PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7696174

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ARISTA HOLDINGS CO. LTD.	12/14/2022

RECEIVING PARTY DATA

Name:	HERMES IP MANAGEMENT LLC
Street Address:	5204 BLUEWATER DRIVE
City:	FRISCO
State/Country:	TEXAS
Postal Code:	75036

PROPERTY NUMBERS Total: 3

Property Type	Number
Patent Number:	8712476
Patent Number:	8855720
PCT Number:	KR2006000232

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 8327259569
Email: do@longhornip.com
Correspondent Name: LONGHORN IP LLC
Address Line 1: 8105 RASOR BLVD. STE 210
Address Line 4: PLANO, TEXAS 75024

NAME OF SUBMITTER:	DO HYUNG KIM
SIGNATURE:	/Do Hyung Kim/
DATE SIGNED:	12/15/2022
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3
source=Hermes assignment#page1.tif
source=Hermes assignment#page2.tif
source=Hermes assignment#page3.tif

Samsung v. Hermes
IPR2025-00872
Exhibit 1014

Addendum A

Patent Assignment

This patent assignment ("Assignment") is entered into as of Dec. 14, 2022 (the "Effective Date"), by and between Arista Holdings Co. Ltd., with a principal place of business at 12., Koaren Bldg, 14, Seolleung-ro 94-gil, Gangnam-gu, Seoul, Republic of Korea ("Assignor"), and Hermes IP Management LLC, a Texas Limited Liability Company, with principal place of business at 5204 Bluewater Dr., Frisco, TX 75036, USA ("Assignee").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby irrevocably assigns, sells, grants, transfers and conveys and agrees to assign, sell, grant, transfer, and convey to Assignee, and Assignee hereby accepts and receives, all right, title, and interest throughout the world in and to:

(a) the issued patents and pending patent applications identified on Schedule 1 attached hereto and any issued patent or patent application that directly or indirectly claims or is amended to claim priority to any of the above, in whole or in part (the "Patents");

(b) to the extent not included in (a), all issued patents, rights to inventions and pending and future applications for patents under U.S. law or regulation or of any foreign country with respect to the patentable inventions from which such Patents arise, including without limitation utility patents, utility models, design patents, invention certificates, provisionals, continuations, divisionals, continuations-in-part, reexaminations, reissues, extensions and renewals, in all countries of the world, as well as any patents and patent applications to which any of the Patents or any of the foregoing directly or indirectly claim priority, in whole or in part (subcategories (a) and (b) collectively, the "Patents");

(c) all causes of action (whether known or unknown or whether currently pending, filed or otherwise) and other enforcement rights under or on account of the Patents, including without limitation all causes of action and other enforcement rights for damages, injunctive relief, and any other remedies of any kind for past, current and future infringement;

(d) all rights to collect royalties or other payments under or on account of the Patents and the foregoing subcategory (c).

Assignor agrees upon request (and at the expense) of Assignee to, and if Assignor is unable or unwilling to do so authorizes Assignee to act in Assignor's name to: execute all oaths, assignments, powers, and any other papers necessary to perform Assignor's obligations hereunder, testify in any proceeding, and otherwise take any action, and fully cooperate with Assignee to perform

Assignor's obligations hereunder, in each case, related to securing and enforcing Assignee's rights related to this Assignment.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, the parties hereto have caused this Assignment to be executed as of the Effective Date. The individuals signing for the parties represent and warrant that he or she has authority to sign for and enter into this Assignment on behalf of the respective parties.

Assignor:

Arista Holdings Co. Ltd.

By: Jungkil Nam

Name: Jungkil Nam

Title: CEO

Date: December 14, 2022

Assignee:

Hermes IP Management LLC

By: Khaled Fekih Romdhane

Name: Khaled Fekih-Romdhane

Title: Manager

Date: December 14, 2022

SCHEDULE 1

PATENTS AND PATENT APPLICATIONS

No.	Country	App.No	Issue Number
1	US	US11/911277	US8712476B2
	US	US13/466699	US8855720B2
	PCT	PCT/KR2006/00232	WO2007/145387

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	04/29/2014	8712476	126587-0008	5567

22429 7590 04/09/2014

LOWE HAUPTMAN & HAM, LLP
2318 Mill Road
Suite 1400
ALEXANDRIA, VA 22314

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 1105 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):

Youngmin Park, Gyeonggi-do, KOREA, REPUBLIC OF;
Hoojong Kim, Seoul, KOREA, REPUBLIC OF;

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

PART B - FEE(S) TRANSMITTAL

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

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

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

22429 7590 01/09/2014
LOWE HAUPTMAN & HAM, LLP
2318 Mill Road
Suite 1400
ALEXANDRIA, VA 22314

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

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

TITLE OF INVENTION: METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	04/09/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
SOROWAR, GOLAM	2649	455-550100

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

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

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: SK TELECOM CO., LTD.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Seoul, Republic of Korea

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

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

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
☐ A check is enclosed.
☒ Payment by credit card. Form PTO-2038 is attached.
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 071337 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
☐ Applicant certifying micro entity status. See 37 CFR 1.29
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.
☐ Applicant asserting small entity status. See 37 CFR 1.27
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.
☐ Applicant changing to regular undiscounted fee 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 /Yoon S. Ham/ Date March 12, 2014
Typed or printed name Yoon S. Ham Registration No. 45307

Electronic Patent Application Fee Transmittal

Application Number:	11911277
Filing Date:	11-Oct-2007
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Filer:	Yoon Ham/Hee Jeong An
Attorney Docket Number:	126587-0008

Filed as Large Entity

U.S. National Stage under 35 USC 371 Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	1501	1	960	960
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	**960**

Electronic Acknowledgement Receipt

EFS ID:	18447523
Application Number:	11911277
International Application Number:	
Confirmation Number:	5567
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Customer Number:	22429
Filer:	Yoon Ham/Hee Jeong An
Filer Authorized By:	Yoon Ham
Attorney Docket Number:	126587-0008
Receipt Date:	12-MAR-2014
Filing Date:	11-OCT-2007
Time Stamp:	15:25:56
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$960
RAM confirmation Number	2015
Deposit Account	071337
Authorized User	HAM, YOON S

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

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

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	126587-0008_001.pdf	123180 d8cad53dd64bbb7c6e149168290ba2d9c321b0f1	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30484 f3f6ec7b3c19257ae3dd77adb777f90807c14d27	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	153664		

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

22429 7590 01/09/2014
LOWE HAUPTMAN & HAM, LLP
2318 Mill Road
Suite 1400
ALEXANDRIA, VA 22314

EXAMINER
SOROWAR, GOLAM

ART UNIT	PAPER NUMBER
2649	

DATE MAILED: 01/09/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

TITLE OF INVENTION: METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	04/09/2014

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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

22429 7590 01/09/2014
LOWE HAUPTMAN & HAM, LLP
2318 Mill Road
Suite 1400
ALEXANDRIA, VA 22314

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

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

TITLE OF INVENTION: METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	04/09/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
SOROWAR, GOLAM	2649	455-550100

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

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

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

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

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

22429 7590 01/09/2014

LOWE HAUPTMAN & HAM, LLP
2318 Mill Road
Suite 1400
ALEXANDRIA, VA 22314

EXAMINER	
SOROWAR, GOLAM	
ART UNIT	PAPER NUMBER
2649	

DATE MAILED: 01/09/2014

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

The Patent Term Adjustment to date is 846 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 846 day(s).

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 Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 11/911,277	Applicant(s) PARK ET AL.	
	Examiner GOLAM SOROWAR	Art Unit 2649	AIA (First Inventor to File) 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 *12/19/2013*.
   ☐ 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 *1,2,4-9 and 11-24*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

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

   * Certified copies not received: _____.

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

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

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

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

/GOLAM SOROWAR/
Examiner, Art Unit 2649

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

DETAILED ACTION

Allowable Subject Matter

Claims 1-2, 4-9 and 11-24 are allowed.

Reason for allowance

Regarding claim 1-2, 4-9 and 11-15, the following is an examiner's statement of reasons for allowance: the closest prior art does not teach nor fairly suggest, "*a method and apparatus of providing an application selection function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and a display module, the method comprising the steps of: designating a plurality of sequence numbers to a corresponding more plurality of applications in response to an input of a user, running an application selection program stored in the program memory when the user operates a first key button for driving the application selection program, and displaying a first application of the plurality of applications on the display module, displaying a next application of the plurality of applications according to an order of the designated plurality of sequence numbers, in a circular manner, on the display module every time the user operates a second key button and adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display*

module when said mobile communication terminal is in an idle mode wherein only one application among the plurality of applications is displayed on the display module at a time and driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module and toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of the application items displayed on the L display module."

Regarding claim 16-24, the following is an examiner's statement of reasons for allowance: the closest prior art does not teach nor fairly suggest, "*a method of providing an application selection function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and a display module, the method comprising the steps of: designating a plurality of sequence numbers to a corresponding more plurality of applications in response to an input of a user, running an application selection program stored in the program memory when the user operates a first key button for driving the application selection program, and displaying a first application of the plurality of applications on the display module, displaying a next application of the plurality of applications according to an order of the designated plurality of sequence numbers, in a circular manner, on the display module every time the user operates a second key button and adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in an idle mode wherein only one application*

among the plurality of applications is displayed on the display module at a time and displaying on the display module, together with only one application among the plurality of applications, a plurality of indicators corresponding to the plurality of sequence numbers."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GOLAM SOROWAR whose telephone number is (571)270-3761. The examiner can normally be reached on MON-FRI: 7:00 am-5:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, EDWARD F. URBAN can be reached on (571) 272-7899. 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.

/GOLAM SOROWAR/
Examiner, Art Unit 2649

/EDWARD URBAN/
Supervisory Patent Examiner, Art Unit 2649

FORM PTO-1449 (modified)
U.S. Department of Commerce
U.S. Patent & Trademark Office

11911277 - GAU: 2649

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Reference:	126587-0008
Applicant:	Youngmin PARK et al.
Application Serial No.	11/911,277
Filing Date:	October 11, 2007
Examiner:	N/A
Group Art Unit:	N/A

Date: December 27, 2007 Page 1 of 1

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	2006/0095916	05/2006	Nishida			
	BR						
	CR						
	DR						
	ER						
	FR						
	GR						
	HR						
	IR						
	JR						
	KR						
	LR						
	MR						
	NR						

FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country			Translation Readily Available		English Abstract	
							Enclosed	No	Enclosed	No
	OR	2001-245352	09/2001	JP				X	X	
	PR	1020030083896	04/2005	KR				X	X	
	QR									
	RR									
	SR									
	TR									
	UR									
	VR									
	WR									
	XR									

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

	YR	
	ZR	
	AAR	
	BBR	
	CCR	
	DDR	

Examiner /Golam Sorowar/ (12/23/2013) Date Considered: 12/23/2013

*EXAMINER: Initial if 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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.S./ (12/23/2013)

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	**Art Unit**
	GOLAM SOROWAR	2649

CPC		
Symbol	**Type**	**Version**

CPC Combination Sets				
Symbol	**Type**	**Set**	**Ranking**	**Version**

/GOLAM SOROWAR/ Examiner.Art Unit 2649 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 22	
/EDWARD URBAN/ Supervisory Patent Examiner.Art Unit 2649 (Primary Examiner)	12/29/2013 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	**Art Unit**
	GOLAM SOROWAR	2649

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
455	566	H	0	4	M	1 / 00 (2006.01.01)						

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
715	810	813			

/GOLAM SOROWAR/ Examiner.Art Unit 2649 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 22	
/EDWARD URBAN/ Supervisory Patent Examiner.Art Unit 2649 (Primary Examiner)	12/29/2013 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	**Art Unit**
	GOLAM SOROWAR	2649

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

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

/GOLAM SOROWAR/ Examiner.Art Unit 2649 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 22	
/EDWARD URBAN/ Supervisory Patent Examiner.Art Unit 2649 (Primary Examiner)	12/29/2013 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	:	11/911,277	
Applicant	:	Youngmin PARK et al.	Confirmation No.: 5567
371(c) Date	:	October 11, 2007	
Tech Cntr/AU	:	2649	
Examiner	:	Sorowar, Golam	
Entitled	:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	
Attorney Reference	:	126587-0008	
Customer Number	:	22429	

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

AFTER FINAL REJECTION

Dear Madam:

In response to the Office Action (OA) dated October 22, 2013, please amend the above-identified application as follows:

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	Art Unit
	GOLAM SOROWAR	2618

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
345	1.1, 619, 684, 55	12/23/2013	GS
370	328, 389, 252	12/23/2013	GS
455	403, 418, 412.1, 466, 90.2, 557, 575.1-575.3,	12/23/2013	GS

SEARCH NOTES		
Search Notes	Date	Examiner
EAST (PG Pub and US Patent)	12/23/2013	GS
Google Patent	12/23/2013	GS
IDS	12/23/2013	GS
STIC	12/23/2013	GS
PALM inventor search	12/23/2013	GS
NPL	12/23/2013	GS
PLUS search	12/23/2013	GS
IEEE	12/23/2013	GS

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
345	1.1, 619, 684, 55	12/23/2013	GS
370	328, 389, 252	12/23/2013	GS

/GOLAM SOROWAR/ Examiner.Art Unit 2649	

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
455	403, 418, 412.1, 466, 90.2, 557, 575.1-575.3,	12/23/2013	GS

/GOLAM SOROWAR/ Examiner.Art Unit 2649	

Exhibit 1014
Page 026 of 476

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	:	11/911,277	
Applicant	:	Youngmin PARK et al.	Confirmation No.: 5567
371(c) Date	:	October 11, 2007	
Tech Cntr/AU	:	2649	
Examiner	:	Sorowar, Golam	
Entitled	:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	
Attorney Reference	:	126587-0008	
Customer Number	:	22429	

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

AFTER FINAL REJECTION

Dear Madam:

In response to the Office Action (OA) dated October 22, 2013, please amend the above-identified application as follows:

AMENDMENTS TO THE CLAIMS

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

Listing of Claims:

1. (**Currently Amended**) A method of providing an application selection function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and a display module, the method comprising the steps of:

(a) designating a plurality of sequence numbers to a corresponding plurality of applications in response to an input of a user;

(b) running an application selection program stored in the program memory when the user operates a first key button for driving the application selection program, and displaying a first application of the plurality of applications on the display module;

(c) displaying a next application of the plurality of applications according to an order of the designated plurality of sequence numbers, in a circular manner, on the display module every time the user operates a second key button; and

(d) adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in an idle mode,

wherein in step (c), only one application among the plurality of applications is displayed on the display module at a time, and

wherein step (a) includes the steps of:

(a1) driving a screen setup program stored in the program memory when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module; and

(a2) toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of application items displayed on the display module.

2. (Previously Presented) The method as claimed in claim 1, wherein the designation of the plurality of sequence numbers is performed in accordance with user selection of a spin-home addition/deletion item of a menu item of the corresponding plurality of applications.

3. (**Cancelled**)

4. (Previously Presented) The method as claimed in claim 1, wherein the first key button for driving the application selection program and the second key button for circulating the next application are dedicated spin-home key buttons separately positioned on the mobile communication terminal.

5. (Previously Presented) The method as claimed in claim 1, wherein the first key button for driving the application selection program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button.

6. (Previously Presented) The method as claimed in claim 1, wherein the application adopted as the idle screen is selected from schedule management, address book, recently used applications, game, text message, image, moving picture, or shortcut icon screen.

7. (Previously Presented) The method as claimed in claim 6, wherein the address book designated as the idle screen and displayed on the display module is a book selected from a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, or a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor.

8. (**Currently Amended**) An apparatus of providing an application selection function for a mobile communication terminal, the apparatus comprising:

a microprocessor configured to execute an application selection program;

a data storage module coupled to the microprocessor and configured to act as a data buffer when the application selection program is executed;

a key input module configured to input characters and numbers, the key input module having a first key arranged for causing the execution of the application selection program;

a display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode; and

a program memory encoded to store the application selection program, the application selection program being configured to cause the microprocessor to perform a method comprising:

[[if]] in response to the first key being operated by a user, initiating the application selection program and displaying a first application of a plurality of applications on the display module, the plurality of applications each having a corresponding one of a plurality of sequence numbers designated in response to an input of the user;

[[if]] in response to a second key being operated, displaying a next application of the plurality of applications on the display module as a currently displayed application according to an order of the designated plurality of sequence numbers in a circular manner, wherein only one application among the plurality of applications is displayed on the display module at a time; and

adopting the currently displayed application as the idle screen [[if]] in response to a confirmation key being operated,

wherein the program memory is further encoded to store a screen setup program, the screen setup program being configured to cause the microprocessor to:

display application items of one of the plurality of applications adopted as the idle screen on the LCD display module when the user operates a predetermined key button while the mobile communication terminal is in the idle mode, and

toggle on/off the displayed idle screen corresponding to the adopted application in accordance with user selection when the user selects at least one of the application items.

9. (Previously Presented) The apparatus as claimed in claim 8, wherein the key input module has a dedicated spin-home key button configured as the first key.

10. (**Cancelled**)

11. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a contact management program, the contact management program is configured to cause the microprocessor to:

automatically manage frequently used contact addresses of the user during an interval; and

display a list of the contact addresses on the display module in response to key input from the user.

12. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store an extracting program, the extracting program is configured to cause the microprocessor to:

extract contact addresses and shortcuts being assigned to the contact addresses by the user, and

display a list of the contact addresses on the display module in response to key input from the user.

13. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store an obtaining program, the obtaining program is configured to cause the microprocessor to obtain a list of application used by the user for a period of time from present time and displaying the list on the display module in response to key input from the user.

14. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a shortcut program, the shortcut program is configured to cause the microprocessor to:

assign an icon to at least one application, when the at least one application is associated with a shortcut,

display a shortcut icon screen on the display module when the user selects the shortcut icon screen in an idle screen setup mode, and

activate the at least one application corresponding to the icon when the user selects the icon via key input.

15. (Previously Presented) The apparatus as claimed in claim 14, wherein the icon is designated by the user.

16. (**Currently Amended**) A method of changing an idle screen for a mobile terminal having a first key, a second key, and a confirmation key, the method comprising:

designating a plurality of sequence numbers to a corresponding plurality of applications in response to an input of a user;

[[if]] in response to the first key being operated by the user, initiating an application selection program stored in a program memory of the mobile terminal and displaying one of the plurality of applications having a smallest sequence number among the plurality of applications on a display module of the mobile terminal, thereby the one of the plurality of applications becoming a currently displayed application;

[[if]] in response to the second key being operated, executing the application selection program and displaying a next application on the display module, the next application being next to the currently displayed application according to an order of the designated plurality of sequence numbers in a circular manner, thereby the next application becoming the currently displayed application, wherein only one application among the plurality of applications is displayed on the display module at a time together with a plurality of indicators corresponding to the plurality of sequence numbers; and

[[if]] in response to the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode.

17. (Previously Presented) The method of claim 16, further comprising:

adding another sequence number to another application or removing the corresponding sequence number of one of the plurality of applications by operating a spin-home addition/deletion menu item.

18. (Previously Presented) The method of claim 16, wherein the first key and the second key are dedicated key buttons separately positioned on the mobile terminal.

19. (Previously Presented) The method of claim 16, wherein the first key is a downward movement key button positioned on the mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal.

20. (Previously Presented) The method of claim 16, wherein the plurality of applications comprises one or more of the following applications: schedule management, address book, list of recently used applications, game, text message, image, moving picture, or shortcut icon screen.

21. (**Currently Amended**) A method of providing an application selection function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and a display module, the method comprising the steps of:

(a) designating a plurality of sequence numbers to a corresponding plurality of applications in response to an input of a user;

(b) running an application selection program stored in the program memory when the user operates a first key button for driving the application selection program, and displaying a first application of the plurality of applications on the display module;

(c) displaying a next application of the plurality of applications according to an order of the designated plurality of sequence numbers, in a circular manner, on the display module every time the user operates a second key button; and

(d) adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in an idle mode,

wherein in step (c), only one application among the plurality of applications is displayed on the display module at a time, and

~~The method as claimed in claim 1,~~ wherein step (c) comprises displaying on the display module, together with only one application among the plurality of applications, a plurality of indicators corresponding to the plurality of sequence numbers.

22. (Previously Presented) The method as claimed in claim 21, wherein, in step (c), one of the plurality of indicators corresponding to the only one application being displayed on the display module is displayed differently from the other indicators.

23. (Previously Presented) The method as claimed in claim 21, wherein step (b) comprises displaying on the display module

only the first application among the plurality of applications, and

the plurality of indicators corresponding to the plurality of sequence numbers.

24. (Previously Presented) The method as claimed in claim 23, wherein, in step (b), one of the plurality of indicators corresponding to the first application is displayed differently from the other indicators.

REMARKS

The Examiner's indication of allowable subject matter is noted with appreciation.

By this Amendment, Claims 3 and 10 are cancelled without prejudice or disclaimer. Independent claims 1 and 8 are amended to include the allowable subject matter of claims 3 and 10, respectively. Independent claim 16 is amended to include the feature of allowable claim 21. Allowable claim 21 is rewritten in independent form including all limitations of base claim 1. No new matter is believed to have been introduced through the foregoing amendments.

Rejections under § 103

Claims 1, 2, 4-9, and 16- 20 are rejected under *35 U.S.C. §103(a)* as being unpatentable over *Yamaguchi* (US 7,350,158), *Wardimon* (US 2006/0030370) and *Yoshioka* (US 2005/0243760). Claims 11-13 are rejected under *35 U.S.C. § 103(a)* as being unpatentable over *Yamaguchi*, *Wardimon*, *Yoshioka* and *Tojo* (US 2004/0250217). Claims 14-15 are rejected under *35 U.S.C. § 103(a)* as being unpatentable over *Yamaguchi*, *Wardimon*, *Yoshioka* and *Innanen* (US 2006/0290661). All rejections are believed overcome, because independent claims 1, 8 and 16, as well as the corresponding dependent claims, now include allowable subject matter and are patentable over the applied art of record.

Withdrawal of the *35 U.S.C. 103(a)* rejections of claims 1, 2, 4-9, and 11-20 is now believed appropriate and therefore respectfully requested.

Claims 21-24 have been placed in condition suitable for allowance in accordance with the Examiner's kind suggestion in the Office Action.

CONCLUSION

It is respectfully submitted that the present application is in condition for allowance, and a Notice to that effect is earnestly solicited. Early issuance of a Notice of Allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicant's attorney of record, to facilitate advancement of the present application.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

LOWE HAUPTMAN & HAM, LLP

/Yoon S. Ham/
Yoon S. Ham
Registration No. 45,307

Customer Number: 22429
2318 Mill Road, Suite 1400
Alexandria, Virginia 22314
(703) 684-1111
(703) 518-5499 Facsimile
Date: December 19, 2013
YSH/KL/ha

Electronic Acknowledgement Receipt

EFS ID:	17714523
Application Number:	11911277
International Application Number:	
Confirmation Number:	5567
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Customer Number:	22429
Filer:	Yoon Ham/Hee Jeong An
Filer Authorized By:	Yoon Ham
Attorney Docket Number:	126587-0008
Receipt Date:	19-DEC-2013
Filing Date:	11-OCT-2007
Time Stamp:	16:41:42
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response After Final Action	126587-0008_amendment.pdf	64348 be9e5b4cbc30a5c720445c4c246d76fba4aeea60	no	10

Warnings:	
Information:	

Total Files Size (in bytes):	64348

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.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 11/911,277	Filing Date 10/11/2007	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ 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 $ =	
☐ 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).			
☐ 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	12/19/2013	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 22	Minus	** 32	= 0	X $80 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	***4	= 0	X $420 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ 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
/ALLYSON PURNELL/

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.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

22429 7590 10/22/2013

LOWE HAUPTMAN & HAM, LLP
2318 Mill Road
Suite 1400
ALEXANDRIA, VA 22314

EXAMINER	
SOROWAR, GOLAM	
ART UNIT	PAPER NUMBER
2649	

MAIL DATE	DELIVERY MODE
10/22/2013	PAPER

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.

Office Action Summary	Application No. 11/911,277	Applicant(s) PARK ET AL.	
	Examiner GOLAM SOROWAR	Art Unit 2649	AIA (First Inventor to File) Status No

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *08/26/2013*.

