874,535	Applicant(s) HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	

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

(1) DONG-CHANG SHIUE. (3)_____.

(2) Henry Chen. (4)_____.

Date of Interview: 8/10/2017.

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: Chin (JP 2006-285965).

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...)

Applicant's representative explained that the amendment would clarify the sequence of steps that were discussed in the previous interview dated 7/19/2017. Examiner indicated that the amendment would require further consideration and search. 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.

Attachment

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

/WESLEY KIM/
Supervisory Patent Examiner, Art Unit 2648

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 attention 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
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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 time 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.



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Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO., EXAMINER, ART UNIT, PAPER NUMBER, NOTIFICATION DATE, DELIVERY MODE. Includes application details for Masayuki HIRABAYASHI and examiner SHIUE, DONG-CHANG.

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Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

DLNYDOCKET@BAKERBOTTSCOM

Applicant-Initiated Interview Summary	Application No. 13/874,535	Applicant(s) HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	

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

- (1) DONG-CHANG SHIUE. (3) Henry Chen.
(2) Wesley Kim. (4) Hirokazu Ishii.

Date of Interview: 19 July 2017.

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: JP-A-2006-285965 with drawings 20061019.

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...)

The applicant's representative went over the invention and described the elements that would distinguish this invention from others. Examiner indicated that in order to overcome the current rejection, claim 1 should be amended to clarify the sequence of steps with support from the originally filed specification. The examiner explained that further search and consideration would be required to see if the amended claim would overcome the current rejection upon officially receiving the amendment. No other agreement was reached.

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Attachment

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

/WESLEY KIM/
Supervisory Patent Examiner, Art Unit 2648

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Paragraph (b)

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Applicant-Initiated Interview Agenda

Docket # 072388.0418

Application No.: 13/874,535 First Named Applicant: HIRABAYASHI, Masayuki
 Examiner: SHIUE, Dong-Chang Art Unit: 2648 Status of Appl.: Non-Final Office Action
mailed 4/28/17

Participants:

(1) **Examiner Dong-Chang Shiue** (2) **Supervisory Patent Examiner Wesley Kim**
 (3) **Henry Chen (Reg. No. 67,587)** (4) **Hirokazu Ishii**

Agreed Date of Interview: July 19, 2017Agreed Time: 10:30 am Eastern Time**Type of Interview Requested:**

(1) Telephonic (2) Personal (3) Video Conference

Exhibit To Be Shown or Demonstrated: YES NO

If yes, provide brief description:

Issues To Be Discussed

Issues (Rej., Obj., etc.)	Claims Fig.#s	Prior Art	Discussed	Agreed	Not Agreed
(1) <u>Rej. under §102(b)</u>	<u>Cls. 1, 8, 15</u>	<u>Chin</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) _____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Continuation Sheet Attached					

Brief Description of Arguments to be Presented:

* Agenda: Discuss §102(b) rejections under Chin.

* Potential Argument:

-- The cited reference does not disclose or suggest at least the feature "wherein the control unit controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal under a predetermined condition when the following steps are performed:

performing the short-range wireless communications with the another mobile terminal by the communication unit; and

receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit" as recited in claim 1, and similarly in claims 8 & 15.

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 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.

/Henry Chen/

Applicant/Applicant's Representative Signature

Examiner/SPE Signature_____
Henry Chen

Typed/Printed Name of Applicant or Representative

67,587

Registration Number, if applicable



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EXAMINER

SHIUE, DONG-CHANG

ART UNIT PAPER NUMBER

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NOTIFICATION DATE DELIVERY MODE

04/28/2017

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DLNYDOCKET@BAKERBOTTSCOM

DETAILED ACTION

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

Continued Examination Under 37 CFR 1.114

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 03/17/2017 has been entered.

Response to Arguments

Applicant's arguments/statements filed on 03/17/2017 have been fully considered but they are not persuasive. The examiner addressed every specific claim limitation with citations from the prior art using applicant's claim language verbatim. See below.

Examiner Notes

The Examiner cites particular columns and line numbers in the references as applied to the claims below for the convenience of the Applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the Applicant fully considers the references in its entirety as potentially teaching all or part of the claimed invention, as

Art Unit: 2648

well as the context of the passage as taught by the prior art or as disclosed by the Examiner.

Claim Rejections - 35 USC § 102

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.

1. Claims 1, 8, and 15 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by **Chin** (JP-2006-285965).

Regarding claim 1, Chin discloses that “A mobile terminal (**Chin, Fig. 1: PDA 210 or mobile phone 220**) configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

a communication unit which performs short-range wireless communications (**Chin, Fig. 1 and [0011]: The computer paraphernalia 100 include the communication interface 116 which enables the equipment to communicate with other computer paraphernalia 118 via a network etc. again. Although not restricted to a Local Area Network,... wherein Local Area Network is considered a short range network**);

a storage unit (**Chin, Fig. 1: system memory 104**) which previously stores information about another mobile terminal (**Chin, Fig. 2 and [0017], last 5 lines:...**

Art Unit: 2648

which should store received GUID and should synchronize with corresponding computer paraphernalia, *wherein GUID is equipment ID of another mobile terminal*); and

a control unit (Chin, Fig. 1: the handling unit 102) which switches the mobile terminal between an unlocked and a locked state based on an authentication input to the mobile terminal from a user (Chin, [0016], lines 3-5: **the user can do lock release of PDA210 by inputting password PW2. The password lock of the personal computer 200 is carried out**);

wherein the control unit controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal (Chin, Fig. 2 and [0007], lines 2-7: **Password lock release can be carried out by entering the password relevant to first computer paraphernalia for first computer paraphernalia. The password lock of the second computer paraphernalia can be carried out. First computer paraphernalia are combined with second computer paraphernalia. Password lock release of the second computer paraphernalia is carried out automatically, without a user entering the password relevant to second computer paraphernalia, when it is recognized mutually that these pieces of equipment relates to the same user; and [0016], last 5 lines: PDA210 can recognize that the personal computer 200 is connected with the same permission user based on recognition information. Therefore, PDA210 can carry out password lock release of the personal computer 200 automatically, without needing for a user to do the direct entry of the**

Art Unit: 2648

password (namely, PW1) of the personal computer 200, wherein information such as recognition information is transmitted) under a predetermined condition when the following steps are performed:

performing the short-range wireless communications with the another mobile terminal by the communication unit (Chin, Fig. 2 and [0013], last 4 lines: **Computer paraphernalia may be any equipment in which password protection, such as the personal computer 200, Personal Digital Assistant (PDA) 210, the mobile phone 220, and the digital camera 230, is possible. Any computer paraphernalia can be combined with other computer paraphernalia of any via wireless connection or wired connection); and**

receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit (Chin, Abstract, lines 2-4: **The computer device locked by a password can be unlocked when the locked device is connected to a computer device, which is unlocked by using a password related to the same user of the locked device; and [0016], line 6: PDA210 is combinable with the personal computer 200 on radio, wherein the another mobile terminal is in short-range wireless communication).**”

Regarding claim 8, the claim is interpreted and rejected for the same reason as set forth in claim 1 above.

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Regarding claim 15, Chin discloses that “A lock state control system which comprises a first mobile terminal and a second mobile terminal (**Chin, Fig. 1: PDA 210 or mobile phone 220, wherein a first mobile terminal can be PDA 210 and a second mobile terminal can be mobile phone 220 or digital camera 230; and Fig. 2 and [0013], last 4 lines: Computer paraphernalia may be any equipment in which password protection, such as the personal computer 200, Personal Digital Assistant (PDA) 210, the mobile phone 220, and the digital camera 230, is possible. Any computer paraphernalia can be combined with other computer paraphernalia of any via wireless connection or wired connection) which are configured to switch between an unlocked and a locked state in which a predetermined operation is limited (Chin, [0016], lines 3-5: **the user can do lock release of PDA210 by inputting password PW2. The password lock of the personal computer 200 is carried out**);**

wherein the first mobile terminal comprises a communication unit which performs short-range wireless communications (**Chin, Fig. 1 and [0011]: The computer paraphernalia 100 include the communication interface 116 which enables the equipment to communicate with other computer paraphernalia 118 via a network etc. again. Although not restricted to a Local Area Network, wherein Local Area Network is considered a short range network**), a storage unit (**Chin, Fig. 1: system memory 104**) which previously stores information about the second mobile terminal (**Chin, Fig. 2 and [0017], last 5 lines:... which should store received GUID and**

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should synchronize with corresponding computer paraphernalia, wherein GUID is equipment ID of another mobile terminal), and a control unit (Chin, Fig. 1: the handling unit 102) which switches the first mobile terminal between an unlocked and a locked state based on an authentication input to the first mobile terminal from a user (Chin, [0016], lines 3-5: the user can do lock release of PDA210 by inputting password PW2. The password lock of the personal computer 200 is carried out); and

wherein the control unit controls the first mobile terminal to transmit information for switching a state of the second mobile terminal from a locked state to an unlocked state to the second mobile terminal under a predetermined condition (Chin, Fig. 2 and [0007], lines 2-7: Password lock release can be carried out by entering the password relevant to first computer paraphernalia for first computer paraphernalia. The password lock of the second computer paraphernalia can be carried out. First computer paraphernalia are combined with second computer paraphernalia. Password lock release of the second computer paraphernalia is carried out automatically, without a user entering the password relevant to second computer paraphernalia, when it is recognized mutually that these pieces of equipment relates to the same user; and [0016], last 5 lines: PDA210 can recognize that the personal computer 200 is connected with the same permission user based on recognition information. Therefore, PDA210 can carry out password lock release of the personal computer 200 automatically, without needing for a user to do the direct entry of the password (namely, PW1) of the

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personal computer 200, wherein information such as recognition information is transmitted) when the following steps are performed:

performing the short-range wireless communications with the second mobile terminal by the communication unit (Chin, Fig. 2 and [0013], last 4 lines: **Computer paraphernalia may be any equipment in which password protection, such as the personal computer 200, Personal Digital Assistant (PDA) 210, the mobile phone 220, and the digital camera 230, is possible. Any computer paraphernalia can be combined with other computer paraphernalia of any via wireless connection or wired connection**); and

receiving the authentication input to the first mobile terminal switching a state of the first mobile terminal from a locked state to an unlocked state when the second mobile terminal stored in the storage unit is in communication range of the short- range wireless communications of the communication unit (Chin, Abstract, lines 2-4: **The computer device locked by a password can be unlocked when the locked device is connected to a computer device, which is unlocked by using a password related to the same user of the locked device; and [0016], line 6: PDA210 is combinable with the personal computer 200 on radio, wherein the another mobile terminal is in short-range wireless communication).**”

Claim Rejections - 35 USC § 103

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

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

2. Claims 4, 5, 12-14, and 16 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (JP-2006-285965) in view of **Smith** (US 20130183936).

Regarding claim 13, Chin discloses the features of claim 1, but does not disclose that the operation includes a biometric authentication.

Smith teaches that “the operation includes a biometric authentication (**Smith, [0022], last 4 lines: the portable wireless device may also be used such as, for example and without limitation, biometric devices such as fingerprint readers or cameras; and [0052], lines 8-11: The data from the data store 115 may include, but is not limited to, one or more public and/or private keys that uniquely identify a user, one or more pieces of biometric data that uniquely identify a user.**)”

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to implement Smith’s teaching in the terminal of Chin in order to provide better personalized biometric data other than a password in uniquely identifying a user and hence a better security.

Regarding claim 4, Smith further teaches that “The mobile terminal according to claim 13, wherein: before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user (**Smith, [0018], last 8 lines: Information about which resources are being authenticated to can be presented to the user on the**

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smart phone's screen, so that the user is aware of what resources are being accessed while the smart phone is connected to the computer. The user could also be given a choice about whether or not to accept such access.)”

Regarding claim 5, Chin further discloses that “A mobile terminal according to claim 1, wherein: the control unit performs short-range wireless communications with the another mobile terminal by the communication unit and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the storage unit and is in communication range of the short-range wireless communications by the communication unit when the mobile terminal is in a locked state (**Chin, Abstract, lines 2-4: The computer device locked by a password can be unlocked when the locked device is connected to a computer device, which is unlocked by using a password related to the same user of the locked device; and [0016], line 6: PDA210 is combinable with the personal computer 200 on radio, wherein the another mobile terminal is in short-range wireless communication; Fig. 2 and [0013], last 4 lines: Computer paraphernalia may be any equipment in which password protection, such as the personal computer 200, Personal Digital Assistant (PDA) 210, the mobile phone 220, and the digital camera 230, is possible. Any computer paraphernalia can be combined with other computer paraphernalia of any via wireless connection or wired connection).**”

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Regarding claim 12, the claim is interpreted and rejected for the same reason as set forth in claim 5 above.

Regarding claim 14, the claim is interpreted and rejected for the same reason as set forth in claim 13 above.

Regarding claim 16, the claim is interpreted and rejected for the same reason as set forth in claim 13 above.

3. Claims 3 and 10 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Chin** (JP-2006-285965) and **Smith** (US 20130183936) in view of **Gerhardt** (US 20120280790).

Regarding claim 3, Chin and **Smith** teaches the features of claim 13, but does not disclose that the communication unit, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

Gerhardt teaches that "the communication unit, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications (**Gerhardt, Fig. 13 and [0080]: The proximate user may send a lock, unlock or status request command either directly to the now radio-enabled lock system (1300) directly,...**)."
Further, the radio-enabled lock system may not be mobile, but **Gerhardt** teaches sending a signal, such as a command, to another device, such as

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another mobile device, to lock the device. It is this teaching that can be obviously combined with Chin and Smith based on the authentication input to the mobile terminal to result in the claimed subject matter.

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to implement **Gerhardt's** teaching in the mobile terminal of **Chin** and **Smith** so that the another mobile terminal can be locked based on a user input, such as authentication input, in order to avoid accidentally putting the another mobile terminal in a locked state.

Regarding claim 10, the claim is interpreted and rejected for the same reason as set forth in claim 3 above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONG-CHANG SHIUE whose telephone number is (313)446-6552. The examiner can normally be reached on Monday-Friday; 8 - 4:30 EST.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wesley Kim can be reached on 571-272-7867. 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.

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

Notice of References Cited	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	Page 1 of 1

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*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
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J	US-				
K	US-				
L	US-				
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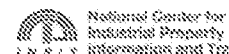
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(71)Applicant	MICROSOFT CORP
(72)Inventor	CHIN PETER G

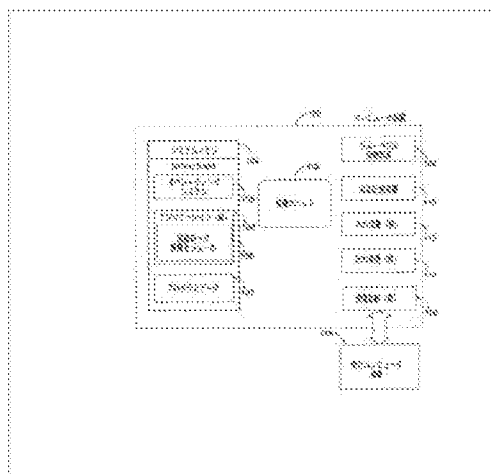
(30)Priority

Priority number : 2005 095677 Priority date : 31.03.2005 Priority country : US

(54)METHOD AND SYSTEM FOR UNLOCKING COMPUTER DEVICE

(57)Abstract

PROBLEM TO BE SOLVED: To provide a method and a system for unlocking a computer device.
SOLUTION: The computer device locked by a password can be unlocked when the locked device is connected to a computer device, which is unlocked by using a password related to the same user of the locked device. When it is recognized that these devices are associated with the same user mutually, the locked computer device locked by using the password can be automatically unlocked without requiring input of the password related to the locked computer device from the user.



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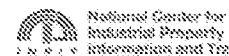
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CLAIMS

[Claim(s)]

[Claim 1]

It is how for computer mounting to have been carried out for carrying out lock release of the computer paraphernalia,
 A step by which it is a step which combines first computer paraphernalia with second computer paraphernalia, password lock release of said first computer paraphernalia is carried out, and the password lock of said second computer paraphernalia is carried out,
 A step which judges whether said first computer paraphernalia and said second computer paraphernalia recognize mutually based on recognition information relevant to said first computer paraphernalia and said second computer paraphernalia,
 A step which carries out lock release of said second computer paraphernalia when said first computer paraphernalia and said second computer paraphernalia recognize mutually
 A method which is characterized by preparation ***** and by which computer mounting was carried out.

[Claim 2]

A method according to claim 1 by which computer mounting was carried out, wherein the aforementioned determination step further contains a step a user relevant to said first computer paraphernalia judges whether you are the same user as a user relevant to said second computer paraphernalia to be.

[Claim 3]

A method according to claim 1 by which computer mounting was carried out, wherein the aforementioned lock release step further contains a step which carries out lock release of said second computer paraphernalia automatically, without receiving a user input corresponding to a password relevant to said second computer paraphernalia.

[Claim 4]

A method according to claim 1 by which computer mounting was carried out, wherein the aforementioned connection step further contains a step which synchronizes said first computer paraphernalia and said second computer paraphernalia.

[Claim 5]

When said first computer paraphernalia are combined with said second computer paraphernalia, A method according to claim 1 which further comprises a step which decides on recognition partnership between said first computer paraphernalia and said second computer paraphernalia, and is characterized by the aforementioned recognition partnership being a thing based on the aforementioned recognition information and by which computer mounting was carried out.

[Claim 6]

A method according to claim 1 by which computer mounting was carried out, wherein the aforementioned recognition information relates to equipment ID corresponding to said first computer paraphernalia and said second computer paraphernalia.

[Claim 7]

A method according to claim 1 by which computer mounting was carried out, wherein the



aforementioned recognition information relates to a public key and digital certificate recognition partnership which were established between said first computer paraphernalia and said second computer paraphernalia.

[Claim 8]

A method according to claim 1 by which computer mounting was carried out, wherein the aforementioned recognition information relates to a password shared between said first computer paraphernalia and said second computer paraphernalia.

[Claim 9]

A method according to claim 1 of computer mounting having been carried out further having a step which locks said first computer paraphernalia and said second computer paraphernalia when connection release of said second computer paraphernalia is carried out from said first computer paraphernalia.

[Claim 10]

A method according to claim 1 of computer mounting having been carried out further having a step which locks said first computer paraphernalia when connection release of said second computer paraphernalia is carried out from said first computer paraphernalia.

[Claim 11]

A method according to claim 1 by which computer mounting was carried out, wherein the aforementioned connection step further contains a step which combines said first computer paraphernalia with said second computer paraphernalia by wired connection.

[Claim 12]

A method according to claim 1 by which computer mounting was carried out, wherein the aforementioned connection step further contains a step which combines said first computer paraphernalia with said second computer paraphernalia by wireless connection.

[Claim 13]

A method according to claim 1 of computer mounting having been carried out further having a step which changes the aforementioned recognition information after a predetermined period passes.

[Claim 14]

It is a system for carrying out lock release of the computer paraphernalia,
First computer paraphernalia constituted so that password lock release might be carried out,
Second computer paraphernalia which were constituted so that a password lock might be carried out, and were combined with said first computer paraphernalia,
It is the lock release module combined with at least 1 side of said first computer paraphernalia and said second computer paraphernalia,
Based on recognition information relevant to said first computer paraphernalia and said second computer paraphernalia, it is judged whether said first computer paraphernalia and said second computer paraphernalia recognize mutually,
A lock release module constituted so that lock release of said second computer paraphernalia might be carried out when said first computer paraphernalia and said second computer paraphernalia recognized mutually
A system characterized by preparation *****.

[Claim 15]

The aforementioned lock release module, When a user relevant to said first computer paraphernalia judges whether you are the same user as a user relevant to said second computer paraphernalia. The system according to claim 14 judging what said first computer paraphernalia and said second computer paraphernalia recognize mutually.

[Claim 16]

The system according to claim 14, wherein the aforementioned lock release module is further constituted, without receiving a user input corresponding to a password relevant to said second computer paraphernalia so that lock release of said second computer paraphernalia may be carried out automatically.

[Claim 17]

When said first computer paraphernalia are combined with said second computer paraphernalia, the aforementioned lock release module, The system according to claim 14 which is further constituted so that it may decide on recognition partnership between said first computer paraphernalia and said second computer paraphernalia, and is characterized by the aforementioned recognition partnership being a thing based on the aforementioned recognition information.

[Claim 18]

It is a computer readable medium including a computer executable instruction for carrying out lock release of the computer paraphernalia, and is the aforementioned computer executable instruction,

A command in which it is the command which combines first computer paraphernalia with second computer paraphernalia, password lock release of said first computer paraphernalia is carried out, and the password lock of said second computer paraphernalia is carried out,
It is the command which judges whether said first computer paraphernalia and said second computer paraphernalia recognize mutually based on recognition information relevant to said first computer paraphernalia and said second computer paraphernalia, A command which instructs whether the aforementioned recognition information is the user as a user relevant to said second computer paraphernalia with same user relevant to said first computer paraphernalia, A command which carries out lock release of said second computer

paraphernalia when said first computer paraphernalia and said second computer paraphernalia recognize mutually

A computer readable medium characterized by preparation *****.

[Claim 19]

The computer readable medium according to claim 18, wherein the aforementioned lock release command is further provided with a command which carries out lock release of said second computer paraphernalia automatically, without receiving a user input corresponding to a password relevant to said second computer paraphernalia.

[Claim 20]

When said first computer paraphernalia are combined with said second computer paraphernalia, The computer readable medium according to claim 18 which is further provided with a command which decides on recognition partnership between said first computer paraphernalia and said second computer paraphernalia, and is characterized by the aforementioned recognition partnership being a thing based on the aforementioned recognition information.

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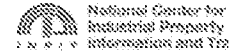
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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[Field of the Invention]

[0001]

The present invention relates to the method and system which carry out lock release of the computer paraphernalia.

[Background of the Invention]

[0002]

Digital security is the main pending issues for many organizations. It prevents that computer paraphernalia access the information stored on the equipment with which equipment was locked and the user ungranted a permission was locked when password protection is carried out generally and a power supply is switched on. When synchronizing two sets of computer paraphernalia, before starting a synchronization, it is necessary to carry out password lock release of both of equipment. Some kinds, such as a Personal Digital Assistant (PDA), of computer paraphernalia are designed for quick references. However, whenever it accesses PDA, supposing a user needs to enter a password, the practicality of a quick reference function will be deteriorated. Many people use various computer paraphernalia from every day generally. Especially the thing for which the password for every equipment is memorized becomes a heavy burden for a user, when changing a password periodically from an organization is called for.

[Description of the Invention]

[Problem to be solved by the invention]

[0003]

The method and system for carrying out lock release of the computer paraphernalia are provided.

[Means for solving problem]

[0004]

Password lock release of the first computer paraphernalia can be carried out by entering the password relevant to first computer paraphernalia. The password lock of the second computer paraphernalia can be carried out. Second computer paraphernalia have a possibility of relating to the same user as the user of first computer paraphernalia. First computer paraphernalia are combined with second computer paraphernalia. Password lock release of the second computer paraphernalia is carried out automatically, without a user entering the password relevant to second computer paraphernalia, when it is recognized mutually that these pieces of equipment relates to the same user. These computer paraphernalia can recognize relating to the same permission user mutually based on recognition information, including equipment ID, a key / certificate recognition partnership, or password verification.

[0005]

According to one modes of the present invention, first computer paraphernalia are combined with second computer paraphernalia. Password lock release of the first computer paraphernalia is carried out, and the password lock of the second computer paraphernalia is carried out. The judgment of whether first computer paraphernalia and second computer paraphernalia



recognize mutually based on the recognition information relevant to first computer paraphernalia and second computer paraphernalia is made. When first computer paraphernalia and second computer paraphernalia recognize mutually, lock release of the second computer paraphernalia is carried out.

[0006]

The system and computer readable medium for enforcing these methods are contained in other modes of the present invention. The above-mentioned summary of this disclosure is not what meant describing all mounting of this disclosure. The following Drawings and a detailed description illustrate these mounting in details more.

[Best Mode of Carrying Out the Invention]

[0007]

This disclosure is related with the method and system for carrying out lock release of the computer paraphernalia. Password lock release can be carried out by entering the password relevant to first computer paraphernalia for first computer paraphernalia. The password lock of the second computer paraphernalia can be carried out. First computer paraphernalia are combined with second computer paraphernalia. Password lock release of the second computer paraphernalia is carried out automatically, without a user entering the password relevant to second computer paraphernalia, when it is recognized mutually that these pieces of equipment relates to the same user.

[0008]

Next, it describes more nearly completely, referring to the Drawings of attachment of the embodiments of the present invention by the following. Attached Drawings form some of these Descriptions, and show the detailed exemplary embodiment for carrying out the present invention as illustration. However, the present invention can be carried out with many other forms, and should not be interpreted as what is limited to the embodiment of a description on these Descriptions. Rather, this disclosure becomes a thing without completeness and leakage, and these embodiments are provided so that the range of the present invention can be completely transmitted to a person skilled in the art. The present invention can especially be carried out as a method or equipment. Therefore, the present invention can take the form of the embodiment which combined a perfect hardware embodiment, a perfect software embodiment or software, and a hardware modes. Therefore, the following detailed descriptions should not be interpreted in the meaning of limitation.

[0009]

Exemplary operating environment

Reference of Fig.1 will contain computer paraphernalia, such as the computer paraphernalia 100, in the 1 illustration system for carrying out the present invention. The computer paraphernalia 100 can be constituted as the client which has a dialog with the data in a network based on a collaboration system, a server, mobile equipment, or other computer paraphernalia of any. In very fundamental composition, the computer paraphernalia 100 contain at least one handling unit 102 and the system memory 104 generally. even if the system memory 104 is volatility (for example, RAM) according to the strict composition and kind of computer paraphernalia -- being nonvolatile (for example, ROM, a flash memory, etc.) -- it is -- even if -- or the both exist -- it may combine and come out. Generally, the system memory 104 can contain the operating system 105 and one or more applications 106, and can contain the program data 107 further. About the device lock release module 108, although described in detail, referring to Fig.2 and 3 below, it is mounted in the inside of the application 106.