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

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

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

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

Disposition of Claims

5)☒ Claim(s) *1-24* is/are pending in the application.

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1,2,4-9 and 11-20* is/are rejected.

8)☒ Claim(s) *3, 10 and 21-24* is/are objected to.

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

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

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some * c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

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

4) ☐ Other: _____.

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

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-24 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Allowable Subject Matter

Claims 3, 10 and 21-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 3 and 10, the following is a statement of reason for the indication of allowable subject matter: " the closest prior art does not teach nor fairly suggest, "*a method of providing an application selection function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and a display module, the method comprising the steps of: designating a plurality of sequence numbers to a corresponding more plurality of applications in response to an input of a user, running an application selection program stored in the program memory when the user operates a first key button for driving the application selection program, and displaying a first application of the*

plurality of applications on the display module, displaying a next application of the plurality of applications according to an order of the designated plurality of sequence numbers, in a circular manner, on the display module every time the user operates a second key button and adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in an idle mode wherein only one application among the plurality of applications is displayed on the display module at a time and driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module and toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of the application items displayed on the L display module.

Regarding claims 21-24, the following is a statement of reasons for the indication of allowable subject matter: the closest prior art does not teach nor fairly suggest, "*a method of providing an application selection function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and a display module, the method comprising the steps of: designating a plurality of sequence numbers to a corresponding more plurality of applications in response to an input of a user, running an application selection program stored in the program memory when the user operates a first key button for driving the application selection program, and displaying a first application of the*

plurality of applications on the display module, displaying a next application of the plurality of applications according to an order of the designated plurality of sequence numbers, in a circular manner, on the display module every time the user operates a second key button and adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in an idle mode wherein only one application among the plurality of applications is displayed on the display module at a time and displaying on the display module, together with only one application among the plurality of applications, a plurality of indicators corresponding to the plurality of sequence numbers."

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 said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1, 2, 4-9 and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al. (US 20040155907), in view of Wardimon (US 20060030370), and further in view of Yoshioka (US 20050243760), hereinafter referenced as Yamaghuchi, Wardimon and Yoshioka, respectively.

Regarding claim 1, Yamaguchi discloses,

"(a) designating a plurality of sequence numbers ***(i.e. icon numbers such as seven icons having Nos. 0, 1, 2, 3, N-3, N-2 and N-1, respectively, are displayed on the orbit 50 as shown in Fig. 10 and Para. [0064])*** to corresponding a plurality of applications ***(i.e., icons as shown in Fig. 6)*** in response to an input of a user ***(The icon numbers can freely be changed by the user making a changing operation, Para. [0062])***";

"(b) running an application selection program ***(i.e., displaying icon menu on the LCD panel 4, Para. [0052])*** stored in the program memory ***(i.e., main memory 16 as shown in Fig. 5)*** when the user operates a first key button ***(e.g., move button 49A)*** for driving the application selection program ***(circulating the icon menu in the orbit 50)***, and displaying a first application ***(e.g., icon A0)*** of the plurality applications on the display module ***(there are provided horizontally on the lower portion of the screen 40 a move button 49A to move the icon train A0 to An clockwise on the orbit 50, Fig. 6 and Para. [0055])***";

"(c) displaying a next application ***(e.g., icon A1)*** of the plurality applications according to an order of the designated plurality sequence numbers ***(i.e. icon numbers such as seven icons having Nos. 0, 1, 2, 3, N-3, N-2 and N-1, respectively, are displayed on the orbit 50 as shown in Fig. 10 and Para. [0064])***, in a circular manner ***(circular orbit 50, Para. [0055])***, on the display module every time the user operates a second key button ***(e.g., move button 49B) (a move button 49B to move the icon train A0 to A1 counterclockwise on the orbit 50, Para. [0055])***";

However, Yamaguchi fails to disclose, "adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in idle mode."

In a similar field of endeavor, Wardimon discloses, "adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button ***(the user interacts with mobile device 120's user interface to select a new screen to be displayed as the idle screen, Para. [0033])***, the idle screen being displayed on the display module when said mobile communication terminal is in idle mode ***(see Fig. 2; S220-S240 and Para. 32-36)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify Yamaguchi by specifically providing adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display

module when said mobile communication terminal is in idle mode, as taught by Wardimon for the purpose of customizing the idle screen for a mobile device.

Further, the combination of Yamaguchi and Wardimon fails to disclose, "wherein one application among the plurality of applications is displayed on the display module at a time."

In a similar field of endeavor, Yoshioka discloses, "wherein one application among the plurality of applications is displayed on the display module at a time ***(The user selects the icon including the desired application from the icons displayed on the APL menu screen and then the applications included in the selected one are displayed, see Fig. 3 and Para. [0040-0044], i.e., one application icon (i.e., accessory) among the plurality of icons (as shown in Fig. 3b) is displayed in the display module)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time of invention was made to modify the combination Yamaguchi and Wardimon by specifically providing wherein one application among the plurality of applications is displayed on the display module at a time, as taught by Yoshioka for the purpose of providing a mobile communication terminal and an application starting control method thereof, for fast starting a desired application and improving the operability by automatically selecting and ending the application.

Regarding claim 2, the combination of Yamaguchi, Wardimon and Yoshioka discloses everything claimed as applied above (see claim 1), further Yamaguchi discloses, “wherein the designation of the plurality of sequence numbers is performed in

accordance with user selection ***(The icon numbers can freely be changed by the user making a changing operation, Para. [0062])*** of a spin-home addition/deletion item of a menu item of the corresponding plurality applications ***(The CPU 20 registers the icon numbers to the display and non -display icon management tables 28 and 29 or deletes them from these tables 28 and 29, and disposes the icon train on the orbit 50 according to the contents of the display and non -display icon management tables 28 and 29, Para. [0062])***."

Regarding claim 4, the combination of Yamaguchi, Wardimon and Yoshioka discloses everything claimed as applied above (see claim 1), further Yamaguchi discloses, "the first key button ***(e.g., move button 49A)*** for driving the application selection program ***(circulating the icon menu in the orbit 50)*** and the second key button ***(e.g., move button 49B)*** for circulating the next application are dedicated spin-home ***(circulating counter clockwise, see Fig. 6)*** key buttons separately positioned on the terminal ***(Fig. 6 shows key buttons 49A and 49B are positioned separately).***"

Regarding claim 5, the combination of Yamaguchi, Wardimon and Yoshioka discloses everything claimed as applied above (see claim 1), further Yamaguchi discloses, "the first key button ***(e.g., move button 49A)*** for driving the application selection program is a downward movement key button ***(moving the icon An to position to A0 position, which is a downward direction, see Fig. 6)***, and the second key button ***(e.g., move button 49B)*** for circulating the idle screen is a leftward/rightward movement key button ***(counterclockwise which is rightward direction, see Fig. 6).***"

Regarding claim 6, the combination of Yamaguchi, Wardimon and Yoshioka discloses everything claimed as applied above (see claim 1), in addition Wardimon discloses, "the application designated as the idle screen is selected from schedule management, address book, recently used applications, game, text message, image, moving picture, and shortcut icon screen ***(a user who often accesses his or her inbox for incoming SMS messages may want to set the inbox screen as the new idle screen (e.g., idle screen 126). Another user may want to set the calendar or phone book screen to be displayed while mobile device 120 is idling, Para. [0032])***."

Regarding claim 7, the combination of Yamaguchi, Wardimon and Yoshioka discloses everything claimed as applied above (see claim 1), in addition Wardimon discloses, "the address book designated as the idle screen ***(Another user may want to set the calendar or phone book screen to be displayed while mobile device 120 is idling, Para. [0032])*** and displayed on the display module is a book selected from a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses ***(i.e., phone book which contains multiple contact address)***, or a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor ***(phone book usually manage by a processor)***."

Regarding claim 8, Yamaguchi discloses,

"a microprocessor ***(i.e., CPU 20)*** configured to execute an application selection program ***(i.e., icon menu shown in Fig. 6)***";

"a data storage module ***(i.e., memory 16)*** coupled to the microprocessor ***(see, the CPU 20 has connected to a bus 10 thereof a main memory 16, Fig. 4)*** and configured to act as a data buffer when the application selection program is executed ***(The frame buffer area 26 has stored therein image data on the icon menu to be displayed on the screen of the LCD panel 4, Para. [0054])***";

"a key input module having a first key ***(e.g., key button 49A)*** arranged for the execution of the application selection program ***(there are provided horizontally on the lower portion of the screen 40 a move button 49A to move the icon train A0 to An clockwise on the orbit 50, Para. [0055])***";

"a program memory encoded to store the application selection program ***(The GUI program area 25 is an area for storage of programs for implementing GUI (graphical user interface) functions such as manipulating the icon menu display according to the basic program stored in the basic program area 24, recognizing an icon selected by the user having touched the touch sensor panel 19 corresponding to the icon menu being displayed, Para. [0053])***, the application selection program being configured to cause the microprocessor to perform a method comprising:

"if the first key being operated by a user ***(i.e., user touches directly the move button 49A by the user's finger, pen or the like, Para. [0055])***, initiating the application selection program ***(i.e., moving the icon train in the orbit 50)*** and

displaying a first application ***(e.g. icon A0)*** of plurality of applications on the display module ***(plural icons in the screen 40)***, the plurality of applications each having a corresponding one of a plurality of sequence numbers ***(icon numbers)*** designated in response to an input of the user ***(The icon numbers can freely be changed by the user making a changing operation, Para. [0062])***";

"if a second key ***(e.g., move button 49B)*** being operated ***(i.e., user touches directly the move button 49B by the user's finger, pen or the like, Para. [0055])***, displaying a next application ***(e.g., icon A1)*** of the plurality of applications on the display module as a currently displayed application according to an order of the designated plurality of sequence numbers in a circular manner ***(a move button 49B to move the icon train A0 to A1 counterclockwise on the orbit 50, Para. [0055])***".

However, Yamaguchi fails to disclose, "a key input module configured to input characters and numbers, a display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode and adopting the currently displayed application as the idle screen if a confirmation key being operated."

In a similar field of endeavor, Wardimon discloses, "a key input module configured to input characters and numbers ***(i.e., keypad, inherent feature of a mobile terminal)***, a display module coupled to the microprocessor ***(inherent feature of a mobile terminal)*** and configured to display an idle screen the idle screen displayed on the display module when said mobile communication terminal is in an idle mode ***(see idle screens 125 or 126)***, and adopting the currently displayed application as the idle

screen if a confirmation key being operated ***(the user interacts with mobile device 120's user interface to select a new screen to be displayed as the idle screen, see Fig. 2; S220-S240 and Para. 32-36)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify Yamaguchi by specifically providing a key input module configured to input characters and numbers, a display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode and adopting the currently displayed application as the idle screen if a confirmation key being operated, as taught by Wardimon for the purpose of customizing the idle screen for a mobile device.

Further, the combination of Yamaguchi and Wardimon fails to disclose, "wherein one application among the plurality of applications is displayed on the display module at a time."

In a similar field of endeavor, Yoshioka discloses, "wherein one application among the plurality of applications is displayed on the display module at a time ***(The user selects the icon including the desired application from the icons displayed on the APL menu screen and then the applications included in the selected one are displayed, see Fig. 3 and Para. [0040-0044], i.e., one application icon (i.e., accessory) among the plurality of icons (as shown in Fig. 3b) is displayed in the display module)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time of invention was made to modify the combination Yamaguchi and Wardimon by specifically providing wherein one application among the plurality of applications is displayed on the display module at a time, as taught by Yoshioka for the purpose of providing a mobile communication terminal and an application starting control method thereof, for fast starting a desired application and improving the operability by automatically selecting and ending the application.

Regarding claim 9, the combination of Yamaguchi, Wardimon and Yoshioka discloses everything claimed as applied above (see claim 8), further Yamaguchi discloses, "the key input module has a dedicated spin-home key button configured to as the first key ***(there are provided horizontally on the lower portion of the screen 40 a move button 49A to move the icon train A0 to An clockwise on the orbit 50, Para. [0055])***."

Regarding claim 16, Yamaguchi discloses,

"designating a plurality of sequence numbers ***(i.e. icon numbers such as seven icons having Nos. 0, 1, 2, 3, N-3, N-2 and N-1, respectively, are displayed on the orbit 50 as shown in Fig. 10 and Para. [0064])*** to corresponding plurality of applications ***(i.e., icons as shown in Fig. 6)*** in response to an input of a user ***(The icon numbers can freely be changed by the user making a changing operation, Para. [0062])***";

"if the first key being operated by the user ***(i.e., user touches directly the move button 49A by the user's finger, pen or the like, Para. [0055])***, initiating an

application selection program ***(i.e., moving the icon train in the orbit 50)*** stored in a program memory ***(i.e., memory 16 in Fig. 5)*** of the terminal ***(see, Fig. 3)*** and displaying one of the plurality of applications ***(e.g., icon A0)*** having a smallest sequence number ***(icon A0 has the sequence number 0)*** among the plurality of applications on a display module of the terminal ***(see, plural icons in the screen 40)***, thereby the one of the one or more applications becoming a currently displayed application ***(icon A0 currently being displayed in the lower of the screen 40)***";

"if the second key being operated ***(i.e., user touches directly the move button 49B by the user's finger, pen or the like, Para. [0055])***, executing the application selection program and displaying a next application ***(e.g., icon A1)*** on the display module ***(screen 40)***, the next application being next to the currently displayed application according to an order of the designated plurality of sequence numbers in a circular manner, thereby the next application becoming the currently displayed application ***(a move button 49B to move the icon train A0 to A1 counterclockwise on the orbit 50, Para. [0055]).***"

However, Yamaguchi fails to disclose, "if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode."

In a similar field of endeavor, Wardimon discloses, "if the confirmation key being operated, adopting an application currently displayed application as the idle screen ***(the user interacts with mobile device 120's user interface to select a new screen to be displayed as the idle screen, Para. [0033])***, the idle screen being displayed on the

display module when said mobile communication terminal is in an idle mode ***(see Fig. 2; S220-S240 and Para. 32-36)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify Yamaguchi by specifically providing if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode, as taught by Wardimon for the purpose of customizing the idle screen for a mobile device.

Further, the combination of Yamaguchi and Wardimon fails to disclose, "wherein one application among the plurality of applications is displayed on the display module at a time."

In a similar field of endeavor, Yoshioka discloses, "wherein one application among the plurality of applications is displayed on the display module at a time ***(The user selects the icon including the desired application from the icons displayed on the APL menu screen and then the applications included in the selected one are displayed, see Fig. 3 and Para. [0040-0044], i.e., one application icon (i.e., accessory) among the plurality of icons (as shown in Fig. 3b) is displayed in the display module)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time of invention was made to modify the combination Yamaguchi and Wardimon by specifically providing wherein one application among the plurality of applications is displayed on the display module at a time, as taught by Yoshioka for the purpose of

providing a mobile communication terminal and an application starting control method thereof, for fast starting a desired application and improving the operability by automatically selecting and ending the application.

Regarding claim 17, the combination of Yamaguchi, Wardimon and Yoshika discloses everything claimed as applied above (see claim 16), further Yamaguchi discloses, "adding another sequence number to another application or removing the corresponding sequence number of one of the plurality applications by operating a spin-home addition/deletion menu item ***(The CPU 20 registers the icon numbers to the display and non -display icon management tables 28 and 29 or deletes them from these tables 28 and 29, and disposes the icon train on the orbit 50 according to the contents of the display and non -display icon management tables 28 and 29, Para. [0062]).***"

Regarding claim 18, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 16), further Yamaguchi discloses, "the first key button ***(e.g., move button 49A)*** and the second key button ***(e.g., move button 49B)*** separately positioned on the terminal ***(Fig. 6 shows key buttons 49A and 49B are positioned separately).***"

Regarding claim 19, the combination of Yamaguchi, Wardimon and Yoshioka discloses everything claimed as applied above (see claim 16), further Yamaguchi discloses, "the first key button ***(e.g., move button 49A)*** for driving the application selection program is a downward movement key button ***(moving the icon An to position to A0 position, which is a downward direction, see Fig. 6)***, and the second

key button ***(e.g., move button 49B)*** is a leftward/rightward movement key button ***(counterclockwise which is rightward direction, see Fig. 6).***"

Regarding claim 20, the combination of Yamaguchi, Wardimon and Yoshioka discloses everything claimed as applied above (see claim 16), further Yamaguchi discloses, "wherein the one or more applications comprise one or more of the following application: schedule management, address book, list of recently used applications, game, text message, image, moving picture, or shortcut icon screen ***(see, icon menu shown in Fig. 6)***."

Claims 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi, in view of Wardimon, in view of Yoshioka and further in view of Tojo et al. (US 20040250217), hereinafter referenced as Tojo.

Regarding claim 11, the combination of Yamaguchi, Wardimon and Yoshioka discloses everything claimed as applied above (see claim 8), the combination of Yamaguchi, Wardiman and Yoshioka fails to disclose, "automatically manage frequently used contact addresses of a user during an interval and display a list of the contact addresses on the display module in response to key input from the user."

In a similar field of endeavor Tojo discloses, "automatically manage frequently used contact addresses of a user during an interval ***(The contents of the schedule table are stored in the registration part 6a of the memory 6, and are automatically updated in response to updating operation. The sequence of these operations are executed as a result of the predetermined respective parts being operated under***

the control of the control part, Para. 38-45) and display a list of the contact address on the display module in response to key input from the user ***(see, user can display items in the menu using execution key, Fig. 18)***".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Yamaguchi, Wardimon and Yoshioka by specifically providing automatically manage frequently used contact addresses of a user during an interval and display a list of the contact addresses on the display module in response to key input from the user, as taught by Tojo for the purpose of providing a system with which each function can be efficiently selected from a function menu displayed on an operation screen.

Regarding claim 12, the combination of Yamaguchi, Wardimon and Yoshioka discloses everything claimed as applied above (see claim 8), the combination of Yamaguchi, Wardiman and Yoshioka fails to disclose, "extract contact address and shortcuts being assigned to the contact addresses by a user and display a list of the contact addresses on the display module in response to key input from the user".

In a similar field of endeavor Tojo discloses, "extract contact address (***see, icons with person's name such as MR. A-C in Fig. 18)*** and shortcuts being assigned to the contact addresses by a user ***(i.e., displayed icons in the menu1)*** and display a list of the contact addresses on the display module in response to key input from the user ***(see, user can display items in the menu using execution key, Fig. 18)***".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination Yamaguchi, Wardimon and Yoshioka by

specifically providing extract contact address and shortcuts being assigned to the contact addresses by a user and display a list of the contact addresses on the display module in response to key input from the user, as taught by Tojo for the purpose of providing a system with which each function can be efficiently selected from a function menu displayed on an operation screen.

Regarding claim 13, the combination of Yamaguchi, Wardimon and Yoshioka discloses everything claimed as applied above (see claim 8), the combination of Yamaguchi, Wardiman and Yoshioka fails to disclose, "wherein the program memory is further encoded to store and obtaining program, the obtaining program is configured to cause the microprocessor to obtain a list of application used by the user for a period of time from present time and display the list on the display module in response to key input from the user".

In a similar field of endeavor Tojo discloses, "wherein the program memory is further encoded to store and obtaining program, the obtaining program is configured to cause the microprocessor to obtain a list of application used by the user for a period of time from present time and display the list on the display module in response to key input from the user ***(The contents of the schedule table are stored in the registration part 6a of the memory 6, and are automatically updated in response to updating operation. The sequence of these operations are executed as a result of the predetermined respective parts being operated under the control of the control part, Para. 38-45)***".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Yamaguchi, Wardimon and Yoshioka by specifically providing a list of application used by a user for a period of time from present time and display the list on the display module in response to key input from the user, as taught by Tojo for the purpose of providing a system with which each function can be efficiently selected from a function menu displayed on an operation screen.

Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi, in view of Wardimon, in view Yoshioka and further in view of Inane et al. (US 20060290661), hereinafter referenced as Innanen.

Regarding claim 14, the combination of Yamaguchi, Wardimon and Yoshioka discloses everything claimed as applied above (see claim 8), the combination of Yamaguchi, Wardiman and Yoshioka fails to disclose, "assign an icon to at least one application, when the application is designated as a shortcut, display a shortcut icon screen on the display module when a user selects the shortcut icon screen in an idle screen setup mode, activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input."

In a similar field of endeavor, Innanen discloses, "assign an icon to at least one application, when the application is designated as a shortcut ***(The standby screen typically includes a `background` and graphical items such as icons in the foreground. A graphical item is positioned within its own `zone` of the standby screen. The background may be a picture, design, wallpaper or similar. A***

graphical item may be a widget or control item that causes the device to enter a new state, e.g. a short-cut to an application, or an information item that is used to convey information to the user, Para. [0029]), display a shortcut icon screen on the display module when a user selects the shortcut icon screen in an idle screen setup mode ***(The user, through a menu, selects the `My idle` option. This option allows a user to personalize their `Idle` i.e. standby screen. The standby screen comprises a series of zones of user controllable size and position, Para. [0032])*** activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input ***(a number of alternate options 20 are presented to the user including `Modify layout` which is selected using the softkey 8C. When the user selects this option by depressing the softkey 8C, a new screen is presented as illustrated in FIG. 2B)***."

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Yamaguchi, Wardimon and Yoshioka by specifically providing assign an icon to at least one application, when the application is designated as a shortcut, display a shortcut icon screen on the display module when a user selects the shortcut icon screen in an idle screen setup mode, activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input, as taught by Innanen for the purpose of efficiently re-configuring the standby screen of an electronic device.

Regarding claim 15, the combination of Yamaguchi, Wardimon, Yoshioka and Innanen discloses everything claimed as applied above (see claim 14), further Innanen

discloses, "wherein the icon is designated by the user ***(The user, through a menu, selects the `My idle` option. This option allows a user to personalize their `Idle` i.e. standby screen, Para. [0032]).***"

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 GOLAM SOROWAR whose telephone number is (571)270-3761. The examiner can normally be reached on MON-FRI: 7:00 am-5:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EDWARD F. URBAN can be reached on (571) 272-7899. 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.