[0010]

The computer paraphernalia 100 can include an additional mechanism and function. For example, the computer paraphernalia 100 can also contain the data storage equipment of an addition (removable and/or fixing), for example, a magnetic disk, an optical disc, or a tape. The memory storage of such an addition is shown by Fig.1 as the removable storage device 109 and the fixed storage 110. A computer storage medium contains the volatility, the fixity, and the medium of removable and fixing which were mounted with any method or technology for memorizing the information on the data of a computer-readable command, a data structure, a program module, and others, etc. The system memory 104, the removable storage device 109, and the fixed storage 110 are the examples of a computer storage medium altogether. Although not restricted to a computer storage medium at this, RAM, ROM, EEPROM, a flash memory, or other memory technology products, CD-ROM, DVD (digital versatile disks), Or other media of any which it can be used since other optical disk memories, a magnetic cassette, magnetic tape, a magnetic disc memory, other magnetic storage devices, or desired information is stored, and can be accessed by computer 100 are contained. Each such a computer storage medium may be some equipment 100. The computer paraphernalia 100 can contain the input devices 112, such as a keyboard, a mouse, a pen, a speech input system, and a touch input device. The output units 114, such as a display, a loudspeaker, and a printer, can also be included.

[0011]

The computer paraphernalia 100 include the communication interface 116 which enables the equipment to communicate with other computer paraphernalia 118 via a network etc. again. Although not restricted to a Local Area Network, a Wide Area Network, and these, other large scale networks, such as intranet and extranet, are included in a network. The communication interface 116 is an example of communication media. Generally, communication media contain

one of distribute information media while being able to carry out a computer-readable command, a data structure, a program module, or other data in the form of modulation data signals, such as a subcarrier or other transmission mechanisms. The term of a "modulation data signal" means the signal which was set up or changed by a method which codes information in a signal and which has one or more signal characteristics. As not a meaning but the example of limitation, communication media contain radio media, such as cable media, such as a wired network or direct wired connection, sound, RF, and a radio medium of infrared and others. The term of the computer readable medium used on these Descriptions contains both a storage medium and communication media.

[0012]

Lock release of computer paraphernalia

This disclosure is described in computer executable instructions, such as a software module performed on computer paraphernalia, or the general context of a component. Generally, a software module includes the routine which carries out a specific task or mounts a specific abstract data type, a program, an object, a component, a data structure, etc. Although it describes in this Description about the command or component in which computer execution is possible, the present invention can also mount firmware, a special-purpose-logic circuit, etc. similarly using program mechanics other than software.

[0013]

Fig.2 is a functional block diagram of the system which carries out lock release of the computer paraphernalia. Lock release of the computer paraphernalia by which the password lock was carried out can be carried out by combining the computer paraphernalia in relation to the same user as the locked equipment by which password lock release was carried out with the locked equipment. Computer paraphernalia may be any equipment in which password protection, such as the personal computer 200, Personal Digital Assistant (PDA) 210, the mobile phone 220, and the digital camera 230, is possible. Any computer paraphernalia can be combined with other computer paraphernalia of any via wireless connection or wired connection.

[0014]

The personal computer 200 contains the user interface 205, PDA210 contains the user interface 215, the mobile phone 220 contains the user interface 225, and the digital camera 230 contains the user interface 235. Each computer paraphernalia can be related with recognition information, including equipment ID (for example, globally unique identifier (GUID)), a password, etc. For example, the personal computer 200 is related with GUID1 and password PW1, PDA210 is related with GUID2 and password PW2, and the mobile phone 220 is related with GUID3 and password PW3. Two sets of computer paraphernalia can decide on recognition partnership, such as public-key-encryption-ized partnership and digital certificate partnership. For example, the personal computer 205 is related with a digital certificate/key pair (DC1/KEY1). Recognition partnership is established when a personal computer transmits KEY1 to other computer paraphernalia (for example, mobile phone 220).

[0015]

At least two sets of computer paraphernalia can be synchronized, and the common informations stored on those computer paraphernalia can be maintained at the newest state. For example, PDA210 can be synchronized with the personal computer 200, when it is placed on the docking station combined with the personal computer 200. However, synchronization may not be started until password lock release of both of computer paraphernalia is carried out.

[0016]

By making it synchronize with the computer paraphernalia by which lock release was carried out, the recognition information relevant to each computer paraphernalia can be linked so that the lock release of the locked computer paraphernalia can be carried out. For example, the user can do lock release of PDA210 by inputting password PW2. The password lock of the personal computer 200 is carried out. The user can go into the nearby personal computer 200 using PDA210. PDA210 is combinable with the personal computer 200 on radio. PDA210 can recognize that the personal computer 200 is connected with the same permission user based on recognition information. Therefore, PDA210 can carry out password lock release of the personal computer 200 automatically, without needing for a user to do the direct entry of the password (namely, PW1) of the personal computer 200.

[0017]

According to one embodiment, it can recognize mutually that each computer paraphernalia relate to the same permission user by equipment ID. Equipment ID is generally used by synchronous programs developed by Microsoft Corporation (Microsoft Corporation) of Redmond, Washington, U.S., such as ActiveSync (registered trademark). Between two sets of computer paraphernalia, synchronous partnership can be established, when those pieces of equipment is combined mutually first. For example, PDA210 can be put on the docking station combined with the personal computer 200 first (for example, between setup operation). PDA210 and the personal computer 200 can decide on recognition partnership. Equipment ID () relevant to [in recognition partnership] PDA210 at one embodiment That is, it is established, when GUID2 is transmitted to the personal computer 200 and equipment ID (namely, GUID1) relevant to the personal computer 200 is transmitted to PDA210. The synchronous program on each computer paraphernalia manages the kind of data which should store received GUID and should synchronize with corresponding computer paraphernalia. By using such GUID, when each computer paraphernalia are combined mutually later, it becomes possible to recognize mutually that they relate to the same permission user.

[0018]

According to other embodiments, computer paraphernalia can recognize being connected with the same permission user mutually by public-key-encryption-izing and digital certificate technology (for example, S/MIME). The user can establish the key / certificate recognition partnership between the personal computer 200 and the mobile phone 220 as mentioned above. KEY1 can be transmitted to the mobile phone 220 from the personal computer 200, when the personal computers (for example, between synchronization etc.) 200 are combined with the mobile phone 220. Only the computer paraphernalia relevant to the same key / certificate partnership can be synchronized with the personal computer 200 (or combination). For example, the mobile phone 220 may try with a wax in the personal computer 200 and a synchronization. Before being able to be made to carry out password lock release of the personal computer 200, the key (for example, KEY1) stored in the mobile phone 220 must be checked with the corresponding digital certificate (for example, DC1) relevant to the personal computer 200. When the certificate in which a key corresponds is not matched, access to the personal computer 200 is not permitted to the user. When access to the personal computer 200 is not permitted to the user relevant to the mobile phone 220, the key may not match a certificate (for example, since the mobile phone 220 has not been combined with the personal computer 200). According to one embodiment, when the term of a key / certificate pair breaks, a key may not match a certificate. In other embodiments, a key/certificate can be automatically changed, after a predetermined period (for example, 30 days) passes. By changing the value relevant to a key / certificate partnership, security infringement can be pressed down at worst.

[0019]

According to other embodiments, it can recognize mutually that each computer paraphernalia relate to the same permission user by password verification. When a synchronization, or a key / certificate technology cannot be used between computer paraphernalia, password verification is sometimes useful. When computer paraphernalia are connected to the personal computer 200 first (for example, between setup processings), a user is instructed so that security setting out of the computer paraphernalia may be established. For example, the user can combine the digital camera 230 with the personal computer 200. The digital camera 230 may be unable to recognize other computer paraphernalia by equipment ID, or a key / certificate partnership. The password (namely, PW1) relevant to the personal computer 200 can be transmitted to the digital camera 230. Therefore, when two pieces of equipment are combined mutually later, the personal computer 200 can recognize the digital camera 230 based on password PW1. As other examples, password verification is applicable to physical keys, such as a biometric sensor, speech recognition, and a card key reader.

[0020]

The password relevant to the personal computer 200 can be made to link in one embodiment with a permission user's login certificate for accessing the server to which it was linked by the personal computer 200. When a user changes the password relevant to the personal computer 200, a corresponding server password can also be changed. According to other embodiments, when the password of computer paraphernalia is changed, the password corresponding to each linked computer paraphernalia can also be updated at any time.

[0021]

Computer paraphernalia are managed for the user interfaces 205, 215, 225, and 235, and in order to enable sharing of a password, it is sharable between computer paraphernalia. For example, the user interface 205 includes the recognition information (for example, GUID1, PW1, DC1/KEY1) relevant to the personal computer 200, and the recognition information (for example, GUID1, GUID3) relevant to the recognized computer paraphernalia.

[0022]

The user can have a dialog with a user interface, and can constitute setting out relevant to the password lock / lock release of corresponding computer paraphernalia. For example, the user can establish setting out which carries out the password lock of those computers automatically, when connection release of two sets of the computer paraphernalia is carried out. In other examples, the user can establish setting out which carries out the password lock of one set only of the computer paraphernalia (or both are not made to lock), when connection release of the computer paraphernalia is carried out. In other examples, the user can also constitute setting out which locks the equipment manually, while computer paraphernalia are combined with other computer paraphernalia.

[0023]

Fig.3 is the figure showing the operation flow which shows the processing for carrying out lock release of the computer paraphernalia. This processing starts with begin block and the password lock of first computer paraphernalia and second computer paraphernalia is carried out with that block. According to one embodiment, each computer paraphernalia can decide on recognition partnership (for example, synchronous partnership, or a key / certificate partnership), when those pieces of equipment is combined mutually first.

[0024]

The security level relevant to the 1st and second computer paraphernalia can consist of the blocks 300. For example, after connection release of those computer paraphernalia is carried out for a user, It can be set up whether password-lock-release-keeping only one piece of equipment carried out for whether both of equipment being password-lock-release-kept carried out or both of the equipment is password-lock-release-kept carried out. In other examples, the user can set up the time interval of by what frequency to update a password or a key /

certificate pair. According to one embodiment, the user can establish the kinds (for example, equipment ID, a key / certificate pair, password verification, etc.) of recognition information used to judge whether computer paraphernalia recognize each other. According to other embodiments, using the user interface shared between first computer paraphernalia and second computer paraphernalia, a security level is set up.

[0025]

It shifts to the block 310 and a password is related with these computer paraphernalia. According to one embodiment, a user assigns the password in first computer paraphernalia, and assigns other passwords to second computer paraphernalia. It shifts to the block 320 and password lock release of the first computer paraphernalia is carried out. When a user enters the password relevant to first computer paraphernalia, password lock release of the first computer paraphernalia is carried out.

[0026]

It shifts to the block 330 and first computer paraphernalia are combined with second computer paraphernalia. Connection is made by radio or wired connection. For example, PDA is connectable with a personal computer via a synchronous docking station.

[0027]

It is judged whether it recognizes that move to the decision block 340 and first computer paraphernalia and second computer paraphernalia relate to the same user as mutual. A judgment is made based on the recognition information established by the user.

[0028]

According to one embodiment, it recognizes mutually that these computer paraphernalia relate to the same user based on corresponding equipment ID. For example, using GUID relevant to each computer paraphernalia, it can be judged whether those pieces of equipment has joined mutually together before (for example, when deciding on synchronous partnership). When GUID relevant to first computer paraphernalia is in agreement with GUID relevant to second computer paraphernalia, it recognizes mutually that these computer paraphernalia relate to the same user. When GUID relevant to first computer paraphernalia is not in agreement with GUID relevant to second computer paraphernalia, it is not mutually recognized as these pieces of equipment relating to the same user.

[0029]

According to other embodiments, it recognizes mutually that these computer paraphernalia relate to the same user based on successful key / certificate matching. For example, the key relevant to first computer paraphernalia is transmitted to second computer paraphernalia. When a key matches the certificate relevant to second computer paraphernalia, it is mutually recognized as these computer paraphernalia relating to the same user. When a key does not match a certificate, it is not mutually recognized as these pieces of equipment relating to the same user.

[0030]

According to other embodiments, it recognizes mutually that these computer paraphernalia relate to the same user based on password verification. For example, the password relevant to first computer paraphernalia can be related with second computer paraphernalia when these pieces of equipment joins mutually together first. These computer paraphernalia can recognize relating to the same user based on a password mutually, when those pieces of equipment is combined mutually later. As other examples, password verification is applicable to physical keys, such as a biometric sensor, speech recognition, and a card key reader. When it has not been mutually recognized as these computer paraphernalia relating to the same user, processing is completed with an end block. When it has been mutually recognized as these computer paraphernalia relating to the same user, processing follows the block 350.

[0031]

Password lock release is carried out automatically, without second computer paraphernalia inputting what kind of information relevant to the password of second computer paraphernalia in a user following the block 350. Next, connection release of these computer paraphernalia can be carried out. Processing is continued according to the set-up security level. For example, the equipment of one side or both can also be password-lock-release-kept carried out, and the password lock of both of equipment can also be carried out. In other examples, after a predetermined period passes, it can also instruct to a user so that the password relevant to equipment may be changed. Subsequently, processing follows an end block.

[0032]

The above-mentioned details, an example, and data provide the perfect description about manufacture and use of a constituent of the present invention. Since many embodiments about the present invention can be carried out without deviating from the meaning and the range of the present invention, the present invention shall exist in an attached scope of the claim.

[Brief Description of the Drawings]

[0033]

[Drawing 1]It is the figure showing the computer paraphernalia which can be used according to the exemplary embodiment of the present invention.

[Drawing 2]It is a functional block diagram of the system which carries out lock release of the computer paraphernalia by at least one function of the present invention.

[Drawing 3]It is an operation flow figure by at least one function of the present invention showing the processing which carries out lock release of the computer paraphernalia.

[Explanations of letters or numerals]

[0034]

100 Computer paraphernalia

102 Handling unit

104 System memory

105 Operating system

106 Application (group)

107 Program data

108 Device lock release module

109 Removable storage device

110 Fixed storage

112 Input device (group)

114 Output unit (group)

116 Communication interface (group)

118 Other computer paraphernalia

200 Personal computer

205 User interface

210 Personal Digital Assistant (PDA)

215 User interface

220 Mobile phone

225 User interface

230 Digital camera

235 User interface

300 Set up a security level.

310 Relate computer paraphernalia with a password.

320 Carry out password lock release of the first computer paraphernalia.

330 Combine first computer paraphernalia with second computer paraphernalia.

340 Do each computer paraphernalia relate to the same user?

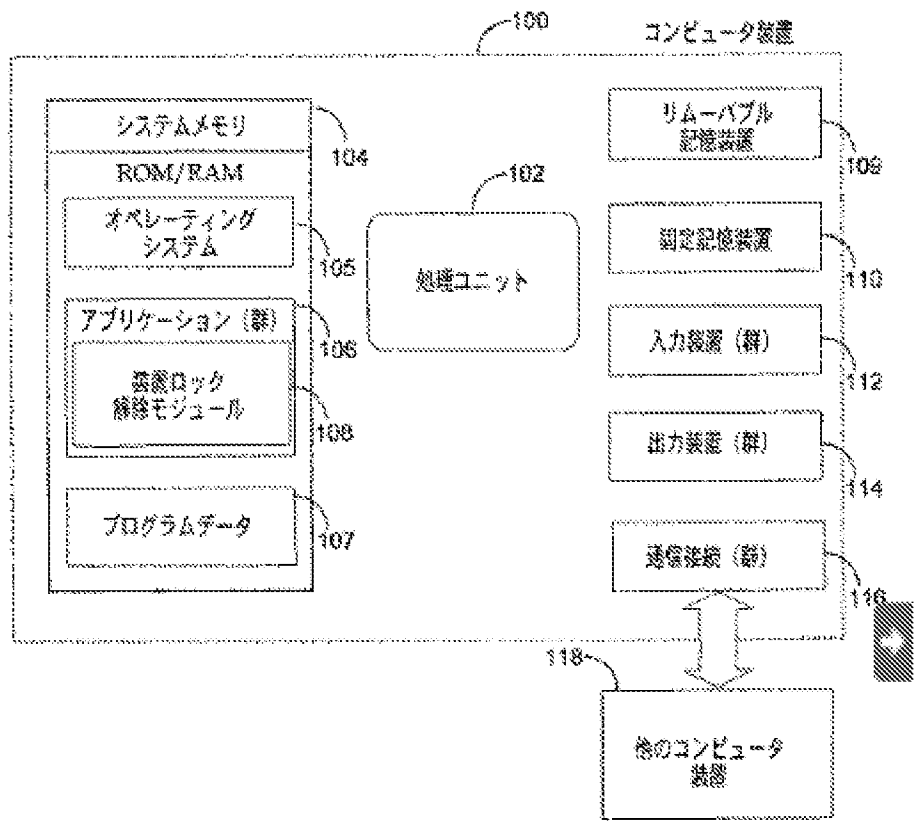
350 Carry out password lock release of the second computer paraphernalia.

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[Go return to the top of this.](#)

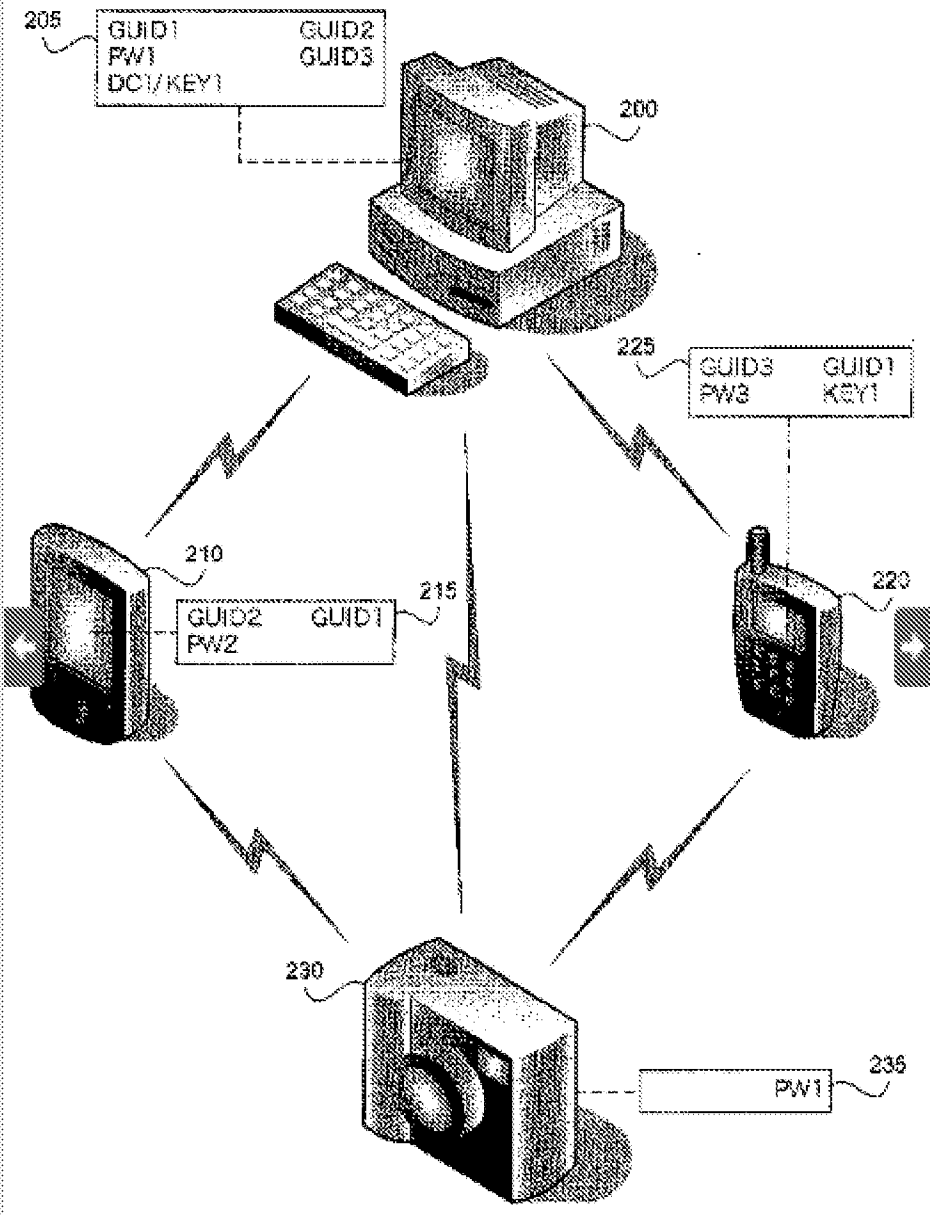
[Notice on Usage](#) [Privacy Policy](#) [Questionnaire](#)

[Translation done.]




Representative drawing

drawing 1



drawing 2

Search Notes 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

CPC- SEARCHED		
Symbol	Date	Examiner
H04W12/06	12/15/2014	DS
H04L63/0492	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS


CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	26.1, 41.2	12/15/2014	DS

SEARCH NOTES		
Search Notes	Date	Examiner
EAST (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	12/15/2014	DS
Inventor/Assignee search in EAST and eDAN	12/15/2014	DS
Consulted with Lewis West	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS
Updated search	4/22/2017	DS

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

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Index of Claims 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

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

CLAIM		DATE								
Final	Original	12/15/2014	02/04/2016	07/19/2016	12/11/2016	04/20/2017				
	1	✓	✓	✓	✓	✓				
	2	✓	-	-	-	-				
	3	✓	✓	✓	✓	✓				
	4	✓	✓	✓	✓	✓				
	5	✓	✓	✓	✓	✓				
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	7	✓	-	-	-	-				
	8	✓	✓	✓	✓	✓				
	9	✓	-	-	-	-				
	10	✓	✓	✓	✓	✓				
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	15				✓	✓				
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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S654	2	"20120280790".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/22 10:10
S653	0	"2010075656.pn",	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/19 19:51
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S642	0	(secure authenticat\$3) with (fingerprint biometric) same (nfc ("near" adj field) bluetooth (short\$1range)) near5 (lock\$3 unlock\$3) near3 (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S641	30	(phone mobile portable) near5 (nfc ("near" adj field) bluetooth (short\$1range)) near5 (lock\$3 unlock\$3) near3 (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
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		with ((second another) near3 (phone mobile)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
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S633	37	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3 (trun adj on)) with ((television tv)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
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S624	1199	(secure authenticat\$3) with (face image) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S623	4	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S622	5	"8825021".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S621	10	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S620	3	"20130095802".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S619	2	"8041340".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

			DERWENT; IBM_TDB			
S618	12	(authenticat\$3 recogni\$4 match\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S617	4	(authenticat\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S616	6675	(authenticat\$3) with (face) and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S615	0	14/874535	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S614	2	("6148205").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S613	106	("20030122655" "20020078393" "6594762" "5646593" "6144314" "20020123325" "6433685" "6326891" "20020121975" "6804699" "6148205" "5712973" "5960085" "6175922" "4639726" "20010002211" "20010007817" "20020016838" "20020121975" "6609656" "6901057" "6087937" "6804699" "5842118" "6150928" "20020077060" "6678728" "6408172" "6081704" "20020091785" "6614350" "6631271" "6449726" "6124805" "6174205" "6181284" "20020077077" "20010053947" "5345383").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S612	8	("20020108058" "20040056759" "20040192303" "20090183241" "6643781" "7415605" "7607015" "7674298").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S611	32	("7674298").URPN.	USPAT	OR	ON	2016/12/11 17:02
S610	220	S609 and (lock\$3 un-lock\$3 unlock\$3) with (short-range (short adj range) bluetooth blue-tooth NFC ("near" adj	US-PGPUB; USPAT; USOCR;	OR	ON	2016/12/11 17:02

		field))	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S609	75328	(H04W12/\$).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S608	1347	(H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S607	8863	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S606	24	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S605	24	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S604	7812	(H04M1/66 H04B7/00 H04L9/32).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S603	25	("20090232041" "6535494" "7817588" "8027666" "7266373"	US-PGPUB; USPAT;	OR	ON	2016/12/11 17:02

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		"7110747" "20050037734" "20070202807" "7460863").PN.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S602	5	S600 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S601	76	S600 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S600	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S599	0	S597 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S598	12	S597 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S597	181	S596 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S596	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S595	13	S593 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02

S594	49	S593 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S593	103	S592 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S592	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S591	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S590	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S589	22	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short- range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S588	21	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short- range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S587	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S586	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

			DERWENT; IBM_TDB			
S585	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S584	11	S582 and S583	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S583	44839	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S582	902	S581 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S581	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S580	5	("6070240" "6747546").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S579	19	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$ or US-20060224882- \$).did. or (US-8732458-\$ or US- 8818335-\$ or US-8526915-\$ or US- 8222990-\$ or US-8090364-\$ or US- 8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S578	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

			DERWENT; IBM_TDB			
S577	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S576	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S575	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S574	3258	(H04W12/00 H04L9/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S573	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S572	1347	H04W12/00.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S571	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S570	18	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02

		8019322-\$).did.				
S569	122	S568 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S568	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S567	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S566	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S565	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S564	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S563	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S562	63	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S561	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S560	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S559	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S558	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S557	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S556	122	S555 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S555	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S554	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S553	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S552	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S551	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S550	12	S548 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

			EPO; JPO; DERWENT; IBM_TDB			
S549	149	S548 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S548	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S547	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S546	63	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S545	0	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S544	930	NI SHI JI MA.in. and Hideo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S543	19	NI SHI JI MA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S542	32	HI RABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S541	409	HI RABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT;	OR	ON	2016/12/11 17:02

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S540	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S539	5	S537 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S538	76	S537 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S537	37658	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S536	0	S534 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S535	12	S534 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S534	181	S533 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S533	37658	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02

S532	13	S530 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S531	49	S530 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S530	103	S529 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S529	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S528	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S527	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S526	22	@ad< "20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short-range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S525	21	@ad< "20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S524	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

			DERWENT; IBM_TDB			
S523	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S522	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S521	11	S519 and S520	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S520	44839	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentikat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S519	902	S518 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S518	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S517	5	("6070240" "6747546").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S516	19	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$ or US-20060224882- \$.did. or (US-8732458-\$ or US- 8818335-\$ or US-8526915-\$ or US-	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02

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		8222990-\$ or US-8090364-\$ or US-8019322-\$).did.				
S515	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S514	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S513	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S512	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S511	3258	(H04W12/00 H04L9/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S510	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S509	1347	H04W12/00.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S508	9773	(455/26.1 455/41.2).cls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S507	18	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02

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		\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.				
S506	122	S505 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S505	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S504	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S503	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S502	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S501	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S500	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S499	63	NI SHI JIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S498	0	NI SHI JIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2016/12/11 17:02

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			IBM_TDB			
S497	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S496	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S495	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S494	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S493	122	S492 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S492	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S491	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S490	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S489	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02

S488	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S487	12	S485 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S486	149	S485 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S485	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S484	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S483	63	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S482	0	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S481	930	NI SHI JI MA.in. and Hideo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S480	19	NI SHI JI MA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S479	32	HI RABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR;	OR	ON	2016/12/11 17:02