/GOLAM SOROWAR/
Examiner, Art Unit 2649

/Edward Urban/
Supervisory Patent Examiner, Art Unit 2649

Notice of References Cited	Application/Control No. 11/911,277	Applicant(s)/Patent Under Reexamination PARK ET AL.	
	Examiner GOLAM SOROWAR	Art Unit 2649	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2005/0243760 A1	11-2005	Yoshioka, Kenji	370/328
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	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.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	**Art Unit**
	GOLAM SOROWAR	2618

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

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

CLAIM		DATE								
Final	Original	04/03/2012	08/16/2012	05/22/2013	10/09/2013					
	1	✓	✓	✓	✓					
	2	✓	✓	✓	✓					
	3	✓	✓	✓	O					
	4	✓	✓	✓	✓					
	5	✓	✓	✓	✓					
	6	✓	✓	✓	✓					
	7	✓	✓	✓	✓					
	8	✓	✓	✓	✓					
	9	✓	✓	✓	✓					
	10	✓	✓	✓	O					
	11	✓	✓	✓	✓					
	12	✓	✓	✓	✓					
	13	✓	✓	✓	✓					
	14	✓	✓	✓	✓					
	15	✓	✓	✓	✓					
	16	✓	✓	✓	✓					
	17	✓	✓	✓	✓					
	18	✓	✓	✓	✓					
	19	✓	✓	✓	✓					
	20	✓	✓	✓	✓					
	21				O					
	22				O					
	23				O					
	24				O					

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S3	0	(PARK-YOUNGMIN.in. or KIM-HOOJONG.in.) and spin$hom	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:39
S4	1	(PARK-YOUNGMIN.in. or KIM-HOOJONG.in.) and spin$home	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:39
S5	1	"20060095916"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:41
S6	3	(SPIN$HOME OR SPIN HOME)	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:43
S7	168072	(spin or spin$4 or circulat$4 or rotat$4) with function	US-PGPUB; USPAT	ADJ	ON	2010/07/19 08:45
S8	15934	(spin or spin$4 or circulat$4 or rotat$4) with function and (phone or mobile or laptop or dektop or celluler)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 08:46
S9	227	(spin or spin$4 or circulat$4 or rotat$4) with function and (phone or mobile or laptop or dektop or celluler) and idle near3 state	US-PGPUB; USPAT	ADJ	ON	2010/07/19 08:47
S10	1	(spin or spin$4 or circulat$4 or rotat$4) with function with (lcd or display or monitor) and (phone or mobile or laptop or dektop or celluler) and idle near3 state	US-PGPUB; USPAT	ADJ	ON	2010/07/19 08:47
S11	1	("6363264").PN.	USPAT; USOCR	OR	OFF	2010/07/19 08:50
S12	0	("2007/0155373").URPN.	USPAT	OR	OFF	2010/07/19 08:53
S13	2	("5016002" | "6122530").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/19 08:53
S14	11	("6363264").URPN.	USPAT	OR	OFF	2010/07/19 08:53
S15	45	idle screen with (curren$4 or presen$4) with displa$4	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 10:24
S16	10	idle screen with (curren$4 or presen$4) with displa$4 and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 10:24
S17	265	idle with (curren$4 or presen$4) with displa$4 and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 10:26
S18	33	"455"/$.ccls. and idle with (curren$4	US-	ADJ	OFF	2010/07/19

		or presen$4) with displa$4 and @py<"2007"	PGPUB; USPAT			10:27
S19	4253	455/550.1.ccls.	US-PGPUB; USPAT	OR	OFF	2010/07/19 14:35
S20	2331	455/550.1.ccls. and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:35
S21	0	455/550.1.ccls. move$ key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:36
S22	0	455/550.1.ccls. move$4 key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:36
S23	4111	move$4 key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:36
S24	321	(celluler or phone or mobile) and move$4 key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:36
S25	11	(celluler or phone or mobile) and move$4 key and (down$ and left$ and right$) key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 14:37
S26	10	455/550.1.ccls. and move$ key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:45
S27	4	455/550.1.ccls. and movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:47
S28	2575	455/418.ccls.	US-PGPUB; USPAT	OR	OFF	2010/07/19 14:48
S29	1301	455/418.ccls. and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:49
S30	2	455/418.ccls. and movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 14:49
S31	6	455/418.ccls. and (down$ and left$ and right$) key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 14:54
S32	9	455/550.1.ccls. and (down$ and left$ and right$) key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:02
S33	1	455/550.1.ccls. and (left$ and right$) movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:09
S34	19	(left$ and right$) movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:11
S35	1	"11807032"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:17
S36	1	("7350158").PN.	USPAT; USOCR	OR	OFF	2010/07/19 15:18
S37	0	("20050278647").PN.	USPAT; USOCR	OR	OFF	2010/07/19 15:25

S38	1	("20050278647").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/19 15:25
S39	4458	movement key	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:26
S40	3594	movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:26
S41	182	movement key and selec$4 with (left and right) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:27
S42	5	movement key and selec$4 with (left and right) and (downward key) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:27
S43	2	"20060189345"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:41
S44	3	"2005112491"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:41
S45	2	"20040087349"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:42
S46	3	"20050138105"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:43
S47	2	"20070162872"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:43
S48	2	"20060274155"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:44
S49	9182	address book and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:57
S50	433	address book and contact address and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:58
S51	1	address book and contact address and shortcut with contact and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:58
S52	0	address book and contact address and shortcutt and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:58
S53	21	address book and contact address and shortcut and @py<"2007"	US-PGPUB; USPAT;	ADJ	ON	2010/07/19 15:58

			DERWENT			
S54	0	(short$cut or short cut or shortcut) address book	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:03
S55	52	(short$cut or short cut or shortcut) with address book	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:03
S56	19	(short$cut or short cut or shortcut) with address book and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:03
S57	567	address book near5 display and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:06
S58	0	contact near 4address book near5 display and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:06
S59	31	contact near4 address book near5 display and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:06
S60	6603	(455/550.1 or 455/418).ccls.	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:11
S61	3529	(455/550.1 or 455/418).ccls. and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:11
S62	164	(455/550.1 or 455/418).ccls. and @py<"2007" and storage (unit or module)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:12
S63	6	(455/550.1 or 455/418).ccls. and @py<"2007" and storage (unit or module) with buffe$4	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:12
S64	94	("455"/$).ccls. and @py<"2007" and storage (unit or module) with buffe$4	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:12
S65	4464	("455"/$).ccls. and @py<"2007" and buffe$4 with (character or image or data)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:13
S66	3330	("455"/$).ccls. and @py<"2007" and buffe$4 with (character or image or data) and (cellur or phone or mobile)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:13
S67	95	("455"/$).ccls. and @py<"2007" and buffe$4 with (character or image) data and (cellur or phone or mobile)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:14
S68	116	("455"/$).ccls. and @py<"2007" and buffe$4 with (character or image) data	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:15
S69	27	("455"/$).ccls. and @py<"2007" and data buffe$4 with (character or image) data	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:15
S70	4253	455/550.1.ccls.	US-PGPUB; USPAT	OR	OFF	2010/07/19 18:22
S71	2331	455/550.1.ccls. and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 18:22
S72	27	455/550.1.ccls. and cache memory and @py<"2007"	US-PGPUB;	ADJ	OFF	2010/07/19 18:23

			USPAT			
S73	3	455/550.1.ccls. and cache memory same display and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 18:23
S74	1	("7350158").PN.	US-PGPUB; USPAT	OR	OFF	2010/12/10 08:49
S75	1	("20050278647").PN.	US-PGPUB; USPAT	OR	OFF	2010/12/10 08:58
S76	0	(spin$home) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/12/10 09:01
S77	2339	455/550.1.ccls. and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2010/12/10 09:10
S78	0	455/550.1.ccls. and vitual with display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/12/10 09:11
S79	30	455/550.1.ccls. and virtual with display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/12/10 09:12
S80	5	("7350158").URPN.	USPAT	OR	OFF	2010/12/10 09:20
S81	4	("20040250217" | "5926178" | "6239803" | "6388686").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/12/10 09:21
S82	4	("20040250217" | "5926178" | "6239803" | "6388686").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/12/10 09:53
S83	21	455/550.1.ccls. and key with idle with display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/12/10 10:47
S84	3	455/550.1.ccls. and idle with curren$4 with display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/12/10 10:48
S85	1348	(transf$5 or switc$4) with display with (lapton or pc or computer) with (TV or television or LCD) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2011/03/21 14:28
S86	309	"348"/$.ccls. and (transf$5 or switc$4) with display with (lapton or pc or computer) with (TV or television or LCD) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2011/03/21 14:28
S87	258	power with (transf$5 or switc$4) with	US-	ADJ	ON	2011/03/21

		display with (lapton or pc or computer) with (TV or television or LCD) and @py<"2007"	PGPUB; USPAT			14:32
S88	2	power with save with (transf$5 or switc$4) with display with (lapton or pc or computer) with (TV or television or LCD) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2011/03/21 14:32
S89	4	power with sav$4 with (transf$5 or switc$4) with display with (lapton or pc or computer) with (TV or television or LCD) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2011/03/21 14:32
S90	2	"20060030370"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/03/31 22:41
S91	2238262	display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/14 12:22
S92	3681	(designa$6 or assig$6) with number with (screen) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/15 16:51
S93	28	(designa$6 or assig$6) with number with different near3 (screen) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/15 16:51
S94	13	assin$4 near3 number and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2012/08/16 08:37
S95	69342	assig$4 near3 number and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2012/08/16 08:38
S96	13	assig$4 near3 number with (different) near3 application and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2012/08/16 08:38
S97	823	(navigat$4 or switc$4) with ((different or pura$4) near3 screen or multi$screen) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2012/08/16 09:25
S98	3026	(navigat$4 or switc$4) with ((different or pura$4) near3 (screen or application) or multi$screen or multi4application) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2012/08/16 09:26
S99	220	(navigat$4 or switc$4) with ((different or pura$4) near3 (screen or application) or multi$screen or multi4application) with (number) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2012/08/16 10:25
S100	54	gui and (navigat$4 or switc$4) with ((different or pura$4) near3 (screen or application) or multi$screen or multi4application) with (number) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2012/08/16 10:26
S101	47854	Gui and @py<"2007"	US-PGPUB;	ADJ	ON	2012/08/16 11:04

			USPAT; EPO; JPO; DERWENT			
S102	34	Gui and (circular$manner or circular near3 manner or spin$home or spin near3 home)and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:05
S103	9550	(circular$manner or circular near3 manner or spin$home or spin near3 home)and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:07
S104	266987	(circular$manner or circular near3 manner or spin)and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:07
S105	836	(selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin)and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:07
S106	836	(selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:08
S107	9	gui and (selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:08
S108	7	"345"/$.ccls. and (selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:09
S109	0	(selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) with navigation and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:11
S110	9	(selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) with key and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:11
S111	1	("20060030370").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2012/08/16 11:39
S112	1	("20120220344").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/19 15:37
S113	2793	(designat$4 or assig$5) near3 (number) near3 (application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO;	ADJ	ON	2013/05/19 15:41

			DERWENT			
S114	118	(designat$4 or assig$5) near3 (number) near3 (application) same (display or screen) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/19 15:42
S115	49	(selec$5) near3 (application) with (use or using) near3 (key$pad or key$board) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/19 15:49
S117	1	("20110307835").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/19 16:48
S118	1	("20060030371").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/19 16:49
S119	1	("20060099938").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/19 16:55
S120	1	("20060229106").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/19 16:56
S121	1	("20070077970").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/19 16:58
S122	3188	(user) near5 (assign$4 or designat$4) near3 (application or icon) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/19 17:02
S123	666	(user) near5 (assign$4 or designat$4) near3 (application or icon) and mobile and (screen or display) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/19 17:02
S124	33	(user) near5 (assign$4 or designat$4) near3 (number or letter or symbol) near3 (application or icon) and mobile and (screen or display) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/19 17:03
S126	651	(short$cut or short cut) near3 (icon or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/22 13:46
S128	12	(short$cut or short cut) near3 (icon or application) same (idle or stand$by or stand by) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/22 13:56
S129	2	"20060290661"	US-PGPUB; USPAT;	ADJ	ON	2013/05/22 16:20

			EPO; JPO; DERWENT			
S130	23	"455"/$.ccls. and (displa$4) near3 (single) near3 (icon or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 07:51
S131	26	"340"/$.ccls. and (displa$4) near3 (single) near3 (icon or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 07:53
S132	129	"345"/$.ccls. and (displa$4) near3 (single) near3 (icon or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 07:53
S133	11567	"345"/$.ccls. and (displa$4) near3 (icon or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 08:01
S134	67	"345"/$.ccls. and (displa$4) near3 (individual) near3 (icon or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 08:01
S135	15	"455"/$.ccls. and (displa$4) near3 (individual) near3 (icon or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 08:02
S136	1	(displa$4) near3 (individual) near3 (icon or application) with (ideal or stand$by or stand by) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 08:03
S137	303	(displa$4) near3 (icon or application) with (ideal or stand$by or stand by) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 08:04
S138	111	(displa$4) near3 (icon or application) with (ideal or stand$by or stand by) and (phone or mobile) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 08:04
S139	2	"11911277"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 08:07
S140	1	("20050272475").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/09 08:08
S141	926	(toggl$4) near3 (icon or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO;	ADJ	ON	2013/10/09 08:13

			DERWENT			
S142	88	("455"/$ or "345"/$).ccls. and (toggl$4) near3 (icon or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 08:14
S143	330	("455"/$ or "345"/$).ccls. and (toggl$4) near3 display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 08:20
S144	17	("2004/0155907").URPN.	USPAT	ADJ	ON	2013/10/09 10:17
S145	1530	(displaying) near3 (individua$6) and @py<"2007"	USPAT	ADJ	ON	2013/10/09 10:18
S146	0	(displaying) near3 (individua$6) near3 (short$cut) and @py<"2007"	USPAT	ADJ	ON	2013/10/09 10:20
S147	10	(displaying) near3 (individua$6) near3 (icon) and @py<"2007"	USPAT	ADJ	ON	2013/10/09 10:20
S148	1	("20060030370").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/09 10:21
S149	1	("6363264").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/09 10:21
S150	1	("20040250217").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/09 10:22
S151	9	US-6363264-$.DID. OR US-20030100323-$.DID. OR US-20040204144-$.DID. OR US-455566D-$.DID. OR US-20040250217-$.DID. OR US-20050032544-$.DID. OR US-4555501-$.DID. OR US-20050130642-$.DID. OR US-20060099938-$.DID. OR US-20070155373-$.DID.	US-PGPUB; USPAT; USOCR; JPO; IBM_TDB	ADJ	ON	2013/10/09 10:22
S152	1	("20060095916").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/09 10:23
S153	21	(PARK-YOUNGMIN.in. or KIM-HOOJONG.in.)	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 10:24
S154	402	(individua$4) icon	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 10:27
S155	188	(individua$4) icon and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 10:27
S156	4	(individua$4) icon with (phone or mobile) and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 10:28
S157	22	(individua$4) icon with screen and @py<"2007"	US-PGPUB;	ADJ	OFF	2013/10/09 10:28

			USPAT			
S158	29	single icon with screen and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 10:29
S159	76	single icon with display and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 10:32
S160	18448	display$$4 near3 (icon) and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 11:13
S161	82	display$$4 near3 (icon) near3 ("at") and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 11:13
S162	40	display$$4 near3 (icon) near3 ("at") near3 time and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 11:13
S163	395	display$$4 near3 (different) near3 (icon) and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 11:17
S164	155	display$$4 near3 (different) near3 (icon) and (phone or mobile) and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 11:17
S165	301	display$$4 near3 (different) near3 (icon) and (phone or mobile) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2013/10/09 11:17
S166	111	display$$4 near3 (contact) near3 (icon) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2013/10/09 11:24
S167	17299	(selec$4 or choos$4 or individua$4) near3 (icon) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2013/10/09 12:05
S168	5220	(selec$4 or choos$4 or individua$4) near3 (icon) near3 (displa$4) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2013/10/09 12:07
S169	209	(selec$4 or choos$4 or individua$4) near3 (icon) near3 (displa$4) same (phone or mobile) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2013/10/09 12:07
S170	2	(slid$4) near3 (icon) near3 (displa$4) same (phone or mobile) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2013/10/09 12:29
S171	41	(slid$4) near3 (screen) near3 (displa$4) same (phone or mobile) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2013/10/09 12:30
S172	75	(slid$4) near3 (screen) same (phone or mobile) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2013/10/09 12:30
S173	696	(curren$4) near3 displa$4 near3 (icon) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2013/10/09 12:50
S174	14	(curren$4) near3 displa$4 near3 (icon) same (phone or mobile) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2013/10/09 12:50
S175	19565	(sequentia$5) near3 (displa$4) and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 16:31
S176	44	(sequentia$5) near3 (displa$4) near3 (Icon) and @py<"2007"	US-PGPUB;	ADJ	OFF	2013/10/09 16:32

			USPAT			
S177	19565	(sequentia$5) near3 (displa$4) and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 16:38
S178	104	(sequentia$5) near3 (displa$4) with (phone or mobile) and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 16:39
S179	93	(sequentia$5) near3 (displa$4) near3 (application) and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2013/10/09 16:46
S180	1191	(individual) near3 (icon) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 16:57
S181	0	(individual) near3 (icon) on screen and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 16:58
S182	83	(individual) near3 (icon) near3 screen and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 16:58
S183	260	(displa$4) near3 (separat$4) near3 (icon) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 17:06
S184	4	(displa$4) near3 (separat$4) near3 (icon) same (mobile or phone) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 17:06
S185	85	(displa$4) near3 (separat$4) near3 (icon) and (mobile or phone) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 17:07
S186	196	(displa$4) near3 (contact or phone$book or phone book or email or calendar) near3 (icon) and (mobile or phone) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 17:12
S187	46	(displa$4) near3 (contact or phone$book or phone book or email or calendar) near3 (icon) same (mobile or phone) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/10/09 17:12

10/9/2013 7:20:09 PM
C:\Users\gsorowar\Documents\EAST\Workspaces\11911277.wsp

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	Art Unit
	GOLAM SOROWAR	2618

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
345	1.1, 619, 684, 55	10/9/2013	GS
370	328, 389, 252	10/9/2013	GS
455	403, 418, 412.1, 466, 90.2, 557, 575.1-575.3,	10/9/2013	GS

SEARCH NOTES		
Search Notes	Date	Examiner
EAST (PG Pub and US Patent)	10/9/2013	GS
Google Patent	10/9/2013	GS
IDS	10/9/2013	GS
STIC	10/9/2013	GS
PALM inventor search	10/9/2013	GS
NPL	10/9/2013	GS
PLUS search	10/9/2013	GS
IEEE	10/9/2013	GS

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

/GOLAM SOROWAR/ Examiner, Art Unit 2649	

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	:	11/911,277	
Applicant	:	Youngmin PARK et al.	Confirmation No.: 5567
371(c) Date	:	October 11, 2007	
Tech Cntr/AU	:	2649	
Examiner	:	SOROWAR, GOLAM	
Entitled	:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	
Attorney Reference	:	126587-0008	
Customer Number	:	22429	

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

AMENDMENT

Dear Madam:

In response to the Office Action (OA) dated May 28, 2013, please amend the above-identified application as follows:

AMENDMENTS TO THE CLAIMS

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

Listing of Claims:

1. (**Currently Amended**) A method of providing an application selection function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and a display module, the method comprising the steps of:

(a) designating ~~one or more~~ a plurality of sequence numbers to a corresponding ~~one or more~~ plurality of applications in response to an input of a user;

(b) running an application selection program stored in the program memory when the user operates a first key button for driving the application selection program, and displaying a first application of the ~~one or more~~ plurality of applications on the display module;

(c) displaying a next application of the ~~one or more~~ plurality of applications according to an order of the designated ~~one or more~~ plurality of sequence numbers, in a circular manner, on the display module every time the user operates a second key button; and

(d) adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in an idle mode,

wherein in step (c), only one application among the plurality of applications is displayed on the display module at a time.

2. (**Currently Amended**) The method as claimed in claim 1, wherein the designation of the ~~one or more~~ plurality of sequence numbers is performed in accordance with user selection of a spin-home addition/deletion item of a menu item of the corresponding ~~one or more~~ plurality of applications.

3. (Previously Presented) The method as claimed in claim 1, wherein step (a) includes the steps of:

(a1) driving a screen setup program stored in the program memory when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module; and

(a2) toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of application items displayed on the display module.

4. (Previously Presented) The method as claimed in claim 1, wherein the first key button for driving the application selection program and the second key button for circulating the next application are dedicated spin-home key buttons separately positioned on the mobile communication terminal.

5. (Previously Presented) The method as claimed in claim 1, wherein the first key button for driving the application selection program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button.

6. (Previously Presented) The method as claimed in claim 1, wherein the application adopted as the idle screen is selected from schedule management, address book, recently used applications, game, text message, image, moving picture, or shortcut icon screen.

7. (Previously Presented) The method as claimed in claim 6, wherein the address book designated as the idle screen and displayed on the display module is a book selected from a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, or a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor.

8. (**Currently Amended**) An apparatus of providing an application selection function for a mobile communication terminal, the apparatus comprising:

a microprocessor configured to execute an application selection program;

a data storage module coupled to the microprocessor and configured to act as a data buffer when the application selection program is executed;

a key input module configured to input characters and numbers, the key input module having a first key arranged for causing the execution of the application selection program;

a display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode; and

a program memory encoded to store the application selection program, the application selection program being configured to cause the microprocessor to perform a method comprising:

if the first key being operated by a user, initiating the application selection program and displaying a first application of ~~one or more~~ a plurality of applications on the display module, the ~~one or more~~ plurality of applications each having a corresponding one of ~~one or more~~ a plurality of sequence numbers designated in response to an input of the user;

if a second key being operated, displaying a next application of the ~~one or more~~ plurality of applications on the display module as a currently displayed application according to an order of the designated ~~one or more~~ plurality of sequence numbers in a circular manner, wherein only one application among the plurality of applications is displayed on the display module at a time; and

adopting the currently displayed application as the idle screen if a confirmation key being operated.

9. (Previously Presented) The apparatus as claimed in claim 8, wherein the key input module has a dedicated spin-home key button configured as the first key.

10. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a screen setup program, the screen setup program is configured to cause the microprocessor to:

display application items of one of the ~~one or more~~ plurality of applications adopted as the idle screen on the LCD display module when the user operates a predetermined key button while the mobile communication terminal is in the idle mode, and

toggle on/off the displayed idle screen corresponding to the adopted application in accordance with user selection when the user selects at least one of the application items.

11. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a contact management program, the contact management program is configured to cause the microprocessor to:

automatically manage frequently used contact addresses of the user during an interval; and

display a list of the contact addresses on the display module in response to key input from the user.

12. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store an extracting program, the extracting program is configured to cause the microprocessor to:

extract contact addresses and shortcuts being assigned to the contact addresses by the user, and

display a list of the contact addresses on the display module in response to key input from the user.

13. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store an obtaining program, the obtaining program is configured to cause the microprocessor to obtain a list of application used by the user for a period of time from present time and displaying the list on the display module in response to key input from the user.

14. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a shortcut program, the shortcut program is configured to cause the microprocessor to:

assign an icon to at least one application, when the at least one application is associated with a shortcut,

display a shortcut icon screen on the display module when the user selects the shortcut icon screen in an idle screen setup mode, and

activate the at least one application corresponding to the icon when the user selects the icon via key input.

15. (Previously Presented) The apparatus as claimed in claim 14, wherein the icon is designated by the user.

16. (**Currently Amended**) A method of changing an idle screen for a mobile terminal having a first key, a second key, and a confirmation key, the method comprising:

designating ~~one or more~~ a plurality of sequence numbers to a corresponding ~~one or more~~ plurality of applications in response to an input of a user;

if the first key being operated by the user, initiating an application selection program stored in a program memory of the mobile terminal and displaying one of the ~~one or more~~ plurality of applications having a smallest sequence number among the ~~one or more~~ plurality of applications on a display module of the mobile terminal, thereby the one of the ~~one or more~~ plurality of applications becoming a currently displayed application;

if the second key being operated, executing the application selection program and displaying a next application on the display module, the next application being next to the currently displayed application according to an order of the designated ~~one or more~~ plurality of sequence numbers in a circular manner, thereby the next application becoming the currently displayed application, wherein only one application among the plurality of applications is displayed on the display module at a time; and

if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode.

17. (**Currently Amended**) The method of claim 16, further comprising:

adding another sequence number to another application or removing the corresponding sequence number of one of the ~~one or more~~ plurality of applications by operating a spin-home addition/deletion menu item.

18. (Previously Presented) The method of claim 16, wherein the first key and the second key are dedicated key buttons separately positioned on the mobile terminal.

19. (Previously Presented) The method of claim 16, wherein the first key is a downward movement key button positioned on the mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal.

20. (**Currently Amended**) The method of claim 16, wherein the ~~one or more~~ plurality of applications comprises one or more of the following applications: schedule management, address book, list of recently used applications, game, text message, image, moving picture, or shortcut icon screen.

21. (New) The method as claimed in claim 1, wherein step (c) comprises displaying on the display module, together with only one application among the plurality of applications, a plurality of indicators corresponding to the plurality of sequence numbers.

22. (New) The method as claimed in claim 21, wherein, in step (c), one of the plurality of indicators corresponding to the only one application being displayed on the display module is displayed differently from the other indicators.

23. (New) The method as claimed in claim 21, wherein step (b) comprises displaying on the display module

only the first application among the plurality of applications, and

the plurality of indicators corresponding to the plurality of sequence numbers.

24. (New) The method as claimed in claim 23, wherein, in step (b), one of the plurality of indicators corresponding to the first application is displayed differently from the other indicators.

REMARKS

Reconsideration and allowance of the subject application are respectfully requested.

Applicant thanks Examiner Sorowar for the courtesies extended to Applicant's representatives during the July 3, 2013, interview. The Examiner's indication that amended independent claim 1 with the last added paragraph as presented in this Amendment overcomes the current rejections is noted with appreciation.