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S478	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S477	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S476	89	(secure authenticat\$3) with (face image) and (455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S475	1199	(secure authenticat\$3) with (face image) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S474	4	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S473	5	"8825021".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S472	10	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S471	3	"20130095802".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S470	2	"8041340".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S469	12	(authenticat\$3 recogni\$4 match\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S468	4	(authenticat\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S467	6675	(authenticat\$3) with (face) and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S466	0	14/874535	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S465	2	("6148205").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S464	106	("20030122655" "20020078393" "6594762" "5646593" "6144314" "20020123325" "6433685" "6326891" "20020121975" "6804699" "6148205" "5712973" "5960085" "6175922" "4639726" "20010002211" "20010007817" "20020016838" "20020121975" "6609656" "6901057" "6087937" "6804699" "5842118" "6150928" "20020077060" "6678728" "6408172" "6081704" "20020091785" "6614350" "6631271" "6449726" "6124805" "6174205" "6181284" "20020077077" "20010053947" "5345383").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S463	8	("20020108058" "20040056759" "20040192303" "20090183241" "6643781" "7415605" "7607015" "7674298").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S462	32	("7674298").URPN.	USPAT	OR	ON	2016/12/11 17:02
S461	220	S460 and (lock\$3 un-lock\$3 unlock\$3) with (short-range (short adj range) bluetooth blue-tooth NFC ("near" adj	US-PGPUB; USPAT; USOCR;	OR	ON	2016/12/11 17:02

		field))	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S460	75328	(H04W12/\$).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S459	1347	(H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S458	8863	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S457	24	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S456	24	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S455	7812	(H04M1/66 H04B7/00 H04L9/32).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S454	25	("20090232041" "6535494" "7817588" "8027666" "7266373"	US-PGPUB; USPAT;	OR	ON	2016/12/11 17:02

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		"7110747" "20050037734" "20070202807" "7460863").PN.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S453	5	S451 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S452	76	S451 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S451	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S450	0	S448 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S449	12	S448 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S448	181	S447 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S447	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S446	13	S444 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02

S445	49	S444 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S444	103	S443 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S443	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S442	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S441	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S440	22	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short-range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S439	21	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S438	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S437	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S436	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S435	11	S433 and S434	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S434	44839	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S433	902	S432 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S432	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S431	5	("6070240" "6747546").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S430	19	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$ or US-20060224882- \$).did. or (US-8732458-\$ or US- 8818335-\$ or US-8526915-\$ or US- 8222990-\$ or US-8090364-\$ or US- 8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S429	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

			DERWENT; IBM_TDB			
S428	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S427	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S426	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S425	3258	(H04W12/00 H04L9/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S424	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S423	1347	H04W12/00.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S422	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S421	18	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02

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		8019322-\$).did.				
S420	122	S419 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S419	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S418	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S417	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S416	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S415	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S414	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S413	63	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S412	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S411	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S410	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S409	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S408	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S407	122	S406 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S406	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S405	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S404	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S403	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S402	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S401	12	S399 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

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			EPO; JPO; DERWENT; IBM_TDB			
S400	149	S399 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S399	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S398	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S397	63	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S396	0	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S395	930	NI SHI JI MA.in. and Hideo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S394	19	NI SHI JI MA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S393	32	HI RABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S392	409	HI RABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT;	OR	ON	2016/12/11 17:02

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S391	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S390	5	S388 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S389	76	S388 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S388	37658	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S387	0	S385 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S386	12	S385 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S385	181	S384 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S384	37658	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02

S383	13	S381 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S382	49	S381 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S381	103	S380 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S380	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S379	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S378	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S377	22	@ad< "20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short-range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S376	21	@ad< "20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S375	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S374	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S373	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S372	11	S370 and S371	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S371	44839	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentikat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S370	902	S369 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S369	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S368	5	("6070240" "6747546").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S367	19	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$ or US-20060224882- \$.did. or (US-8732458-\$ or US- 8818335-\$ or US-8526915-\$ or US-	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02

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		8222990-\$ or US-8090364-\$ or US-8019322-\$).did.				
S366	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S365	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S364	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S363	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S362	3258	(H04W12/00 H04L9/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S361	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S360	1347	H04W12/00.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S359	9773	(455/26.1 455/41.2).cls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S358	18	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02

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		\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.				
S357	122	S356 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentica\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S356	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S355	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S354	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S353	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S352	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S351	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S350	63	NI SHI JIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S349	0	NI SHI JIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2016/12/11 17:02

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			IBM_TDB			
S348	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S347	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S346	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S345	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S344	122	S343 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S343	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S342	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S341	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S340	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02

S339	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S338	12	S336 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S337	149	S336 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S336	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S335	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S334	63	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S333	0	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S332	930	NI SHI JI MA.in. and Hideo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S331	19	NI SHI JI MA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S330	32	HI RABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR;	OR	ON	2016/12/11 17:02

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S329	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S328	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S327	11	("20120143707" "7928829" "20070186106" "20110320352" "20050198029" "20060236373" "20020023215" "20070101153" "8145194" "20090191811" "6396412" "20090191811" "20060236373").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 11:03
S326	14	("8249556" "8249556" "20110214158" "20130183936" "8364963" "20030199267" "20140149746" "7756478" "8498618" "8249558" "20080196086" "20090021350" "7597250" "7756478" "20030025603" "20090249478").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/10 22:19
S325	2	("20150058942" "20150163221").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/10 22:14
S324	0	("20150058942" "20150163221").pn.	USPAT	OR	ON	2016/12/10 22:14

EAST Search History (I nterference)

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4/ 23/ 2017 6:42:15 PM**C:\ Users\ dshiu\ Documents\ EAST\ Workspaces\ 13874535.wsp**

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number	13/874,535
	Filing Date	05-01-2013
	Inventor(s)	M. HIRABAYASHI et al.
	Art Unit	2648
	Examiner Name	SHIUE, DONG-CHANG
	Attorney Docket Number	072388.0418

FOREIGN PATENT DOCUMENTS				
Exam. Initial.	No.	Document No.	Issue/Publication Date	Applicant(s)
	1.	JP 2008-227758 A	9-25-2008	NEC Corp

OTHER DOCUMENTS (Non-patent literature)

Exam. Initial.	No.	Include name of Author, Title, Date, Pertinent Pages, Etc.
	2.	Office Action mailed February 28, 2017, which issued during the prosecution of Japanese Patent Application No. 2015-241178, which corresponds to the present application (English translation attached).

Examiner Signature	/DONG-CHANG SHIUE/	Date Considered	04/20/2017
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* Examiner: Initial citation 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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hirabayashi, et al. Examiner: Shiue, Dong-Chang
Serial No.: 13/874,535 Confirmation No.: 9744
Filed: May 1, 2013 Art Unit: 2648
Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF

STATEMENT OF THE SUBSTANCE OF THE INTERVIEW

FILED ELECTRONICALLY VIA EFS

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

Sir:

In accordance with M.P.E.P. § 713.04, Applicant provides this Statement in response to the Examiner's Applicant-Initiated Interview Summary dated March 15, 2017. Applicant acknowledges with appreciation the telephonic interview held between Supervisory Patent Examiner Wesley Kim, Examiner Dong-Chang Shiue, Applicant's Attorney Henry Chen, and Hirokazu Ishii on March 7, 2017. Applicant has reviewed and agrees with the Examiner's Summary of the Interview.

CONCLUSION

Applicant authorizes the Commissioner to charge any additional fees and/or credit any overpayments associated with this paper to Baker Botts L.L.P., Deposit Account No. 02-4377, Ref. No. 070050.0418. Further, if a fee is required for an extension of time under 37 C.F.R. § 1.136 not provided for above, Applicant requests such extension and authorizes the charging of the extension fee to Baker Botts L.L.P., Deposit Account No. 02-4377, Ref. No. 070050.0418.

Respectfully submitted,

BAKER BOTTS L.L.P.

Dated: April 11, 2017

By: /Henry Chen/
Henry Chen
Registration No. 67,587

Attorney for Applicant

Baker Botts L.L.P.
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Electronic Acknowledgement Receipt

EFS ID:	28891247
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Henry Chen/Hiroko Lavietes
Filer Authorized By:	Henry Chen
Attorney Docket Number:	072388.0418
Receipt Date:	11-APR-2017
Filing Date:	01-MAY-2013
Time Stamp:	12:57:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Applicant summary of interview with examiner	Statement.pdf	101673 a149ecceb0d9dde663bcd250075098e84c6bb8f7	no	2

Warnings:

IPR2020-00202

Information:	
Total Files Size (in bytes):	101673
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	

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

Application Number	13/874,535	Filing Date	2013-05-01	Docket Number (if applicable)	072388.0418	Art Unit	2648
First Named Inventor	Masayuki HIRABAYASHI			Examiner Name	Dong-Chang Shiue		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not comply with the requirements of 35 U.S.C. 371, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV.

SUBMISSION REQUIRED UNDER 37 CFR 1.114

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

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

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

Other _____

Enclosed

Amendment/Reply

Information Disclosure Statement (IDS)

Affidavit(s)/ Declaration(s)

Other _____

MISCELLANEOUS

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

Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 024377

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Patent Practitioner Signature

Applicant Signature

Signature of Registered U.S. Patent Practitioner			
Signature	Henry Chen/	Date (YYYY-MM-DD)	2017-03-17
Name	Henry Chen	Registration Number	67587

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hirabayashi, *et al.* Examiner: Shiue, Dong-Chang
Serial No.: 13/874,535 Confirmation No.: 9744
Filed: May 1, 2013 Art Unit: 2648
Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF

AMENDMENT AND REQUEST FOR CONTINUED EXAMINATION

FILED ELECTRONICALLY

MAIL STOP AF

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

Sir:

In response to the Final Office Action dated December 22, 2016, for which a shortened statutory period of three months, ending March 22, 2017, was set in which to respond, the following amendments and remarks are submitted and reconsideration of the claim rejections is respectfully requested. A Request for Continued Examination is filed herewith.

Amendments to the Claims begin on page 2 of this document.

Remarks begin on page 7 of this document.

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A mobile terminal configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

a communication unit which performs short-range wireless communications;

a storage unit which previously stores information about another mobile terminal;

and

a control unit which switches the mobile terminal between an unlocked and a locked state based on an authentication input to the mobile terminal from a user;

wherein the control unit controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal under a predetermined condition when the following steps are performed:

performing the short-range wireless communications with the another mobile terminal by the communication unit; and

receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state ~~based on the input~~ when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit.

2. (Cancelled).

3. (Currently Amended) The mobile terminal according to claim 13, wherein:

the communication unit, based on the authentication input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

4. (Previously Presented) The mobile terminal according to claim 13, wherein:
before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user.

5. (Previously Presented) The mobile terminal according to claim 13, wherein:
the control unit performs short-range wireless communications with the another mobile terminal by the communication unit and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the storage unit and is in communication range of the short-range wireless communications by the communication unit when the mobile terminal is in a locked state

6. (Cancelled).

7. (Cancelled).

8. (Currently Amended) A method for controlling a mobile terminal to transit between an unlocked and a locked state in which a predetermined operation is limited, comprising the steps of:

performing short-range wireless communications;

storing information about another mobile terminal in a storage unit; and

transmitting information from the mobile terminal to the another mobile terminal which is for switching a state of the another terminal from a locked state to an unlocked state under a predetermined condition based on an authentication input to the mobile terminal from a user when the following steps are performed:

performing the short-range wireless communications with the another mobile terminal;

and

receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state ~~based on the input~~ when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications.

9. (Cancelled).

10. (Previously Presented) The method according to claim 14, further comprising:

based on the operation, transmitting, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

11. (Cancelled).

12. (Previously Presented) The method according to claim 14, further comprising:

performing short-range wireless communications with the another mobile terminal and setting the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the storage unit and is in communication range of the short-range wireless communications when the mobile terminal is in a locked state.

13. (Previously Presented) The mobile terminal according to claim 1, wherein:
the operation includes a biometrics authentication.

14. (Previously Presented) The method according to claim 8, wherein:
the operation includes a biometrics authentication.

15. (Currently Amended) A lock state control system which comprises a first mobile terminal and a second mobile terminal which are configured to switch between an unlocked and a locked state in which a predetermined operation is limited;

wherein the first mobile terminal comprises a communication unit which performs short-range wireless communications, a storage unit which previously stores information about the second another mobile terminal, and a control unit which switches the first mobile terminal between an unlocked and a locked state based on an authentication input to the first mobile terminal from a user; and

wherein the control unit controls the first mobile terminal to transmit information for switching a state of the second another mobile terminal from a locked state to an unlocked state to the second another mobile terminal under a predetermined condition when the following steps are performed:

performing the short-range wireless communications with the second ~~another~~ mobile terminal by the communication unit; and

receiving the authentication input to the first mobile terminal switching a state of the first mobile terminal from a locked state to an unlocked state ~~based on the input~~ when the second ~~another~~ mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit.

16. (Previously Presented) The lock state control system according to claim 15, wherein:
the operation includes a biometrics authentication.

REMARKS

Claims 1, 3-5, 8, 10, and 12-16 are pending in this application. Upon entry of this Amendment, claims 1, 3, 8, and 15 are amended. Support for the amendments may be found throughout the specification, for example in paragraphs [0029]-[0036] and figure 2 of the published application. Thus, Applicant respectfully submits that no new matter is being added by the Amendments to the Claims.

Rejection of Claims 1, 3-5, 8, 10, and 12-16 under 35 U.S.C. § 103(a)

Claims 1, 3-5, 8, 10, and 12-16 are rejected under 35 U.S.C. § 103(a) as being unpatentable over US 2013/0183936 (Smith), in view of US 2011/0086615 (Golder).

Independent claim 1 is hereby amended to recite, *inter alia*, the features “a control unit which switches the mobile terminal between an unlocked and a locked state based on an authentication input to the mobile terminal from a user,” and “wherein the control unit controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal under a predetermined condition when the following steps are performed: performing the short-range wireless communications with the another mobile terminal by the communication unit; and receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit.” In particular, the amended claim recites that the step of “receiving the authentication input to the mobile terminal switching a state of the mobile terminal from a locked state to an unlocked state” occurs “when the another mobile terminal stored in the storage unit is in communication range of

the short-range wireless communications of the communication unit.” Independent claims 8 and 15 are hereby amended to recite, *inter alia*, similar features. No such configuration is disclosed or suggested by Smith, taken alone or in combination with Golder.

Accordingly, Applicant submits that the rejection of independent claims 1, 8 and 15 under 35 U.S.C. § 103(a) should be withdrawn. Applicant submits dependent claims 3-5 and 13 are allowable at least for depending from allowable independent claim 1; dependent claims 10, 12, and 14 are allowable at least for depending from allowable independent claim 8; and dependent claim 16 is allowable at least for depending from allowable independent claim 15. Accordingly, Applicant submits that the rejection of claims 1, 3-5, 8, 10, and 12-16 under 35 U.S.C. § 103(a) should be withdrawn.

CONCLUSION

On the basis of the foregoing remarks, Applicant respectfully submits that the pending claims of the present application are allowable over the prior art of record. Applicant thus respectfully requests the previous rejections be withdrawn, and that the pending claims be allowed by the Examiner. Favorable consideration and timely allowance of this application are respectfully requested.

This Amendment is being made solely to expedite prosecution of the present application and does not constitute an acquiescence to any prior art, objections, or rejections identified by the Examiner. Applicant’s silence with regard to the Examiner’s rejections of the dependent claims constitutes a recognition by Applicant that the rejections are moot based on Applicant’s Amendment and/or Remarks regarding the independent claim from which the dependent claims depend.

Applicant authorizes the Commissioner to charge any additional fees and/or credit any overpayments associated with this paper to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418. Further, if a fee is required for an extension of time under 37 C.F.R. § 1.136 not provided for above, Applicant requests such extension and authorizes the charging of the extension fee to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418.

Respectfully submitted,

BAKER BOTTS L.L.P.

Dated: March 17, 2017

By: /Henry Chen/
Henry Chen
Registration No. 67,587

Attorney for Applicant

Baker Botts L.L.P.
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(212) 408-2597 (telephone)
(212) 259-2597 (facsimile)

Electronic Patent Application Fee Transmittal

Application Number:	13874535
Filing Date:	01-May-2013
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Filer:	Henry Chen/Hiroko Lavietes
Attorney Docket Number:	072388.0418

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1700	1700
Total in USD (\$)				1700

Electronic Acknowledgement Receipt

EFS ID:	28661012
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Henry Chen/Hiroko Lavietes
Filer Authorized By:	Henry Chen
Attorney Docket Number:	072388.0418
Receipt Date:	17-MAR-2017
Filing Date:	01-MAY-2013
Time Stamp:	12:44:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$1700
RAM confirmation Number	031717INTEFSW00010764024377
Deposit Account	024377
Authorized User	Hiroko Lavietes

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:
37 CFR 1.21 (Miscellaneous fees and charges)

IPR2020-00202

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	RCE.pdf	1349872	no	3
			c83d1bd759fe6ee7ac6f891f3742da3e3e4e2f48		
Warnings:					
Information:					
2		Amendment.pdf	154647	yes	9
			fde5192d8b8a4028fa032d9f873831c9a7ca0fb		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment Submitted/Entered with Filing of CPA/RCE		1	1	
	Claims		2	6	
	Applicant Arguments/Remarks Made in an Amendment		7	9	
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30041	no	2
			776fcf8f3357d88d3ba741b83e2f27b25113882c		
Warnings:					
Information:					
Total Files Size (in bytes):			1534560		

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New Applications Under 35 U.S.C. 111

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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	Application or Docket Number 13/874,535	Filing Date 05/01/2013	<input type="checkbox"/> To be Mailed
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ENTITY: LARGE SMALL MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A	
<input type="checkbox"/> EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A	
TOTAL CLAIMS <small>(37 CFR 1.16(i))</small>	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	minus 3 =	*	X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	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).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	03/17/2017	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR			
	Total <small>(37 CFR 1.16(i))</small>	* 11	Minus	** 20	= 0	X \$80 = 0
	Independent <small>(37 CFR 1.16(h))</small>	* 3	Minus	***3	= 0	X \$420 = 0
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						
					TOTAL ADD'L FEE	0

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

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

LIE
JASON B. EADDY

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

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UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
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Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO., EXAMINER, ART UNIT, PAPER NUMBER, NOTIFICATION DATE, DELIVERY MODE. Includes application details for Masayuki HIRABAYASHI and examiner SHIUE, DONG-CHANG.

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):

DLNYDOCKET@BAKERBOTTSCOM

Applicant-Initiated Interview Summary	Application No. 13/874,535	Applicant(s) HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	

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

(1) DONG-CHANG SHIUE.

(3) Henry Chen.

(2) Wesley Kim.

(4) Masayuki Hirabayashi.

Date of Interview: 07 March 2017.

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: Smith (US 20130183936).

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...)

The applicant's representative went over the invention and described the elements that would distinguish this invention from others. Examiner indicated that, under broadest reasonable interpretation, the input to the mobile terminal could be simply turning on the mobile terminal. No other 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.

Attachment

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

/WESLEY KIM/
Supervisory Patent Examiner, Art Unit 2648

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 attention 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 time 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 Agenda

Docket # 072388.0418

Application No.: 13/874,535 First Named Applicant: HIRABAYASHI, Masayuki
 Examiner: SHIUE, Dong-Chang Art Unit: 2648 Status of Appl.: Non-Final Office Action
mailed 7/27/16

Participants:

(1) Examiner Dong-Chang Shiue (2) Henry Chen (Reg. No. 67,587)
 (3) _____ (4) _____

Agreed Date of Interview: November 1, 2016Agreed Time: 10:00 am Eastern Time**Type of Interview Requested:**

(1) Telephonic (2) Personal (3) Video Conference

Exhibit To Be Shown or Demonstrated: YES NO

If yes, provide brief description:

Issues To Be Discussed

Issues (Rej., Obj., etc.)	Claims Fig.#s	Prior Art	Discussed	Agreed	Not Agreed
(1) <u>Rej. under §103(a)</u>	<u>Cls. 1, 8</u>	<u>None</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) _____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3) _____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Continuation Sheet Attached					

Brief Description of Arguments to be Presented:

* Agenda: Discuss §103(a) rejections under Golder in view of Merrem.

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 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.

 /Henry Chen/
 Applicant/Applicant's Representative Signature

 Examiner/SPE Signature

 Henry Chen
 Typed/Printed Name of Applicant or Representative

 67,587
 Registration Number, if applicable

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number	13/874,535
	Filing Date	05-01-2013
	Inventor(s)	M. HIRABAYASHI et al.
	Art Unit	2648
	Examiner Name	SHIUE, DONG-CHANG
	Attorney Docket Number	072388.0418

FOREIGN PATENT DOCUMENTS				
Exam. Initial.	No.	Document No.	Issue/Publication Date	Applicant(s)
	1.	JP 2008-227758 A	9-25-2008	NEC Corp

OTHER DOCUMENTS (Non-patent literature)

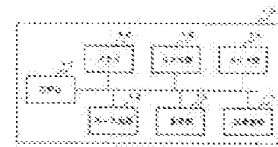
Exam. Initial.	No.	Include name of Author, Title, Date, Pertinent Pages, Etc.
	2.	Office Action mailed February 28, 2017, which issued during the prosecution of Japanese Patent Application No. 2015-241178, which corresponds to the present application (English translation attached).

Examiner Signature		Date Considered	
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* Examiner: Initial citation 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.

(11)Publication number 2008-227758
 (43)Date of publication of application 25.09.2008
 (51)Int.Cl. *H04M 1/673 (2006.01)*
H04Q 7/34 (2006.01)
H04Q 7/38 (2006.01)
H04M 1/00 (2006.01)

(21)Application number 2007-060940
 (22)Date of filing 09.03.2007
 (71)Applicant NEC CORP
 (72)Inventor OTSUKI MICHIIHITO



(54)PORTABLE TERMINAL APPARATUS, LOCK CONTROL METHOD, AND LOCK CONTROL PROGRAM

(57)Abstract

PROBLEM TO BE SOLVED: To provide a portable terminal apparatus which suppresses consumption power while raising operability, after assuring high security.

SOLUTION: When a predetermined setting condition is satisfied (for example, when a key operation is not done for a predetermined time), a CPU 17 controls a transfer to a lock condition, acquires position information of a current position based on a radio wave from a satellite using a GPS (Global Positioning System) unit 15 according to data input from a key input unit 13, discriminates whether the current position is in a security area which is established beforehand as a safe area to be used, based on acquired position information, and releases the lock condition after user authentication is done according to lock release operation of a user under the condition that the current position is determined to be not in the area (be outside of the security area).

(19) 日本国特許庁(JP)

(12) 公開特許公報(A)

(11) 特許出願公開番号

特開2008-227758

(P2008-227758A)

(43) 公開日 平成20年9月25日(2008.9.25)

(51) Int. Cl.	F I	テーマコード (参考)
HO4M 1/673 (2006.01)	HO4M 1/673	5K027
HO4Q 7/34 (2006.01)	HO4B 7/26 106A	5K067
HO4Q 7/38 (2006.01)	HO4B 7/26 109R	
HO4M 1/00 (2006.01)	HO4M 1/00 U	

審査請求 未請求 請求項の数 8 O L (全 14 頁)

(21) 出願番号	特願2007-60940 (P2007-60940)	(71) 出願人	000004237 日本電気株式会社 東京都港区芝五丁目7番1号
(22) 出願日	平成19年3月9日(2007.3.9)	(74) 代理人	100103090 弁理士 岩壁 冬樹
		(74) 代理人	100124501 弁理士 堀川 誠人
		(72) 発明者	大月 道仁 東京都港区芝五丁目7番1号 日本電気株式会社内
		Fターム(参考)	5K027 AA11 BB09 BB17 CC08 GG08 HH11 HH14 HH24 HH26 5K067 AA27 AA30 BB04 DD20 EE02 FF02 FF03 FF23 HH22 HH23 JJ52 JJ56

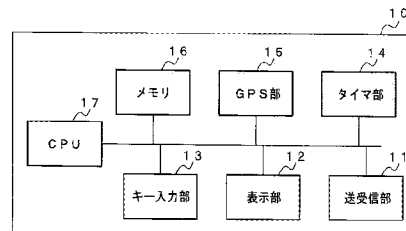
(54) 【発明の名称】 携帯端末装置、ロック制御方法およびロック制御用プログラム

(57) 【要約】

【課題】 高いセキュリティを確保した上で、操作性を向上させるとともに消費電力の抑制を実現することができる携帯端末装置を提供する。

【解決手段】 CPU 17が、所定の設定条件が成立したとき（例えば所定時間キー操作が行われなかったとき）にロック状態に制御し、キー入力部13からのデータ入力に応じて、衛星からの電波にもとづく現在位置の位置情報をGPS部15から取得し、取得した位置情報にもとづいて、現在位置が使用上安全な場所としてあらかじめ設定されたセキュリティエリア内であるか否かを判定し、現在位置が当該エリア内でない（セキュリティエリア外である）と判定したことを条件に、ユーザのロック解除操作に応じた使用者認証を行った後にロック状態を解除する。

【選択図】 図1



【特許請求の範囲】

【請求項 1】

使用者の操作に応じてデータを入力する入力部と、
衛星からの電波を受信し、受信した電波にもとづいて現在位置の位置情報を認識する位置情報認識手段と、

前記入力部からのデータ入力に応じて、前記位置情報認識手段から現在位置の位置情報を取得し、取得した位置情報にもとづいて、現在位置が使用上安全な場所としてあらかじめ設定されたエリア内であるか否かを判定するエリア判定手段と、

所定の設定条件が成立したときにロック状態に制御するロック状態設定手段と、

所定の解除条件が成立したときにロック状態を解除するロック状態解除手段とを備え、
前記ロック状態解除手段は、前記エリア判定手段によって現在位置がエリア内でないと判定されたことを条件に、使用者認証を行った後にロック状態を解除することを特徴とする携帯端末装置。

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【請求項 2】

エリア判定手段は、現在位置がエリア内であると判定した場合、定期的に位置情報認識手段から現在位置の位置情報を取得し、取得した位置情報にもとづいて現在位置がエリア内であるか否かを判定し、

ロック状態設定手段は、前記エリア判定手段によって現在位置がエリア内でないと判定された場合、ロック状態に制御する

ことを特徴とする請求項 1 記載の携帯端末装置。

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【請求項 3】

ロック状態設定手段は、入力部からのデータ入力が所定時間なかったときにロック状態に制御する

ことを特徴とする請求項 1 または請求項 2 記載の携帯端末装置。

【請求項 4】

ロック状態解除手段は、エリア判定手段によって現在位置がエリア内であると判定された場合においても、現在位置がエリア内でないと判定された場合とは異なる簡易操作による使用者認証を行った後にロック状態を解除する

ことを特徴とする請求項 1 から請求項 3 のうちのいずれか 1 項に記載の携帯端末装置。

【請求項 5】

携帯端末装置における制御部が制御プログラムに従って、
所定の設定条件が成立したときにロック状態に制御し、
使用者の操作にもとづくデータ入力に応じて、衛星からの電波にもとづいて現在位置の位置情報を取得し、

取得した位置情報にもとづいて、現在位置が使用上安全な場所としてあらかじめ設定されたエリア内であるか否かを判定し、

現在位置がエリア内でないと判定したことを条件に、使用者認証を行った後にロック状態を解除する

ことを特徴とするロック制御方法。

【請求項 6】

現在位置がエリア内であると判定した場合、定期的に現在位置の位置情報を取得し、取得した位置情報にもとづいて現在位置がエリア内であるか否かを判定し、

現在位置がエリア内でないと判定した場合、ロック状態に制御する

ことを特徴とする請求項 5 記載のロック制御方法。

【請求項 7】

携帯端末装置におけるロック状態の設定および解除を制御するためのロック制御用プログラムであって、

所定の設定条件が成立したときにロック状態に制御するロック状態設定処理と、

使用者の操作にもとづくデータ入力に応じて、衛星からの電波にもとづいて現在位置の位置情報を取得する位置情報取得処理と、

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取得した位置情報にもとづいて、現在位置が使用上安全な場所としてあらかじめ設定されたエリア内であるか否かを判定するエリア判定処理と、

現在位置がエリア内でないことを条件に、使用者認証を行った後にロック状態を解除するロック状態解除処理と

を前記携帯端末装置に実行させるロック制御用プログラム。

【請求項 8】

エリア判定処理において、現在位置がエリア内であると判定した場合、定期的に現在位置の位置情報を取得し、取得した位置情報にもとづいて現在位置がエリア内であるか否かを判定し、

ロック状態解除処理において、現在位置がエリア内でないことを条件に、ロック状態に制御する

ことを特徴とする請求項 7 記載のロック制御用プログラム。

【発明の詳細な説明】

【技術分野】

【0001】

本発明は、使用が制限されているロック状態の設定・解除を制御可能な携帯端末装置、ロック制御方法およびロック制御用プログラムに関する。

【背景技術】

【0002】

近年の携帯電話機の高機能化・多機能化に伴い、携帯電話機が財布としての機能を持つようになっている。このような携帯電話機では、携帯電話機内に保存されているアドレス帳やメールなどの個人情報を保護するだけでなく、使用者以外の携帯電話機の財布としての使用を制限することも必要になる。このように、ますます携帯電話機のセキュリティを確保することが重要となってきた。一方、携帯電話機のセキュリティを強化すればするほど、使用者の携帯電話機の使い勝手が悪くなるおそれがある。そこで、今日では、高いセキュリティを確保しながらも使い勝手（操作性）の良い携帯電話機が求められている。

【0003】

携帯電話機のセキュリティを実現する方法としては、携帯電話機の使用者以外の使用を禁止（制限）するようにロックをかけるのが一般的である。ロックを設定する方法には、使用者が意識的に（手で）ロックをかける方法以外に、一定時間経過後に自動的にロックをかける方法や、折り畳み式の携帯電話機を閉じたときにロックをかける方法もある。また、使用者の通信機と携帯電話機とが近距離無線通信で無線キーを通信し、無線キーが通信可能かどうかによって携帯電話機が使用者の近距離にあるかどうかを判断し、近距離にない場合にロックをかける方法がある。ロックを解除する方法には、パスワード入力による方法や、カメラが撮影した画像を利用した顔認証による方法、指紋認証による方法がある。また、Felica（登録商標）機能を用いた ID 識別による方法、近距離無線通信における無線キーを用いた ID 識別による方法などもある。

【0004】

さらに、従来技術として、基地局から取得した位置情報にもとづいて携帯電話機の位置が通常の行動範囲内であるかどうかを判定し、通常の行動範囲外であるときは、携帯電話機の動作を禁止する携帯電話機も提案されている（特許文献 1 参照）。

【0005】

【特許文献 1】特開 2001-177640 号公報（段落 0008，0009）

【発明の開示】

【発明が解決しようとする課題】

【0006】

しかし、上述した携帯電話機のロックの設定・解除を制御する方法では以下のような課題がある。

【0007】

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携帯電話機のロックを手動で設定する方法では、使用者が常にロックを設定したかどうかを気にしなければならず、ロックを設定するのを忘れてしまうことが起こり得る。ロックを設定し忘れた場合は、携帯電話機のセキュリティが著しく低下した状態となってしまうので、これを避けるためには自動的にロックを設定する方法が好ましい。

【0008】

一方、自動的にロックを設定する方法においてセキュリティを高めるためには頻繁にロック機能が働くように構成しておく必要がある。そして、頻繁にロック機能が働くように構成すると、ロックの解除も頻繁に行わなければならない。パスワード入力や認証でロックを解除する方法では、使用者の手間がかかってしまい、携帯電話機の操作性が低下してしまう。また、無線キーを用いてロックを設定する方法の場合、携帯電話機が使用者の近くにある場合は自動的にロックが解除されるので使用者の手間がかからないが、携帯電話機が通信機と常に通信を行わなければならない、消費電力が増加してしまい、携帯電話機の使用可能な時間が短くなってしまう。

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【0009】

また、特許文献1に記載された携帯電話機では、基地局から取得した位置情報にもとづいて携帯電話機の位置が通常の行動範囲内であるかどうかを判定し、通常の行動範囲外であるときは、携帯電話機の動作を禁止する。従って、携帯電話機の消費電力を抑制することができ、携帯電話機の使用可能な時間を長くすることができる。また、通常の行動範囲外を高いセキュリティを確保すべきエリアとみなして、携帯電話機の位置が通常の行動範囲外のとときにロックをかけ、通常の行動範囲内を高いセキュリティを確保する必要のない安全なエリアとみなして、携帯電話機の位置が通常の行動範囲内のとときにロックを解除するように構成すれば、使用者の手間をかけずに高いセキュリティを確保することができるとも考えられる。

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【0010】

しかし、基地局からの位置情報は、基地局の位置（基地局の地理的位置、すなわち緯度、経度）を示す情報であって、携帯電話機の位置を示す情報ではなく、基地局の位置にもとづいて高いセキュリティを確保する必要のない安全なエリアとみなすのは困難である。また、携帯電話機が特定の基地局と通信可能なエリアはかなり広範囲のエリアである。このような広範囲のエリアを安全なエリアとみなすのも困難である。

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【0011】

本発明は、上記のような課題を解決するためになされたものであり、高いセキュリティを確保した上で、操作性を向上させるとともに消費電力の抑制を実現することができる携帯端末装置、ロック制御方法およびロック制御用プログラムを提供することを目的とする。

【課題を解決するための手段】

【0012】

以上の目的を達成するため、本発明による携帯端末装置は、使用者の操作に応じてデータを入力する入力部と、衛星からの電波を受信し、受信した電波にもとづいて現在位置の位置情報を認識する位置情報認識手段と、入力部からのデータ入力に応じて、位置情報認識手段から現在位置の位置情報を取得し、取得した位置情報にもとづいて、現在位置が使用上安全な場所としてあらかじめ設定されたエリア内であるか否かを判定するエリア判定手段と、所定の設定条件が成立したときにロック状態に制御するロック状態設定手段と、所定の解除条件が成立したときにロック状態を解除するロック状態解除手段とを備え、ロック状態解除手段は、エリア判定手段によって現在位置がエリア内でないと判定されたことを条件に、使用者認証を行った後にロック状態を解除することを特徴とする。

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【0013】

エリア判定手段は、現在位置がエリア内であると判定した場合、定期的に位置情報認識手段から現在位置の位置情報を取得し、取得した位置情報にもとづいて現在位置がエリア内であるか否かを判定し、ロック状態設定手段は、エリア判定手段によって現在位置がエリア内でないと判定された場合、ロック状態に制御するように構成されていてもよい。

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【0014】

ロック状態設定手段は、入力部からのデータ入力が必要時間が経過したときにロック状態に制御するように構成されていてもよい。このような構成によれば、確実にロック状態に制御することができ、高いセキュリティを確保することができる。

【0015】

ロック状態解除手段は、エリア判定手段によって現在位置がエリア内であると判定された場合においても、現在位置がエリア内でないとして判定された場合とは異なる簡易操作による使用者認証を行った後にロック状態を解除するように構成されていてもよい。このような構成によれば、高いセキュリティを確保した上で、操作性の向上と消費電力の抑制を同時に実現することができる。

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【0016】

また、本発明によるロック制御方法は、携帯端末装置における制御部が制御プログラムに従って、所定の設定条件が成立したときにロック状態に制御し、使用者の操作にもとづくデータ入力に応じて、衛星からの電波にもとづいて現在位置の位置情報を取得し、取得した位置情報にもとづいて、現在位置が使用上安全な場所としてあらかじめ設定されたエリア内であるか否かを判定し、現在位置がエリア内でないとして判定したことを条件に、使用者認証を行った後にロック状態を解除することを特徴とする。

【0017】

現在位置がエリア内であると判定した場合、定期的に現在位置の位置情報を取得し、取得した位置情報にもとづいて現在位置がエリア内であるか否かを判定し、現在位置がエリア内でないとして判定した場合、ロック状態に制御するように構成されていてもよい。

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【0018】

また、本発明によるロック制御プログラムは、携帯端末装置におけるロック状態の設定および解除を制御するためのロック制御プログラムであって、所定の設定条件が成立したときにロック状態に制御するロック状態設定処理と、使用者の操作にもとづくデータ入力に応じて、衛星からの電波にもとづいて現在位置の位置情報を取得する位置情報取得処理と、取得した位置情報にもとづいて、現在位置が使用上安全な場所としてあらかじめ設定されたエリア内であるか否かを判定するエリア判定処理と、現在位置がエリア内でないとして判定したことを条件に、使用者認証を行った後にロック状態を解除するロック状態解除処理とを携帯端末装置に実行させることを特徴とする。

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【0019】

エリア判定処理において、現在位置がエリア内であると判定した場合、定期的に現在位置の位置情報を取得し、取得した位置情報にもとづいて現在位置がエリア内であるか否かを判定し、ロック状態解除処理において、現在位置がエリア内でないとして判定した場合、ロック状態に制御するように構成されていてもよい。

【発明の効果】

【0020】

以上のように、本発明では、所定の設定条件が成立したときにロック状態に制御し、使用者の操作にもとづくデータ入力に応じて、衛星からの電波にもとづいて現在位置の位置情報を取得し、取得した位置情報にもとづいて、現在位置が使用上安全な場所としてあらかじめ設定されたエリア内であるか否かを判定し、現在位置がエリア内でないとして判定したことを条件に、使用者認証を行った後にロック状態を解除するように構成されているので、高いセキュリティを確保した上で、操作性を向上させることができる。

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【0021】

また、本発明では、現在位置がエリア内であると判定した場合、定期的に現在位置の位置情報を取得し、取得した位置情報にもとづいて現在位置がエリア内であるか否かを判定し、現在位置がエリア内でないとして判定した場合、ロック状態に制御するように構成されているので、エリア外にいる場合の携帯端末装置の消費電力を抑制することができる。

【発明を実施するための最良の形態】

【0022】

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以下、本発明の実施の一形態を図面を参照して説明する。

【0023】

実施の形態1、

図1は、本発明の携帯電話機の構成を示すブロック図である。図1に示すように、本発明の携帯電話機10は、送受信部11、表示部12、キー入力部13、タイマ部14、GPS部15、メモリ16およびCPU17を備えている。なお、図1には示していないが、携帯電話機10には、アンテナ、マイク、スピーカなどの携帯電話機の一般的な構成も備えている。また、携帯電話機10は、通話機能のほかに、メールの送受信機能、Webサイトの閲覧機能、財布として機能（チャージされた電子マネーを使用して買い物をする機能）なども備えている。

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【0024】

図1に示す構成において、送受信部11は、基地局（図示せず）を介して無線通信によってデータの送受信を行う回路である。表示部12は、CPU17からの指示に従って携帯電話機10本体の前面に配置された液晶表示画面（カラー液晶表示パネル）に各種データを表示する。キー入力部13は、使用者からのキー入力を受け付け、その入力割り込みおよびデータをCPU17に出力する回路である。使用者が操作可能なキー（ボタン）としては、確定キー、矢印キー、CLRキー（クリアキー）、数字キーなどがある。これらのキーは携帯電話機10本体の前面に配置されている。

【0025】

タイマ部14は、所定のタイミング（時点）からの時間を計測する計時回路である。所定のタイミングとして、この実施の形態では、使用者によるキー操作が最後に行われたタイミングと、携帯電話機10がセキュリティエリア内に存在すると判断されてからの一定時間毎のタイミング（ステップS6、S73参照）とされている。

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【0026】

具体的には、タイマ部14は、使用者によるキー操作が行われた時点から時間を計測する。そして、タイマ部14は、キー入力部13からのデータ入力が所定時間行われなかったこと（すなわち、使用者によっていずれのキーも所定時間操作されなかったこと）を検出したとき、その旨を通知する信号をCPU17に出力する。CPU17は、タイマ部14からの所定時間の「無操作」を示す信号を入力すると、ロックをかける制御を実行する。また、CPU17によって携帯電話機10がセキュリティエリア内に存在すると判断された場合は、タイマ部14は、そのタイミングから時間を計測する。そして、タイマ部14は、計測を開始してから一定時間経過したことを検出したとき、その旨を通知する信号をCPU17に出力する。CPU17は、一定時間経過を示す信号を入力すると、現在位置の位置情報を取得する制御を実行する。その後、携帯電話機10がセキュリティエリア内に存在する間は、タイマ部14は、一定時間毎に時間の計測を開始し、一定時間が経過すると一定時間経過を示す信号をCPU17に出力する。

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【0027】

GPS部15は、複数のGPS衛星から発信される電波を受信し、受信した電波にもとづいて現在位置（現在地）の緯度および経度を特定する回路である。なお、GPS衛星から発信される電波を受信できない場所では、GPS部15は、移動体通信網の基地局からの送信される位置情報を利用して現在位置を特定する。

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【0028】

メモリ16は、携帯電話機10の動作に必要な制御プログラムや、携帯電話機10の設定情報、使用者の個人情報、アドレス帳の情報などの様々な情報を記憶する記憶媒体である。CPU（中央処理装置）17は、バス20を介して各部と接続され、各部の制御を制御プログラムに従って実行する。携帯電話機のロックの設定・解除の制御もCPU17によって実行される。

【0029】

図2は、セキュリティエリアの例を示す説明図である。この実施の形態では、高いセキュリティを確保する必要のない安全なエリアをセキュリティエリア（あるいはロック解除

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エリア) という。図 2 に示す例では、携帯電話機 10 の使用者の自宅の周辺および会社 (職場) の周辺をセキュリティエリアとしている。後述するように、セキュリティエリア内では使用者は簡易な操作でロック解除を行うことができる。使用者の自宅や会社は、携帯電話機 10 が不正に使用される可能性が低いと考えられ、また、このエリア内では使用者による携帯電話機 10 の使用頻度が高いと想定されるので、面倒なロック解除の操作を要求すると手間がかかって操作性が低下してしまうからである。

【0030】

次に、本発明の携帯電話機 10 の動作について説明する。

【0031】

まず、携帯電話機 10 におけるロック設定・解除の制御の前提動作について説明する。この実施の形態では、予め使用者がセキュリティエリアの登録を行う。具体的には、使用者がセキュリティエリアとして登録しようと思った位置 (自宅など) にいるときに、使用者はキーを操作してセキュリティエリアの登録画面を表示部 12 に表示させる。そして、使用者はキーを操作してセキュリティエリアの登録を行う。CPU 17 は、キー入力部 13 からのセキュリティエリアの登録を示す信号を入力すると、GPS 部 15 に対して現在の位置情報を取得するように指示する。GPS 部 15 は、複数の GPS 衛星から発信される電波を受信し、受信した電波にもとづいて現在位置 (現在地) の緯度および経度を示す位置情報を取得する。そして、GPS 部 15 は、取得した位置情報を CPU 17 に出力する。CPU 17 は、GPS 部 15 から出力された位置情報を入力すると、その位置情報をメモリ 16 の所定領域に登録する。このような処理によって、セキュリティエリアの中心位置が登録されたことになる。なお、セキュリティエリアの範囲は、あまりに狭い範囲であると面倒なロック解除の操作を頻繁に行わなければならないとなり操作性を著しく低下させてしまうし、あまりに広い範囲であるとセキュリティを確保できなくなるので、例えば中心位置から半径 10 m 程度の範囲とされる。

【0032】

また、この実施の形態では、使用者によるキー操作が所定時間行われなかったとき (無操作が所定時間継続したとき) に自動的にロックがかかるように設定されている。具体的には、上述したように、タイマ部 14 が、キー入力部 13 からのデータ入力が入力されたことを検出すると、所定時間の無操作を示す信号を CPU 17 に出力する。CPU 17 は、タイマ部 14 からの所定時間以上の無操作を示す信号を入力すると、ロックをかける制御を実行する。例えば、メモリ 16 の領域にロック制御中であることを示すフラグをセットする。このような制御によって、使用者がロックをかけたかどうかについて気にする必要がなくなり、また高いセキュリティを確保することができる。なお、自動的にロックをかける「所定時間」は例えば 10 分程度としている。

【0033】

なお、この実施の形態において、ロックをかけた状態では、ロック解除の操作を行うためのキー以外の全てのキーの操作が禁止される (キー入力部 13 からのデータ入力を受け付けない) ことを想定している。ただし、このような状態にかぎられず、例えば個人情報にアクセスするためのキーの操作だけを禁止するというように特定のキーの操作のみ禁止するようにしてもよい。

【0034】

図 3 は、実施の形態 1 における携帯電話機のロック解除処理を示すフローチャートである。図 3 に示す処理において、まず、CPU 17 は、キー入力部 13 からのデータ入力待ちの状態となっている (ステップ S1)。すなわち、使用者によるキー操作の入力待ちの状態となっている。使用者がキー操作を行ったこと (所定のキーの押し下げが行われたこと) に応じて、CPU 17 はキー入力部 13 からのデータ入力を示す信号を入力すると (ステップ S1 の Y)、現在、キー操作のロックがかかった状態であるかどうかを判定する (ステップ S2)。キー操作のロックがかかっていない状態であると判定した場合は (ステップ S2 の N)、ステップ S9 の処理に移行する。

【0035】

キー操作のロックがかかった状態であると判定した場合には（ステップS2のY）、CPU17は、ロック解除入力画面を表示するように表示部12に指示して表示画面にロック解除入力画面を表示させる（ステップS3）。CPU17は、キー入力部13からの解除用のキー操作に応じた信号の入力待ちの状態になる（ステップS4）。すなわち、使用者による解除用のキーの操作待ちの状態になる。使用者が解除用のキー操作を行ったこと（解除用のキーの押し下げが行われたこと）に応じて、CPU17はキー入力部13からの解除用のキー操作に応じた信号を入力すると（ステップS4のY）、CPU17は、GPS部15に対して現在の位置情報を取得するように指示する。GPS部15は、複数のGPS衛星から発信される電波を受信し、受信した電波にもとづいて現在位置（現在地）の緯度および経度を示す位置情報を取得する。そして、GPS部15は、取得した位置情報をCPU17に出力する（ステップS5）。 10

【0036】

CPU17は、GPS部15から出力された位置情報を入力すると、その位置情報にもとづいて現在地がセキュリティエリアとして登録されている場所であるかどうかを判定する（ステップS6）。具体的には、CPU17は、メモリ16の所定領域に登録されているセキュリティエリアの中心位置の位置情報を読み出す。そして、CPU17は、メモリ16から読み出した中心位置の位置情報とGPS部15から取得した現在位置の位置情報にもとづいて、現在位置とセキュリティエリアの中心位置と現在位置との距離を算出する。そして、CPU17は、算出した距離が所定範囲内であるかどうかを確認することによってセキュリティエリア内であるかどうかを判定する。 20

【0037】

現在地がセキュリティエリアとして登録されている場所であると判定した場合は（ステップS6のY）、CPU17は、セキュリティエリア内と設定する（ステップS7）。例えば、メモリ16の所定領域にセキュリティエリア内に存在することを示すフラグをセットする。このとき、CPU17は、ロックを解除する制御も実行する。具体的には、メモリ16の領域にセットされているロック制御中であることを示すフラグをリセットする。そして、CPU17は、一定時間毎の位置情報取得処理（セキュリティエリア判定処理；図4参照）を開始する（ステップS7）。その後、ステップS9の処理に移行する。

【0038】

一方、現在地がセキュリティエリアとして登録されている場所でないと判定した場合は（ステップS6のN）、CPU17は、セキュリティエリア内との設定を解除する（ステップS8）。例えば、メモリ16の所定領域にセットされているセキュリティエリア内に存在することを示すフラグをリセットする。そして、CPU17は、ロック解除操作の実行を促すために、表示部12に指示して、ロック解除操作の実行を要求するロック解除操作要求画面を表示させ、ロック解除操作の実行待ちの状態になる（ステップS10）。ここで、ロック解除の操作としては、従来から利用されているロックを解除する方法が用いられる。例えば、パスワード入力による方法や、カメラが撮影した画像を利用した顔認証による方法、指紋認証による方法、Felica（登録商標）機能を用いたID識別による方法、近距離無線通信における無線キーを用いたID識別による方法などである。使用者によってロック解除の操作が行われたときは（ステップS10のY）、CPU17は、携帯電話機10の正当な使用者であると判断し、ロックを解除する制御を実行する。具体的には、メモリ16の領域にセットされているロック制御中であることを示すフラグをリセットする。そして、ステップS9の処理に移行する。 30 40

【0039】

ステップS9では、CPU17は、キー入力に応じた処理を（使用者によるキー操作に応じた各種処理）を実行する。その後、所定時間無操作が継続してロックが自動的にかけられるまで、ステップS2の処理で、キー操作のロックがかかっていない状態であると判定されるため（ステップS2のN）、キー入力に応じた処理が実行される。

【0040】

図4は、実施の形態1における携帯電話機の位置情報取得処理を示すフローチャートで 50

ある。位置情報取得処理は、図3のステップS7でセキュリティエリア内との設定が行われたことにもとづいて開始される。

【0041】

位置情報取得処理において、CPU17は、まず、タイマ部14からの一定時間経過を示す信号を入力したか否かを確認する(ステップS71)。一定時間経過を示す信号を入力すると(ステップS71のY)、CPU17は、GPS部15に対して現在の位置情報を取得するように指示する。GPS部15は、複数のGPS衛星から発信される電波を受信し、受信した電波にもとづいて現在位置(現在地)の緯度および経度を示す位置情報を取得する。そして、GPS部15は、取得した位置情報をCPU17に出力する(ステップS72)。

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【0042】

CPU17は、GPS部15から出力された位置情報を入力すると、その位置情報にもとづいて現在地がセキュリティエリアとして登録されている場所であるかどうかを判定する(ステップS73)。なお、このセキュリティエリア判定処理は、ステップS6で説明した処理と同様の処理である。

【0043】

現在地がセキュリティエリアとして登録されている場所であると判定した場合は(ステップS73のY)、ステップS71の処理に戻る。一方、現在地がセキュリティエリアとして登録されていない場所であると判定した場合は(ステップS73のN)、CPU17は、セキュリティエリア内との設定を解除する(ステップS74)。すなわち、メモリ16の所定領域にセットされているセキュリティエリア内に存在することを示すフラグをリセットする。これにより、位置情報取得処理が終了される。また、タイマ部14による一定時間の計測も停止される。このとき、携帯電話機10のセキュリティを確保すべく、セキュリティエリア内との設定を解除したタイミングでCPU17がロックをかける制御を実行する。

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【0044】

なお、「一定時間」としては例えば10分、30分、1時間などの時間が想定される。「一定時間」をあまりに長い時間にするとセキュリティを確保することができず、あまりに短い時間にすると位置情報取得処理が頻繁に実行され消費電力が増加してしまうので、目的にあった適切な時間に設定される。

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【0045】

以上のように、この実施の形態1では、ロック解除時にセキュリティエリアかどうかを判定し、セキュリティエリアかどうか(安全性の高い場所か低い場所か)に応じて携帯電話機10のセキュリティを変更しているので、高いセキュリティを確保した上で、操作性の向上と消費電力の抑制を同時に実現することができる。

【0046】

具体的には、セキュリティエリアを安全なエリアであるとみなし、このエリア内でのロック解除の操作を楽な操作に設定するので(解除用のキーを押し下げするだけでロックが解除されるので)、ロック解除に伴う使用者の手間が軽減され、携帯電話機10の操作性を向上させることができる。一方、セキュリティエリア外を危険なエリアであるとみなし、ロック解除の操作を従来通りの操作に設定するので(従来から行われているパスワード認証、指紋認証などでロックが解除されるので)、高いセキュリティを確保することができる。また、セキュリティエリア外では位置情報取得処理が実行されないため、携帯電話機10の消費電力を抑制することができる。一方、セキュリティエリア内では位置情報取得処理が実行されるが、このエリアは使用者の自宅などのエリアであり、使用者が容易に携帯電話機10を充電可能である(よって、使用者にとってある程度の電力消費は気にならないと思われる)。従って、定期的に位置情報取得処理を実行して高いセキュリティを確保することを優先している。

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【0047】

さらに、携帯電話機10はGPS部15を備え(GPS機能を備え)、GPSを利用し

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て位置情報を取得しているもので、高い精度で現在位置を測位することができ、ある程度狭い範囲にセキュリティエリアを設定することも可能である。その結果、より一層、高いセキュリティを確保することができる。

【0048】

また、キー操作が行われてから所定時間経過したときに自動的にロックをかけるように制御されているので、使用者がロックの設定し忘れなどを心配する必要もなく、高いセキュリティを確保することができる。

【0049】

なお、上記の実施の形態1では、携帯電話機10の現在位置がセキュリティエリア内である場合でも、ロック解除の操作として使用者に解除用のキーを押し下げさせるようにしていたが、セキュリティエリア内である場合は通常のキー操作（ステップS1のY）に応じて自動的にロックを解除するようにしてもよい。すなわち、ステップS3、4の処理を省略してもよい。