By this Amendment, claims 1, 2, 8, 10, 16, 17 and 20 are amended. New claims 21-24 are added in view of the Examiner's kind comments provided at the interview. The amended/added claims find support in the application as filed, especially FIGs. 3b-3d and 4b-4f. Accordingly, upon entry of this Amendment, claims 1-24 are pending in this application. Support for the amended claims is believed found in the original specification, drawings, and claims.

Rejections under § 103

Claims 1, 2, 4-9, and 16- 20 are rejected under 35 U.S.C. §103(a) as being unpatentable over *Yamaguchi* (US 7,350,158) and *Wardimon* (US 2006/0030370). Claims 3 and 10 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Yamaguchi* and *Wardimon*, and further in view of *Overy* (US 6,363,264). Claims 11-13 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Yamaguchi* and *Wardimon*, and further in view of *Tojo* (US 2004/0250217). Claims 14-15 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Yamaguchi* and *Wardimon*, and further in view of *Innanen* (US 2006/0290661). All rejections are believed overcome for at least the reasons discussed with the Examiner at the interview, and summarized below.

Specifically, independent claim 1 recites, among other things, "wherein in step (c), only one application among the plurality of applications is displayed on the display module at a time."

Yamaguchi discloses displaying multiple icons at a time (A0-A3, An, An-1, An-2 in FIG. 6 reproduced below). Although excessive icons disappear at area 52 on the back of FIG. 6, several other icons are still displayed together.

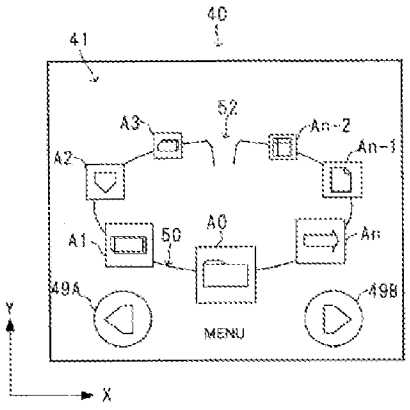


FIG.6

None of the teachings teach or suggest the recited feature. For example, *Wardimon*, *Overy* and *Innanen* do not disclose the proposed feature. *See* all figures of *Wardimon*, *Overy* and *Innanen*. *Tojo* includes similar teachings to *Yamaguchi*. *See* Figs. 12-18 of*Tojo*.

Accordingly, Applicant respectfully submits that independent claim 1 is patentable over the applied references, as kindly confirmed by the Examiner at the interview.

Each of independent claims 8 and 16 includes one or more features similar to the feature(s) discussed with respect to claim 1, and is patentable over the applied references of record for at least analogous reasons to those offered above with respect to claim 1.

The dependent claims, including any new claim(s), are considered patentable at least for the reason(s) advanced with respect to the respective independent claim(s).

Conclusion

It is respectfully submitted that the present application is in condition for allowance, and a Notice to that effect is earnestly solicited. Early issuance of a Notice of Allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicant's attorney of record, to facilitate advancement of the present application.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

LOWE HAUPTMAN & HAM, LLP

/Yoon S. Ham/
Yoon S. Ham
Registration No. 45,307

Customer Number: 22429
2318 Mill Road, Suite 1400
Alexandria, Virginia 22314
(703) 684-1111
(703) 518-5499 Facsimile
Date: August 26, 2013
YSH/KL/ha

Electronic Acknowledgement Receipt

EFS ID:	16681056
Application Number:	11911277
International Application Number:	
Confirmation Number:	5567
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Customer Number:	22429
Filer:	Yoon Ham/Hee Jeong An
Filer Authorized By:	Yoon Ham
Attorney Docket Number:	126587-0008
Receipt Date:	26-AUG-2013
Filing Date:	11-OCT-2007
Time Stamp:	11:33:52
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	126587_0008_amendment.pdf	83431 ad35c93c69acbb73b293e6cefcc8237421fdd76a	no	10

Warnings:	
Information:	

Total Files Size (in bytes):	83431

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

22429 7590 07/15/2013
LOWE HAUPTMAN HAM & BERNER, LLP
2318 Mill Road
Suite 1400
ALEXANDRIA, VA 22314

EXAMINER	
SOROWAR, GOLAM	
ART UNIT	PAPER NUMBER
2649	
MAIL DATE	DELIVERY MODE
07/15/2013	PAPER

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.

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	11/911,277	PARK ET AL.	
	Examiner	Art Unit	
	GOLAM SOROWAR	2649	

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

(1) *GOLAM SOROWAR*. (3)_____.

(2) *KIEN LE*. (4)_____.

Date of Interview: *03 July 2013*.

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: *US 20040155907*.

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...)

It was suggested to include the feature "displaying the one or more sequence number" in step (b) of claim 1 to place to the application in condition for allowance. However, Examiner will reserve the judgement until the formal response is reviewed and the search is appropriate. Further, proposed amendments have been discussed .

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

/GOLAM SOROWAR/ Examiner, Art Unit 2649	/Edward Urban/ Supervisory Patent Examiner, Art Unit 2649

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.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

22429 7590 05/28/2013

LOWE HAUPTMAN HAM & BERNER, LLP
2318 Mill Road
Suite 1400
ALEXANDRIA, VA 22314

EXAMINER	
SOROWAR, GOLAM	
ART UNIT	PAPER NUMBER
2649	

MAIL DATE	DELIVERY MODE
05/28/2013	PAPER

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.

Office Action Summary	Application No. 11/911,277	Applicant(s) PARK ET AL.	
	Examiner GOLAM SOROWAR	Art Unit 2649	AIA (First Inventor to File) Status No

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *27 November 2012*.

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

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

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

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

Disposition of Claims

5)☒ Claim(s) *1-20* is/are pending in the application.

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

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

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

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

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some * c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Interim copies:

a)☐ All b)☐ Some c)☐ None of the: Interim copies of the priority documents have been received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

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

4) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-20 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Claim Rejections - 35 USC § 103

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

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

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

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

Claims 1, 2, 4-9 and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al. (US 20040155907) and further in view of Wardimon (US 20060030370), hereinafter referenced as Yamaghuchi and Wardimon, respectively.

Regarding claim 1, Yamaguchi discloses,

"(a) designating one or more sequence numbers ***(i.e. icon numbers such as seven icons having Nos. 0, 1, 2, 3, N-3, N-2 and N-1, respectively, are displayed on the orbit 50 as shown in Fig. 10 and Para. [0064])*** to corresponding one or more applications ***(i.e., icons as shown in Fig. 6)*** in response to an input of a user ***(The icon numbers can freely be changed by the user making a changing operation, Para. [0062])***";

"(b) running an application selection program ***(i.e., displaying icon menu on the LCD panel 4, Para. [0052])*** stored in the program memory ***(i.e., main memory 16 as shown in Fig. 5)*** when the user operates a first key button ***(e.g., move button 49A)*** for driving the application selection program ***(circulating the icon menu in the orbit 50)***, and displaying a first application ***(e.g., icon A0)*** of the one or more applications on the display module ***(there are provided horizontally on the lower portion of the screen 40 a move button 49A to move the icon train A0 to An clockwise on the orbit 50, Fig. 6 and Para. [0055])***";

"(c) displaying a next application ***(e.g., icon A1)*** of the one or more applications according to an order of the designated one or more sequence numbers ***(i.e. icon numbers such as seven icons having Nos. 0, 1, 2, 3, N-3, N-2 and N-1, respectively, are displayed on the orbit 50 as shown in Fig. 10 and Para. [0064])***, in a circular manner ***(circular orbit 50, Para. [0055])***, on the display module every time the user operates a second key button ***(e.g., move button 49B) (a move button 49B to move the icon train A0 to A1***

counterclockwise on the orbit 50, Para. [0055])";

However, Yamaguchi fails to disclose, "adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in idle mode."

In a similar field of endeavor, Wardimon discloses, "adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button ***(the user interacts with mobile device 120's user interface to select a new screen to be displayed as the idle screen, Para. [0033])***, the idle screen being displayed on the display module when said mobile communication terminal is in idle mode ***(see Fig. 2; S220-S240 and Para. 32-36)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify Yamaguchi by specifically providing adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in idle mode, as taught by Wardimon for the purpose of customizing the idle screen for a mobile device.

Regarding claim 2, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 1), further Yamaguchi discloses, "wherein the designation of the one or more sequence numbers is performed in accordance with user selection ***(The icon numbers can freely be***

changed by the user making a changing operation, Para. [0062]) of a spin-home addition/deletion item of a menu item of the corresponding one or more applications ***(The CPU 20 registers the icon numbers to the display and non -display icon management tables 28 and 29 or deletes them from these tables 28 and 29, and disposes the icon train on the orbit 50 according to the contents of the display and non -display icon management tables 28 and 29, Para. [0062])***."

Regarding claim 4, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 1), further Yamaguchi discloses, "the first key button ***(e.g., move button 49A)*** for driving the application selection program ***(circulating the icon menu in the orbit 50)*** and the second key button ***(e.g., move button 49B)*** for circulating the next application are dedicated spin-home ***(circulating counter clockwise, see Fig. 6)*** key buttons separately positioned on the terminal ***(Fig. 6 shows key buttons 49A and 49B are positioned separately).***"

Regarding claim 5, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 1), further Yamaguchi discloses, "the first key button ***(e.g., move button 49A)*** for driving the application selection program is a downward movement key button ***(moving the icon An to position to A0 position, which is a downward direction, see Fig. 6)***, and the second key button ***(e.g., move button 49B)*** for circulating the idle screen is a leftward/rightward movement key button ***(counterclockwise which is rightward direction, see Fig. 6).***"

Regarding claim 6, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 1), in addition Wardimon discloses, "the application designated as the idle screen is selected from schedule management, address book, recently used applications, game, text message, image, moving picture, and shortcut icon screen ***(a user who often accesses his or her inbox for incoming SMS messages may want to set the inbox screen as the new idle screen (e.g., idle screen 126). Another user may want to set the calendar or phone book screen to be displayed while mobile device 120 is idling, Para. [0032])***."

Regarding claim 7, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 6), in addition Wardimon discloses, "the address book designated as the idle screen ***(Another user may want to set the calendar or phone book screen to be displayed while mobile device 120 is idling, Para. [0032])*** and displayed on the display module is a book selected from a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses ***(i.e., phone book which contains multiple contact address)***, or a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor ***(phone book usually manage by a processor)***."

Regarding claim 8, Yamaguchi discloses,

"a microprocessor ***(i.e., CPU 20)*** configured to execute an application selection program ***(i.e., icon menu shown in Fig. 6)***";

"a data storage module ***(i.e., memory 16)*** coupled to the microprocessor ***(see, the CPU 20 has connected to a bus 10 thereof a main memory 16, Fig. 4)*** and configured to act as a data buffer when the application selection program is executed ***(The frame buffer area 26 has stored therein image data on the icon menu to be displayed on the screen of the LCD panel 4, Para. [0054])***";

"a key input module having a first key ***(e.g., key button 49A)*** arranged for the execution of the application selection program ***(there are provided horizontally on the lower portion of the screen 40 a move button 49A to move the icon train A0 to An clockwise on the orbit 50, Para. [0055])***";

"a program memory encoded to store the application selection program ***(The GUI program area 25 is an area for storage of programs for implementing GUI (graphical user interface) functions such as manipulating the icon menu display according to the basic program stored in the basic program area 24, recognizing an icon selected by the user having touched the touch sensor panel 19 corresponding to the icon menu being displayed, Para. [0053])***, the application selection program being configured to cause the microprocessor to perform a method comprising:

"if the first key being operated by a user ***(i.e., user touches directly the move button 49A by the user's finger, pen or the like, Para. [0055])***, initiating the application selection program ***(i.e., moving the icon train in the orbit 50)*** and displaying a first application ***(e.g. icon A0)*** of one or more applications on

the display module ***(plural icons in the screen 40)***, the one or more applications each having a corresponding one of one or more sequence numbers ***(icon numbers)*** designated in response to an input of the user ***(The icon numbers can freely be changed by the user making a changing operation, Para. [0062])***";

"if a second key ***(e.g., move button 49B)*** being operated ***(i.e., user touches directly the move button 49B by the user's finger, pen or the like, Para. [0055])***, displaying a next application ***(e.g., icon A1)*** of the one or more applications on the display module as a currently displayed application according to an order of the designated one or more sequence numbers in a circular manner ***(a move button 49B to move the icon train A0 to A1 counterclockwise on the orbit 50, Para. [0055])***".

However, Yamaguchi fails to disclose, "a key input module configured to input characters and numbers, a display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode and adopting the currently displayed application as the idle screen if a confirmation key being operated."

In a similar field of endeavor, Wardimon discloses, "a key input module configured to input characters and numbers ***(i.e., keypad, inherent feature of a mobile terminal)***, a display module coupled to the microprocessor ***(inherent feature of a mobile terminal)*** and configured to display an idle screen the idle screen displayed on the display module when said mobile communication

terminal is in an idle mode ***(see idle screens 125 or 126)***, and adopting the currently displayed application as the idle screen if a confirmation key being operated ***(the user interacts with mobile device 120's user interface to select a new screen to be displayed as the idle screen, see Fig. 2; S220-S240 and Para. 32-36)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify Yamaguchi by specifically providing a key input module configured to input characters and numbers, a display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode and adopting the currently displayed application as the idle screen if a confirmation key being operated, as taught by Wardimon for the purpose of customizing the idle screen for a mobile device.

Regarding claim 9, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 8), further Yamaguchi discloses, "the key input module has a dedicated spin-home key button configured to as the first key ***(there are provided horizontally on the lower portion of the screen 40 a move button 49A to move the icon train A0 to An clockwise on the orbit 50, Para. [0055])***."

Regarding claim 16, Yamaguchi discloses,

"designating one or more sequence numbers ***(i.e. icon numbers such as seven icons having Nos. 0, 1, 2, 3, N-3, N-2 and N-1, respectively, are displayed on the orbit 50 as shown in Fig. 10 and Para. [0064])*** to

corresponding one or more applications ***(i.e., icons as shown in Fig. 6)*** in response to an input of a user ***(The icon numbers can freely be changed by the user making a changing operation, Para. [0062])***";

"if the first key being operated by the user ***(i.e., user touches directly the move button 49A by the user's finger, pen or the like, Para. [0055])***, initiating an application selection program ***(i.e., moving the icon train in the orbit 50)*** stored in a program memory ***(i.e., memory 16 in Fig. 5)*** of the terminal ***(see, Fig. 3)*** and displaying one of the one or more applications ***(e.g., icon A0)*** having a smallest sequence number ***(icon A0 has the sequence number 0)*** among the one or more applications on a display module of the terminal ***(see, plural icons in the screen 40)***, thereby the one of the one or more applications becoming a currently displayed application ***(icon A0 currently being displayed in the lower of the screen 40)***";

"if the second key being operated ***(i.e., user touches directly the move button 49B by the user's finger, pen or the like, Para. [0055])***, executing the application selection program and displaying a next application ***(e.g., icon A1)*** on the display module ***(screen 40)***, the next application being next to the currently displayed application according to an order of the designated one or more sequence numbers in a circular manner, thereby the next application becoming the currently displayed application ***(a move button 49B to move the icon train A0 to A1 counterclockwise on the orbit 50, Para. [0055]).***"

However, Yamaguchi fails to disclose, "if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle

screen being displayed on the display module when the mobile terminal is in an idle mode."

In a similar field of endeavor, Wardimon discloses, "if the confirmation key being operated, adopting an application currently displayed application as the idle screen ***(the user interacts with mobile device 120's user interface to select a new screen to be displayed as the idle screen, Para. [0033])***, the idle screen being displayed on the display module when said mobile communication terminal is in an idle mode ***(see Fig. 2; S220-S240 and Para. 32-36)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify Yamaguchi by specifically providing if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode, as taught by Wardimon for the purpose of customizing the idle screen for a mobile device.

Regarding claim 17, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 16), further Yamaguchi discloses, "adding another sequence number to another application or removing the corresponding sequence number of one of the one or more applications by operating a spin-home addition/deletion menu item ***(The CPU 20 registers the icon numbers to the display and non -display icon management tables 28 and 29 or deletes them from these tables 28 and 29, and disposes the icon train on the orbit 50 according to the contents of the display and non - display icon management tables 28 and 29, Para. [0062]).***"

Regarding claim 18, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 16), further Yamaguchi discloses, "the first key button ***(e.g., move button 49A)*** and the second key button ***(e.g., move button 49B)*** separately positioned on the terminal ***(Fig. 6 shows key buttons 49A and 49B are positioned separately).***"

Regarding claim 19, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 16), further Yamaguchi discloses, "the first key button ***(e.g., move button 49A)*** for driving the application selection program is a downward movement key button ***(moving the icon An to position to A0 position, which is a downward direction, see Fig. 6)***, and the second key button ***(e.g., move button 49B)*** is a leftward/rightward movement key button ***(counterclockwise which is rightward direction, see Fig. 6).***"

Regarding claim 20, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 16), further Yamaguchi discloses, "wherein the one or more applications comprise one or more of the following application: schedule management, address book, list of recently used applications, game, text message, image, moving picture, or shortcut icon screen ***(see, icon menu shown in Fig. 6)***."

Claims 3 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi, in view of Wardimon and further in view of Overy et al. (US 6363264), hereinafter referenced as Overy.

Regarding claim 3, the combination of Yamaguchi and Wardimon

discloses everything claimed as applied above (see claim 1), the combination of Yamaguchi and Wardiman fails to disclose, “driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module and toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of the application items displayed on the L display module”.

In a similar field of endeavor, Overy discloses, “driving a screen setup program stored in the program memory ***(i.e., equivalent to The legend MEMORY is displayed in the region 29, Col. 3; lines 45-Col. 4; lines 12)***, when the user operates a predetermined key button ***(Depression of this key will allow telephone numbers stored in the memory to be recalled by name or number, Col. 3; lines 45-Col. 4; lines 12)***, and displaying the application that is designated as the idle screen on the display module ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-Col. 4; lines 12)*** and toggling on/off the displayed idle screen corresponding to the designated application ***(i.e., interpreted as toggle between selection of the NORMAL and EASY OPERATION modes)*** in accordance with user selection when the user selects at least one of the application items displayed on the display module ***(the clear key 16 could be used to cause the handset to toggle between displaying the legends of the EASY OPERATION mode and the NORMAL mode on the LCD with the corresponding changes in the***

functionality of the soft keys 14 and 15, Col. 7; lines 39-49)",

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Yamaguchi and Wardiman, by specifically providing driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module and toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of the application items displayed on the display module, as taught by Overy for the purpose of enhancing the functionality of the mobile communication terminal.

Regarding claim 10, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 8), the combination of Yamaguchi and Wardiman fails to disclose, "display application items of one of the more one or more application the LCD display module, when a user operates a predetermined key button while the mobile communication terminal is in the idle mode, and toggle on/off the displayed screen corresponding to the adopted application in accordance with user selection when the user selects at least one of the application items".

In a similar field of endeavor, Overy discloses, "display the application items of the one of the one or more application ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-Col. 4;***

lines 12), when the user operates a predetermined key button ***(Depression of this key will allow telephone numbers stored in the memory to be recalled by name or number, Col. 3; lines 45-Col. 4; lines 12)***, and toggle on/off the displayed screen corresponding to the adopted application ***(i.e., interpreted as toggle between selection of the NORMAL and EASY OPERATION modes)*** in accordance with user selection when the user selects at least one of the application items ***(the clear key 16 could be used to cause the handset to toggle between displaying the legends of the EASY OPERATION mode and the NORMAL mode on the LCD with the corresponding changes in the functionality of the soft keys 14 and 15, Col. 7; lines 39-49)***",

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination by specifically providing display application items of one of the more one or more application the LCD display module, when a user operates a predetermined key button while the mobile communication terminal is in the idle mode, and toggle on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of the application items, as taught by Overy for the purpose of enhancing the functionality of the mobile communication terminal.

Claims 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi, in view of Wardimon and further in view of Tojo et al. (US 20040250217), hereinafter referenced as Tojo.

Regarding claim 11, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 8), however the combination Yamaguchi and Wardimon fails to disclose, "automatically manage frequently used contact addresses of a user during an interval and display a list of the contact addresses on the display module in response to key input from the user."

In a similar field of endeavor Tojo discloses, "automatically manage frequently used contact addresses of a user during an interval ***(The contents of the schedule table are stored in the registration part 6a of the memory 6, and are automatically updated in response to updating operation. The sequence of these operations are executed as a result of the predetermined respective parts being operated under the control of the control part, Para. 38-45)*** and display a list of the contact address on the display module in response to key input from the user ***(see, user can display items in the menu using execution key, Fig. 18)***".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Yamaguchi and Wardimon by specifically providing automatically manage frequently used contact addresses of a user during an interval and display a list of the contact addresses on the display module in response to key input from the user, as taught by Tojo for the purpose of providing a system with which each function can be efficiently selected from a function menu displayed on an operation screen.

Regarding claim 12, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 8), however the combination Yamaguchi and Wardimon fails to disclose, "extract contact address and shortcuts being assigned to the contact addresses by a user and display a list of the contact addresses on the display module in response to key input from the user".

In a similar field of endeavor Tojo discloses, "extract contact address (***see, icons with person's name such as MR. A-C in Fig. 18)*** and shortcuts being assigned to the contact addresses by a user ***(i.e., displayed icons in the menu1)*** and display a list of the contact addresses on the display module in response to key input from the user ***(see, user can display items in the menu using execution key, Fig. 18)***".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination Yamaguchi and Wardimon by specifically providing extract contact address and shortcuts being assigned to the contact addresses by a user and display a list of the contact addresses on the display module in response to key input from the user, as taught by Tojo for the purpose of providing a system with which each function can be efficiently selected from a function menu displayed on an operation screen.

Regarding claim 13, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 8), however the combination Yamaguchi and Wardimon fails to disclose, "wherein the program memory is further encoded to store and obtaining program, the obtaining

program is configured to cause the microprocessor to obtain a list of application used by the user for a period of time from present time and display the list on the display module in response to key input from the user".

In a similar field of endeavor Tojo discloses, "wherein the program memory is further encoded to store and obtaining program, the obtaining program is configured to cause the microprocessor to obtain a list of application used by the user for a period of time from present time and display the list on the display module in response to key input from the user ***(The contents of the schedule table are stored in the registration part 6a of the memory 6, and are automatically updated in response to updating operation. The sequence of these operations are executed as a result of the predetermined respective parts being operated under the control of the control part, Para. 38-45)***".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Yamaguchi and Wardimon by specifically providing a list of application used by a user for a period of time from present time and display the list on the display module in response to key input from the user, as taught by Tojo for the purpose of providing a system with which each function can be efficiently selected from a function menu displayed on an operation screen.

Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi, in view of Wardimon and further in view of

Innanen et al. (US 20060290661), hereinafter referenced as Innanen.

Regarding claim 14, the combination of Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 8), however the combination Yamaguchi and Wardimon fails to disclose, "assign an icon to at least one application, when the application is designated as a shortcut, display a shortcut icon screen on the display module when a user selects the shortcut icon screen in an idle screen setup mode, activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input."

In a similar field of endeavor, Innanen discloses, "assign an icon to at least one application, when the application is designated as a shortcut ***(The standby screen typically includes a `background` and graphical items such as icons in the foreground. A graphical item is positioned within its own `zone` of the standby screen. The background may be a picture, design, wallpaper or similar. A graphical item may be a widget or control item that causes the device to enter a new state, e.g. a short-cut to an application, or an information item that is used to convey information to the user, Para. [0029])***, display a shortcut icon screen on the display module when a user selects the shortcut icon screen in an idle screen setup mode ***(The user, through a menu, selects the `My idle` option. This option allows a user to personalize their `Idle` i.e. standby screen. The standby screen comprises a series of zones of user controllable size and position, Para. [0032])***, activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input ***(a number of alternate options 20 are***

presented to the user including `Modify layout` which is selected using the softkey 8C. When the user selects this option by depressing the softkey 8C, a new screen is presented as illustrated in FIG. 2B)."

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Yamaguchi and Wardimon by specifically providing assign an icon to at least one application, when the application is designated as a shortcut, display a shortcut icon screen on the display module when a user selects the shortcut icon screen in an idle screen setup mode, activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input, as taught by Innanen for the purpose of efficiently re-configuring the standby screen of an electronic device.

Regarding claim 15, the combination of Yamaguchi, Wardimon and Innanen discloses everything claimed as applied above (see claim 14), further Innanen discloses, "wherein the icon is designated by the user ***(The user, through a menu, selects the `My idle` option. This option allows a user to personalize their `Idle` i.e. standby screen, Para. [0032]).***"

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GOLAM SOROWAR whose telephone number is (571)270-3761. The examiner can normally be reached on MON-FRI: 7:00 am-5:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EDWARD F. URBAN can be reached on (571) 272-7899. 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.

/GOLAM SOROWAR/
Examiner, Art Unit 2649

Notice of References Cited	Application/Control No. 11/911,277	Applicant(s)/Patent Under Reexamination PARK ET AL.	
	Examiner GOLAM SOROWAR	Art Unit 2649	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2004/0155907 A1	08-2004	Yamaguchi et al.	345/810
*	B	US-2006/0290661 A1	12-2006	Innanen et al.	345/156
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	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.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	Art Unit
	GOLAM SOROWAR	2618

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

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

CLAIM		DATE								
Final	Original	04/03/2012	08/16/2012	05/22/2013						
	1	✓	✓	✓						
	2	✓	✓	✓						
	3	✓	✓	✓						
	4	✓	✓	✓						
	5	✓	✓	✓						
	6	✓	✓	✓						
	7	✓	✓	✓						
	8	✓	✓	✓						
	9	✓	✓	✓						
	10	✓	✓	✓						
	11	✓	✓	✓						
	12	✓	✓	✓						
	13	✓	✓	✓						
	14	✓	✓	✓						
	15	✓	✓	✓						
	16	✓	✓	✓						
	17	✓	✓	✓						
	18	✓	✓	✓						
	19	✓	✓	✓						
	20	✓	✓	✓						

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	Art Unit
	GOLAM SOROWAR	2618

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	418, 550.1, 455, 416	5/22/2013	GS
715	700, 810, 243, 817	5/22/2013	GS
345	55	5/22/2013	GS

SEARCH NOTES		
Search Notes	Date	Examiner
EAST	5/22/2013	GS
Google Patent	5/22/2013	GS
IDS	5/22/2013	GS
STIC	5/22/2013	GS
PALM inventor search	5/22/2013	GS
NPL	5/22/2013	GS
PLUS search	5/22/2013	GS
IEEE	5/22/2013	GS

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

/GOLAM SOROWAR/ Examiner.Art Unit 2649	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	14	(PARK-YOUNGMIN.in. or KIM-HOOJONG.in.)	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:36
S3	0	(PARK-YOUNGMIN.in. or KIM-HOOJONG.in.) and spin$hom	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:39
S4	1	(PARK-YOUNGMIN.in. or KIM-HOOJONG.in.) and spin$home	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:39
S5	1	"20060095916"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:41
S6	3	(SPIN$HOME OR SPIN HOME)	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:43
S7	168072	(spin or spin$4 or circulat$4 or rotat$4) with function	US-PGPUB; USPAT	ADJ	ON	2010/07/19 08:45
S8	15934	(spin or spin$4 or circulat$4 or rotat$4) with function and (phone or mobile or laptop or dektop or celluler)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 08:46
S9	227	(spin or spin$4 or circulat$4 or rotat$4) with function and (phone or mobile or laptop or dektop or celluler) and idle near3 state	US-PGPUB; USPAT	ADJ	ON	2010/07/19 08:47
S10	1	(spin or spin$4 or circulat$4 or rotat$4) with function with (lcd or display or monitor) and (phone or mobile or laptop or dektop or celluler) and idle near3 state	US-PGPUB; USPAT	ADJ	ON	2010/07/19 08:47
S11	1	("6363264").PN.	USPAT; USOCR	OR	OFF	2010/07/19 08:50
S12	0	("2007/0155373").URPN.	USPAT	OR	OFF	2010/07/19 08:53
S13	2	("5016002" | "6122530").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/19 08:53
S14	11	("6363264").URPN.	USPAT	OR	OFF	2010/07/19 08:53
S15	45	idle screen with (curren$4 or presen$4) with displa$4	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 10:24
S16	10	idle screen with (curren$4 or presen$4) with displa$4 and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 10:24
S17	265	idle with (curren$4 or presen$4) with displa$4 and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 10:26
S18	33	"455"/$.ccls. and idle with (curren$4 or presen$4) with displa$4 and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 10:27
S19	4253	455/550.1.ccls.	US-PGPUB; USPAT	OR	OFF	2010/07/19 14:35

S20	2331	455/550.1.ccls. and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:35
S21	0	455/550.1.ccls. move$ key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:36
S22	0	455/550.1.ccls. move$4 key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:36
S23	4111	move$4 key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:36
S24	321	(celluler or phone or mobile) and move$4 key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:36
S25	11	(celluler or phone or mobile) and move$4 key and (down$ and left$ and right$) key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 14:37
S26	10	455/550.1.ccls. and move$ key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:45
S27	4	455/550.1.ccls. and movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:47
S28	2575	455/418.ccls.	US-PGPUB; USPAT	OR	OFF	2010/07/19 14:48
S29	1301	455/418.ccls. and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:49
S30	2	455/418.ccls. and movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 14:49
S31	6	455/418.ccls. and (down$ and left$ and right$) key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 14:54
S32	9	455/550.1.ccls. and (down$ and left$ and right$) key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:02
S33	1	455/550.1.ccls. and (left$ and right$) movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:09
S34	19	(left$ and right$) movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:11
S35	1	"11807032"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:17
S36	1	("7350158").PN.	USPAT; USOCR	OR	OFF	2010/07/19 15:18
S37	0	("20050278647").PN.	USPAT; USOCR	OR	OFF	2010/07/19 15:25
S38	1	("20050278647").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/19 15:25
S39	4458	movement key	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:26
S40	3594	movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:26
S41	182	movement key and selec$4 with (left and right) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:27
S42	5	movement key and selec$4 with (left and right) and (downward key) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:27
S43	2	"20060189345"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:41
S44	3	"2005112491"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:41

S45	2	"20040087349"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:42
S46	3	"20050138105"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:43
S47	2	"20070162872"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:43
S48	2	"20060274155"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:44
S49	9182	address book and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:57
S50	433	address book and contact address and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:58
S51	1	address book and contact address and shortcut with contact and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:58
S52	0	address book and contact address and shortcutt and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:58
S53	21	address book and contact address and shortcut and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:58
S54	0	(short$cut or short cut or shortcut) address book	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:03
S55	52	(short$cut or short cut or shortcut) with address book	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:03
S56	19	(short$cut or short cut or shortcut) with address book and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:03
S57	567	address book near5 display and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:06
S58	0	contact near 4address book near5 display and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:06
S59	31	contact near4 address book near5 display and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:06
S60	6603	(455/550.1 or 455/418).ccls.	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:11
S61	3529	(455/550.1 or 455/418).ccls. and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:11
S62	164	(455/550.1 or 455/418).ccls. and @py<"2007" and storage (unit or module)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:12
S63	6	(455/550.1 or 455/418).ccls. and @py<"2007" and storage (unit or module) with buffe$4	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:12
S64	94	("455"/$).ccls. and @py<"2007" and storage (unit or module) with buffe$4	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:12
S65	4464	("455"/$).ccls. and @py<"2007" and buffe$4 with (character or image or data)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:13
S66	3330	("455"/$).ccls. and @py<"2007" and	US-PGPUB;	ADJ	ON	2010/07/19

		buffe$4 with (character or image or data) and (cellur or phone or mobile)	USPAT			17:13
S67	95	("455"/$).ccls. and @py<"2007" and buffe$4 with (character or image) data and (cellur or phone or mobile)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:14
S68	116	("455"/$).ccls. and @py<"2007" and buffe$4 with (character or image) data	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:15
S69	27	("455"/$).ccls. and @py<"2007" and data buffe$4 with (character or image) data	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:15
S70	4253	455/550.1.ccls.	US-PGPUB; USPAT	OR	OFF	2010/07/19 18:22
S71	2331	455/550.1.ccls. and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 18:22
S72	27	455/550.1.ccls. and cache memory and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 18:23
S73	3	455/550.1.ccls. and cache memory same display and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 18:23
S74	1	("7350158").PN.	US-PGPUB; USPAT	OR	OFF	2010/12/10 08:49
S75	1	("20050278647").PN.	US-PGPUB; USPAT	OR	OFF	2010/12/10 08:58
S76	0	(spin$home) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/12/10 09:01
S77	2339	455/550.1.ccls. and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2010/12/10 09:10
S78	0	455/550.1.ccls. and vitual with display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/12/10 09:11
S79	30	455/550.1.ccls. and virtual with display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/12/10 09:12
S80	5	("7350158").URPN.	USPAT	OR	OFF	2010/12/10 09:20
S81	4	("20040250217" | "5926178" | "6239803" | "6388686").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/12/10 09:21
S82	4	("20040250217" | "5926178" | "6239803" | "6388686").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/12/10 09:53
S83	21	455/550.1.ccls. and key with idle with display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/12/10 10:47
S84	3	455/550.1.ccls. and idle with curren$4 with display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/12/10 10:48
S85	1348	(transf$5 or switc$4) with display	US-PGPUB;	ADJ	ON	2011/03/21

		with (lapton or pc or computer) with (TV or television or LCD) and @py<"2007"	USPAT			14:28
S86	309	"348"/$.ccls. and (transf$5 or switc$4) with display with (lapton or pc or computer) with (TV or television or LCD) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2011/03/21 14:28
S87	258	power with (transf$5 or switc$4) with display with (lapton or pc or computer) with (TV or television or LCD) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2011/03/21 14:32
S88	2	power with save with (transf$5 or switc$4) with display with (lapton or pc or computer) with (TV or television or LCD) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2011/03/21 14:32
S89	4	power with sav$4 with (transf$5 or switc$4) with display with (lapton or pc or computer) with (TV or television or LCD) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2011/03/21 14:32
S90	2	"20060030370"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/03/31 22:41
S91	2238262	display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/14 12:22
S92	3681	(designa$6 or assig$6) with number with (screen) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/15 16:51
S93	28	(designa$6 or assig$6) with number with different near3 (screen) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/15 16:51
S94	13	assin$4 near3 number and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2012/08/16 08:37
S95	69342	assig$4 near3 number and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2012/08/16 08:38
S96	13	assig$4 near3 number with (different) near3 application and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2012/08/16 08:38
S97	823	(navigat$4 or switc$4) with ((different or pura$4) near3 screen or multi$screen) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2012/08/16 09:25
S98	3026	(navigat$4 or switc$4) with ((different or pura$4) near3 (screen or application) or multi$screen or multi4application) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2012/08/16 09:26
S99	220	(navigat$4 or switc$4) with ((different or pura$4) near3 (screen or application) or multi$screen or multi4application) with (number) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2012/08/16 10:25
S100	54	gui and (navigat$4 or switc$4) with ((different or pura$4) near3 (screen or application) or multi$screen or multi4application) with (number) and	US-PGPUB; USPAT	ADJ	ON	2012/08/16 10:26

		@py<"2007"				
S101	47854	Gui and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:04
S102	34	Gui and (circular$manner or circular near3 manner or spin$home or spin near3 home)and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:05
S103	9550	(circular$manner or circular near3 manner or spin$home or spin near3 home)and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:07
S104	266987	(circular$manner or circular near3 manner or spin)and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:07
S105	836	(selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin)and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:07
S106	836	(selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:08
S107	9	gui and (selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:08
S108	7	"345"/$.ccls. and (selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:09
S109	0	(selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) with navigation and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:11
S110	9	(selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) with key and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:11
S111	1	("20060030370").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2012/08/16 11:39
S112	1	("20120220344").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/19 15:37
S113	2793	(designat$4 or assig$5) near3 (number) near3 (application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/19 15:41
S114	118	(designat$4 or assig$5) near3 (number) near3 (application) same (display or screen) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/19 15:42
S115	49	(selec$5) near3 (application) with (use or using) near3 (key$pad or key$board) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO;	ADJ	ON	2013/05/19 15:49

			DERWENT			
S117	1	("20110307835").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/19 16:48
S118	1	("20060030371").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/19 16:49
S119	1	("20060099938").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/19 16:55
S120	1	("20060229106").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/19 16:56
S121	1	("20070077970").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/19 16:58
S122	3188	(user) near5 (assign$4 or designat$4) near3 (application or icon) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/19 17:02
S123	666	(user) near5 (assign$4 or designat$4) near3 (application or icon) and mobile and (screen or display) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/19 17:02
S124	33	(user) near5 (assign$4 or designat$4) near3 (number or letter or symbol) near3 (application or icon) and mobile and (screen or display) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/19 17:03
S126	651	(short$cut or short cut) near3 (icon or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/22 13:46
S128	12	(short$cut or short cut) near3 (icon or application) same (idle or stand$by or stand by) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/22 13:56
S129	2	"20060290661"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2013/05/22 16:20

5/22/2013 5:20:11 PM
C:\Users\gsorowar\Documents\EAST\Workspaces\11911277.wsp

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

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

Application Number	11911277	Filing Date	2007-10-11	Docket Number (if applicable)	126587-0008	Art Unit	2649
First Named Inventor	Youngmin PARK			Examiner Name	Golam Sorowar		

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

SUBMISSION REQUIRED UNDER 37 CFR 1.114

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

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

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

☒ Enclosed

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

MISCELLANEOUS

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

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 071337

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Yoon S. Ham/	Date (YYYY-MM-DD)	2012-11-27
Name	Yoon S. Ham	Registration Number	45307

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.

Electronic Patent Application Fee Transmittal

Application Number:	11911277
Filing Date:	11-Oct-2007
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Filer:	Yoon Ham/james rhee
Attorney Docket Number:	126587-0008

Filed as Large Entity

U.S. National Stage under 35 USC 371 Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Request for continued examination	1801	1	930	930
		Total in USD ($)		**930**

Electronic Acknowledgement Receipt

EFS ID:	14320367
Application Number:	11911277
International Application Number:	
Confirmation Number:	5567
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Customer Number:	22429
Filer:	Yoon Ham/james rhee
Filer Authorized By:	Yoon Ham
Attorney Docket Number:	126587-0008
Receipt Date:	27-NOV-2012
Filing Date:	11-OCT-2007
Time Stamp:	17:48:37
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$930
RAM confirmation Number	5278
Deposit Account	071337
Authorized User	HAM, YOON S

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

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		121127_0008_amendment.pdf	66487 fce9cd8a941cffc90400d43467a593208076e887	yes	11

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Amendment Submitted/Entered with Filing of CPA/RCE	1	1
Claims	2	7
Applicant Arguments/Remarks Made in an Amendment	8	11

Warnings:

Information:

2	Request for Continued Examination (RCE)	121127_0008_RCE.pdf	797980 ad6fcdacbffd99d34b2c7137cee73848e20bdb4c	no	3

Warnings:

Information:

3	Fee Worksheet (SB06)	fee-info.pdf	30682 d83b5bb0c7106883e881ce7bd124d27b9adb7990	no	2

Warnings:

Information:

Total Files Size (in bytes):	895149

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	:	11/911,277	
Applicant	:	Youngmin PARK et al.	Confirmation No.: 5567
371(c) Date	:	October 11, 2007	
Tech Cntr/AU	:	2649	
Examiner	:	Sorowar, Golam	
Entitled	:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	
Attorney Reference	:	126587-0008	
Customer Number	:	22429	

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

AMENDMENT

Dear Sir:

In response to the Office Action (OA) dated August 28, 2012, and the Advisory Action dated November 20, 2012, please amend the above-identified application and enter the following remarks, as follows:

- **Amendments to the Claims** as reflected in the listing of claims; and
- **Remarks**.

AMENDMENTS TO THE CLAIMS

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

Listing of Claims:

1. (**Currently Amended**) A method of providing an application selection function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and a display module, the method comprising the steps of:

(a) designating one or more sequence numbers to corresponding one or more applications in response to ~~a user~~ an input of a user;

(b) running an application selection program stored in the program memory when [[a]]the user operates a first key button for driving the application selection program, and displaying a first application of the one or more applications on the display module;

(c) displaying a next application of the one or more applications according to an order of the designated one or more sequence numbers, in a circular manner, on the display module every time the user operates a second key button; and

(d) adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in an idle mode.

2. (Previously Presented) The method as claimed in claim 1, wherein the designation of the one or more sequence numbers is performed in accordance with user selection of a spin-home addition/deletion item of a menu item of the corresponding one or more applications.

3. (Previously Presented) The method as claimed in claim 1, wherein step (a) includes the steps of:

(a1) driving a screen setup program stored in the program memory when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module; and

(a2) toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of application items displayed on the display module.

4. (Previously Presented) The method as claimed in claim 1, wherein the first key button for driving the application selection program and the second key button for circulating the next application are dedicated spin-home key buttons separately positioned on the mobile communication terminal.

5. (Previously Presented) The method as claimed in claim 1, wherein the first key button for driving the application selection program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button.

6. (Previously Presented) The method as claimed in claim 1, wherein the application adopted as the idle screen is selected from schedule management, address book, recently used applications, game, text message, image, moving picture, or shortcut icon screen.

7. (Previously Presented) The method as claimed in claim 6, wherein the address book designated as the idle screen and displayed on the display module is a book selected from a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, or a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor.

8. (**Currently Amended**) An apparatus of providing an application selection function for a mobile communication terminal, the apparatus comprising:

a microprocessor configured to execute an application selection program;

a data storage module coupled to the microprocessor and configured to act as a data buffer when the application selection program is executed;

a key input module configured to input characters and numbers, the key input module having a first key arranged for causing the execution of the application selection program;

a display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode; and

a program memory encoded to store the application selection program, the application selection program being configured to cause the microprocessor to perform a method comprising:

if the first key being operated by a user, initiating the application selection program and displaying a first application of one or more applications on the display module, the one or more applications each having a corresponding one of one or more sequence numbers designated in response to ~~a user~~ an input of the user;

if a second key being operated, displaying a next application of the one or more applications on the display module as a currently displayed application according to an order of the designated one or more sequence numbers in a circular manner; and

adopting the currently displayed application as the idle screen if a confirmation key being operated.

9. (Previously Presented) The apparatus as claimed in claim 8, wherein the key input module has a dedicated spin-home key button configured as the first key.

10. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a screen setup program, the screen setup program is configured to cause the microprocessor to:

display application items of one of the one or more applications adopted as the idle screen on the LCD display module when [[a]]the user operates a predetermined key button while the mobile communication terminal is in the idle mode, and

toggle on/off the displayed idle screen corresponding to the adopted application in accordance with user selection when the user selects at least one of the application items.

11. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a contact management program, the contact management program is configured to cause the microprocessor to:

automatically manage frequently used contact addresses of [[a]]the user during an interval; and

display a list of the contact addresses on the display module in response to key input from the user.

12. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store an extracting program, the extracting program is configured to cause the microprocessor to:

extract contact addresses and shortcuts being assigned to the contact addresses by [[a]]the user, and

display a list of the contact addresses on the display module in response to key input from the user.

13. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store an obtaining program, the obtaining program is configured to cause the microprocessor to obtain a list of application used by [[a]]the user for a period of time from present time and displaying the list on the display module in response to key input from the user.

14. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a shortcut program, the shortcut program is configured to cause the microprocessor to:

assign an icon to at least one application, when the at least one application is associated with a shortcut,

display a shortcut icon screen on the display module when [[a]]the user selects the shortcut icon screen in an idle screen setup mode, and

activate the at least one application corresponding to the icon when the user selects the icon via key input.

15. (Previously Presented) The apparatus as claimed in claim 14, wherein the icon is designated by the user.

16. (**Currently Amended**) A method of changing an idle screen for a mobile terminal having a first key, a second key, and a confirmation key, the method comprising:

designating one or more sequence numbers to corresponding one or more applications in response to ~~a user~~ an input of a user;

if the first key being operated by the user, initiating an application selection program stored in a program memory of the mobile terminal and displaying one of the one or more applications having a smallest sequence number among the one or more applications on a display module of the mobile terminal, thereby the one of the one or more applications becoming a currently displayed application;

if the second key being operated, executing the application selection program and displaying a next application on the display module, the next application being next to the currently displayed application according to an order of the designated one or more sequence numbers in a circular manner, thereby the next application becoming the currently displayed application; and

if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode.

17. (Previously Presented) The method of claim 16, further comprising:

adding another sequence number to another application or removing the corresponding sequence number of one of the one or more applications by operating a spin-home addition/deletion menu item.

18. (Previously Presented) The method of claim 16, wherein the first key and the second key are dedicated key buttons separately positioned on the mobile terminal.

19. (Previously Presented) The method of claim 16, wherein the first key is a downward movement key button positioned on the mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal.

20. (Previously Presented) The method of claim 16, wherein the one or more applications comprises one or more of the following applications: schedule management, address book, list of recently used applications, game, text message, image, moving picture, or shortcut icon screen.

REMARKS

Reconsideration and allowance of the subject application are respectfully requested.

Applicant thanks Examiner Sorowar for the courtesies extended to Applicant's representatives during the November 6, 2012, telephone interview. The indication that the amended independent claim 1 as presented in this Amendment may overcome existing rejections is noted with appreciation.

By this Amendment, claims 1, 8, 10-14, and 16 are amended. Accordingly, upon entry of this Amendment, claims 1-20 are pending in this application. Support for the amended claims is believed found in the original specification, drawings, and claims.

Rejections under § 103

Claims 1, 2, 4-9, 16-18, and 20 are rejected under 35 U.S.C. §103(a) as being unpatentable over *Wen* (US 2003/0038825) in view of *Yamagichi* (US 7,350,158) and *Wardimon* (US 2006/0030370). The rejection is believed overcome for at least the reasons discussed below.

Whether or not the claimed subject matter would have been obvious at the time of invention to one of ordinary skill in the art is a question of law based on underlying facts. *Winner Int'l Royalty Corp. v. Wang*, 202 F.3d 1340, 1348, 53 USPQ2d 1580, 1586 (Fed. Cir. 2000). The relevant factual inquiries include the following factors:

> (1) the scope and content of the prior art; (2) the differences between the claimed invention and the prior art; (3) the level of ordinary skill in the art; and (4) any relevant secondary considerations…. *Graham v. John Deere Co. of Kansas City*, 383 U.S. 1, 17-18 (1966).

Here, many of these factual questions and the ultimate legal conclusion are in dispute.

Independent claim 1 recites, among other things, "designating one or more sequence numbers to corresponding one or more applications in response to an input of a user" and "running an application selection program stored in the program memory when the user operates

a first key button for driving the application selection program." *Wen*, *Yamagichi*, and *Wardimon* fail to disclose or suggest at least these features.

Wen describes a single key-press navigation system for operating a computer for computer novice users. *Wen* at paragraph 0001. A main screen of the system listed a number of daily functionalities to which numeric keys 1-10 of the keyboard are assigned. *Wen* at paragraphs 0026-0027. In *Wen*, as best understood, the single key-press suggestions either assigned by the programmer or automatically generated by executing of the application program itself. However, *Wen* is silent regarding assigning the single key-press suggestions by the computer novice users. Therefore, *Wen* cannot reasonably be interpreted to disclose or suggest the recited "designating one or more sequence numbers to corresponding one or more applications in response to an input of a user," which is the user who "operates a first key button for driving the application selection program," as recited in independent claim 1 (emphasis added).

Yamagichi and *Wardimon* are not applied by the PTO in a manner sufficient to remedy the deficiencies of *Wen*, and thus *Wen*, *Yamagichi*, and *Wardimon* as applied in the Office Action fail to render independent claim 1 obvious.

Independent claim 8 recites, among other things, "if the first key being operated by a user, initiating the application selection program and displaying a first application of one or more applications on the display module, the one or more applications each having a corresponding one of one or more sequence numbers designated in response to an input of the user." Independent claim 16 recites, among other things, "designating one or more sequence numbers to corresponding one or more applications in response to an input of a user" and "if the first key being operated by the user, initiating an application selection program stored in a program memory of the mobile terminal." For at least the reasons similar to those advanced above for independent claim 1, *Wen*, *Yamagichi*, and *Wardimon* as applied in the Office Action fail to render independent claims 8 and 16 obvious.