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【0050】

また、ロック状態に制御する条件は、所定時間無操作が継続されたこととしていたが、このような条件に限られず、折り畳み式携帯電話機であれば折り畳んだとき（閉じたとき）にロック状態に制御するようにしてもよい。

【0051】

実施の形態2、

上記の実施の形態1では、セキュリティエリア内に携帯電話機10が存在しているときは、簡単な操作でロックを解除するように構成されていたが、セキュリティエリア内であっても携帯電話機10のセキュリティを確保しなければならない状況も考えられる。そこで、この実施の形態2では、セキュリティエリア内であっても所定の条件が成立したときはロックをかけるように構成したものである。なお、携帯電話機10の構成については図1に示した構成と同様であるため、説明を省略する。

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【0052】

図5は、実施の形態2における携帯電話機のロック解除処理を示すフローチャートである。実施の形態2のロック解除処理において、CPU17は、キー入力部13からのデータ入力待ちの状態となっている（ステップS1）。そして、使用者がキー操作を行ったこと（所定のキーの押し下げが行われたこと）に応じて、CPU17がキー入力部13からのデータ入力を示す信号を入力すると（ステップS1のY）、CPU17は、現在、キー操作のロックがかかった状態であるかどうかを判定する（ステップS2）。ここでのロックがかかった状態とは、実施の形態1の場合と同様に、所定時間無操作が継続されたことによって自動的にロックがかかった状態であることを意味する。キー操作のロックがかかった状態であると判定した場合には（ステップS2のY）、ステップS3の処理に移行する。

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【0053】

キー操作のロックがかかっていない状態であると判定した場合は（ステップS2のN）、CPU17は、操作ロック条件が成立しているかどうかを判定する（ステップS21）。ここで、操作ロック条件とは、ロックをかけるための条件（ロック状態に制御するための条件）をいう。この実施の形態2では、操作ロック条件として、携帯電話機10がセキュリティエリア内に存在するかセキュリティエリア外に存在するかを問わずにロック状態に制御する条件（以下、第1操作ロック条件という）と、携帯電話機10がセキュリティエリア内に存在しているときにロック状態に制御する条件（以下、第2操作ロック条件という）とが設けられている。

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【0054】

第1操作ロック条件は、所定時間無操作が継続されたことという条件（すなわち、実施の形態1の場合と同様のロック状態の設定条件）である。第2操作ロック条件は、使用者が予め携帯電話機10の機能設定にてセキュリティエリア内でもロックをかけることを選択（設定）したという条件である。なお、第2操作ロック条件はこのような条件に限られ

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るわけではなく、例えば、所定時間無操作が継続されたことという条件であってもよい。この場合、「所定時間」は第1操作ロック条件における「所定時間」と同じ時間であっても異なる時間であってもよい。

【0055】

ステップS2における操作ロック中であるか否かは、第1操作ロック条件が成立したことにもとづいてキー操作のロックがかかっているかどうかの判定である。また、ステップS21における操作ロック条件が成立しているか否かは、第2操作ロック条件が成立しているか否かの判定である。

【0056】

ステップS21において、第2操作ロック条件が成立していない（使用者がセキュリティエリア内でもロックをかけることを選択していない）場合は（ステップS21のN）、CPU17は、ステップS9の処理に移行して、キー入力に応じた処理を実行する（ステップS9）。一方、第2操作ロック条件が成立した（使用者がセキュリティエリア内でもロックをかけることを選択した）場合は（ステップS21のY）、ステップS3の処理に移行する。

【0057】

なお、ステップS3～S6の処理は、図3に示した処理と同様であるため、重複する説明を省略する。

【0058】

ステップS6において、現在地がセキュリティエリアとして登録されている場所でない
と判定した場合は（ステップS6のN）、CPU17は、セキュリティエリア外と設定す
る（ステップS22）。例えば、メモリ16の所定領域にセキュリティエリア外に存在す
ることを示すフラグをセットする。そして、CPU17は、操作ロック条件を通常状態に
変更する（ステップS22）。すなわち、操作ロック条件を第1操作ロック条件に変更す
る。そして、CPU17は、ロック解除操作の実行を促すために、表示部12に指示して
、ロック解除操作の実行を要求するロック解除操作要求画面を表示させ、ロック解除操作
の実行待ちの状態になる（ステップS24）。ここで、第1操作ロック条件に対応するロ
ック解除の操作としては、精度の高いユーザー認証を行うための操作が用いられる。例えば
、指紋認証や画像による顔認証などである。使用者によってロック解除の操作が行われた
ときは（ステップS24のY）、CPU17は、携帯電話機10の正当な使用者であると
判断し、ロックを解除する制御を実行する。具体的には、メモリ16の領域にセットされ
ているロック制御中であることを示すフラグをリセットする。そして、CPU17は、ス
テップS9の処理に移行して、キー入力に応じた処理を実行する。

【0059】

ステップS6において、現在地がセキュリティエリアとして登録されている場所である
と判定した場合は（ステップS6のY）、CPU17は、セキュリティエリア内と設定す
る（ステップS23）。例えば、メモリ16の所定領域にセキュリティエリア内に存在す
ることを示すフラグをセットする。このとき、実施の形態1の場合と異なり、CPU17
は、ロックを解除する制御を実行しない。そして、CPU17は、操作ロック条件をセキ
ュリティエリア用に変更する（ステップS23）。すなわち、操作ロック条件を第2操
作ロック条件に変更する。なお、図5のステップS23には示していないが、携帯電話機1
0がセキュリティエリア内と判定された場合は、実施の形態1の場合と同様に、一定時間
毎の位置情報取得処理（セキュリティエリア判定処理；図4参照）が開始される。そして
、CPU17は、ロック解除操作の実行を促すために、表示部12に指示して、ロック解
除操作の実行を要求するロック解除操作要求画面を表示させ、ロック解除操作の実行待ち
の状態になる（ステップS24）。ここで、第2操作ロック条件に対応するロック解除の
操作は、使用者の操作負担を軽減するために、使用者にとって簡単に行える操作とされて
いる。例えば、パスワードを入力する操作などである。この場合は、使用者の負担がかか
らない操作であれば比較的精度の低いユーザー認証でもよいものとする。使用者によっ
てロック解除の操作が行われたときは（ステップS24のY）、CPU17は、携帯電話機1

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0の正当な使用者であると判断し、ロックを解除する制御を実行する。具体的には、メモリ16の領域にセットされているロック制御中であることを示すフラグをリセットする。そして、CPU17は、ステップS9の処理に移行して、キー入力に応じた処理を実行する。

【0060】

その後、第1操作ロック条件が成立（所定時間無操作が継続）してロックが自動的にかけられると、ステップS2で操作ロック中であると判断されて（ステップS2のY）、ステップS3以降の処理に移行される。また、第1操作ロック条件が成立していない場合でも、第2操作ロック条件が成立している場合は（ステップS21のY）、ステップS3以降の処理に移行される。

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【0061】

以上のように、この実施の形態2では、携帯電話機10がセキュリティエリアに存在している場合でも所定の条件の成立によりロックがかけられるので、セキュリティエリア内における携帯電話機10のセキュリティも確保することができる。また、携帯電話機10がセキュリティエリア内に存在するときは、ロック解除の操作を簡単な操作に設定しているため、ロック解除の操作に伴う使用者の負担（手間）は増大せず、携帯電話機10の操作性は低下しない。

【0062】

なお、上記の実施の形態1、2では、セキュリティエリア内に携帯電話機10が存在しているときにロックをかける条件（第2操作ロック条件）として、使用者がセキュリティエリア内でもロックをかけることを選択したこと（ステップS21参照）としていたが、一定時間（セキュリティエリア内にいるときの位置情報を取得する期間）よりも長い時間、携帯電話機10のセキュリティエリア外への移動が検出されなかったことを第2操作ロック条件としてもよい。

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【0063】

また、セキュリティエリア内からセキュリティエリア外への携帯電話機10の移動を検出したことを条件にロックをかけるように制御してもよい。また、携帯電話機10の現在位置がセキュリティエリア外であるときに所定時間無操作が継続されたことを条件として、ロックをかけるように制御してもよい。

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【0064】

なお、上記の実施の形態1、2では、セキュリティ機能を備えた携帯電話機10について説明したが、使用者の個人情報や機密情報などが保存されている携帯可能な端末であれば、携帯電話機10に限られず、PHSや携帯型のパーソナルコンピュータなどの端末であってもよい。

【産業上の利用可能性】

【0065】

本発明は、個人情報などを保存している携帯端末装置に適用され、特に、個人情報を保存し、財布としての機能も備えた携帯電話機に適用される。

【図面の簡単な説明】

【0066】

【図1】本発明の携帯電話機の構成を示すブロック図である。

【図2】セキュリティエリアの例を示す説明図である。

【図3】実施の形態1における携帯電話機のロック解除処理を示すフローチャートである。

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【図4】実施の形態1における携帯電話機の位置情報取得処理を示すフローチャートである。

【図5】実施の形態2における携帯電話機のロック解除処理を示すフローチャートである。

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【符号の説明】

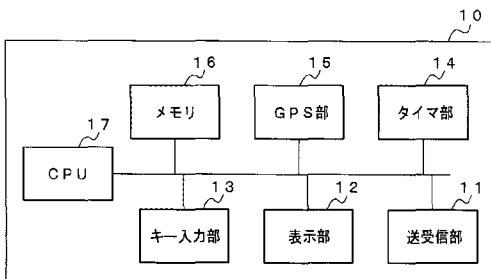
【0067】

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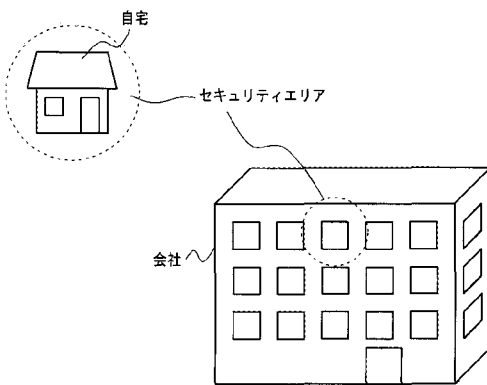
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- 10 携帯電話機
- 12 表示部
- 13 キー入力部
- 14 タイマ部
- 15 GPS部
- 16 メモリ
- 17 CPU

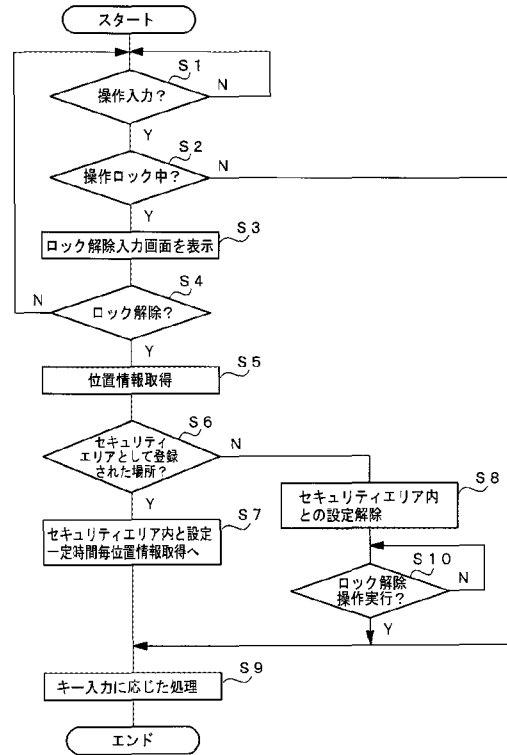
【図1】



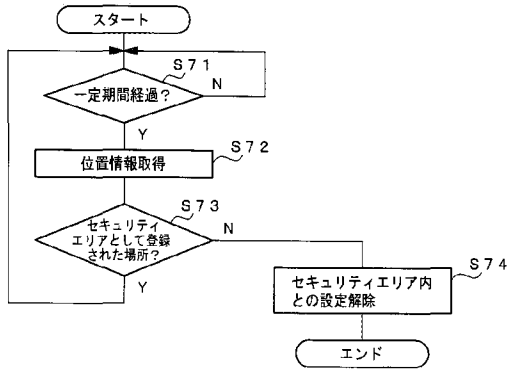
【図2】



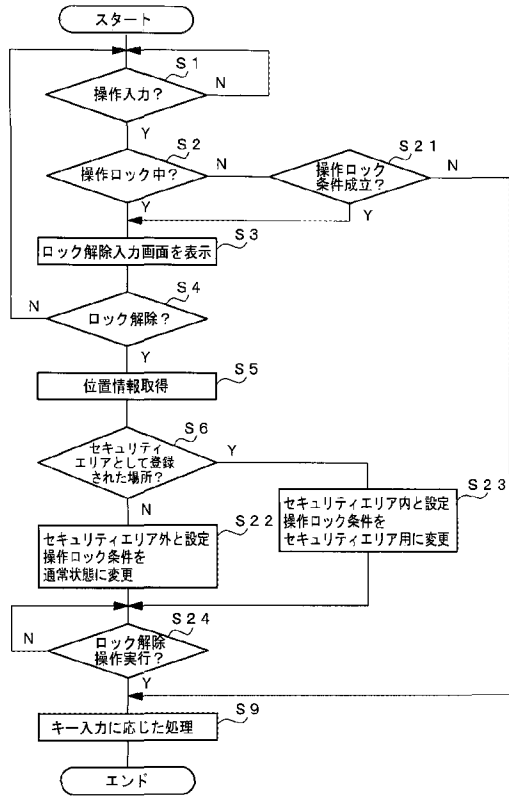
【図3】



【図4】



【図5】



Electronic Patent Application Fee Transmittal

Application Number:	13874535			
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Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF			
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI			
Filer:	Henry Chen/Hiroko Lavietes			
Attorney Docket Number:	072388.0418			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
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Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
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Submission- Information Disclosure Stmt	1806	1	180	180
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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			c6518d4b20390ae49170c99ae10e913a87a b4b7a		
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	Form_1449.pdf	121827	no	1
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4	Other Reference-Patent/App/Search documents	JP_OA_02_28_17.pdf	768875	no	6
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : M. Hirabayashi et al. Examiner : Dong-Chang Shiue
Serial No. : 13/874,535 Confirmation No. : 9744
Filed : 05-01-2013 Group Art Unit : 2648
For : MOBILE TERMINAL AND CONTROL METHOD THEREOF

INFORMATION DISCLOSURE STATEMENT

FILED BY EFS

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

Sir:

Enclosed herewith are patents and/or publications for consideration by the Patent and Trademark Office in regard to the invention claimed in the above-identified application. In compliance with 37 C.F.R. §1.56, such documents are listed on the enclosed Form PTO-1449.

This Information Disclosure Statement is submitted according to the following selected paragraph(s):

- This Information Disclosure Statement is being filed under 37 C.F.R. §1.97(b) (1) within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. § 1.53(d); (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; (3) before the mailing of a first Office action on the merits; or (4) before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. § 1.114.
- This Information Disclosure Statement is being filed under 37 C.F.R. §1.97(c) prior to either a final action or a notice of allowance. Payment for the fee required by 37 C.F.R. §1.17(p) is hereby authorized to be charged to Deposit Account No. 02-4377.

This Information Disclosure Statement is being filed under 37 C.F.R. §1.97(c), with a statement under, 37 C.F.R. §1.97(e) prior to either a final action or a notice of allowance.

The undersigned hereby states that (check one):

each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the information disclosure statement.

This Information Disclosure Statement is being filed under 37 C.F.R. §1.97(d), with a statement under 37 C.F.R. §1.97(e), after a final action or a notice of allowance but prior to payment of the issue fee. Payment for the fee required by 37 C.F.R. §1.17(p) is hereby authorized to be charged to Deposit Account No. 02-4377. The undersigned hereby petitions that this Information Disclosure Statement be considered prior to issuance of the patent. The undersigned hereby states that (check one):

each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the information disclosure statement.

Submissions Within 30 days of Receipt

- Pursuant to 37 C.F.R. 1.704(d), Applicant states that each item of information contained in this information disclosure statement:
 - was first cited in any communication from a patent office in a counterpart foreign or international application or from the U.S. Patent and Trademark Office, and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of the information disclosure statement.
 - is a communication that was issued by a patent office in a counterpart foreign or international application or by the U.S. Patent and Trademark Office, and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of the information disclosure statement.

Previously Cited by Examiner or Prior Submissions by Applicant

- The references listed on the accompanying PTO-1449 were either cited by the Examiner or previously submitted in parent application U.S. Serial No. _____, filed _____. Pursuant to 37 C.F.R. § 1.98(d), the references are not required if the earlier application is identified and relied upon for an effective filing date under 35 U.S.C. § 120 and therefore are not enclosed herewith.

Co-Pending Application Disclosure

- Applicants would like to bring to the attention of the Examiner the following co-pending patent applications, which are also listed on the accompanying PTO-1449:

Serial No.	Filing Date

Disclosure of Office Actions and Responses in Co-Pending Applications

- Applicants would like to bring to the attention of the Examiner the following Office Actions issued in co-pending patent applications and Responses to Office Actions filed in such applications, which are also listed on the accompanying PTO-1449:

Serial No.	Date of Office Action or Response

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute “prior art.” If the Examiner applies the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute “prior art” under United States law, applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of the documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should the documents be applied against the claims of the present application.

Applicants believe no additional fee is due in connection with this submission. However, if any additional fee is due, or if any overpayment has been made, the Commissioner is authorized to charge any such fee or credit any overpayment to our Deposit Account No. 02-4377.

Respectfully submitted,

BAKER BOTTS L.L.P.

March 1, 2017

Date

/Henry Chen/

Henry Chen
Patent Office Reg. No. 67,587

30 Rockefeller Plaza
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212-408-2500



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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/874,535 05/01/2013 Masayuki HIRABAYASHI 072388.0418 9744

21003 7590 12/22/2016
BAKER BOTTS L.L.P.
30 ROCKEFELLER PLAZA
44TH FLOOR
NEW YORK, NY 10112-4498

EXAMINER

SHIUE, DONG-CHANG

ART UNIT PAPER NUMBER

2648

NOTIFICATION DATE DELIVERY MODE

12/22/2016

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):

DLNYDOCKET@BAKERBOTTSCOM

DETAILED ACTION

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

Response to Amendment

- Claims 2, 6, 7, 9, and 11 were previously canceled.
- Claims 1, 3-5, 8, 10, and 12 are amended.
- Claims 13-16 are newly added.
- Claims 1, 3-5, 8, 10, and 12-16 are pending.

Response to Arguments

On pages 7-8 of the Remarks filed on 11/11/2016, Applicant's arguments with respect to claims 1 and 8 have been considered but are moot because the arguments do not apply to the combination of a new primary reference and a secondary reference being used in the current rejection.

Examiner Notes

The Examiner cites particular columns and line numbers in the references as applied to the claims below for the convenience of the Applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the Applicant fully considers the references in its entirety as potentially teaching all or part of the claimed invention, as

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well as the context of the passage as taught by the prior art or as disclosed by the Examiner.

Claim Rejections - 35 USC § 103

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

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

1. Claims 1, 3-5, 8, 10, and 12-16 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US 20130183936 (**Smith**) (priority date: 01/17/2012) in view of 20110086615 (**Golder**).

Regarding claim 1, Smith discloses that “A mobile terminal configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

a communication unit which performs short-range wireless communications (**Smith, Fig. 1 and [0021], lines 1-3: ... The portable wireless device radio transceiver 103, in this example is a short range transceiver operative to communicate using Bluetooth operations.**);

a storage unit which previously stores information about another mobile terminal (**Smith, [0029], lines 6-8: ... access information stored on the memory associated with the smart card reader emulation device 117.**); and

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a control unit (**Smith, Fig. 1 and [0020], lines 3-4: one or more processors 105**) which switches the mobile terminal between an unlocked and a locked state based on an input to the mobile terminal from a user (**Smith, Fig. 1 and [0024], last 4 lines: ... personal identification numbers or passwords, along with associated lockout counters which limit the number of invalid guesses an attacker may make, wherein Smith inherently discloses that the mobile terminal can be locked and unlocked based on an input from a user. Further, locking/unlocking a mobile terminal is well known in the art**);

wherein the control unit controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal (**Smith, [0004], lines 1-3: Known smart card emulation systems can include a component located on a smart phone to remotely lock and unlock a computer via a Bluetooth connection**) under a predetermined condition when ~~any one of~~ the following steps are is performed:

performing the short-range wireless communications with the another mobile terminal by the communication unit (**Smith, Fig. 1 and [0025], lines 10-12: ... the user may be positioned relative to the smart card reader emulation device 117 where the user would like an action to occur; and [0021], lines 1-3: ... The portable wireless device radio transceiver 103, in this example is a short range transceiver operative to communicate using Bluetooth operations.**)”

[[switching a state of the mobile terminal from a locked state to an unlocked state]] based on the input ~~operation of a user~~ when the another mobile terminal stored

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in the storage unit is in communication range of the short-range wireless communications of the communication (Smith, [0004], lines 1-3: **Known smart card emulation systems can include a component located on a smart phone to remotely lock and unlock a computer via a Bluetooth connection; [0018], last 4 lines: the user could also be given a choice about whether or not to accept such access; and [0022], last 4 lines: the portable wireless device may also be used such as, for example and without limitation, biometric devices such as fingerprint readers or cameras; and [0026], lines 7-15: ..., wherein the selection of a signal strength based on the user's proximity is an input from the user; and [0051], last 5 lines: ... may require one or more codes or additional information to be input by the user via the portable wireless device.)**)“

But, **Smith** does not explicitly disclose that a control unit configured to switch the mobile terminal between an unlocked and a locked state based on input to the mobile terminal from a user.

However, **Golder** teaches that “a control unit (**Golder, Fig. 1 and [0019], lines 86-7: the control unit 6 includes a microprocessor**) configured to switch the mobile terminal between an unlocked and a locked state based on input to the mobile terminal from operation of a user (**Golder, Fig. 1 and [0025], last 4 lines: the mobile phone 1 can then be unlocked only by the user successfully performing a predetermined authentication process such as entering a passcode correctly. Further, locking/unlocking a mobile terminal by user's input is well known in the art**); and

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switching a state of the mobile terminal from a locked state to an unlocked state;
(Golder, Fig. 2 and [0028], lines 2-4: it could be unlocked ... in response to a connection to the device 14 being re-established.)”

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the mobile terminal of Golder to include the teachings of Smith so that more secure biometrics, such as fingerprint, authentication can be employed to improve the security of the device whereas a key or a combination lock can be stolen or misplaced.

Regarding claim 3, Smith further discloses that “the communication unit, based on the input, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications **(Smith, [0004], lines 1-3: Known smart card emulation systems can include a component located on a smart phone to remotely lock and unlock a computer via a Bluetooth connection; [0018], last 4 lines: the user could also be given a choice about whether or not to accept such access; and [0022], last 4 lines: the portable wireless device may also be used such as, for example and without limitation, biometric devices such as fingerprint readers or cameras; and [0026], lines 7-15:; ..., wherein the selection of a signal strength based on the user's proximity is an input from the user; and [0051], last 5 lines: ... may require one or more codes or additional information to be input by the user via the portable wireless device.)**

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Regarding claim 4, Smith further discloses that “The mobile terminal according to claim 1, wherein: before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user (**Smith, [0018], last 4 lines: the user could also be given a choice about whether or not to accept such access.)**”

Regarding claim 5, Smith and Golder further teach that “A mobile terminal according to claim 1, wherein: the control unit performs short-range wireless communications with the another mobile terminal by the communication unit (**Golder, Fig. 1 and [0023], lines 1-5: device 14 is another Bluetooth-enabled device. ... they can connect automatically to each other**) and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the storage unit and is in communication range of the short-range wireless communications by the communication unit (**Golder, [0020], last 4 lines: the devices store credentials that allow them to link automatically with each other the next time they come in range of each other**) when the mobile terminal is in a locked state (**Golder, [0028], lines 1-5: it could be unlocked ... in response to a connection to the device 14 being re-established.)**”

Regarding claim 8, the claim is interpreted and rejected for the same reason as set forth in claim 1 above.

Regarding claim 10, the claim is interpreted and rejected for the same reason as set forth in claim 3 above.

Regarding claim 12, the claim is interpreted and rejected for the same reason as set forth in claim 5 above.

Regarding claim 13, Smith further discloses that "wherein: the operation includes a biometric authentication (**Smith, [0022], last 4 lines: the portable wireless device may also be used such as, for example and without limitation, biometric devices such as fingerprint readers or cameras.**)”

Regarding claim 14, the claim is interpreted and rejected for the same reason as set forth in claim 13 above.

Regarding claim 15, the claim is interpreted and rejected for the same reason as set forth in claim 1 above.

Regarding claim 16, the claim is interpreted and rejected for the same reason as set forth in claim 13 above.