Claims 2, 4-7, 9, 17-18, and 20 depend *inter alia* from independent claim 1, 8, or 16, include further patentable features, and are patentable over *Wen*, *Yamagichi*, and *Wardimon* as

applied in the Office Action at least for these features and/or the reasons advanced above with respect to claims 1, 8, and 16.

Claims 3 and 10 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Wen* in view of *Yamagichi* and *Wardimon*, and further in view of *Overy* (US 6,363,264). Claims 11-15 and 19 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Wen* in view of *Yamagichi* and *Wardimon*, and further in view of *Tojo* (US 2004/0250217).

The deficiencies of *Wen*, *Yamagichi*, and *Wardimon* were advanced above. *Overy* and *Tojo* were not applied in the Office Action in a manner sufficient to remedy the deficiencies of *Wen*, *Yamagichi*, and *Wardimon*. Therefore, *Wen*, *Yamagichi*, and *Wardimon* in view of one of *Overy* and *Tojo* as applied in the Office Action fail to render independent claims 1, 8, and 16, from which claims 3, 10-15, and 19 variously depend, obvious. Withdrawal of the rejections of claims 3, 10-15, and 19 is respectfully requested.

Conclusion

It is respectfully submitted that the present application is in condition for allowance, and a Notice to that effect is earnestly solicited. Early issuance of a Notice of Allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicant's attorney of record, to facilitate advancement of the present application.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

LOWE HAUPTMAN HAM & BERNER, LLP

/Yoon S. Ham/
Yoon S. Ham
Registration No. 45,307

Customer Number: 22429
1700 Diagonal Road, Suite 300
Alexandria, Virginia 22314
(703) 684-1111
(703) 518-5499 Facsimile
Date: **November 27, 2012**
YSH/TC/jr

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☒ To be Mailed
11/911,277	10/11/2007	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☐ RATE ($)	SMALL ENTITY ☐ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 11/27/2012	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $ =		OR	X $62=	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $ =		OR	X $250=	0
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0

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

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

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

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

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

Legal Instrument Examiner:
/NICHELE PETERSON/

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.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

22429 7590 11/20/2012

LOWE HAUPTMAN HAM & BERNER, LLP
1700 DIAGONAL ROAD
SUITE 300
ALEXANDRIA, VA 22314

EXAMINER	
SOROWAR, GOLAM	
ART UNIT	PAPER NUMBER
2649	

MAIL DATE	DELIVERY MODE
11/20/2012	PAPER

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.

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	11/911,277	PARK ET AL.	
	Examiner	Art Unit	
	GOLAM SOROWAR	2649	

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

(1) *GOLAM SOROWAR*. (3)_____.

(2) *Tony Chan*. (4)_____.

Date of Interview: *06 November 2012*.

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: *US 20030038825*.

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 agreed to amend the claim 1 to clarify the term "user input" to overcome the cited reference on the record. However, Examiner will reserve the judgement until the formal admendment is reviewed and the search is updated as appropriate.

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

/LANA N. LE/ Primary Examiner, Art Unit 2656	

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.

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 11/911,277	**Applicant(s)** PARK ET AL.
	Examiner GOLAM SOROWAR	**Art Unit** 2649

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

THE REPLY FILED 30 October 2012 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☒ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance;

(2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:

a) ☒ The period for reply expires *3* months from the mailing date of the final rejection.

b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires months from the mailing date of *the prior Advisory Action* or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.

Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANT'S FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

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

NOTICE OF APPEAL

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

AMENDMENTS

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

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

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

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

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

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

AFFIDAVIT OR OTHER EVIDENCE

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

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

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

REQUEST FOR RECONSIDERATION/OTHER

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.

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

13. ☒ Other: Interview summary.

STATUS OF CLAIMS

14. The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: .

Claim(s) objected to: .

Claim(s) rejected: 1-20.

Claim(s) withdrawn from consideration: .

/LANA N. LE/
Primary Examiner, Art Unit 2656

Continuation of 11. does NOT place the application in condition for allowance because: With respects to Applicants arguments that cited references do not teach or suggest, "designating one or more sequence numbers to corresponding one or more application in response to a user input", Examiner respectfully disagrees because the term for the "user input" is very broad. In Para. [0026-0027], Wen discloses, "a main screen of the system listed a number of daily functionalities to which numeric keys 1-10 of the keyboard are assigned." Assigning a number can be done by a programmer. And, a programmer can be considered as an user. Thus, contrary to the applicant's arguments, Wen does disclose “designating one or more sequence numbers to corresponding one or more application in response to a user input".

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	:	11/911,277	EXPEDITED PROCEDURE Response under 37 CFR 1.116
Applicant	:	Youngmin PARK et al.	Confirmation No.: 5567
371(c) Date	:	October 11, 2007	
Tech Cntr/AU	:	2618	
Examiner	:	Sorowar, Golam	
Entitled	:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	
Attorney Reference	:	126587-0008	
Customer Number	:	22429	

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

AMENDMENT

Dear Sir:

In response to the Office Action (OA) dated August 28, 2012, please amend the above-identified application and enter the following remarks, as follows:

- **Amendments to the Claims** as reflected in the listing of claims; and
- **Remarks**.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	:	11/911,277	EXPEDITED PROCEDURE Response under 37 CFR 1.116
Applicant	:	Youngmin PARK et al.	Confirmation No.: 5567
371(c) Date	:	October 11, 2007	
Tech Cntr/AU	:	2618	
Examiner	:	Sorowar, Golam	
Entitled	:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	
Attorney Reference	:	126587-0008	
Customer Number	:	22429	

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

AMENDMENT

Dear Sir:

In response to the Office Action (OA) dated August 28, 2012, please amend the above-identified application and enter the following remarks, as follows:

- **Amendments to the Claims** as reflected in the listing of claims; and
- **Remarks**.

AMENDMENTS TO THE CLAIMS

No claim amendment has been proposed, but the claims are reproduced for the Examiner's convenience:

Listing of Claims:

1. (Previously Presented) A method of providing an application selection function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and a display module, the method comprising the steps of:

(a) designating one or more sequence numbers to corresponding one or more applications in response to a user input;

(b) running an application selection program stored in the program memory when a user operates a first key button for driving the application selection program, and displaying a first application of the one or more applications on the display module;

(c) displaying a next application of the one or more applications according to an order of the designated one or more sequence numbers, in a circular manner, on the display module every time the user operates a second key button; and

(d) adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in an idle mode.

2. (Previously Presented) The method as claimed in claim 1, wherein the designation of the one or more sequence numbers is performed in accordance with user selection of a spin-home addition/deletion item of a menu item of the corresponding one or more applications.

3. (Previously Presented) The method as claimed in claim 1, wherein step (a) includes the steps of:

(a1) driving a screen setup program stored in the program memory when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module; and

(a2) toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of application items displayed on the display module.

4. (Previously Presented) The method as claimed in claim 1, wherein the first key button for driving the application selection program and the second key button for circulating the next application are dedicated spin-home key buttons separately positioned on the mobile communication terminal.

5. (Previously Presented) The method as claimed in claim 1, wherein the first key button for driving the application selection program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button.

6. (Previously Presented) The method as claimed in claim 1, wherein the application adopted as the idle screen is selected from schedule management, address book, recently used applications, game, text message, image, moving picture, or shortcut icon screen.

7. (Previously Presented) The method as claimed in claim 6, wherein the address book designated as the idle screen and displayed on the display module is a book selected from a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, or a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor.

8. (Previously Presented) An apparatus of providing an application selection function for a mobile communication terminal, the apparatus comprising:

a microprocessor configured to execute an application selection program;

a data storage module coupled to the microprocessor and configured to act as a data buffer when the application selection program is executed;

a key input module configured to input characters and numbers, the key input module having a first key arranged for causing the execution of the application selection program;

a display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode; and

a program memory encoded to store the application selection program, the application selection_program being configured to cause the microprocessor to perform a method comprising:

if the first key being operated, initiating the application selection program and displaying a first application of one or more applications on the display module, the one or more applications each having a corresponding one of one or more sequence numbers designated in response to a user input;

if a second key being operated, displaying a next application of the one or more applications on the display module as a currently displayed application according to an order of the designated one or more sequence numbers in a circular manner; and

adopting the currently displayed application as the idle screen if a confirmation key being operated.

9. (Previously Presented) The apparatus as claimed in claim 8, wherein the key input module has a dedicated spin-home key button configured as the first key.

10. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a screen setup program, the screen setup program is configured to cause the microprocessor to:

display application items of one of the one or more applications adopted as the idle screen on the LCD display module when a user operates a predetermined key button while the mobile communication terminal is in the idle mode, and

toggle on/off the displayed idle screen corresponding to the adopted application in accordance with user selection when the user selects at least one of the application items.

11. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a contact management program, the contact management program is configured to cause the microprocessor to:

automatically manage frequently used contact addresses of a user during an interval; and

display a list of the contact addresses on the display module in response to key input from the user.

12. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store an extracting program, the extracting program is configured to cause the microprocessor to:

extract contact addresses and shortcuts being assigned to the contact addresses by a user, and

display a list of the contact addresses on the display module in response to key input from the user.

13. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store an obtaining program, the obtaining program is configured to cause the microprocessor to obtain a list of application used by a user for a period of time from present time and displaying the list on the display module in response to key input from the user.

14. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a shortcut program, the shortcut program is configured to cause the microprocessor to:

assign an icon to at least one application, when the at least one application is associated with a shortcut,

display a shortcut icon screen on the display module when a user selects the shortcut icon screen in an idle screen setup mode, and

activate the at least one application corresponding to the icon when the user selects the icon via key input.

15. (Previously Presented) The apparatus as claimed in claim 14, wherein the icon is designated by the user.

16. (Previously Presented) A method of changing an idle screen for a mobile terminal having a first key, a second key, and a confirmation key, the method comprising:

designating one or more sequence numbers to corresponding one or more applications in response to a user input;

if the first key being operated, initiating an application selection program stored in a program memory of the mobile terminal and displaying one of the one or more applications having a smallest sequence number among the one or more applications on a display module of the mobile terminal, thereby the one of the one or more applications becoming a currently displayed application;

if the second key being operated, executing the application selection program and displaying a next application on the display module, the next application being next to the currently displayed application according to an order of the designated one or more sequence numbers in a circular manner, thereby the next application becoming the currently displayed application; and

if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode.

17. (Previously Presented) The method of claim 16, further comprising:

adding another sequence number to another application or removing the corresponding sequence number of one of the one or more applications by operating a spin-home addition/deletion menu item.

18. (Previously Presented) The method of claim 16, wherein the first key and the second key are dedicated key buttons separately positioned on the mobile terminal.

19. (Previously Presented) The method of claim 16, wherein the first key is a downward movement key button positioned on the mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal.

20. (Previously Presented) The method of claim 16, wherein the one or more applications comprises one or more of the following applications: schedule management, address book, list of recently used applications, game, text message, image, moving picture, or shortcut icon screen.

REMARKS

Reconsideration and allowance of the subject application are respectfully requested.

No claim amendment has been proposed in this Amendment. Claims 1-20 are pending in this application.

Rejections under § 103

Claims 1, 2, 4-9, 16-18, and 20 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Wen* (US 2003/0038825) in view of *Yamagichi* (US 7,350,158) and *Wardimon* (US 2006/0030370). The rejection is respectfully traversed for at least the reasons discussed below.

Whether or not the claimed subject matter would have been obvious at the time of invention to one of ordinary skill in the art is a question of law based on underlying facts. *Winner Int'l Royalty Corp. v. Wang*, 202 F.3d 1340, 1348, 53 USPQ2d 1580, 1586 (Fed. Cir. 2000). The relevant factual inquiries include the following factors:

> (1) the scope and content of the prior art; (2) the differences between the claimed invention and the prior art; (3) the level of ordinary skill in the art; and (4) any relevant secondary considerations.... *Graham v. John Deere Co. of Kansas City*, 383 U.S. 1, 17-18 (1966).

Here, many of these factual questions and the ultimate legal conclusion are in dispute.

Independent claim 1 recites, among other things, "designating one or more sequence numbers to corresponding one or more applications in response to a user input." *Wen*, *Yamagichi*, and *Wardimon* fail to disclose or suggest at least these features.

Wen describes a single key-press navigation system for operating a computer for computer novice users. *Wen* at paragraph 0001. A main screen of the system listed a number of daily functionalities to which numeric keys 1-10 of the keyboard are assigned. *Wen* at paragraphs 0026-0027. In *Wen*, as best understood, the single key-press suggestions either assigned by the programmer or automatically generated by executing of the application program

itself. However, *Wen* is silent regarding assigning the single key-press suggestions by the computer novice users. Therefore, *Wen* cannot reasonably be interpreted to disclose or suggest the recited "designating one or more sequence numbers to corresponding one or more applications in response to a user input," as recited in independent claim 1 (emphasis added).

Yamagichi and *Wardimon* are not applied by the PTO in a manner sufficient to remedy the deficiencies of *Wen*, and thus *Wen*, *Yamagichi*, and *Wardimon* as applied in the Office Action fail to render independent claim 1 obvious.

Independent claim 8 recites, among other things, "if the first key being operated, initiating the application selection program and displaying a first application of one or more applications on the display module, the one or more applications each having a corresponding one of one or more sequence numbers designated in response to a user input." Independent claim 16 recites, among other things, "designating one or more sequence numbers to corresponding one or more applications in response to a user input." For at least the reasons similar to those advanced above for independent claim 1, *Wen*, *Yamagichi*, and *Wardimon* as applied in the Office Action fail to render independent claims 8 and 16 obvious.

Claims 2, 4-7, 9, 17-18, and 20 depend *inter alia* from independent claim 1, 8, or 16, include further patentable features, and are patentable over *Wen*, *Yamagichi*, and *Wardimon* as applied in the Office Action at least for these features and/or the reasons advanced above with respect to claims 1, 8, and 16.

Claims 3 and 10 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Wen* in view of *Yamagichi* and *Wardimon*, and further in view of *Overy* (US 6,363,264). Claims 11-15 and 19 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Wen* in view of *Yamagichi* and *Wardimon*, and further in view of *Tojo* (US 2004/0250217).

The deficiencies of *Wen*, *Yamagichi*, and *Wardimon* were advanced above. *Overy* and *Tojo* were not applied in the Office Action in a manner sufficient to remedy the deficiencies of *Wen*, *Yamagichi*, and *Wardimon*. Therefore, *Wen*, *Yamagichi*, and *Wardimon* in view of one of *Overy* and *Tojo* as applied in the Office Action fail to render independent claims 1, 8, and 16,

from which claims 3, 10-15, and 19 variously depend, obvious. Withdrawal of the rejections of claims 3, 10-15, and 19 is respectfully requested.

Conclusion

It is respectfully submitted that the present application is in condition for allowance, and a Notice to that effect is earnestly solicited. Early issuance of a Notice of Allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicant's attorney of record, to facilitate advancement of the present application.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

LOWE HAUPTMAN HAM & BERNER, LLP

/Yoon S. Ham/
Yoon S. Ham
Registration No. 45,307

Customer Number: 22429
1700 Diagonal Road, Suite 300
Alexandria, Virginia 22314
(703) 684-1111
(703) 518-5499 Facsimile
Date: October 30, 2012
YSH/TC/jr

Electronic Acknowledgement Receipt

EFS ID:	14105014
Application Number:	11911277
International Application Number:	
Confirmation Number:	5567
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Customer Number:	22429
Filer:	Yoon Ham/Irene HWANG
Filer Authorized By:	Yoon Ham
Attorney Docket Number:	126587-0008
Receipt Date:	30-OCT-2012
Filing Date:	11-OCT-2007
Time Stamp:	15:09:01
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		121030_Response_126587-0008.pdf	55484 d784e4835548c601dd9c0cda6bdb46f404c78ce1	yes	9

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment After Final	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	9
Warnings:			
Information:			
	Total Files Size (in bytes):	55484	

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.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 11/911,277	Filing Date 10/11/2007	☐ To be Mailed

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)	SMALL ENTITY ☐		OR	OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

		(Column 1)		(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
	10/30/2012	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $ =		OR	X $62=	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $ =		OR	X $250=	0
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	**0**

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

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

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

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

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

Legal Instrument Examiner:
/ANTHONY WILLIAMS/

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

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

22429 7590 08/28/2012

LOWE HAUPTMAN HAM & BERNER, LLP
1700 DIAGONAL ROAD
SUITE 300
ALEXANDRIA, VA 22314

EXAMINER	
SOROWAR, GOLAM	
ART UNIT	PAPER NUMBER
2618	
MAIL DATE	DELIVERY MODE
08/28/2012	PAPER

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.

Office Action Summary	Application No.	Applicant(s)	
	11/911,277	PARK ET AL.	
	Examiner	Art Unit	
	GOLAM SOROWAR	2618	

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *26 July 2012*.

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

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

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

Disposition of Claims

5)☒ Claim(s) *1-20* is/are pending in the application.

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

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

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

Application Papers

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

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

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

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

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

Priority under 35 U.S.C. § 119

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

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-20 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Claim Rejections - 35 USC § 103

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

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

Claims 1, 2, 4-9, 16-18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wen et al. (US 20030038825), in view of Yamaguchi et al. (US 7350158), and further in view of Wardimon (US 20060030370), hereinafter referenced as Wen, Yamaghuchi and Wardimon, respectively.

Regarding claim 1, Wen discloses, A method comprising the steps of:

"designating one or more sequence numbers to corresponding one or more applications in response to a user input ***(numeric keys 1-10 are assigned to different application, see Fig. 1A and Para. 26-28)***";

"running an application selection program stored in the program memory when a user operates a first key button for driving the application selection program, and displaying a first application of the one or more application on the display module ***(All these functionalities can be started via the single press of a key on the keyboard***

of the personal computer hosting the application program. For example, each of the numeric keys 1-10 of the keyboard may be assigned to one such functionalities: The virtual numeric key 1 as represented by the visual-effect symbol 101 activates web browsing, Fig. 1A and Para. 26-28)";

"displaying a next application of the one or more application according to an order of the designated one or more sequence numbers, on the display module every time the user operates a second key button ***(numeric and function keys that are numbered in sequence are suitable for presenting a group of selection of functions to a user in the most intuitive manner, Para. 31-34)***".

However, Wen fails to discloses, "displaying a next application of the one or more application in a circular manner."

In a similar field of endeavor, Yamaguchi discloses, "displaying a next application of the one or more application in a circular manner ***(see Fig. 6)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time of invention was made to modify Wen by specifically providing displaying a next application of the one or more application in a circular manner, as taught by Yamaguchi for the purpose of efficiently navigating and selecting the application from the display of the mobile terminal.

Further, the combination of Wen and Yamaguchi fails to disclose, "adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in idle mode."

In a similar field of endeavor, Wardimon discloses, "adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in idle mode ***(see Fig. 2; S220-S240 and Para. 32-36)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify the combination by specifically providing adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in idle mode, as taught by Wardimon for the purpose of customizing the idle screen for a mobile device.

Regarding claim 2, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 1), further Yamaguchi discloses, "designating application is performed in accordance with user selection of a spin-home addition/deletion item of a menu item of the corresponding one or more application ***(The CPU 20 registers the icon numbers to the display and non-display icon management tables 28 and 29 or deletes them from these tables 28 and 29, and disposes the icon train on the orbit 50 according to the contents of the display and non-display icon management tables 28 and 29, Fig. 5 and Col. 6; lines 49-Col. 7; lines 16***)."

Regarding claim 4, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 1), further Yamaguchi

discloses, “the first key button for driving the application selection program and the second key button for circulating the next application are dedicated spin-home key buttons separately positioned on the mobile communication terminal ***(see Fig. 6)***.”

Regarding claim 5, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 1), further Yamaguchi discloses, “the first key button for driving the application selection program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button ***(see Fig. 6).***”

Regarding claim 6, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 1), in addition Wardimon discloses, **“**the application designated as the idle screen is selected from schedule management, address book, recently used applications, game, text message, image, moving picture, and shortcut icon screen ***(see Fig. 2; S220-S240 and Para. 32-36)***”.

Regarding claim 7, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 6), in addition Wardimon discloses, “the address book designated as the idle screen and displayed on the display module is a book selected from a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, or a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor ***(see Fig. 2; S220-S240 and Para. 32-36)***”.

Regarding claim 8, Wen discloses,

"a microprocessor configured to execute an application selection program ***(inherent in the art)***";

a data storage module coupled to the microprocessor and configured to act as a data buffer when the application selection program is executed (***The kernel unit comprises an interface database module for storing text-based program options information for the application software program, see abstract)***";

a key input module configured to input characters and numbers, the key input module having a first key arranged for causing the execution of the application selection program ***(an interface response module for receiving the interface requests issued by the user, see abstract)***";

"if the first key being operated, initiating the application selection program and displaying a first application of one or more application on the display module, the one or more application each having a corresponding one or more sequence numbers designated in response to a user input ***(All these functionalities can be started via the single press of a key on the keyboard of the personal computer hosting the application program. For example, each of the numeric keys 1-10 of the keyboard may be assigned to one such functionalities: The virtual numeric key 1 as represented by the visual-effect symbol 101 activates web browsing, Fig. 1A and Para. 26-28)***";

"fi a second key being operated, displaying a next application of the one or more application on the display module according to an order of the designated one or more sequence numbers ***(numeric and function keys that are numbered in sequence are***

suitable for presenting a group of selection of functions to a user in the most intuitive manner, Para. 31-34)".

However, Wen fails to discloses, "a display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode and displaying a next application of the one or more application in a circular manner."

In a similar field of endeavor, Yamaguchi discloses, "a display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode and displaying a next application of the one or more application in a circular manner ***(see Fig. 6)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time of invention was made to modify Wen by specifically providing a display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode and displaying a next application of the one or more application in a circular manner, as taught by Yamaguchi for the purpose of efficiently navigating and selecting the application from the display of the mobile terminal.

Further, the combination of Wen and Yamaguchi fails to disclose, "a program memory encoded to store the application selection program and adopting the currently displayed application as the idle screen if a confirmation key being operated."

In a similar field of endeavor, Wardimon discloses, "a program memory encoded to store the application selection program and adopting the currently displayed application as the idle screen if a confirmation key being operated ***(see Fig. 2; S220-S240 and Para. 32-36)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify the combination by specifically providing a program memory encoded to store the application selection program and adopting the currently displayed application as the idle screen if a confirmation key being operated, as taught by Wardimon for the purpose of customizing the idle screen for a mobile device.

Regarding claim 9, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 8), further Yamaguchi discloses, "where the key input module has a dedicated spin-home key button configured as the first key ***(see, Fig. 6)***."

Regarding claim 16, Wen discloses,

"designating one or more sequence numbers to corresponding one or more application in response to a user input ***(numeric keys 1-10 are assigned to different application, see Fig. 1A and Para. 26-28)***";

"if the first key being operated, initiating an application selection program stored in the program memory of the mobile terminal and displaying one of the one or more applications having a smallest sequence number among the one or more application on a display module of the mobile terminal, thereby the one of the one or more applications becoming a currently displayed application ***(All these functionalities can be started***

via the single press of a key on the keyboard of the personal computer hosting the application program. For example, each of the numeric keys 1-10 of the keyboard may be assigned to one such functionalities: The virtual numeric key 1 as represented by the visual-effect symbol 101 activates web browsing, Fig. 1A and Para. 26-28)";

"if the second key being operated, executing the application selection program and displaying a next application on the display module, the next application being next to the currently displayed application according to an order of the designated one or more sequence number ***(the visual-effect item as identified by reference numeral 102 indicates to the user that the press on the numeric key 2 on the keyboard allows for access to the electronic mail services, Fig. 1A and Para. 26-28)***".

However, Wen fails to discloses, "displaying a next application of the one or more application in a circular manner."

In a similar field of endeavor, Yamaguchi discloses, "displaying a next application of the one or more application in a circular manner ***(see Fig. 6)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time of invention was made to modify Wen by specifically providing displaying a next application of the one or more application in a circular manner, as taught by Yamaguchi for the purpose of efficiently navigating and selecting the application from the display of the mobile terminal.

Further, the combination of Wen and Yamaguchi fails to disclose, "if the confirmation key being operated, adopting the currently displayed application as the idle

screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode."

In a similar field of endeavor, Wardimon discloses, "if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode ***(see Fig. 2; S220-S240 and Para. 32-36)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify the combination by specifically providing if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode, as taught by Wardimon for the purpose of customizing the idle screen for a mobile device.

Regarding claim 17, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 1), further Yamaguchi discloses, "adding application or removing application by operating a spin-home addition/deletion menu item ***(The CPU 20 registers the icon numbers to the display and non-display icon management tables 28 and 29 or deletes them from these tables 28 and 29, and disposes the icon train on the orbit 50 according to the contents of the display and non-display icon management tables 28 and 29, Fig. 5 and Col. 6; lines 49-Col. 7; lines 16***)."

Regarding claim 18, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 16), in addition Wen

discloses, “wherein the first key and the second key are dedicated key button separately positioned on the mobile terminal ***(see, Para. 26-28)***.”

Regarding claim 20, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 16), further Tojo discloses, “wherein the one or more applications comprises: schedule management, address book, list of recently used applications, game, test message, image, moving picture, or shortcut icon screen ***(see Fig. 1A)***”.

Claims 3 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wen, in view of Yamaguchi, in view of Wardimon and further in view of Overy et al. (US 6363264), hereinafter referenced as Overy.

Regarding claim 3, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 1), the combination fails to disclose, “driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module and toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of the application items displayed on the L display module”.

In a similar field of endeavor, Overy discloses, “driving a screen setup program stored in the program memory ***(i.e., equivalent to The legend MEMORY is displayed in the region 29, Col. 3; lines 45-Col. 4; lines 12)***, when the user operates a predetermined key button ***(Depression of this key will allow telephone numbers stored in the memory to be recalled by name or number, Col. 3; lines 45-Col. 4;***

lines 12), and displaying the application that is designated as the idle screen on the display module ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-Col. 4; lines 12)*** and toggling on/off the displayed idle screen corresponding to the designated application ***(i.e., interpreted as toggle between selection of the NORMAL and EASY OPERATION modes)*** in accordance with user selection when the user selects at least one of the application items displayed on the display module ***(the clear key 16 could be used to cause the handset to toggle between displaying the legends of the EASY OPERATION mode and the NORMAL mode on the LCD with the corresponding changes in the functionality of the soft keys 14 and 15, Col. 7; lines 39-49)***",

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination by specifically providing driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module and toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of the application items displayed on the display module, as taught by Overy for the purpose of enhancing the functionality of the mobile communication terminal.

Regarding claim 10, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 8), however the combination fails to disclose, "display application items of one of the more one or more application

the LCD display module, when a user operates a predetermined key button while the mobile communication terminal is in the idle mode, and toggle on/off the displayed screen corresponding to the adopted application in accordance with user selection when the user selects at least one of the application items".

In a similar field of endeavor, Overy discloses, "display the application items of the one of the one or more application ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-Col. 4; lines 12)***, when the user operates a predetermined key button ***(Depression of this key will allow telephone numbers stored in the memory to be recalled by name or number, Col. 3; lines 45-Col. 4; lines 12)***, and toggle on/off the displayed screen corresponding to the adopted application ***(i.e., interpreted as toggle between selection of the NORMAL and EASY OPERATION modes)*** in accordance with user selection when the user selects at least one of the application items ***(the clear key 16 could be used to cause the handset to toggle between displaying the legends of the EASY OPERATION mode and the NORMAL mode on the LCD with the corresponding changes in the functionality of the soft keys 14 and 15, Col. 7; lines 39-49)***",

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination by specifically providing display application items of one of the more one or more application the LCD display module, when a user operates a predetermined key button while the mobile communication terminal is in the idle mode, and toggle on/off the displayed idle screen corresponding to

the designated application in accordance with user selection when the user selects at least one of the application items, as taught by Overy for the purpose of enhancing the functionality of the mobile communication terminal.

Claims 11-15 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wen, in view of Yamaguchi, in view of Wardimon and further in view of Tojo et al. (US 20040250217), hereinafter referenced as Tojo.

Regarding claim 11, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 8), however, the combination fails to disclose, "automatically manage frequently used contact addresses of a user during an interval and display a list of the contact addresses on the display module in response to key input from the user."

In a similar field of endeavor Tojo discloses, "automatically manage frequently used contact addresses of a user during an interval ***(The contents of the schedule table are stored in the registration part 6a of the memory 6, and are automatically updated in response to updating operation. The sequence of these operations are executed as a result of the predetermined respective parts being operated under the control of the control part, Para. 38-45)*** and display a list of the contact address on the display module in response to key input from the user ***(see Fig. 18)***".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination by specifically providing automatically manage frequently used contact addresses of a user during an interval and display a list of the contact addresses on the display module in response to key input from the user,

as taught by Tojo for the purpose of providing a system with which each function can be efficiently selected from a function menu displayed on an operation screen.

Regarding claim 12, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 8), however the combination fails to disclose, "extract contact address and shortcuts being assigned to the contact addresses by a user and display a list of the contact addresses on the display module in response to key input from the user".

In a similar field of endeavor Tojo discloses, "extract contact address and shortcuts being assigned to the contact addresses by a user and display a list of the contact addresses on the display module in response to key input from the user ***(see Fig. 18)***".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination by specifically providing extract contact address and shortcuts being assigned to the contact addresses by a user and display a list of the contact addresses on the display module in response to key input from the user, as taught by Tojo for the purpose of providing a system with which each function can be efficiently selected from a function menu displayed on an operation screen.

Regarding claim 13, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 8), however the combination fails to disclose, "a list of application used by a user for a period of time from present time and display the list on the display module in response to key input from the user".

In a similar field of endeavor Tojo discloses, “a list of application used by a user for a period of time from present time and display the list on the display module in response to key input from the user ***(Para. 38-42)***”.

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination by specifically providing a list of application used by a user for a period of time from present time and display the list on the display module in response to key input from the user, as taught by Tojo for the purpose of providing a system with which each function can be efficiently selected from a function menu displayed on an operation screen.

Regarding claim 14, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 8), however the combination fails to disclose, “assign an icon to at least one application, when the application is designated as a shortcut, display a shortcut icon screen on the display module when a user selects the shortcut icon screen in an idle screen setup mode, activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input”.

In a similar field of endeavor Tojo discloses, “assign an icon to at least one application, when the application is designated as a shortcut, display a shortcut icon screen on the display module when a user selects the shortcut icon screen in an idle screen setup mode, activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input ***(Para. 38-42)***”.

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination by specifically providing assign an icon to at least one application, when the application is designated as a shortcut, display a shortcut icon screen on the display module when a user selects the shortcut icon screen in an idle screen setup mode, activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input, as taught by Tojo for the purpose of providing a system with which each function can be efficiently selected from a function menu displayed on an operation screen.

Regarding claim 15, the combination of Wen, Yamaguchi, Wardiman and Tojo discloses everything claimed as applied above (see claim 14), further Tojo discloses, "the predetermined icon is designated by the user ***(Fig. 4 and Para. 38-40)***".

Regarding claim 19, the combination of Wen, Yamaguchi and Wardimon discloses everything claimed as applied above (see claim 16), however, the combination fails to disclose, "the first key is a downward movement key button positioned on them mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal."

In a similar field of endeavor Tojo discloses, "the first key is a downward movement key button positioned on them mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal ***(see Fig. 18).***"

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination by specifically providing the first key is a

downward movement key button positioned on them mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal, as taught by Tojo for the purpose of providing a system with which each function can be efficiently selected from a function menu displayed on an operation screen.

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 GOLAM SOROWAR whose telephone number is (571)270-3761. The examiner can normally be reached on MON-FRI: 7:00 am-5:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EDWARD F. URBAN can be reached on (571) 272-7899. 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.

/GOLAM SOROWAR/
Examiner, Art Unit 2618

/LANA N. LE/
Primary Examiner, Art Unit 2614

Notice of References Cited	Application/Control No. 11/911,277	Applicant(s)/Patent Under Reexamination PARK ET AL.	
	Examiner GOLAM SOROWAR	Art Unit 2618	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2003/0038825 A1	02-2003	Wen et al.	345/700
*	B	US-2006/0030370 A1	02-2006	Wardimon, Yavor Eliad	455/566
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	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.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	Art Unit
	GOLAM SOROWAR	2618

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

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

CLAIM		DATE								
Final	Original	04/03/2012	08/16/2012							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							
	11	✓	✓							
	12	✓	✓							
	13	✓	✓							
	14	✓	✓							
	15	✓	✓							
	16	✓	✓							
	17	✓	✓							
	18	✓	✓							
	19	✓	✓							
	20	✓	✓							

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	Art Unit
	GOLAM SOROWAR	2618

SEARCHED

Class	Subclass	Date	Examiner
455	418, 550.1, 455, 416	8/16/2012	GS
715	700, 810, 243, 817	8/16/2012	GS
345	55	8/16/2012	GS

SEARCH NOTES

Search Notes	Date	Examiner
EAST	8/16/2012	GS
Google Patent	8/16/2012	GS
IDS	8/16/2012	GS
STIC	8/16/2012	GS
PALM inventor search	8/16/2012	GS
NPL	8/16/2012	GS
PLUS search	8/16/2012	GS
IEEE	8/16/2012	GS

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

/GOLAM SOROWAR/ Examiner.Art Unit 2618	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S91	2238262	display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/14 12:22
S92	3681	(designa$6 or assig$6) with number with (screen) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/15 16:51
S93	28	(designa$6 or assig$6) with number with different near3 (screen) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/15 16:51
S94	13	assin$4 near3 number and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2012/08/16 08:37
S95	69342	assig$4 near3 number and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2012/08/16 08:38
S96	13	assig$4 near3 number with (different) near3 application and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2012/08/16 08:38
S97	823	(navigat$4 or switc$4) with ((different or pura$4) near3 screen or multi$screen) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2012/08/16 09:25
S98	3026	(navigat$4 or switc$4) with ((different or pura$4) near3 (screen or application) or multi$screen or multi4application) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2012/08/16 09:26
S99	220	(navigat$4 or switc$4) with ((different or pura$4) near3 (screen or application) or multi$screen or multi4application) with (number) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2012/08/16 10:25
S100	54	gui and (navigat$4 or switc$4) with ((different or pura$4) near3 (screen or application) or multi$screen or multi4application) with (number) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2012/08/16 10:26
S101	47854	Gui and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:04
S102	34	Gui and (circular$manner or circular near3 manner or spin$home or spin near3 home)and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:05
S103	9550	(circular$manner or circular near3 manner or spin$home or spin near3 home)and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:07

S104	266987	(circular$manner or circular near3 manner or spin)and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:07
S105	836	(selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin)and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:07
S106	836	(selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:08
S107	9	gui and (selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:08
S108	7	"345"/$.ccls. and (selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:09
S109	0	(selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) with navigation and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:11
S110	9	(selec$4) with (screen or application) with (circular$manner or circular near3 manner or spin) with key and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/08/16 11:11
S111	1	("20060030370").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2012/08/16 11:39

8/16/2012 2:40:48 PM
C:\Users\gsorowar\Documents\EAST\Workspaces\11911277.wsp

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

22429 7590 08/01/2012

LOWE HAUPTMAN HAM & BERNER, LLP
1700 DIAGONAL ROAD
SUITE 300
ALEXANDRIA, VA 22314

EXAMINER	
SOROWAR, GOLAM	
ART UNIT	**PAPER NUMBER**
2618	

MAIL DATE	DELIVERY MODE
08/01/2012	PAPER

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.

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	11/911,277	PARK ET AL.	
	Examiner	Art Unit	
	GOLAM SOROWAR	2618	

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

(1) *GOLAM SOROWAR*. (3)_____.

(2) *YOON HAM*. (4)_____.

Date of Interview: *07/25/2012*.

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: *1,8 and 16*.

Identification of prior art discussed: *US 20040250217*.

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...)

Proposed amendments have been discussed.It appears that proposed amendments would overcome the cited references on the record. However, Examiner will reserve the judgement until the formal admendment is reviewed and the search is updated as appropriate .

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

/LANA N. LE/ Primary Examiner, Art Unit 2614	

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.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	:	11/911,277	
Applicant	:	Youngmin PARK et al.	Confirmation No.: 5567
371(c) Date	:	October 11, 2007	
Tech Cntr/AU	:	2618	
Examiner	:	Sorowar, Golam	
Entitled	:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	
Attorney Reference	:	126587-0008	
Customer Number	:	22429	

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

AMENDMENT

Dear Sir:

In response to the Office Action (OA) dated April 27, 2012, please amend the above-identified application and enter the following remarks, as follows:

- **Amendments to the Claims** as reflected in the listing of claims; and
- **Remarks**.

AMENDMENTS TO THE CLAIMS

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

Listing of Claims:

1. (**Currently Amended**) A method of providing an application selection function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and a display module, the method comprising the steps of:

(a) designating one or more sequence numbers to corresponding one or more ~~at least one~~ applications ~~in an application selection program list~~ in response to a user input~~, the at least one application being executable by the mobile communication terminal~~;

(b) running an application selection program stored in the program memory when a user operates a first key button for driving the application selection program, and displaying a first application ~~listed in the application selection program list~~ of the one or more applications on the display module;

(c) displaying a next application ~~listed in the application selection program list~~ of the one or more applications according to an order of the designated one or more sequence numbers, in a circular manner, on the display module every time the user operates a second key button; and

(d) adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in an idle mode.

2. (**Currently Amended**) The method as claimed in claim 1, wherein~~, in step (a),~~ the designation of the one or more sequence numbers ~~at least one application is designated as in the application selection program list~~ is performed in accordance with user selection of a spin-home addition/deletion item of a menu item of the ~~at least one application~~ corresponding one or more applications.

3. (Previously Presented) The method as claimed in claim 1, wherein step (a) includes the steps of:

(a1) driving a screen setup program stored in the program memory when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module; and

(a2) toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of application items displayed on the display module.

4. (**Currently Amended**) The method as claimed in claim 1, wherein the first key button for driving the application selection program and the second key button for circulating the ~~idle screen~~ next application are dedicated spin-home key buttons separately positioned on the mobile communication terminal.

5. (Previously Presented) The method as claimed in claim 1, wherein the first key button for driving the application selection program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button.

6. (**Currently Amended**) The method as claimed in claim 1, wherein the application ~~designated~~ adopted as the idle screen is selected from schedule management, address book, recently used applications, game, text message, image, moving picture, or shortcut icon screen.

7. (Previously Presented) The method as claimed in claim 6, wherein the address book designated as the idle screen and displayed on the display module is a book selected from a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, or a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor.

8. (**Currently Amended**) An apparatus of providing an application selection function for a mobile communication terminal, the apparatus comprising:

a microprocessor configured to execute an application selection program;

a data storage module coupled to the microprocessor and configured to act as a data buffer when the application selection program is executed;

a key input module configured to input characters and numbers, the key input module having a first key arranged for causing the execution of the application selection program;

a display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode; and

a program memory encoded to store the application selection program, the ~~spin-home~~ application selection program being configured to cause the microprocessor to perform a method comprising:

if the first key being operated, initiating the application selection program and displaying a first application of one or more applications ~~at least one application listed in an application selection program list~~ on the display module, the one or more applications each having a corresponding one of one or more sequence numbers designated ~~application selection program list being generated~~ in response to a user input;

if a second key ~~for circulating the idle screen~~ being operated, ~~selecting~~ displaying a next application of the one or more applications on the display module as a currently displayed application according to an order of the designated one or more sequence numbers in a circular manner~~designated in the application selection program list, next to an originally displayed application that is displayed on the display module, as a currently displayed application by executing the application selection program and displaying the next application on the LCD display module~~; and

adopting the currently displayed application as the idle screen if a confirmation key being operated.

9. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the key input module has a dedicated spin-home key button ~~for driving the application selection program and circulating the idle screen~~ configured as the first key.

10. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a screen setup program, the screen setup program is configured to cause the microprocessor to:

display application items ~~designated in the application selection program list~~ of one of the one or more applications adopted as the idle screen on the LCD display module when a user operates a predetermined key button while the mobile communication terminal is in the idle mode, and

toggle on/off the displayed idle screen corresponding to the ~~designated~~ adopted application in accordance with user selection when the user selects at least one of the application items.

11. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a contact management program, the contact management program is configured to cause the microprocessor to:

automatically manage frequently used contact addresses of a user during an interval; and

display a list of the contact addresses on the display module in response to key input from the user.

12. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store an extracting program, the extracting program is configured to cause the microprocessor to:

extract contact addresses and shortcuts being assigned to the contact addresses by a user, and

display a list of the contact addresses on the display module in response to key input from the user.

13. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store an obtaining program, the obtaining program is configured to cause the microprocessor to obtain a list of application used by a user for a period of time from present time and displaying the list on the display module in response to key input from the user.

14. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a shortcut program, the shortcut program is configured to cause the microprocessor to:

assign an icon to at least one application, when the at least one application is ~~designated as~~ associated with a shortcut,

display a shortcut icon screen on the display module when a user selects the shortcut icon screen in an idle screen setup mode, and

activate [[an]]the at least one application corresponding to ~~a predetermined~~ the icon when the user selects the ~~predetermined~~ icon via key input.

15. (**Currently Amended**) The apparatus as claimed in claim 14, wherein the ~~predetermined~~ icon is designated by the user.

16. (**Currently Amended**) A method of changing an idle screen for a mobile terminal having a first key, a second key, and a confirmation key, the method comprising:

designating one or more sequence numbers to ~~generating an application selection program list listing~~ corresponding one or more applications in response to a user input;

if the first key being operated, initiating an application selection program stored in a program memory of the mobile terminal and displaying one of the one or more applications ~~listed on the application selection program list~~ having a smallest sequence number among the one or more applications on a display module of the mobile terminal, thereby the one of the one or more applications becoming a currently displayed application;

if the second key being operated, executing the application selection program and displaying a next application on the display module, the next application being next to the currently displayed application ~~on the application selection program list~~ according to an order of the designated one or more sequence numbers in a circular manner, thereby the next application becoming the currently displayed application; and

if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode.

17. (**Currently Amended**) The method of claim 16, further comprising:

adding another sequence number to another [[an]] application ~~to the application selection program list~~ or removing the corresponding sequence number of one of the one or more applications ~~the application from the application selection program list~~ by operating a spin-home addition/deletion menu item.

18. (Previously Presented) The method of claim 16, wherein the first key and the second key are dedicated key buttons separately positioned on the mobile terminal.

19. (Previously Presented) The method of claim 16, wherein the first key is a downward movement key button positioned on the mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal.

20. (**Currently Amended**) The method of claim 16, wherein the one or more applications comprises ~~application selection program list lists~~ one or more of the following applications: schedule management, address book, list of recently used applications, game, text message, image, moving picture, or shortcut icon screen.

REMARKS

Reconsideration and allowance of the subject application are respectfully requested.

Applicants thank Examiner Sorowar for the courtesies extended to Applicants' representatives during the July 25, 2012, telephone interview. The indication that the amended independent claims 1, 8, and 16 as presented in this Amendment overcome existing rejections is noted with appreciation.

By this Amendment, claims 1, 2, 4, 6, 8-10, 12-17, and 20 are amended. Claims 1-20 are pending in this application. Support for the amended claims is believed found in the original specification, drawings, and claims, such as page 15, line 10, through page 16, line 14, and page 18, line 9, through page 19, line 11, of the as-filed specification.

Rejections under § 112

Claims 4 and 8-15 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite. Claims 4, 8, and 9 are amended to obviate this rejection and are believed to be sufficiently definite. Withdrawal of the rejection under § 112 is respectfully requested.

Rejections under § 103

Claims 1, 4-9, 11-16, and 18-20 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Tojo* (US 2004/0250217) in view of *Wardimon* (US 2006/0030370). This rejection is believed overcome for at least the reasons discussed below.

Whether or not the claimed subject matter would have been obvious at the time of invention to one of ordinary skill in the art is a question of law based on underlying facts. *Winner Int'l Royalty Corp. v. Wang*, 202 F.3d 1340, 1348, 53 USPQ2d 1580, 1586 (Fed. Cir. 2000). The relevant factual inquiries include the following factors:

> (1) the scope and content of the prior art; (2) the differences between the claimed invention and the prior art; (3) the level of ordinary skill in the art; and (4) any relevant secondary considerations.... *Graham v. John Deere Co. of Kansas City*, 383 U.S. 1, 17-18 (1966).

Here, many of these factual questions and the ultimate legal conclusion are in dispute.

Amended independent claim 1 recites, among other things, "designating one or more sequence numbers to corresponding one or more applications in response to a user input." *Tojo* and *Wardimon* fail to disclose at least these features.

Tojo describes a device in that the menu items are displayed as a circular menu, and one of the menu items is selected according to a menu item selecting method. In the embodiments described in *Tojo*, the menu items included in the circular menu appear to be predetermined before the user operations. However, *Tojo* appears to be silent regarding how the menu items are designated by the user. Therefore, *Tojo* cannot reasonably be interpreted to disclose or suggest at least the above-identified feature of amended independent claim 1.

Wardimon is not applied by the PTO in a manner sufficient to remedy the deficiencies of *Tojo*, and thus *Tojo* and *Wardimon* as applied in the Office Action fail to render independent claim 1 obvious.

Amended independent claim 8 recites, among other things, "if the first key being operated, initiating the application selection program and displaying a first application of one or more applications on the display module, the one or more applications each having a corresponding one of one or more sequence numbers designated in response to a user input." Amended independent claim 16 recites, among other things, "designating one or more sequence numbers to corresponding one or more applications in response to a user input." For at least the reasons similar to those advanced above for independent claim 1, *Tojo* and *Wardimon* as applied in the Office Action fail to render independent claims 8 and 16 obvious.

Claims 4-7, 9, 11-15, and 18-20 depend *inter alia* from independent claims 1, 8, or 16, include further patentable features, and are patentable over *Tojo* and *Wardimon* as applied in the Office Action at least for these features and/or the reasons advanced above with respect to claims 1, 8, and 16.

In view of the above, withdrawal of the rejection of claims 1, 4-9, 11-16, and 18-20 is respectfully requested.

Claims 2, 3, 10, and 17 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Tojo* and *Wardimon* in view of one of *Yamaguchi* (US 7,350,158) and *Overy* (US 6,363,264). The deficiencies of *Tojo* and *Wardimon* were advanced above. *Yamaguchi* and *Overy* were not applied in the Office Action in a manner sufficient to remedy the deficiencies of *Tojo* and *Wardimon*. Therefore, *Tojo* and *Wardimon* in view of one of *Yamaguchi* and *Overy* as applied in the Office Action fail to render independent claims 1, 8, and 16, from which claims 2, 3, 10, and 17 variously depend, obvious.

Claims 2, 3, 10, and 17 depend *inter alia* from independent claims 1, 8, or 16, include further patentable features, and are patentable over *Tojo* and *Wardimon* in view of one of *Yamaguchi* and *Overy* as applied in the Office Action at least for these features and/or the reasons advanced above with respect to claims 1, 8, and 16. Withdrawal of the rejections of claims 2, 3, 10, and 17 is respectfully requested.