Conclusion

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

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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 DONG-CHANG SHIUE whose telephone number is (313)446-6552. The examiner can normally be reached on Monday-Friday; 8 - 4:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wesley Kim can be reached on 571-272-7867. 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

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

/WESLEY KIM/
Supervisory Patent Examiner, Art Unit 2648

Notice of References Cited	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification	
*	A	US-2013/0183936 A1	07-2013	Smith; Clayton Douglas	H04W12/06	455/411
	B	US-				
	C	US-				
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				


FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)			
	U				
	V				
	W				
	X				

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

Search Notes 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

CPC- SEARCHED		
Symbol	Date	Examiner
H04W12/06	12/15/2014	DS
H04L63/0492	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	26.1, 41.2	12/15/2014	DS

SEARCH NOTES		
Search Notes	Date	Examiner
EAST (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	12/15/2014	DS
Inventor/Assignee search in EAST and eDAN	12/15/2014	DS
Consulted with Lewis West	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS
Updated search	12/11/2016	DS

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

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S651	11	("20120143707" "7928829" "20070186106" "20110320352" "20050198029" "20060236373" "20020023215" "20070101153" "8145194" "20090191811" "6396412" "20090191811" "20060236373").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S650	14	("8249556" "8249556" "20110214158" "20130183936" "8364963" "20030199267" "20140149746" "7756478" "8498618" "8249558" "20080196086" "20090021350" "7597250" "7756478" "20030025603" "20090249478").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S649	2	("20150058942" "20150163221").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S648	0	("20150058942" "20150163221").pn.	USPAT	OR	ON	2016/12/11 17:02
S647	3	"20060123242".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S646	0	"200060123242".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S645	15	(secure authenticat\$3) with (fingerprint biometric) with (nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S644	479	(secure authenticat\$3) with (fingerprint biometric) with (nfc ("near" adj field) bluetooth (short\$1range)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S643	1508	(secure authenticat\$3) with (fingerprint biometric) same (nfc ("near" adj field) bluetooth (short\$1range)) and (@pd<"20120523" or @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

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		or @rlad<"20120523" or @prad<"20120523")	EPO; JPO; DERWENT; IBM_TDB			
S642	0	(secure authenticat\$3) with (fingerprint biometric) same (nfc ("near" adj field) bluetooth (short\$1range)) near5 (lock\$3 unlock\$3) near3 (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S641	30	(phone mobile portable) near5 (nfc ("near" adj field) bluetooth (short\$1range)) near5 (lock\$3 unlock\$3) near3 (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S640	496	(phone mobile portable) near5 (nfc ("near" adj field) bluetooth (short\$1range)) near5 (lock\$3 unlock\$3 control\$4) near3 (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S639	1450	(phone mobile portable) near5 (nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3 control\$4) with (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S638	13	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with (second another) near3 (phone mobile) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S637	0	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with (seond another) near3 (phone mobile) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S636	751	(nfc ("near" adj field) bluetooth (short\$1range)) with (mobile phone) with (lock\$3 unlock\$3) with (phone mobile) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S635	751	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with (phone mobile) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S634	751	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3	US-PGPUB; USPAT;	OR	ON	2016/12/11 17:02

		(trun adj on)) with ((phone mobile)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S633	37	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3 (trun adj on)) with ((television tv)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S632	6	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with ((another second) adj (mobile phone pda device equipment apparatus electric)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S631	4	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with ((another second) adj (mobile phone pda device equipment apparatus electric)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	USPAT	OR	ON	2016/12/11 17:02
S630	39	("2006/0128305").URPN.	USPAT	OR	ON	2016/12/11 17:02
S629	17	("20010015694" "20010043659" "20030086387" "20030139878" "20040203384" "20040239484" "20060003788" "20060217063" "4825210" "5781121" "6370200" "6438367" "6456976" "7063400" "7603511" "7668556").PN. OR ("8564402").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S628	3	"8564402".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S627	7	("20020032786" "20040203895" "20060128305" "20070229221" "20090021350" "20100099394" "6154665").PN. OR ("8818335").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S626	1	"8818335".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S625	89	(secure authenticat\$3) with (face image) and (455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S624	1199	(secure authenticat\$3) with (face image) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR;	OR	ON	2016/12/11 17:02

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S623	4	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S622	5	"8825021".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S621	10	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S620	3	"20130095802".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S619	2	"8041340".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S618	12	(authenticat\$3 recogni\$4 match\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S617	4	(authenticat\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S616	6675	(authenticat\$3) with (face) and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S615	0	14/874535	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S614	2	("6148205").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S613	106	("20030122655" "20020078393" "6594762" "5646593" "6144314" "20020123325" "6433685" "6326891" "20020121975" "6804699" "6148205" "5712973" "5960085" "6175922" "4639726" "20010002211" "20010007817" "20020016838" "20020121975" "6609656" "6901057" "6087937" "6804699" "5842118" "6150928" "20020077060" "6678728" "6408172" "6081704" "20020091785" "6614350" "6631271" "6449726" "6124805" "6174205" "6181284" "20020077077" "20010053947" "5345383").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S612	8	("20020108058" "20040056759" "20040192303" "20090183241" "6643781" "7415605" "7607015" "7674298").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S611	32	("7674298").URPN.	USPAT	OR	ON	2016/12/11 17:02
S610	220	S609 and (lock\$3 un-lock\$3 unlock\$3) with (short-range (short adj range) bluetooth blue-tooth NFC ("near" adj field))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S609	75328	(H04W12/\$).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S608	1347	(H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S607	8863	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S606	24	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02

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		\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$.did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$.did.				
S605	24	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$.did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$.did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S604	7812	(H04M1/66 H04B7/00 H04L9/32).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S603	25	("20090232041" "6535494" "7817588" "8027666" "7266373" "7110747" "20050037734" "20070202807" "7460863").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S602	5	S600 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S601	76	S600 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S600	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S599	0	S597 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT;	OR	ON	2016/12/11 17:02

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S598	12	S597 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S597	181	S596 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S596	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S595	13	S593 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S594	49	S593 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S593	103	S592 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S592	9773	(455/26.1 455/41.2).cls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S591	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02

S590	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S589	22	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short-range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S588	21	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S587	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S586	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S585	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S584	11	S582 and S583	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S583	44839	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S582	902	S581 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S581	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S580	5	("6070240" "6747546").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S579	19	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$ or US-20060224882- \$.did. or (US-8732458-\$ or US- 8818335-\$ or US-8526915-\$ or US- 8222990-\$ or US-8090364-\$ or US- 8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S578	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S577	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S576	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S575	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S574	3258	(H04W12/00 H04L9/00).opc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S573	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S572	1347	H04W12/00.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S571	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S570	18	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S569	122	S568 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S568	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S567	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S566	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2016/12/11 17:02

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			IBM_TDB			
S565	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S564	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S563	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S562	63	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S561	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S560	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S559	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S558	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S557	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S556	122	S555 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S555	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S554	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S553	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S552	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S551	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S550	12	S548 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S549	149	S548 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S548	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S547	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S546	63	NI SHI JIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

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			EPO; JPO; DERWENT; IBM_TDB			
S545	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S544	930	NISHIJIMA.in. and Hideo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S543	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S542	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S541	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S540	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S539	5	S537 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S538	76	S537 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S537	37658	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT;	OR	ON	2016/12/11 17:02

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S536	0	S534 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S535	12	S534 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S534	181	S533 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S533	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S532	13	S530 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S531	49	S530 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S530	103	S529 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S529	9773	(455/26.1 455/41.2).cls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02

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S528	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S527	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S526	22	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short-range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S525	21	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S524	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S523	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S522	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S521	11	S519 and S520	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S520	44839	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S519	902	S518 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S518	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S517	5	("6070240" "6747546").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S516	19	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$ or US-20060224882- \$).did. or (US-8732458-\$ or US- 8818335-\$ or US-8526915-\$ or US- 8222990-\$ or US-8090364-\$ or US- 8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S515	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S514	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S513	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S512	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S511	3258	(H04W12/00 H04L9/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S510	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S509	1347	H04W12/00.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S508	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S507	18	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S506	122	S505 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S505	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S504	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2016/12/11 17:02

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			IBM_TDB			
S503	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S502	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S501	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S500	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S499	63	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S498	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S497	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S496	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S495	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S494	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

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			DERWENT; IBM_TDB			
S493	122	S492 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S492	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S491	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S490	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S489	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S488	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S487	12	S485 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S486	149	S485 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S485	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S484	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

			EPO; JPO; DERWENT; IBM_TDB			
S483	63	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S482	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S481	930	NISHIJIMA.in. and Hideo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S480	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S479	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S478	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S477	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S476	89	(secure authenticat\$3) with (face image) and (455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S475	1199	(secure authenticat\$3) with (face image) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT;	OR	ON	2016/12/11 17:02

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S474	4	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S473	5	"8825021".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S472	10	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S471	3	"20130095802".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S470	2	"8041340".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S469	12	(authenticat\$3 recogni\$4 match\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S468	4	(authenticat\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S467	6675	(authenticat\$3) with (face) and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S466	0	14/874535	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

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			EPO; JPO; DERWENT; IBM_TDB			
S465	2	("6148205").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S464	106	("20030122655" "20020078393" "6594762" "5646593" "6144314" "20020123325" "6433685" "6326891" "20020121975" "6804699" "6148205" "5712973" "5960085" "6175922" "4639726" "20010002211" "20010007817" "20020016838" "20020121975" "6609656" "6901057" "6087937" "6804699" "5842118" "6150928" "20020077060" "6678728" "6408172" "6081704" "20020091785" "6614350" "6631271" "6449726" "6124805" "6174205" "6181284" "20020077077" "20010053947" "5345383").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S463	8	("20020108058" "20040056759" "20040192303" "20090183241" "6643781" "7415605" "7607015" "7674298").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S462	32	("7674298").URPN.	USPAT	OR	ON	2016/12/11 17:02
S461	220	S460 and (lock\$3 un-lock\$3 unlock\$3) with (short-range (short adj range) bluetooth blue-tooth NFC ("near" adj field))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S460	75328	(H04W12/\$).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S459	1347	(H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S458	8863	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S457	24	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02

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		US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$).did.				
S456	24	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S455	7812	(H04M1/66 H04B7/00 H04L9/32).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S454	25	("20090232041" "6535494" "7817588" "8027666" "7266373" "7110747" "20050037734" "20070202807" "7460863").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S453	5	S451 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S452	76	S451 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S451	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S450	0	S448 and ((GPS (global adj position\$3))	US-PGPUB;	OR	ON	2016/12/11

		same (short-range (short adj range)))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:02
S449	12	S448 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S448	181	S447 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S447	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S446	13	S444 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S445	49	S444 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S444	103	S443 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S443	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S442	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2016/12/11 17:02

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			IBM_TDB			
S441	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S440	22	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short-range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S439	21	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S438	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S437	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S436	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S435	11	S433 and S434	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S434	44839	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S433	902	S432 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

			EPO; JPO; DERWENT; IBM_TDB			
S432	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S431	5	("6070240" "6747546").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S430	19	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$ or US-20060224882- \$).did. or (US-8732458-\$ or US- 8818335-\$ or US-8526915-\$ or US- 8222990-\$ or US-8090364-\$ or US- 8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S429	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S428	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S427	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S426	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S425	3258	(H04W12/00 H04L9/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

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			EPO; JPO; DERWENT; IBM_TDB			
S424	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S423	1347	H04W12/00.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S422	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S421	18	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S420	122	S419 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S419	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S418	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S417	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

			DERWENT; IBM_TDB			
S416	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S415	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S414	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S413	63	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S412	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S411	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S410	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S409	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S408	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S407	122	S406 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

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			EPO; JPO; DERWENT; IBM_TDB			
S406	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S405	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S404	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S403	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S402	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S401	12	S399 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S400	149	S399 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S399	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S398	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S397	63	NI SHI JIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR;	OR	ON	2016/12/11 17:02

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S396	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S395	930	NISHIJIMA.in. and Hideo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S394	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S393	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S392	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S391	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S390	5	S388 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S389	76	S388 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S388	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB;	OR	ON	2016/12/11

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			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:02
S387	0	S385 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S386	12	S385 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S385	181	S384 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S384	37658	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S383	13	S381 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S382	49	S381 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S381	103	S380 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S380	9773	(455/26.1 455/41.2).cls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2016/12/11 17:02

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			IBM_TDB			
S379	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S378	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S377	22	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short-range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S376	21	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S375	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S374	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S373	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S372	11	S370 and S371	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S371	44839	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentikat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

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			EPO; JPO; DERWENT; IBM_TDB			
S370	902	S369 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S369	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S368	5	("6070240" "6747546").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S367	19	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$ or US-20060224882- \$).did. or (US-8732458-\$ or US- 8818335-\$ or US-8526915-\$ or US- 8222990-\$ or US-8090364-\$ or US- 8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S366	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S365	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S364	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S363	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

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			EPO; JPO; DERWENT; IBM_TDB			
S362	3258	(H04W12/00 H04L9/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S361	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S360	1347	H04W12/00.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S359	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S358	18	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/12/11 17:02
S357	122	S356 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S356	9773	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S355	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/12/11 17:02

			DERWENT; IBM_TDB			
S354	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S353	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S352	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S351	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S350	63	NI SHIJI MA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S349	0	NI SHIJI MA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S348	19	NI SHIJI MA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S347	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S346	409	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S345	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/12/11 17:02

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			EPO; JPO; DERWENT; IBM_TDB			
S344	122	S343 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S343	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S342	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S341	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S340	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 17:02
S339	2	("7283812").URPN.	USPAT	OR	ON	2016/12/11 17:02
S338	12	S336 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S337	149	S336 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S336	9773	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S335	12303	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR;	OR	ON	2016/12/11 17:02

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S334	63	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S333	0	NI SHI JI MA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S332	930	NI SHI JI MA.in. and Hideo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S331	19	NI SHI JI MA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S330	32	HI RABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S329	409	HI RABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S328	3	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/12/11 17:02
S327	11	("20120143707" "7928829" "20070186106" "20110320352" "20050198029" "20060236373" "20020023215" "20070101153" "8145194" "20090191811" "6396412" "20090191811" "20060236373").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/11 11:03
S326	14	("8249556" "8249556" "20110214158" "20130183936"	US-PGPUB; USPAT;	OR	ON	2016/12/10 22:19

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		"8364963" "20030199267" "20140149746" "7756478" "8498618" "8249558" "20080196086" "20090021350" "7597250" "7756478" "20030025603" "20090249478").PN.	USOCR			
S325	2	("20150058942" "20150163221").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/10 22:14
S324	0	("20150058942" "20150163221").pn.	USPAT	OR	ON	2016/12/10 22:14

EAST Search History (Interference)

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12/ 11/ 2016 8:36:18 PM

C:\ Users\ dshiu\ Documents\ EAST\ Workspaces\ 13874535.wsp

Index of Claims 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

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

CLAIM		DATE							
Final	Original	12/15/2014	02/04/2016	07/19/2016	12/11/2016				
	1	✓	✓	✓	✓				
	2	✓	-	-	-				
	3	✓	✓	✓	✓				
	4	✓	✓	✓	✓				
	5	✓	✓	✓	✓				
	6	✓	-	-	-				
	7	✓	-	-	-				
	8	✓	✓	✓	✓				
	9	✓	-	-	-				
	10	✓	✓	✓	✓				
	11	✓	-	-	-				
	12		✓	✓	✓				
	13				✓				
	14				✓				
	15				✓				
	16				✓				

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hirabayashi, *et al.* Examiner: Shiue, Dong-Chang
Serial No.: 13/874,535 Confirmation No.: 9744
Filed: May 1, 2013 Art Unit: 2648
Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF

AMENDMENT AND RESPONSE TO NON-FINAL OFFICE ACTION

FILED ELECTRONICALLY

MAIL STOP: AF

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

Sir:

In response to the Non-Final Office Action dated July 27, 2016, for which, pursuant to 37 C.F.R. §1.136(a), a one-month extension of time is hereby requested, the following amendments and remarks are submitted and reconsideration of the claim rejections is respectfully requested.

Amendments to the Claims begin on page 2 of this document.

Remarks begin on page 7 of this document.

Electronic Patent Application Fee Transmittal

Application Number:	13874535
Filing Date:	01-May-2013
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Filer:	Robert C. Scheinfeld/Hiroko Lavietes
Attorney Docket Number:	072388.0418

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	1251	1	200	200
Miscellaneous:				
Total in USD (\$)				200

Electronic Acknowledgement Receipt

EFS ID:	27483693
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Robert C. Scheinfeld/Hiroko Lavietes
Filer Authorized By:	Robert C. Scheinfeld
Attorney Docket Number:	072388.0418
Receipt Date:	11-NOV-2016
Filing Date:	01-MAY-2013
Time Stamp:	11:37:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$200
RAM confirmation Number	111416INTEFSW00008411024377
Deposit Account	024377
Authorized User	Hiroko Lavietes

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

37 CFR 1.21 (Miscellaneous fees and charges)

IPR2020-00202

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Extension of Time	EOT.pdf	163265	no	2
			e71b1910458f78661125a994faa56319e4ae fa4a		
Warnings:					
Information:					
2		Amendment.pdf	159612	yes	10
			b8804aa0281bfbd5c9145868d682fb2a1d 7158d		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Applicant Arguments/Remarks Made in an Amendment		7	10	
	Claims		2	6	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30748	no	2
			5b583ffbe94798461448767a889001dd284 e6ec6		
Warnings:					
Information:					
Total Files Size (in bytes):			353625		

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.

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.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) 072388.0418
Application Number 13/874,535	Filed 05-01-2013	
For MOBILE TERMINAL AND CONTROL METHOD THEREOF		
Art Unit 2648	Examiner SHIUE, DONG-CHANG	

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	Fee	Small Entity Fee	Micro Entity Fee	
<input checked="" type="checkbox"/> One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ <u>200</u>
<input type="checkbox"/> Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ _____
<input type="checkbox"/> Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ _____
<input type="checkbox"/> Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____
<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____

Applicant asserts small entity status. See 37 CFR 1.27.

Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

A check in the amount of the fee is enclosed.

Payment by credit card. Form PTO-2038 is attached.

The Director has already been authorized to charge fees in this application to a Deposit Account.

The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to
Deposit Account Number 02-4377

Payment made via EFS-Web.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

applicant.

attorney or agent of record. Registration number 67,587

attorney or agent acting under 37 CFR 1.34. Registration number _____

/Henry Chen/

Signature

November 11, 2016

Date

Henry Chen

Typed or printed name

212-408-2500

Telephone Number

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

* Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.136(a). 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 6 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: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Privacy Act Statement

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

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

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

REMARKS

Claims 1, 3-5, 8, 10, and 12 are pending in this application. Upon entry of this Amendment, claims 1, 3-5, 8, 10, and 12 are amended, and claims 13-16 are new. Support for the amendments may be found throughout the specification, for example in paragraphs [0029], [0033]-[0036], and Fig. 2 of the published application. Thus, Applicant respectfully submits that no new matter is being added by the Amendments to the Claims.

Statement of the Substance of the Interview

Applicant acknowledges with appreciation the courtesy extended by Examiner Dong-Chang Shiue to discuss this application with Applicant's attorneys Henry Chen during a telephonic interview conducted on November 1, 2016. No exhibit was shown, and no demonstration was conducted. During the telephone interview, Applicant's attorney and the Examiner discussed the pending claims and the outstanding rejection under 35 U.S.C. § 103(a). No agreement was reached during the telephone interview.

Rejection of Claims 1, 3-5, 8, 10, and 12 under 35 U.S.C. § 103(a)

Claims 1, 4, 5, 8, and 12 are rejected under 35 U.S.C. § 103(a) as being unpatentable over US 2011/0086615 (Golder), in view of US 2006/0123242 (Merrem). Claims 3 and 10 are rejected under 35 U.S.C. § 103(a) as being unpatentable Golder and Merrem, in view of US 2006/0128305 (Delalat).

Independent claim 1 is hereby amended to recite, *inter alia*, the features “a control unit which switches the mobile terminal between an unlocked and a locked state based on an input to the mobile terminal from a user” and “wherein the control unit controls the mobile terminal to

transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal under a predetermined condition when the following steps are performed: performing the short-range wireless communications with the another mobile terminal by the communication unit; and switching a state of the mobile terminal from a locked state to an unlocked state based on the input when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit.”

Independent claim 8 is hereby amended to recite, *inter alia*, the features “transmitting information from the mobile terminal to the another mobile terminal which is for switching a state of the another terminal from a locked state to an unlocked state under a predetermined condition based on an input to the mobile terminal from a user when the following steps are performed: performing the short-range wireless communications with the another mobile terminal; and switching a state of the mobile terminal from a locked state to an unlocked state based on the input when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications.”

For both claim 1 and 8, no such configuration is disclosed or suggested by Golder, taken alone or in combination with Merrem. Furthermore, Delalat or Golder were not cited as support for and do not disclose the above features. Accordingly, Applicant submits that the rejection of independent claims 1 and 8 under 35 U.S.C. § 103(a) should be withdrawn. Applicant submits dependent claims 3-5 are allowable at least for depending from allowable independent claim 1, and dependent claims 10 and 12 are allowable at least for depending from allowable independent claim 8. Accordingly, Applicant submits that the rejection of claims 1, 3-5, 8, 10, and 12 under 35 U.S.C. § 103(a) should be withdrawn.

New Claims

Applicant has amended the claims to introduce new claims 13 to 16. Applicant submits that dependent claim 13 is allowable at least for depending from allowable independent claim 1, and dependent claims 14 is allowable at least for depending from allowable independent claim 8. In addition, Applicant submits that claim 15 is allowable for reciting, *inter alia*, features similar to those identified above for claims 1 and 8. Accordingly, Claim 15 is allowable for the reasons cited above with respect to claims 1 and 8. Lastly, claim 16 is allowable at least for depending from allowable independent claim 15.

CONCLUSION

On the basis of the foregoing remarks, Applicant respectfully submits that the pending claims of the present application are allowable over the prior art of record. Applicant thus respectfully requests the previous rejections be withdrawn, and that the pending claims be allowed by the Examiner. Favorable consideration and timely allowance of this application are respectfully requested.

This Amendment is being made solely to expedite prosecution of the present application and does not constitute an acquiescence to any prior art, objections, or rejections identified by the Examiner. Applicant's silence with regard to the Examiner's rejections of the dependent claims constitutes a recognition by Applicant that the rejections are moot based on Applicant's Amendment and/or Remarks regarding the independent claim from which the dependent claims depend.

Please charge the required fee for extending the time for a response within the first month

after the period for response, pursuant to 37 C.F.R. § 1.17(b), to Deposit Account 02-4377. Applicant authorizes the Commissioner to charge any additional fees and/or credit any overpayments associated with this paper to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418. Further, if a fee is required for an extension of time under 37 C.F.R. § 1.136 not provided for above, Applicant requests such extension and authorizes the charging of the extension fee to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418.

Respectfully submitted,

BAKER BOTTS L.L.P.

Dated: November 11, 2016

By: /Henry Chen/
Henry Chen
Registration No. 67,587

Attorney for Applicant

Baker Botts L.L.P.
30 Rockefeller Plaza, Floor 45
New York, NY 10112-4498
(212) 408-2597 (telephone)
(212) 259-2597 (facsimile)

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A mobile terminal configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

a communication unit ~~configured to~~ which performs short-range wireless communications;

a storage unit ~~configured to~~ which previously stores information about another mobile terminal; and

a control unit ~~configured to~~ which switches the mobile terminal between an unlocked and a locked state based on an input to the mobile terminal from ~~operation of~~ a user;

wherein the control unit controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal under a predetermined condition when ~~any one of~~ the following steps ~~[[is]]~~ are performed:

performing the short-range wireless communications with the another mobile terminal by the communication unit; and

switching a state of the mobile terminal from a locked state to an unlocked state based on the input ~~operation of a user~~ when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit; ~~and~~

~~performing the short range wireless communications with the another mobile terminal by the communication unit and a biometrics authentication of a user when the another mobile terminal stored in the storage unit is in communication range of the short range wireless~~

~~communications of the communication unit.~~

2. (Cancelled).

3. (Currently Amended) The mobile terminal according to claim ~~[[1]]~~ 13, wherein:
the communication unit, based on the input ~~an operation of a user~~, transmits, to the
another mobile terminal, a signal to transit the another mobile terminal to a locked state by
performing the short-range wireless communications.

4. (Currently Amended) The mobile terminal according to claim ~~[[1]]~~ 13, wherein:
before unlocking the another mobile terminal, the mobile terminal requests confirmation
from a user.

5. (Currently Amended) ~~[[A]]~~ The mobile terminal according to claim ~~[[1]]~~ 13, wherein:
the control unit performs short-range wireless communications with the another mobile
terminal by the communication unit and sets the mobile terminal to be in an unlocked state when
the another mobile terminal is stored in the storage unit and is in communication range of the
short-range wireless communications by the communication unit when the mobile terminal is in
a locked state

6. (Cancelled).

7. (Cancelled).

8. (Currently Amended) A method for controlling a mobile terminal to transit between an unlocked and a locked state in which a predetermined operation is limited, comprising the steps of:

performing short-range wireless communications;

storing information about another mobile terminal in a storage unit; and

~~wherein the mobile terminal is transited between an unlocked and a locked state~~
transmitting information from the mobile terminal to the another mobile terminal which is for
switching a state of the another terminal from a locked state to an unlocked state under a predetermined condition based on an input to the mobile terminal from the operation of a user when ~~any one~~ of the following steps ~~[[is]]~~ are performed:

performing the short-range wireless communications with the another mobile terminal;

and

switching a state of the mobile terminal from a locked state to an unlocked state based on the input operation of a user when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications; ~~and~~

~~performing the short range wireless communications with the another mobile terminal~~
~~and a biometrics authentication of a user when the another mobile terminal stored in the storage~~
~~unit is in communication range of the short range wireless communications of the~~
~~communication unit.~~

9. (Cancelled).

10. (Currently Amended) [[A]] The method according to claim [[8]] 14, further comprising:
based on [[an]] the operation ~~of a user~~, transmitting, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.
11. (Cancelled).
12. (Currently Amended) [[A]] The method according to claim [[8]] 14, further comprising:
performing short-range wireless communications with the another mobile terminal and setting the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the storage unit and is in communication range of the short-range wireless communications when the mobile terminal is in a locked state.
13. (New) The mobile terminal according to claim 1, wherein:
the operation includes a biometrics authentication.
14. (New) The method according to claim 8, wherein:
the operation includes a biometrics authentication.
15. (New) A lock state control system which comprises a first mobile terminal and a second mobile terminal which are configured to switch between an unlocked and a locked state in which a predetermined operation is limited;

wherein the first mobile terminal comprises a communication unit which performs short-range wireless communications, a storage unit which previously stores information about another

mobile terminal, and a control unit which switches the mobile terminal between an unlocked and a locked state based on an input to the first mobile terminal from a user; and

wherein the control unit controls the mobile terminal to transmit information for switching a state of the another mobile terminal from a locked state to an unlocked state to the another mobile terminal under a predetermined condition when the following steps are performed:

performing the short-range wireless communications with the another mobile terminal by the communication unit; and

switching a state of the mobile terminal from a locked state to an unlocked state based on the input when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit.

16. (New) The lock state control system according to claim 15, wherein:
the operation includes a biometrics authentication.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/874,535	Filing Date 05/01/2013	<input type="checkbox"/> To be Mailed
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ENTITY: LARGE SMALL MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A	
<input type="checkbox"/> EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A	
TOTAL CLAIMS <small>(37 CFR 1.16(i))</small>	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	minus 3 =	*	X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	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).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	11/11/2016	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR			
	Total <small>(37 CFR 1.16(i))</small>	* 11	Minus	** 20	= 0	X \$80 = 0
	Independent <small>(37 CFR 1.16(h))</small>	* 3	Minus	***3	= 0	X \$420 = 0
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						
					TOTAL ADD'L FEE	0

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

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

LIE
 PHYLLIS CANTY

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

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/874,535 05/01/2013 Masayuki HIRABAYASHI 072388.0418 9744

21003 7590 11/07/2016
BAKER BOTTS L.L.P.
30 ROCKEFELLER PLAZA
44TH FLOOR
NEW YORK, NY 10112-4498

EXAMINER

SHIUE, DONG-CHANG

ART UNIT PAPER NUMBER

2648

NOTIFICATION DATE DELIVERY MODE

11/07/2016

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):

DLNYDOCKET@BAKERBOTTSCOM

Applicant-Initiated Interview Summary	Application No. 13/874,535	Applicant(s) HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	

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

- (1) DONG-CHANG SHIUE. (3) _____.
- (2) Henry Chen. (4) _____.

Date of Interview: 01 November 2016.

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 and 8.

Identification of prior art discussed: Golder (US 20110086615).

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...)

The applicant's representative went over the invention and described the elements that would distinguish this invention from others. The examiner explained that further search and consideration would be needed to see if the amended claim would overcome the current rejection. No other 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.

Attachment

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

/WESLEY KIM/
Supervisory Patent Examiner, Art Unit 2648

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 attention 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 time 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 Agenda

Docket # 072388.0418

Application No.: 13/874,535 First Named Applicant: HIRABAYASHI, Masayuki
 Examiner: SHIUE, Dong-Chang Art Unit: 2648 Status of Appl.: Non-Final Office Action
mailed 7/27/16

Participants:

(1) Examiner Dong-Chang Shiue (2) Henry Chen (Reg. No. 67,587)
 (3) (4)

Agreed Date of Interview: November 1, 2016Agreed Time: 10:00 am Eastern Time**Type of Interview Requested:**

(1) Telephonic (2) Personal (3) Video Conference

Exhibit To Be Shown or Demonstrated: YES NO

If yes, provide brief description:

Issues To Be Discussed

Issues (Rej., Obj., etc.)	Claims Fig.#s	Prior Art	Discussed	Agreed	Not Agreed
(1) <u>Rej. under §103(a)</u>	<u>Cls. 1, 8</u>	<u>None</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) _____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3) _____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Continuation Sheet Attached					

Brief Description of Arguments to be Presented:

* Agenda: Discuss §103(a) rejections under Golder in view of Merrem.

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 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.

/Henry Chen/
 Applicant/Applicant's Representative Signature

 Examiner/SPE Signature

Henry Chen
 Typed/Printed Name of Applicant or Representative

67,587
 Registration Number, if applicable



UNITED STATES PATENT AND TRADEMARK OFFICE

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/874,535 05/01/2013 Masayuki HIRABAYASHI 072388.0418 9744

21003 7590 07/27/2016
BAKER BOTTS L.L.P.
30 ROCKEFELLER PLAZA
44TH FLOOR
NEW YORK, NY 10112-4498

EXAMINER

SHIUE, DONG-CHANG

ART UNIT PAPER NUMBER

2648

NOTIFICATION DATE DELIVERY MODE

07/27/2016

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):

DLNYDOCKET@BAKERBOTTSCOM

DETAILED ACTION

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

Continued Examination Under 37 CFR 1.114

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 07/11/2016 has been entered.

Response to Amendment

- Claims 1 and 8 are amended.
- Claims 1, 3-5, 8, 10, and 12 are pending.

Response to Arguments

Applicant's argument that, on pages 6 and 7, "*No such configuration is disclosed or suggested by Satou or Kakuichi, taken alone or in combination. Further, Delat or Golder were not cited as support for and do not disclose the above features*" is unpersuasive. The examiner addressed every specific claim limitation with citations from the prior art using applicant's claim language verbatim. See below.

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Claim Rejections - 35 USC § 112

The following is a quotation of 35 U.S.C. 112(f):

(f) Element in Claim for a Combination. – An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.

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

An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.

Claim limitation

- a. “**Communication unit configured to perform short-range wireless communications**” in claim 1;
- b. “**Storage unit configured to previously store information**” in claim 1;
- c. “**Control unit configured to switch**” in claim 1;

have been interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, because it uses/they use a generic placeholder “**Communication unit, Storage unit, Control unit**” coupled with functional language “as underlined in the above claim elements” without reciting sufficient structure to achieve the function.

Furthermore, the generic placeholder is not preceded by a structural modifier.

Since the claim limitation(s) invokes 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, claims 1 and 3-5 have been interpreted to cover the corresponding structure described in the specification that achieves the claimed function, and equivalents thereof.

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A review of the specification shows that the following appears to be the corresponding structure described in the specification for the 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph limitation:

- **Communication unit configured to perform short-range wireless communications** is found in Fig. 1 and page 4, lines 5-6 of the original specification, “a short-range wireless communication unit 26 controls short-range wireless communications, and communicates, for example, with the mobile terminal 1”;
- **Storage unit configured to previously store information** is found in Fig. 1 and page 3, last line to page 4, the first line of the original specification, “a storage unit 14 stores a program or various kinds of setting information for controlling a mobile terminal and a password for unlocking a mobile terminal; and page 12, lines 8-10, ... such as the memory, hard disk, and SSD (Solid State Drive), or...”;
- **Control unit configured to switch** is found in Fig. 1 and page 3, lines 21-23 of the original specification, “a controller 11 controls each unit of the mobile terminal 1. The controller 11 is configured by a CPU (Central Processing Unit), an arbitrary control circuit, or a dedicated circuit as an ASIC”.

If applicant wishes to provide further explanation or dispute the examiner’s interpretation of the corresponding structure, applicant must identify the corresponding structure with reference to the specification by page and line number, and to the drawing, if any, by reference characters in response to this Office action.

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If applicant does not intend to have the claim limitation(s) treated under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, applicant may amend the claim(s) so that it/they will clearly not invoke 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, or present a sufficient showing that the claim recites/recite sufficient structure, material, or acts for performing the claimed function to preclude application of 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph.

For more information, see MPEP § 2173 *et seq.* and *Supplementary Examination Guidelines for Determining Compliance With 35 U.S.C. 112 and for Treatment of Related Issues in Patent Applications*, 76 FR 7162, 7167 (Feb. 9, 2011).

Claim Rejections - 35 USC § 103

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

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

1. Claims 1, 4, 5, 8, and 12 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over 20110086615 (**Golder**) in view of US 20060123242 (**Merrem**).

Regarding claim 1, Golder discloses that "A mobile terminal configured to switch between an unlocked and a locked state in which a predetermined operation is limited, comprising:

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a communication unit (**Golder, Fig. 1 and [0023], lines 2-3: Bluetooth transceiver 15 and antenna 16**) configured to perform short-range wireless communications (**Golder, Fig. 1 and [0023], lines 2-3: Bluetooth transceiver 15 and antenna 16, wherein Bluetooth is a short-range wireless communication**);

a storage unit configured to previously store information about another mobile terminal (**Golder, Fig. 1 and [0020], last 4 lines: on pairing with each other, the devices store credentials that allow them to link automatically with each other, wherein it is construed that device 14 as shown in Fig. 1 has a storage unit storing information about another mobile terminal, device 1**); and

a control unit (**Golder, Fig. 1 and [0025], lines 8-9: .. device 14 has been switched off, wherein it is construed that a switch is used to switch device 14 between locked and unlocked states, i.e., Off and ON**) configured to switch the mobile terminal between an unlocked and a locked state based on an operation of a user (**Golder, Fig. 1 and [0025], lines 8-9: .. device 14 has been switched off, wherein it is construed that a switch is used to switch device 14 between locked and unlocked states, i.e., OFF and ON, by the user**);

wherein the control unit controls the mobile terminal to transmit information for switching a state of the another terminal from a locked state to an unlocked state to the another mobile terminal under a predetermined condition (**Golder, the another mobile terminal, i.e., mobile phone 1, is within the Bluetooth communication range as shown in steps 20 and 21 of Fig. 2, wherein the mobile phone 1 is switched from a locked state to a unlocked state and the predetermined condition is that the**

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devices are within the Bluetooth communication range) when any one of the following steps is performed:

performing the short-range wireless communications with the another mobile terminal by the communication unit (**Golder, Fig. 2 and [0025], lines 1-4: the mobile phone 1 is in unlocked state until it is determined that signals from the paired device 14 can no longer be detected, wherein the short-range wireless communication with another mobile terminal (i.e., mobile phone 1) by the communication unit (i.e., Bluetooth transceiver 15 of device 14) is performed) and** switching a state of the mobile terminal from a locked state to an unlocked state based on the operation of a user when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit (**Golder, Fig. 1 and [0025], lines 8-9: .. device 14 has been switched off, wherein it is construed that the user operation is to switch ON device 14; and the another mobile terminal, i.e., mobile phone 1, is within the Bluetooth communication range as shown in steps 20 and 21 of Fig. 2, and wherein the mobile phone 1 is switched from a locked state to a unlocked state);**

performing the short-range wireless communications with the another mobile terminal by the communication unit [[and a biometrics authentication of a user]] when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit (**Golder, the another mobile terminal, i.e., mobile phone 1, is within the Bluetooth communication**

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range as shown in steps 20 and 21 of Fig. 2, wherein the mobile phone 1 is switched from a locked state to a unlocked state)."

But, **Golder** does not explicitly disclose "a biometrics authentication of a user."

However, **Merrem** teaches "a biometrics authentication of a user (Merrem, Fig. 4 and [0050], lines 1-6: Biometric identifier 402 is configured to receive captured information from capture device 110. Biometric identifier 402 is then configured to determine a biometric identification from the information received from capture device 110. For example, a fingerprint may be scanned for capture device 110. Biometric identifier 402 is configured to produce a digital image of the fingerprint. The biometric identification is then sent to processor 404; and [0051], last line: ... then the user is verified)."

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the mobile terminal of **Golder** to include the teaching of **Merrem** so that more secure biometrics, such as fingerprint, authentication can be employed to improve the security of the device whereas a key or a combination lock can be stolen or misplaced.

Regarding claim 4, Golder further discloses that "The mobile terminal according to claim 1, wherein: before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user (**Golder, Fig. 2 and [0026]: the determination of whether the mobile phone 1 is to be in the locked state or the unlocked state can be configured by the user, wherein the confirmation is received from the user).**"

Regarding claim 5, Golder further discloses that “A mobile terminal according to claim 1, wherein: the control unit performs short-range wireless communications with the another mobile terminal by the communication unit and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the storage unit and is in communication range of the short-range wireless communications by the communication unit when the mobile terminal is in a locked state (**Golder, Fig. 1 and [0025], lines 8-9: ... device 14 has been switched off (or in a locked state), wherein it is construed that the user operation is to switch ON device 14; and the another mobile terminal, i.e., mobile phone 1, is within the Bluetooth communication range as shown in steps 20 and 21 of Fig. 2, and wherein the mobile phone 1 is switched from a locked state to a unlocked state).**”

Regarding claim 8, the claim is interpreted and rejected for the same reason set forth in claim 1 above.

Regarding claim 12, the claim is interpreted and rejected for the same reason set forth in claim 5 above.

2. Claims 3 and 10 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over 20110086615 (**Golder**) and US 20060123242 (**Merrem**) in view of US 20060128305 (**Delalat**).

Regarding claim 3, Golder and Merrem disclose the features of claim 1, but do not expressly disclose that wherein: the communication unit, based on an operation of a user, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

However, **Delalat** teaches that wherein: the communication unit, based on an operation of a user, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications (**Delalat, Fig. 5: at step 49, Ask for password, and at step 73, send locked message, wherein it is construed that a signal which is a locked message is sent to the another mobile terminal based on user entering a password**).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the mobile terminal of Satou and Kakiuchi to include the teaching of Delalat so that security can be improved by a user entering a password before transiting the another mobile terminal to a locked state.

Regarding claim 10, the claim is interpreted and rejected for the same reason set forth in claim 3 above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONG-CHANG SHIUE whose telephone number is

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(313)446-6552. The examiner can normally be reached on Monday-Friday; 8 - 4:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wesley Kim can be reached on 571-272-7867. 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.

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

/WESLEY KIM/
Supervisory Patent Examiner, Art Unit 2648

Notice of References Cited	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A US-2006/0123242 A1	06-2006	Merrem; Ralph	E05B73/0082	713/186
B	US-				
C	US-				
D	US-				
E	US-				
F	US-				
G	US-				
H	US-				
I	US-				
J	US-				
K	US-				
L	US-				
M	US-				


FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)				
U					
V					
W					
X					

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

Index of Claims 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

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

CLAIM		DATE							
Final	Original	12/15/2014	02/04/2016	07/19/2016					
	1	✓	✓	✓					
	2	✓	-	-					
	3	✓	✓	✓					
	4	✓	✓	✓					
	5	✓	✓	✓					
	6	✓	-	-					
	7	✓	-	-					
	8	✓	✓	✓					
	9	✓	-	-					
	10	✓	✓	✓					
	11	✓	-	-					
	12		✓	✓					

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	3	"20060123242".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/19 23:18
L5	0	"20060123242".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/19 23:18
L4	15	(secure authenticat\$3) with (fingerprint biometric) with (nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/19 21:24
L3	465	(secure authenticat\$3) with (fingerprint biometric) with (nfc ("near" adj field) bluetooth (short\$1range)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/19 21:23
L2	1453	(secure authenticat\$3) with (fingerprint biometric) same (nfc ("near" adj field) bluetooth (short\$1range)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/19 21:23
L1	0	(secure authenticat\$3) with (fingerprint biometric) same (nfc ("near" adj field) bluetooth (short\$1range)) near5 (lock\$3 unlock\$3) near3 (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/19 21:22
S317	29	(phone mobile portable) near5 (nfc ("near" adj field) bluetooth (short\$1range)) near5 (lock\$3 unlock\$3) near3 (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/18 22:47
S316	478	(phone mobile portable) near5 (nfc	US-PGPUB;	OR	ON	2016/07/18

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		("near" adj field) bluetooth (short\$1range) near5 (lock\$3 unlock\$3 control\$4) near3 (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			22:46
S315	1413	(phone mobile portable) near5 (nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3 control\$4) with (portable) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/18 22:45
S314	12	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with ((second another) near3 (phone mobile)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/18 22:27
S313	0	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with ((seond another) near3 (phone mobile)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/18 22:27
S312	737	(nfc ("near" adj field) bluetooth (short\$1range)) with (mobile phone) with (lock\$3 unlock\$3) with ((phone mobile)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/18 22:27
S311	737	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with ((phone mobile)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/18 22:26
S310	737	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3 (trun adj on)) with ((phone mobile)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/18 22:25
S309	36	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3 (trun adj on)) with ((television tv)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/18 22:24
S308	6	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with ((another second) adj (mobile phone pda device equipment apparatus electoric)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2016/07/18 21:43

		or @prad<"20120523")	IBM_TDB			
S307	4	(nfc ("near" adj field) bluetooth (short\$1range)) with (lock\$3 unlock\$3) with ((another second) adj (mobile phone pda device equipment apparatus electric)) and (@pd<"20120523" or @ad<"20120523" or @rlad<"20120523" or @prad<"20120523")	USPAT	OR	ON	2016/07/18 21:43
S306	36	("2006/0128305").URPN.	USPAT	OR	ON	2016/07/18 21:11
S305	17	("20010015694" "20010043659" "20030086387" "20030139878" "20040203384" "20040239484" "20060003788" "20060217063" "4825210" "5781121" "6370200" "6438367" "6456976" "7063400" "7603511" "7668556").PN. OR ("8564402").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/07/18 21:05
S304	3	"8564402".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/18 21:05
S303	7	("20020032786" "20040203895" "20060128305" "20070229221" "20090021350" "20100099394" "6154665").PN. OR ("8818335").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/07/18 17:48
S302	1	"8818335".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2016/07/18 17:48
S301	89	(secure authenticat\$3) with (face image) and (455/26.1 455/41.2).cls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S300	1198	(secure authenticat\$3) with (face image) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S299	4	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/07/17 21:52
S298	5	"8825021".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S297	10	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/07/17 21:52

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			EPO; JPO; DERWENT; IBM_TDB			
S296	3	"20130095802".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S295	2	"8041340".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S294	12	(authenticat\$3 recogni\$4 match\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S293	4	(authenticat\$3) with (face) same (short- range (short adj range)) and "455".clas. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S292	6606	(authenticat\$3) with (face) and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S291	0	14/874535	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S290	2	("6148205").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S289	103	("20030122655" "20020078393" "6594762" "5646593" "6144314" "20020123325" "6433685" "6326891" "20020121975" "6804699" "6148205" "5712973" "5960085" "6175922" "4639726" "20010002211" "20010007817" "20020016838" "20020121975" "6609656" "6901057" "6087937" "6804699" "5842118"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52

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		"6150928" "20020077060" "6678728" "6408172" "6081704" "20020091785" "6614350" "6631271" "6449726" "6124805" "6174205" "6181284" "20020077077" "20010053947" "5345383").PN.				
S288	8	("20020108058" "20040056759" "20040192303" "20090183241" "6643781" "7415605" "7607015" "7674298").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/07/17 21:52
S287	31	("7674298").URPN.	USPAT	OR	ON	2016/07/17 21:52
S286	217	S285 and (lock\$3 un-lock\$3 unlock\$3) with (short-range (short adj range) bluetooth blue-tooth NFC ("near" adj field))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S285	72962	(H04W12/\$).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S284	1281	(H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S283	8590	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S282	24	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$).did.	US-PGPUB; USPAT	OR	ON	2016/07/17 21:52
S281	24	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-	US-PGPUB; USPAT	OR	ON	2016/07/17 21:52

		2010062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967-\$ or US-20030048174-\$ or US-20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$ or US-8791790-\$).did.				
S280	7579	(H04M1/66 H04B7/00 H04L9/32).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S279	25	("20090232041" "6535494" "7817588" "8027666" "7266373" "7110747" "20050037734" "20070202807" "7460863").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S278	5	S276 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S277	75	S276 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S276	36345	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S275	0	S273 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S274	12	S273 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S273	170	S272 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/07/17 21:52

			DERWENT; IBM_TDB			
S272	36345	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S271	13	S269 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S270	49	S269 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S269	103	S268 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S268	9710	(455/26.1 455/41.2).cls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S267	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S266	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S265	22	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short-range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S264	21	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR;	OR	ON	2016/07/17 21:52

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S263	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S262	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S261	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S260	11	S258 and S259	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S259	43277	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S258	902	S257 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S257	9710	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S256	5	("6070240" "6747546").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S255	19	(US-20110195665-\$ or US-	US-PGPUB;	OR	ON	2016/07/17

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		20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.	USPAT			21:52
S254	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S253	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S252	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S251	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S250	3151	(H04W12/00 H04L9/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S249	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S248	1281	H04W12/00.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S247	9710	(455/26.1 455/41.2).ccls. and	US-PGPUB;	OR	ON	2016/07/17

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		@ad< "20120523"	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			21:52
S246	18	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/07/17 21:52
S245	122	S244 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S244	9710	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S243	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S242	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S241	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/07/17 21:52
S240	2	("7283812").URPN.	USPAT	OR	ON	2016/07/17 21:52
S239	12142	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S238	62	NI SHI JIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/07/17 21:52

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			EPO; JPO; DERWENT; IBM_TDB			
S237	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S236	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S235	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S234	386	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S233	2	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S232	122	S231 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S231	9710	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S230	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S229	3	"20110086615".pn.	US-PGPUB; USPAT;	OR	ON	2016/07/17 21:52

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S228	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/07/17 21:52
S227	2	("7283812").URPN.	USPAT	OR	ON	2016/07/17 21:52
S226	12	S224 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S225	149	S224 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S224	9710	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S223	12142	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S222	62	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S221	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S220	905	NISHIJIMA.in. and Hideo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S219	19	NISHIJIMA.in. and Hide.in.	US-PGPUB;	OR	ON	2016/07/17

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			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			21:52
S218	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S217	386	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S216	2	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S215	5	S213 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S214	75	S213 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S213	36345	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S212	0	S210 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S211	12	S210 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2016/07/17 21:52

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			IBM_TDB			
S210	170	S209 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S209	36345	H04W12/06.cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S208	13	S206 and ((GPS (global adj position\$3)) same (second auxilliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S207	49	S206 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S206	103	S205 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S205	9710	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S204	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S203	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S202	22	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short-range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2016/07/17 21:52

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			EPO; JPO; DERWENT; IBM_TDB			
S201	21	@ad<"20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short-range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S200	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S199	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S198	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S197	11	S195 and S196	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S196	43277	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S195	902	S194 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S194	9710	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S193	5	("6070240" "6747546").pn.	US-PGPUB; USPAT;	OR	ON	2016/07/17 21:52

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S192	19	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$ or US-20060224882-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/07/17 21:52
S191	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S190	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S189	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S188	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S187	3151	(H04W12/00 H04L9/00).cpc. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S186	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S185	1281	H04W12/00.cpc. and @ad<"20120523"	US-PGPUB; USPAT;	OR	ON	2016/07/17 21:52

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S184	9710	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S183	18	(US-20110195665-\$ or US-20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378-\$ or US-20100144275-\$ or US-20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562-\$ or US-20060128305-\$ or US-20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US-8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2016/07/17 21:52
S182	122	S181 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentivat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S181	9710	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S180	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S179	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S178	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/07/17 21:52
S177	2	("7283812").URPN.	USPAT	OR	ON	2016/07/17 21:52
S176	12142	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2016/07/17 21:52

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			DERWENT; IBM_TDB			
S175	62	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S174	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S173	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S172	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S171	386	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S170	2	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S169	122	S168 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S168	9710	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S167	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR;	OR	ON	2016/07/17 21:52

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S166	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S165	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/07/17 21:52
S164	2	("7283812").URPN.	USPAT	OR	ON	2016/07/17 21:52
S163	12	S161 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S162	149	S161 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S161	9710	(455/26.1 455/41.2).ccls. and @ad<"20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S160	12142	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S159	62	NI SHI JIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S158	0	NI SHI JIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S157	905	NI SHI JIMA.in. and Hideo.in.	US-PGPUB; USPAT;	OR	ON	2016/07/17 21:52

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S156	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S155	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S154	386	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52
S153	2	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/17 21:52

EAST Search History (Interference)

< This search history is empty >

7/ 19/ 2016 11:36:28 PM**C:\Users\dshiue\Documents\EAST\Workspaces\13874535.wsp**

Search Notes 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

CPC- SEARCHED		
Symbol	Date	Examiner
H04W12/06	12/15/2014	DS
H04L63/0492	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	26.1, 41.2	12/15/2014	DS

SEARCH NOTES		
Search Notes	Date	Examiner
EAST (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	12/15/2014	DS
Inventor/Assignee search in EAST and eDAN	12/15/2014	DS
Consulted with Lewis West	12/15/2014	DS
Updated search	2/4/2016	DS
Updated search	7/19/2016	DS

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

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

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

Application Number	13/874,535	Filing Date	2013-05-01	Docket Number (if applicable)	072388.0418	Art Unit	2648
First Named Inventor	Masayuki HIRABAYASHI			Examiner Name	SHIUE, Dong-Chang		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not comply with the requirements of 35 U.S.C. 371, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV.

SUBMISSION REQUIRED UNDER 37 CFR 1.114

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

- Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.
- Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- Other _____
- Enclosed
- Amendment/Reply
- Information Disclosure Statement (IDS)
- Affidavit(s)/ Declaration(s)
- Other _____

MISCELLANEOUS

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

FEES

- The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to
Deposit Account No 024377

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

<input checked="" type="checkbox"/> Patent Practitioner Signature
<input type="checkbox"/> Applicant Signature

Signature of Registered U.S. Patent Practitioner			
Signature	Henry Chen/	Date (YYYY-MM-DD)	2016-07-11
Name	Henry Chen	Registration Number	67587

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hirabayashi, *et al.* Examiner: Shiue, Dong-Chang
Serial No.: 13/874,535 Confirmation No.: 9744
Filed: May 1, 2013 Art Unit: 2648
Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF

AMENDMENT AND REQUEST FOR CONTINUED EXAMINATION

FILED ELECTRONICALLY

MAIL STOP: AF

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

Sir:

In response to the Final Office Action dated February 10, 2016, for which, pursuant to 37 C.F.R. §1.136(a), a two-month extension of time is hereby requested, the following amendments and remarks are submitted and reconsideration of the claim rejections is respectfully requested.

A Request for Continued Examination is filed herewith.

Amendments to the Claims begin on page 2 of this document.

Remarks begin on page 6 of this document.

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A mobile terminal configured to switch between an unlocked a
~~locked and a un~~locked state in which a predetermined operation is limited, comprising:

a communication unit configured to perform short-range wireless
communications;

a storage unit configured to previously store information about another mobile
terminal; and

a control unit configured to switch the mobile terminal between an unlocked a
~~locked and a un~~locked state based on an the operation of a user;

wherein the control unit controls the mobile terminal to transmit information for
switching a state of the another terminal be switched from a locked state to an unlocked state to
the another mobile terminal under a predetermined condition when any one of the following
steps is performed:

performing the short-range wireless communications with the another mobile
terminal by the communication unit and switching a state of the mobile terminal from a locked
state to an unlocked state based on the operation of a user when the another mobile terminal
stored in the storage unit is in communication range of the short-range wireless communications
of the communication unit; and

performing the short-range wireless communications with the another mobile
terminal by the communication unit and a biometrics authentication of a user when the another
mobile terminal stored in the storage unit is in communication range of the short-range wireless
communications of the communication unit ~~an authentication of a face of a user.~~

2. (Cancelled).

3. (Previously presented) The mobile terminal according to claim 1, wherein:

the communication unit, based on an operation of a user, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

4. (Previously presented) The mobile terminal according to claim 1, wherein:

before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user.

5. (Previously presented) A mobile terminal according to claim 1, wherein:

the control unit performs short-range wireless communications with the another mobile terminal by the communication unit and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the storage unit and is in communication range of the short-range wireless communications by the communication unit when the mobile terminal is in a locked state

6. (Cancelled).

7. (Cancelled).

8. (Currently Amended) A method for controlling a mobile terminal to transit between an unlocked and ~~to~~ a locked state in which a predetermined operation is limited, comprising the steps of:

performing short-range wireless communications;

storing information about another mobile terminal in a storage unit; and

wherein the mobile terminal is transited between an unlocked and a locked state ~~from a locked state to an unlocked state~~ under a predetermined condition based on the operation of a user when any one of the following steps is performed:

performing the short-range wireless communications with the another mobile terminal and switching a state of the mobile terminal from a locked state to an unlocked state based on the operation of a user when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications; and

performing the short-range wireless communications with the another mobile terminal and a biometrics authentication of a user when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit ~~an authentication of a face of a user.~~

9. (Cancelled).

10. (Previously presented) A method according to claim 8, further comprising:

based on an operation of a user, transmitting, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

11. (Cancelled).

12. (Previously presented) A method according to claim 8, further comprising:

performing short-range wireless communications with the another mobile terminal and setting the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the storage unit and is in communication range of the short-range wireless communications when the mobile terminal is in a locked state.

REMARKS

Claims 1, 3-5, 8, 10, and 12 are pending in this application. Upon entry of this Amendment, claims 1 and 8 are amended. Support for the amendments may be found throughout the specification, for example in paragraphs [0033], [0037]-[0038], [0065]-[0070], [0083], [0092], and [0098]-[0099] of the published application. Thus, Applicant respectfully submits that no new matter is being added by the Amendments to the Claims.

Rejection of Claims 1, 3-5, 8, 10, and 12 under 35 U.S.C. § 103(a)

Claims 1, 5, 8, and 12 are rejected under 35 U.S.C. § 103(a) as being unpatentable over US 2010/0144275 (Satou), in view of US 2007/0287423 (Kakiuchi). Claims 3 and 10 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Satou and Kakiuchi, in view of US 2006/0128305 (Delalat). Claim 4 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Satou and Kakiuchi, in view of US 2011/0086615 (Golder).

Independent claim 1 is hereby amended to recite, *inter alia*, the features “performing the short-range wireless communications with the another mobile terminal by the communication unit and switching a state of the mobile terminal from a locked state to an unlocked state based on the operation of a user when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit,” and “performing the short-range wireless communications with the another mobile terminal by the communication unit and a biometrics authentication of a user when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit.” Independent claim 8 is hereby amended to recite, *inter alia*, similar features. No such configuration is disclosed or suggested by Satou or

Kakuichi, taken alone or in any combination. Furthermore, Delalat or Golder were not cited as support for and do not disclose the above features.

Accordingly, Applicant submits that the rejection of independent claims 1 and 8 under 35 U.S.C. § 103(a) should be withdrawn. Applicant submits dependent claims 3-5 are allowable at least for depending from allowable independent claim 1, and dependent claims 10 and 12 are allowable at least for depending from allowable independent claim 8. Accordingly, Applicant submits that the rejection of claims 1, 3-5, 8, 10, and 12 under 35 U.S.C. § 103(a) should be withdrawn.

CONCLUSION

On the basis of the foregoing remarks, Applicant respectfully submits that the pending claims of the present application are allowable over the prior art of record. Applicant thus respectfully requests the previous rejections be withdrawn, and that the pending claims be allowed by the Examiner. Favorable consideration and timely allowance of this application are respectfully requested.

This Amendment is being made solely to expedite prosecution of the present application and does not constitute an acquiescence to any prior art, objections, or rejections identified by the Examiner. Applicant's silence with regard to the Examiner's rejections of the dependent claims constitutes a recognition by Applicant that the rejections are moot based on Applicant's Amendment and/or Remarks regarding the independent claim from which the dependent claims depend.

Please charge the required fee for extending the time for a response within the second month after the period for response, pursuant to 37 C.F.R. § 1.17(b), to Deposit Account 02-4377. Applicant authorizes the Commissioner to charge any additional fees and/or credit any overpayments associated with this paper to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418. Further, if a fee is required for an extension of time under 37 C.F.R.

§ 1.136 not provided for above, Applicant requests such extension and authorizes the charging of the extension fee to Baker Botts L.L.P. Deposit Account No. 02-4377, Ref. No. 072388.0418.

Respectfully submitted,

BAKER BOTTS L.L.P.

Dated: July 11, 2016

By: /Henry Chen/
Henry Chen
Registration No. 67,587

Attorney for Applicant

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New York, NY 10112-4498
(212) 408-2597 (telephone)
(212) 259-2597 (facsimile)

Electronic Patent Application Fee Transmittal

Application Number:	13874535
Filing Date:	01-May-2013
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Filer:	Robert C. Scheinfeld/Hiroko Lavietes
Attorney Docket Number:	072388.0418

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 2 months with \$0 paid	1252	1	600	600
Miscellaneous:				
Request for Continued Examination	1801	1	1200	1200
Total in USD (\$)				1800

Electronic Acknowledgement Receipt

EFS ID:	26307327
Application Number:	13874535
International Application Number:	
Confirmation Number:	9744
Title of Invention:	MOBILE TERMINAL AND CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Masayuki HIRABAYASHI
Customer Number:	21003
Filer:	Robert C. Scheinfeld/Hiroko Lavietes
Filer Authorized By:	Robert C. Scheinfeld
Attorney Docket Number:	072388.0418
Receipt Date:	11-JUL-2016
Filing Date:	01-MAY-2013
Time Stamp:	12:18:37
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1800
RAM confirmation Number	9871
Deposit Account	024377
Authorized User	BAKER BOTTS L.L.P.

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

IPR2020-00202

Charge any Additional Fees required under 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Extension of Time	EOT.pdf	170623	no	2
			6e053f1a7af5b6b6a5aaee3678930cdb35cdef1		

Warnings:

Information:

2	Request for Continued Examination (RCE)	RCE.pdf	1349871	no	3
			b88ceba6c2a945a567739a8c71ab3d3ed03abd9		

Warnings:

Information:

3		Amendment.pdf	151864	yes	9
			dd5469664a986fa4fa3062913ee373f17c7e4437		

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment Submitted/Entered with Filing of CPA/RCE	1	1
Claims	2	5
Applicant Arguments/Remarks Made in an Amendment	6	9

Warnings:

Information:

4	Fee Worksheet (SB06)	fee-info.pdf	32578	no	2
			486087dd480b09ebecf2ff7b1d091e883c13fd15		

Warnings:

Information:

Total Files Size (in bytes): 1704936

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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.

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.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) 072388.0418																														
Application Number 13/874,535	Filed 05-01-2013																															
For MOBILE TERMINAL AND CONTROL METHOD THEREOF																																
Art Unit 2648	Examiner SHIUE, DONG-CHANG																															
<p>This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.</p> <p>The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="text-align: center; border-bottom: 1px solid black;">Fee</th> <th style="text-align: center; border-bottom: 1px solid black;">Small Entity Fee</th> <th style="text-align: center; border-bottom: 1px solid black;">Micro Entity Fee</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> One month (37 CFR 1.17(a)(1))</td> <td style="text-align: center;">\$200</td> <td style="text-align: center;">\$100</td> <td style="text-align: center;">\$50</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td><input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2))</td> <td style="text-align: center;">\$600</td> <td style="text-align: center;">\$300</td> <td style="text-align: center;">\$150</td> <td style="text-align: center;">\$ <u>600</u></td> </tr> <tr> <td><input type="checkbox"/> Three months (37 CFR 1.17(a)(3))</td> <td style="text-align: center;">\$1,400</td> <td style="text-align: center;">\$700</td> <td style="text-align: center;">\$350</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td><input type="checkbox"/> Four months (37 CFR 1.17(a)(4))</td> <td style="text-align: center;">\$2,200</td> <td style="text-align: center;">\$1,100</td> <td style="text-align: center;">\$550</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td><input type="checkbox"/> Five months (37 CFR 1.17(a)(5))</td> <td style="text-align: center;">\$3,000</td> <td style="text-align: center;">\$1,500</td> <td style="text-align: center;">\$750</td> <td style="text-align: center;">\$ _____</td> </tr> </tbody> </table> <p><input type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27.</p> <p><input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.</p> <p><input type="checkbox"/> A check in the amount of the fee is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director has already been authorized to charge fees in this application to a Deposit Account.</p> <p><input checked="" type="checkbox"/> The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number <u>02-4377</u>.</p> <p><input checked="" type="checkbox"/> Payment made via EFS-Web.</p> <p>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p>I am the</p> <p><input type="checkbox"/> applicant.</p> <p><input checked="" type="checkbox"/> attorney or agent of record. Registration number <u>67,587</u>.</p> <p><input type="checkbox"/> attorney or agent acting under 37 CFR 1.34. Registration number _____.</p> <p><u>/Henry Chen/</u> <u>July 11, 2016</u></p> <p style="text-align: center;">Signature Date</p> <p><u>Henry Chen</u> <u>212-408-2500</u></p> <p style="text-align: center;">Typed or printed name Telephone Number</p> <p>NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.</p>				Fee	Small Entity Fee	Micro Entity Fee		<input type="checkbox"/> One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ _____	<input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ <u>600</u>	<input type="checkbox"/> Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ _____	<input type="checkbox"/> Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____	<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____
	Fee	Small Entity Fee	Micro Entity Fee																													
<input type="checkbox"/> One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ _____																												
<input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ <u>600</u>																												
<input type="checkbox"/> Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ _____																												
<input type="checkbox"/> Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____																												
<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____																												
<input type="checkbox"/> * Total of _____ forms are submitted.																																

This collection of information is required by 37 CFR 1.136(a). 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 6 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: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Privacy Act Statement

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

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

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

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/874,535	Filing Date 05/01/2013	<input type="checkbox"/> To be Mailed
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ENTITY: LARGE SMALL MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =	
<input type="checkbox"/> 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).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	07/11/2016	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR			
	Total (37 CFR 1.16(i))	* 7	Minus	** 20	= 0	X \$80 = 0
	Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X \$420 = 0
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

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

LIE
 SHIRELL M. CARMICHAEL

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

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/874,535 05/01/2013 Masayuki HIRABAYASHI 072388.0418 9744

21003 7590 02/10/2016
BAKER BOTTS L.L.P.
30 ROCKEFELLER PLAZA
44TH FLOOR
NEW YORK, NY 10112-4498

EXAMINER

SHIUE, DONG-CHANG

ART UNIT PAPER NUMBER

2648

NOTIFICATION DATE DELIVERY MODE

02/10/2016

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

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

DLNYDOCKET@BAKERBOTTSCOM

DETAILED ACTION

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

Response to Amendment

- Claims 1, 3, 5, 8, and 10 are amended.
- Claims 2, 6, 7, 9, and 11 are canceled.
- Claim 12 is newly added.
- Claims 1, 3-5, 8, 10, and 12 are pending.
- In view of Applicant's amendment and arguments regarding rejections to claims 5 and 9, the rejections under 35 U.S.C. 112 (pre-AIA), second paragraph are hereby withdrawn.

Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are moot because the arguments do not apply to the combination of the primary reference and a new secondary reference being used in the current rejection.

Claim Rejections - 35 USC § 103

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

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

Art Unit: 2648

said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1, 5, 8, and 12 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US 20100144275 (**Satou**) in view of US 20070287423 (**Kakiuchi**).

Regarding claim 1, Satou discloses that “A mobile terminal configured to switch between a locked and unlocked state in which a predetermined operation is limited, comprising:

a communication unit configured to perform short-range wireless communications (**Satou, Fig. 2 and [0062]: a short-range wireless transmission-reception section 161**);

a storage unit configured to previously store information about another mobile terminal (**Satou, Fig. 2 and [0062]: an authentication ID storage section 163; and [0065]: The authentication ID storage section 163 stores the identification ID unique to the controlled device 2 and the identification ID unique to the mobile terminal 1 paired previously with the wireless communication unit 16**); and

a control unit (**Golder, Fig. 2: Short-range wireless control section 162**) configured to switch the mobile terminal between a locked and unlocked state based on the operation of a user (**Golder, Fig. 2 and [0025]: The mobile phone 1 can then be unlocked only by the user successfully performing a predetermined authentication process such as entering a passcode correctly. Steps 23 and 24**);

wherein the control unit controls the mobile terminal to be switched from a locked state to an unlocked state under a predetermined condition when any one of the following steps is performed:

performing the short-range wireless communications with the another mobile terminal by the communication unit when the another mobile terminal stored in the storage unit is in communication range of the short-range wireless communications of the communication unit **(Satou, Fig. 1 and [0056]: The inside of a circle called communication area (the outer circle of the two circles in FIG. 1) is the range in which the mobile terminal 1 can conduct wireless communications with a controlled device positioned within the circle. The mobile terminal 1 performs authentication processing with the controlled device positioned inside the communication area, wherein the examiner construes that the mobile unit is switched from a locked state to an unlocked state after authentication is completed);**

But, Satou does not explicitly disclose that performing an authentication of a face of a user.

However, **Kakiuchi** teaches that “performing an authentication of a face of a user **(Kakiuchi, Fig. 1 and [0058]: authentication is performed by urging the user to photograph the face image and comparing the face authentication image photographed with a camera 15 and a registered image registered in the face image registration DB 16 in advance).**”

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the mobile terminal of Satou to include the teaching of Kakiuchi so that security can be improved; and face authentication is an identification method normally performed by people in ordinary living, and is often adopted since psychological resistance is small, it can be achieved with small investment since devices that can perform imaging are increasing with widespread use of CCD (Charge Coupled Device) camera etc ([0005]).

Regarding claim 5, Satou further discloses that “A mobile terminal according to claim 1, wherein: the control unit performs short-range wireless communications with the another mobile terminal by the communication unit and sets the mobile terminal to be in an unlocked state when the another mobile terminal is stored in the storage unit and is in communication range of the short-range wireless communications by the communication unit when the mobile terminal is in a locked state **(Satou, Fig. 1 and [0056]: The inside of a circle called communication area (the outer circle of the two circles in FIG. 1) is the range in which the mobile terminal 1 can conduct wireless communications with a controlled device positioned within the circle. The mobile terminal 1 performs authentication processing with the controlled device positioned inside the communication area, wherein the examiner construes that the mobile unit is switched from a locked state to an unlocked state after authentication is completed).**”

Regarding claim 8, the claim is interpreted and rejected for the same reason set forth in claim 1 above.

Regarding claim 12, the claim is interpreted and rejected for the same reason set forth in claim 5 above.

2. Claims 3 and 10 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US 20100144275 (**Satou**) and US 20070287423 (**Kakiuchi**) in view of US 20060128305 (**Delalat**).

Regarding claim 3, Satou and Kakiuchi disclose the features of claim 1, but do not expressly disclose that wherein: the communication unit, based on an operation of a user, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications.

However, **Delalat** teaches that wherein: the communication unit, based on an operation of a user, transmits, to the another mobile terminal, a signal to transit the another mobile terminal to a locked state by performing the short-range wireless communications (**Delalat, Fig. 5: at step 49, Ask for password, and at step 73, send locked message, wherein it is construed that a signal which is a locked message is sent to the another mobile terminal based on user entering a password**).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the mobile terminal of Satou and Kakiuchi to

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include the teaching of Delalat so that security can be improved by a user entering a password before transiting the another mobile terminal to a locked state.

Regarding claim 10, the claim is interpreted and rejected for the same reason set forth in claim 3 above.

3. Claim 4 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US 20100144275 (**Satou**) and US 20070287423 (**Kakiuchi**) in view of US 20110086615 (**Golder**).

Regarding claim 4, Satou and Kakiuchi disclose the features of claim 1, but do not expressly disclose that wherein: before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user.

However, **Golder** teaches that “wherein: before unlocking the another mobile terminal, the mobile terminal requests confirmation from a user (**Golder, Fig. 2 and [0026]: the determination of whether the mobile phone 1 is to be in the locked state or the unlocked state can configured by the user, wherein the confirmation is received from the user**).”

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the mobile terminal of Satou and Kakiuchi to include the teaching of Golder in order to require a user to enter a password, which is a

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part of the configuration, before the device can be activated or unlocked. This provides a certain level of security ([0004]).

Conclusion

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

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

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONG-CHANG SHIUE whose telephone number is (313)446-6552. The examiner can normally be reached on Monday-Friday; 8 - 4:30 EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wesley Kim can be reached on 571-272-7867. 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.

/DONG-CHANG SHIUE/
Examiner, Art Unit 2648

/LEWIS WEST/

Primary Examiner, Art Unit 2648

Notice of References Cited	Application/Control No. 13/874,535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.	
	Examiner DONG-CHANG SHIUE	Art Unit 2648	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A US-2007/0287423 A1	12-2007	Kakiuchi; Takashi	G06Q20/32	455/411
	B US-				
	C US-				
	D US-				
	E US-				
	F US-				
	G US-				
	H US-				
	I US-				
	J US-				
	K US-				
	L US-				
	M US-				


FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)				
	U				
	V				
	W				
	X				

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

Index of Claims 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

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

CLAIM		DATE							
Final	Original	12/15/2014	02/04/2016						
	1	✓	✓						
	2	✓	-						
	3	✓	✓						
	4	✓	✓						
	5	✓	✓						
	6	✓	-						
	7	✓	-						
	8	✓	✓						
	9	✓	-						
	10	✓	✓						
	11	✓	-						
	12		✓						

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number	13/874,535
	Filing Date	05-01-2013
	Inventor(s)	M. HIRABAYASHI et al.
	Art Unit	2648
	Examiner Name	SHIUE, DONG-CHANG
	Attorney Docket Number	072388.0418

U.S. PATENT DOCUMENTS				
Exam. Initial.	No.	Document No.	Issue/Publication Date	Applicant(s)
	1.	2006/0224882 A1	10-05-2006	Chin


FOREIGN PATENT DOCUMENTS				
Exam. Initial.	No.	Document No.	Issue/Publication Date	Applicant(s)
	2.	JP 2006-285965 A	10-19-2006	Microsoft Corp (Corresponds to US 2006/0224882 A1)
	3.	JP 2010-086281 A	04-15-2010	Toshiba Corp

OTHER DOCUMENTS (Non-patent literature)

Exam. Initial.	No.	Include name of Author, Title, Date, Pertinent Pages, Etc.
	4.	Office Action mailed on March 3, 2015, which issued during the prosecution of Japanese Patent Application No. 2012-117105, which corresponds to the present application (partial English translation attached).

Examiner Signature	/DONG-CHANG SHIUE/	Date Considered	07/10/2015
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* Examiner: Initial citation 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.

Search Notes 	Application/Control No. 13874535	Applicant(s)/Patent Under Reexamination HIRABAYASHI ET AL.
	Examiner DONG-CHANG SHIUE	Art Unit 2648

CPC- SEARCHED		
Symbol	Date	Examiner
H04W12/06	12/15/2014	DS
H04L63/0492	12/15/2014	DS
Updated search	2/4/2016	DS

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	26.1, 41.2	12/15/2014	DS

SEARCH NOTES		
Search Notes	Date	Examiner
EAST (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	12/15/2014	DS
Inventor/Assignee search in EAST and eDAN	12/15/2014	DS
Consulted with Lewis West	12/15/2014	DS
Updated search	2/4/2016	DS

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

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number	13/874,535
	Filing Date	05-01-2013
	Inventor(s)	M. HIRABAYASHI et al.
	Art Unit	2648
	Examiner Name	SHIUE, DONG-CHANG
	Attorney Docket Number	072388.0418

FOREIGN PATENT DOCUMENTS				
Exam. Initial.	No.	Document No.	Issue/Publication Date	Applicant(s)
	1.	JP 2002-183866 A	6-28-2002	Kyokuto Sanki KK

OTHER DOCUMENTS (Non-patent literature)

Exam. Initial.	No.	Include name of Author, Title, Date, Pertinent Pages, Etc.
	2.	Office Action mailed June 30, 2015, which issued during the prosecution of Japanese Patent Application No. 2012-117105, which corresponds to the present application (partial English translation attached).

Examiner Signature	/DONG-CHANG SHIUE/	Date Considered	12/16/2015
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* Examiner: Initial citation 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.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S152	89	(secure authenticat\$3) with (face image) and (455/26.1 455/41.2).cls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/02/04 11:17
S151	1196	(secure authenticat\$3) with (face image) and "455".clas. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/02/04 11:16
S150	4	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/02/04 10:59
S149	5	"8825021".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/02/04 10:59
S148	10	("20090097713" "20110159856" "20120280790" "20130052990").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/02/04 10:54
S147	3	"20130095802".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/02/04 10:50
S146	2	"8041340".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/02/03 22:29
S145	12	(authenticat\$3 recogni\$4 match\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/12/18 22:56

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S144	4	(authenticat\$3) with (face) same (short-range (short adj range)) and "455".clas. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/18 22:53
S143	6546	(authenticat\$3) with (face) and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 21:43
S142	0	14/874535	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 13:20
S141	2	("6148205").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 12:03
S140	102	("20030122655" "20020078393" "6594762" "5646593" "6144314" "20020123325" "6433685" "6326891" "20020121975" "6804699" "6148205" "5712973" "5960085" "6175922" "4639726" "20010002211" "20010007817" "20020016838" "20020121975" "6609656" "6901057" "6087937" "6804699" "5842118" "6150928" "20020077060" "6678728" "6408172" "6081704" "20020091785" "6614350" "6631271" "6449726" "6124805" "6174205" "6181284" "20020077077" "20010053947" "5345383").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 12:02
S139	8	("20020108058" "20040056759" "20040192303" "20090183241" "6643781" "7415605" "7607015" "7674298").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2015/12/16 11:58
S138	27	("7674298").URPN.	USPAT	OR	ON	2015/12/16 11:56
S137	202	S136 and (lock\$3 un-lock\$3 unlock\$3) with (short-range (short adj range) bluetooth blue-tooth NFC ("near" adj field))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:40
S136	70870	(H04W12/\$).cpc. and @ad< "20120523"	US-PGPUB;	OR	ON	2015/12/16

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			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			11:38
S135	1240	(H04W12/00).cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:38
S134	8371	(H04M1/66 H04B7/00 H04L9/32 H04W12/00).cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:37
S133	24	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967- \$ or US-20030048174-\$ or US- 20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US- 8019322-\$ or US-8791790-\$).did.	US-PGPUB; USPAT	OR	ON	2015/12/16 11:36
S132	24	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$ or US-20060224882-\$ or US-20100201482-\$ or US-20080014967- \$ or US-20030048174-\$ or US- 20120142379-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US- 8019322-\$ or US-8791790-\$).did.	US-PGPUB; USPAT	OR	ON	2015/12/16 11:36
S131	7385	(H04M1/66 H04B7/00 H04L9/32).cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:35
S130	25	("20090232041" "6535494" "7817588" "8027666" "7266373" "7110747" "20050037734" "20070202807" "7460863").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:23

S129	2	S127 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and ((out adj of adj range) out-of-range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S128	66	S127 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3)) and (NFC short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S127	35235	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S126	0	S124 and ((GPS (global adj position\$3)) same (short-range (short adj range)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S125	11	S124 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S124	158	S123 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S123	35235	H04W12/06.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S122	13	S120 and ((GPS (global adj position\$3)) same (second auxiliary))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S121	49	S120 and (GPS (global adj position\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/12/16 11:17

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			DERWENT; IBM_TDB			
S120	103	S119 and (cellular wireless) same (lock\$3 same (un-lock\$3 unlock\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S119	9631	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S118	2	"20120142379".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S117	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S116	22	@ad< "20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) with (short- range)) and wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S115	21	@ad< "20120523" and (lock\$3 un-lock\$3 unlock\$3) with ((second) near10 (short- range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S114	2	"20100144275".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S113	3	"20080014967".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S112	2	"20100201482".pn.	US-PGPUB; USPAT; USOCR;	OR	ON	2015/12/16 11:17

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S111	11	S109 and S110	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S110	41174	(lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentica\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S109	901	S108 and (second adj wireless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S108	9631	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S107	5	("6070240" "6747546").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S106	19	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$ or US-20060224882- \$.did. or (US-8732458-\$ or US- 8818335-\$ or US-8526915-\$ or US- 8222990-\$ or US-8090364-\$ or US- 8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2015/12/16 11:17
S105	5	("20050095677" "20060224882").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S104	2	jp-2010086281-\$.did.	US-PGPUB; USPAT; USOCR;	OR	ON	2015/12/16 11:17

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S103	2	jp-2006285965-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S102	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S101	3069	(H04W12/00 H04L9/00).cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S100	2	"20060224882".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S99	1240	H04W12/00.cpc. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S98	9631	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S97	18	(US-20110195665-\$ or US- 20090184801-\$ or US-20110215901-\$ or US-20110169654-\$ or US-20100184378- \$ or US-20100144275-\$ or US- 20100120406-\$ or US-20100066507-\$ or US-20030061606-\$ or US-20070126562- \$ or US-20060128305-\$ or US- 20100062712-\$).did. or (US-8732458-\$ or US-8818335-\$ or US-8526915-\$ or US-8222990-\$ or US-8090364-\$ or US- 8019322-\$).did.	US-PGPUB; USPAT	OR	ON	2015/12/16 11:17
S96	122	S95 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authentikat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2015/12/16 11:17

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			EPO; JPO; DERWENT; IBM_TDB			
S95	9631	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S94	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S93	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S92	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2015/12/16 11:17
S91	1	("7283812").URPN.	USPAT	OR	ON	2015/12/16 11:17
S90	11735	(455/26.1 455/41.2).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S89	62	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S88	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S87	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S86	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR;	OR	ON	2015/12/16 11:17

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S85	378	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S84	1	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S83	122	S82 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (proximity range distance RSSI)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S82	9631	(455/26.1 455/41.2).ccls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S81	3	"20060128305".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S80	3	"20110086615".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S79	1	("20110060480").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2015/12/16 11:17
S78	1	("7283812").URPN.	USPAT	OR	ON	2015/12/16 11:17
S77	12	S75 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same (authenticat\$3 key security) and (key adj device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S76	149	S75 and (lock\$3 unlock\$3) with (control\$4 releas\$3) same	US-PGPUB; USPAT;	OR	ON	2015/12/16 11:17

		(authenticated key security)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S75	9631	(455/26.1 455/41.2).cls. and @ad< "20120523"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S74	11735	(455/26.1 455/41.2).cls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S73	62	NISHIJIMA.in. and Hideo.in. and Hitachinaka.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S72	0	NISHIJIMA.in. and Hideo.in. and Hitachinaka.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S71	894	NISHIJIMA.in. and Hideo.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S70	19	NISHIJIMA.in. and Hide.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S69	32	HIRABAYASHI.in. and Masayuki.in. and yokohama.inci.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
S68	378	HIRABAYASHI.in. and Masayuki.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17

S67	1	"13874535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/16 11:17
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EAST Search History (Interference)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hirabayashi *et al.* Examiner: Shiue, Dong-Chang
Serial No.: 13/874,535 Confirmation No.: 9744
Filed: May 1, 2013 Art Unit: 2648
Title: MOBILE TERMINAL AND CONTROL METHOD THEREOF

AMENDMENT AND RESPONSE TO NON-FINAL OFFICE ACTION

FILED ELECTRONICALLY

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

Sir:

In response to the Non-Final Office Action dated December 18, 2014 and Notice of Non-Compliance dated September 30, 2015, the following amendments and remarks are submitted and reconsideration of the claim rejections is respectfully requested.

Amendments to the Claims begin on page 2 of this document.

Remarks begin on page 6 of this document.