Conclusion

It is respectfully submitted that the present application is in condition for allowance, and a Notice to that effect is earnestly solicited. Early issuance of a Notice of Allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicants' attorney of record, to facilitate advancement of the present application.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

LOWE HAUPTMAN HAM & BERNER, LLP

/Yoon S. Ham/
Yoon S. Ham
Registration No. 45,307

Customer Number: 22429
1700 Diagonal Road, Suite 300
Alexandria, Virginia 22314
(703) 684-1111
(703) 518-5499 Facsimile
Date: **July 26, 2012**
YSH/TC/jr

Electronic Acknowledgement Receipt

EFS ID:	13351733
Application Number:	11911277
International Application Number:	
Confirmation Number:	5567
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Customer Number:	22429
Filer:	Yoon Ham/james rhee
Filer Authorized By:	Yoon Ham
Attorney Docket Number:	126587-0008
Receipt Date:	26-JUL-2012
Filing Date:	11-OCT-2007
Time Stamp:	17:23:11
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		120726_0008_amendment.pdf	69883 655d2815f368992715a802e96b07fa5f34a30c98	yes	11

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	7
	Applicant Arguments/Remarks Made in an Amendment	8	11
Warnings:			
Information:			
	Total Files Size (in bytes):	69883	

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.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/911,277	10/11/2007	

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)	SMALL ENTITY ☐ RATE ($)	SMALL ENTITY ☐ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
FOR	NUMBER FILED	NUMBER EXTRA					
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	07/26/2012	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $ =		OR	X $60=	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $ =		OR	X $250=	0
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0

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

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

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

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

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

Legal Instrument Examiner:
/PAUL STANBACK/

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.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

22429 7590 04/27/2012

LOWE HAUPTMAN HAM & BERNER, LLP
1700 DIAGONAL ROAD
SUITE 300
ALEXANDRIA, VA 22314

EXAMINER	
SOROWAR, GOLAM	
ART UNIT	PAPER NUMBER
2618	

MAIL DATE	DELIVERY MODE
04/27/2012	PAPER

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.

Office Action Summary	Application No.	Applicant(s)	
	11/911,277	PARK ET AL.	
	Examiner	Art Unit	
	GOLAM SOROWAR	2618	

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *27 May 2011*.

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

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

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

Disposition of Claims

5)☒ Claim(s) *1-20* is/are pending in the application.

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

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

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

Application Papers

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

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

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

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

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

Priority under 35 U.S.C. § 119

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

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-20 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

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

Claims 4 and 8-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4; line 3 recites, "the second key button for circulating the idle screen..... ", it is unclear, how a screen would be able to circulate, if it is in idle mode. Because, idle means not active or not moving. If screen is circulated, it is not considered as an idle mode.

Claim 8 is recites the limitation "the spin home program…." in line 13. There is insufficient antecedent basis for this limitation in the claim.

Claim 8 is recites the limitation "the LCD display…." in line 23. There is insufficient antecedent basis for this limitation in the claim.

Claim 9 is obvious variation of claim 4; therefore, claim 9 is interpreted and rejected for the reason set forth above.

Claim Rejections - 35 USC § 103

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

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

Claims 1, 4-9, 11-16 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tojo et al. (US 20040250217), and further in view of Wardimon (US 20060030370), hereinafter referenced as Tojo and Wardimon, respectively.

Regarding claim 1, Tojo discloses, a method of providing an application selection function for a mobile communication terminal ***(see Fig. 5 and 6)*** having a key input module ***(Fig. 3; 5)***, a program memory ***(see Fig. 3; 6)***, a data storage module ***(see Fig. 3; 6)***, and a display module ***(see Fig. 3; 21)***, the method comprising the steps of:

"designating at least one application in an application selecting program list in response to a user input, the at least one application being executable by the mobile communication terminal ***(in a case where the operator wishes to use a function corresponding to the item D, in a state in which the item A is located at the very front position as shown in FIG. 4, (a) where the item A is in the active condition, the user operates the cross-shaped key in an up direction, Fig. 4 and Para. 39-42)***";

"running an application selection program stored in the program memory when a user operates a first key button for driving the application selection program, and displaying a first application listed in the application selection program list on the display

module ***(the user can freely refer to a received mail (the contents of which are stored in the registration part 6a of the above-mentioned memory 6, and the contents are made to be displayed on the main LCD 21) by operating respective keys on the main operation part 25, Fig. 4 and Para. 39-42)***";

"displaying a next application listed in the application selection program list, in a circular matter on the display module every time the user operates a second key button ***(see Para. 39-42).***"

However, Tojo fails to disclose, "adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in idle mode."

In a similar field of endeavor, Wardimon discloses, "adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in idle mode ***(see Fig. 2; S220-S240 and Para. 32-36)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify Tojo by specifically providing adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in idle mode, as taught by Wardimon for the purpose of customizing the idle screen for a mobile device.

Regarding claim 4, Tojo and Wardimon disclose everything claimed as applied above (see claim 1), further Tojo discloses, "the first key button for driving the application selection program and the second key button for circulating the idle screen are dedicated spin-home key buttons separately positioned on the mobile communication terminal (***Fig. 6-11 and Para. 47-53).***"

Regarding claim 5, Tojo and Wardimon disclose everything claimed as applied above (see claim 1), further Tojo discloses, "the first key button for driving the application selection program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button ***(see Fig. 18)***".

Regarding claim 6, Tojo and Wardimon disclose everything claimed as applied above (see claim 1), in addition Wardimon discloses, **"**the application designated as the idle screen is selected from schedule management, address book, recently used applications, game, text message, image, moving picture, and shortcut icon screen ***(see Fig. 2; S220-S240 and Para. 32-36)***".

Regarding claim 7, Tojo and Wardimon discloses everything claimed as applied above (see claim 6), in addition Wardimon discloses, "the address book designated as the idle screen and displayed on the display module is a book selected from a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, or a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses

being automatically managed by the microprocessor ***(see Fig. 2; S220-S240 and Para. 32-36)***".

Regarding claim 8, Tojo discloses, an apparatus of providing an application selection function ***(see Fig. 4 and Fig. 5)*** for a mobile communication terminal, the apparatus comprising:

"a microprocessor ***(Fig. 3; 4)*** configured to execute an application selection program ***(Para. 37)***";

"a data storage module ***(Fig. 3; 6)*** coupled to the microprocessor and configured to act as a data buffer when the application selection program is executed ***(The contents of a thus-created mail to transmit are also stored in the registration part 6a of the memory 6, and, then, by operating the main operation part 25, it is possible to transmit the thus-stored contents for a relevant destination address registered in the registration part 6a and a history part 6b storing a history of operation, Para. 40-42)***";

"a key input module configured to input characters and numbers ***(a menu item is selected or operated is not limited to the cross-shaped key and, any operating means (for example, ten keys or such, Para. 67)***, the key input module having a first key arranged for causing the execution of the application selection program ***(see Fig. 6 and Para. 47-53***)";

"a program memory encoded to store the application selection program ***(see Para. 37-39)***, the spin home program being configured to cause the microprocessor to perform a method comprising:

"if the first key being operated ***(control part 4 determines if the `fix key` on the main operation part 25 has been operated, Fig. 6-11 and Para. 47-53)***, initiating the application selection program and displaying at least one application listed in an application selection program list on the display module ***(When it has been pressed as a result, the function corresponding to the item currently located at the front end such as coordinate P1 is executed, Fig. 6-11 and Para. 47-53 and As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14),*** the application selection program list being generated in response to a user input ***(see Fig. 18)***";

"if a second key ***(i.e., interpreted as left/right key)*** for circulating the idle screen being operated, selecting a next application designated in the application selection program list, next to an originally displayed application that is displayed on the LCD display module ***(When left/right key has been pressed as a result, the function corresponding to the item next to currently located at the front end such as B-function is executed, Fig. 6-11 and Para. 47-53)***, as currently displayed application by executing the application selection program and display the next application on the LCD display module ***(As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***".

However, Tojo fails to disclose, "a display module couple to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication is in idle mode and adopting the currently displayed application as the idle screen if a confirmation key being operated."

In a similar field of endeavor, Wardimon discloses, "a display module couple to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication is in idle mode and adopting the currently displayed application as the idle screen if a confirmation key being operated ***(see Fig. 2; S220-S240 and Para. 32-36)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify Tojo by specifically providing a display module couple to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication is in idle mode and adopting the currently displayed application as the idle screen if a confirmation key being operated, as taught by Wardimon for the purpose of customizing the idle screen for a mobile device.

Regarding claim 9, Tojo and Wardimon discloses everything claimed as applied above (see claim 8), further Tojo discloses, "key input module has dedication spin-home key for driving the application selection program and circulating the idle screen l (***Fig. 6-11 and Para. 47-53).***"

Regarding claim 11, Tojo and Wardimon disclose everything claimed as applied above (see claim 8), further Tojo discloses, "automatically manage frequently used contact addresses of a user during an interval ***(The contents of the schedule table are stored in the registration part 6a of the memory 6, and are automatically updated in response to updating operation. The sequence of these operations are executed as a result of the predetermined respective parts being operated under***

the control of the control part, Para. 38-45) and display a list of the contact address on the display module in response to key input from the user ***(see Fig. 18)***".

Regarding claim 12, Tojo and Wardimon disclose everything claimed as applied above (see claim 8), further Tojo discloses, "extract contact address and shortcuts being assigned to the contact addresses by a user and display a list of the contact addresses on the display module in response to key input from the user ***(see Fig. 18)***".

Regarding claim 13, Tojo and Wardimon disclose everything claimed as applied above (see claim 8), further Tojo discloses, "a list of application used by a user for a period of time from present time and display the list on the display module in response to key input from the user ***(Para. 38-42)***".

Regarding claim 14, Tojo and Wardimon disclose everything claimed as applied above (see claim 8), further Tojo discloses, "assign an icon to at least one application, when the application is designated as a shortcut, display a shortcut icon screen on the display module when a user selects the shortcut icon screen in an idle screen setup mode, activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input ***(see Fig. 18)***".

Regarding claim 15, Tojo and Wardimon disclose everything claimed as applied above (see claim 14), further Tojo discloses, "the predetermined icon is designated by the user ***(Fig. 4 and Para. 38-40)***".

Regarding claim 16, Tojo discloses**,**

"generating an application selection program list listing one or more application ***(see Fig. 18)*** in response to a user input ***(see Para. 38-40)***";

"if the first key being operated ***(control part 4 determines if the `fix key` on the main operation part 25 has been operated, Fig. 6-11 and Para. 47-53)***, initiating an application selection program stored in a program memory of the mobile terminal ***(When it has been pressed as a result, the function corresponding to the item currently located at the front end such as coordinate P1 is executed, Fig. 6-11 and Para. 47-53)*** and displaying one of the one or more application listed on the application selection program list on a display module of the mobile terminal ***(As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***, thereby the one of the one or more applications becoming a currently displayed application ***(see Fig. 6-14)***";

"if the second key being operated ***(i.e., interpreted as left/right key)***, executing the application selection program and displaying a next application on the display module ***(When left/right key has been pressed as a result, the function corresponding to the item next to currently located at the front end such as B-function is executed, Fig. 6-11 and Para. 47-53)***, the next application being next to the currently displayed application on the application selection list ***(As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***, thereby the next application becoming the currently displayed application ***(see Fig. 12 and 18).***"

However, Tojo fails to disclose, "if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle screen."

In a similar field of endeavor, Wardimon discloses, "if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle screen ***(see Fig. 2; S220-S240 and Para. 32-36)***."

Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify Tojo by specifically providing if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle screen, as taught by Wardimon for the purpose of customizing the idle screen for a mobile device.

Regarding claim 18, Tojo and Wardimon disclose everything claimed as applied above (see claim 16), further Tojo discloses, "the first key and the second key are dedicated key buttons separately positioned on the mobile terminal ***(see Fig. 18).***"

Regarding claim 19, Tojo and Wardimon disclose everything claimed as applied above (see claim 16), further Tojo discloses, "the first key is a downward movement key button positioned on them mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal ***(see Fig. 18).***"

Regarding claim 20, Tojo and Wardimon disclose everything claimed as applied above (see claim 16), further Tojo discloses, "wherein the application selection program list lists one or more of the following applications: schedule management, address book, list of recently used applications, game, test message, image, moving picture, or shortcut icon screen ***(see Fig. 18)***".

Claims 2 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tojo, in view of Wardimon and further in view of Yamaguchi et al (US 7350158), hereinafter referenced as Yamaguchi.

Regarding claim 2, Tojo and Wardimon disclose everything claimed as applied above (see claim 1), however, the combination fails to disclose, "the at least one application is designated as in the application program list in accordance with user selection of a spin-home addition/deletion item of a menu item of the at least one application".

In as similar field of endeavor, Yamaguchi discloses, "the at least one application is designated as in the application program list in accordance with user selection of a spin-home addition/deletion item of a menu item of the at least one application ***(The CPU 20 registers the icon numbers to the display and non-display icon management tables 28 and 29 or deletes them from these tables 28 and 29, and disposes the icon train on the orbit 50 according to the contents of the display and non-display icon management tables 28 and 29, Fig. 5 and Col. 6; lines 49-Col. 7; lines 16***)".

Therefore, it would be obvious to one of the ordinary skill in the art at the time of invention was made to modify the combination by specifically providing the at least one application is designated as in the application program list in accordance with user selection of a spin-home addition/deletion item of a menu item of the at least one application, as taught by Yamaguchi for in order to assure a visibility of all the icons.

Regarding claim 17, Tojo and Wardimon disclose everything claimed as applied above (see claim 16), however, the combination fails to disclose, "adding an application to the application selection program list or removing the application from the spin-home list by operating the application selection program list addition/deletion menu item".

In as similar field of endeavor, Yamaguchi discloses, "adding an application to the application selection program list or removing the application from the spin-home list by operating the application selection program list addition/deletion menu item ***(The CPU 20 registers the icon numbers to the display and non-display icon management tables 28 and 29 or deletes them from these tables 28 and 29, and disposes the icon train on the orbit 50 according to the contents of the display and non-display icon management tables 28 and 29, Fig. 5 and Col. 6; lines 49-Col. 7; lines 16***)".

Therefore, it would be obvious to one of the ordinary skill in the art at the time of invention was made to modify the combination by specifically providing adding an application to the application selection program list or removing the application from the spin-home list by operating the application selection program list addition/deletion menu item, as taught by Yamaguchi for in order to assure a visibility of all the icons.

Claims 3 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tojo, in view of Wardimon and further in view of Overy et al. (US 6363264), hereinafter referenced as Overy.

Regarding claim 3, Tojo and Wardimon disclose everything claimed as applied above (see claim 1), however, the combination fails to disclose, "driving a screen setup

program stored in the program memory, when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module and toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of the application items displayed on the L display module".

In a similar field of endeavor, Overy discloses, "driving a screen setup program stored in the program memory ***(i.e., equivalent to The legend MEMORY is displayed in the region 29, Col. 3; lines 45-Col. 4; lines 12)***, when the user operates a predetermined key button ***(Depression of this key will allow telephone numbers stored in the memory to be recalled by name or number, Col. 3; lines 45-Col. 4; lines 12)***, and displaying the application that is designated as the idle screen on the display module ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-Col. 4; lines 12)*** and toggling on/off the displayed idle screen corresponding to the designated application ***(i.e., interpreted as toggle between selection of the NORMAL and EASY OPERATION modes)*** in accordance with user selection when the user selects at least one of the application items displayed on the display module ***(the clear key 16 could be used to cause the handset to toggle between displaying the legends of the EASY OPERATION mode and the NORMAL mode on the LCD with the corresponding changes in the functionality of the soft keys 14 and 15, Col. 7; lines 39-49)***",

Therefore, it would be obvious to one of ordinary skills in the art at the time of

invention was made to modify the combination by specifically providing driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying the application that is designated as the idle screen on the display module and toggling on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of the application items displayed on the display module, as taught by Overy for the purpose of enhancing the functionality of the mobile communication terminal.

Regarding claim 10, Tojo and Wardimon disclose everything claimed as applied above (see claim 8), however, the combination fails to disclose, "display application items designated in the application selection program list on the LCD display module, when a user operates a predetermined key button while the mobile communication terminal is in the idle mode, and toggle on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of the application items displayed on the L display module".

In a similar field of endeavor, Overy discloses, "display the application that is designated as the idle screen on the display module ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-Col. 4; lines 12)***, when the user operates a predetermined key button ***(Depression of this key will allow telephone numbers stored in the memory to be recalled by name or number, Col. 3; lines 45-Col. 4; lines 12)***, and toggle on/off the displayed idle screen corresponding to the designated application ***(i.e., interpreted as toggle between selection of the***

NORMAL and EASY OPERATION modes) in accordance with user selection when the user selects at least one of the application items displayed on the display module ***(the clear key 16 could be used to cause the handset to toggle between displaying the legends of the EASY OPERATION mode and the NORMAL mode on the LCD with the corresponding changes in the functionality of the soft keys 14 and 15, Col. 7; lines 39-49)***",

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination by specifically providing display application items designated in the application selection program list on the LCD display module, when a user operates a predetermined key button while the mobile communication terminal is in the idle mode, and toggle on/off the displayed idle screen corresponding to the designated application in accordance with user selection when the user selects at least one of the application items displayed on the L display module, as taught by Overy for the purpose of enhancing the functionality of the mobile communication terminal.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GOLAM SOROWAR whose telephone number is (571)270-3761. The examiner can normally be reached on MON-FRI: 7:00 am-5:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EDWARD F. URBAN can be reached on (571) 272-7899. 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.

/GOLAM SOROWAR/
Examiner, Art Unit 2618

/LANA N. LE/
Primary Examiner, Art Unit 2614

Notice of References Cited	Application/Control No. 11/911,277	Applicant(s)/Patent Under Reexamination PARK ET AL.	
	Examiner GOLAM SOROWAR	Art Unit 2618	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2006/0030370 A1	02-2006	Wardimon, Yavor Eliad	455/566
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	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.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	Art Unit
	GOLAM SOROWAR	2618

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

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

CLAIM		DATE								
Final	Original	04/03/2012								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	19	(circulat$4 or rotat$4) with (idle or stand$by or stand by) near3 screen and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/04/03 10:06
L7	1	(spin$home or spin home) with (display or screen) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/04/03 10:10
L8	148202	(circu$6) near3 (menu or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/04/03 10:11
L9	3170	(circu$6) near3 (menu or application) with (screen or display) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/04/03 10:11
L10	645	(phone or mobile or cellular) and (circu$6) near3 (menu or application) with (screen or display) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/04/03 10:12
L11	93	(phone or mobile or cellular) and (circu$6) near3 (menu or application) with (screen or display) and (idle or stand$by or stand by) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/04/03 10:12
L12	1	(phone or mobile or cellular) and (circular or circle) near3 (menu or application) with (screen or display) and (idle or stand$by or stand by) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/04/03 10:13
L13	0	(phone or mobile or cellular) and (circulat3) with (idle or stand$by or stand by) near3 (screen) @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/04/03 10:20
L14	0	(phone or mobile or cellular) and (circulat3) with (idle or stand$by or stand by) near3 (screen) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/04/03 10:21
L15	0	(phone or mobile or cellular) and (circulat3) with (idle or stand$by or stand by) with (menu or icon or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/04/03 10:21
L16	29	(phone or mobile or cellular) and (circulat3 or spi$4 or rotat$4) with (idle or stand$by or stand by) with (menu or icon or application) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2012/04/03 10:22

4/3/2012 12:39:24 PM

C:\ Users\ gsorowar\ Documents\ EAST\ Workspaces\ 11911277.wsp

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	Art Unit
	GOLAM SOROWAR	2618

SEARCHED			
Class	Subclass	Date	Examiner
455	418, 550.1	4/3/2012	GS

SEARCH NOTES		
Search Notes	Date	Examiner
EAST	4/3/2012	GS
Google Patent	4/3/2012	GS
IDS	4/3/2012	GS
STIC	4/3/2012	GS
PALM inventor search	4/3/2012	GS

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

/GOLAM SOROWAR/ Examiner.Art Unit 2618	

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

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

Application Number	11911277	Filing Date	2007-10-11	Docket Number (if applicable)	126587-0008	Art Unit	2618
First Named Inventor	Youngmin PARK et al.			Examiner Name	Golam Sorowar		

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

SUBMISSION REQUIRED UNDER 37 CFR 1.114

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

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

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

☒ Other Amendment filed on May 27, 2011.

☐ 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 071337

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Yoon S. Ham/	Date (YYYY-MM-DD)	2011-06-28
Name	Yoon S. Ham	Registration Number	45307

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.

Electronic Patent Application Fee Transmittal

Application Number:	11911277
Filing Date:	11-Oct-2007
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Filer:	Yoon Ham/james rhee
Attorney Docket Number:	126587-0008

Filed as Large Entity

U.S. National Stage under 35 USC 371 Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Request for continued examination	1801	1	810	810
		Total in USD ($)		**810**

Electronic Acknowledgement Receipt

EFS ID:	10406493
Application Number:	11911277
International Application Number:	
Confirmation Number:	5567
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Customer Number:	22429
Filer:	Yoon Ham/james rhee
Filer Authorized By:	Yoon Ham
Attorney Docket Number:	126587-0008
Receipt Date:	28-JUN-2011
Filing Date:	11-OCT-2007
Time Stamp:	16:27:49
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$810
RAM confirmation Number	3549
Deposit Account	071337
Authorized User	HAM,YOON S

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

Charge any Additional Fees required under 37 C.F.R. 1.492 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

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)	110628_0008_RCE.pdf	798004 3b6e6518663eb24029cbe26310c974e3ffe47135	no	3
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30598 2e1cac28e8e7cf05b6df87877894167fb26bd515	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	828602		

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

22429 7590 06/10/2011

LOWE HAUPTMAN HAM & BERNER, LLP
1700 DIAGONAL ROAD
SUITE 300
ALEXANDRIA, VA 22314

EXAMINER	
SOROWAR, GOLAM	
ART UNIT	PAPER NUMBER
2618	

MAIL DATE	DELIVERY MODE
06/10/2011	PAPER

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.

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 11/911,277	**Applicant(s)** PARK ET AL.	
	Examiner GOLAM SOROWAR	**Art Unit** 2618	

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

THE REPLY FILED 27 May 2011 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:
   a) ☐ The period for reply expires _____months from the mailing date of the final rejection.
   b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

   Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

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

NOTICE OF APPEAL

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

AMENDMENTS

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

   NOTE: *amended feature in claims 1, 8 and 16*. (See 37 CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____.
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☒ For purposes of appeal, the proposed amendment(s): a) ☒ will not be entered, or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
   The status of the claim(s) is (or will be) as follows:
   Claim(s) allowed: _____.
   Claim(s) objected to: _____.
   Claim(s) rejected: *1-20*.
   Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☐ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: _____.
12. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
13. ☐ Other: _____.

/Edward Urban/
Supervisory Patent Examiner, Art Unit 2618

/GOLAM SOROWAR/
Examiner, Art Unit 2618

DO NOT ENTER: /G.S./ (06/06/2011)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	:	11/911,277	EXPEDITED PROCEDURE Response under 37 CFR 1.116
Applicant	:	Youngmin PARK et al.	Confirmation No.: 5567
371(c) Date	:	October 11, 2007	
Tech Cntr/AU	:	2618	
Examiner	:	Sorowar, Golam	
Entitled	:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	
Attorney Reference	:	126587-0008	
Customer Number	:	22429	

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

AMENDMENT

Dear Sir:

In response to the Office Action (OA) dated March 30, 2011, which was made Final, please amend the above-identified application and enter the following remarks, as follows:

- **Amendments to the Claims** as reflected in the listing of claims; and
- **Remarks**.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	:	11/911,277	EXPEDITED PROCEDURE Response under 37 CFR 1.116
Applicant	:	Youngmin PARK et al.	Confirmation No.: 5567
371(c) Date	:	October 11, 2007	
Tech Cntr/AU	:	2618	
Examiner	:	Sorowar, Golam	
Entitled	:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	
Attorney Reference	:	126587-0008	
Customer Number	:	22429	

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

AMENDMENT

Dear Sir:

In response to the Office Action (OA) dated March 30, 2011, which was made Final, please amend the above-identified application and enter the following remarks, as follows:

- **Amendments to the Claims** as reflected in the listing of claims; and
- **Remarks**.

AMENDMENTS TO THE CLAIMS

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

1. (**Currently Amended**) A method [[for]]of providing an application selection ~~a spin-home~~ function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and a ~~an LCD~~ display module ~~so that applications are circulated and displayed on an idle screen~~, the method comprising the steps of:

(a) designating at least one application in an application selection program list ~~as a spin-home~~ in response to a user input, the at least one application being executable by the mobile communication terminal;

(b) running an application selection ~~a spin-home~~ program stored in the program memory[[,]] when a user operates a first key button for driving the application selection ~~spin-home~~ program, and displaying a first application listed in the application selection program list ~~designated as the spin-home~~ on the [[LCD]] display module;

(c) ~~circulating next application designated as the spin-home and~~ displaying a next [[the]] application listed in the application selection program list, in a circular manner, on the [[LCD]] display module every time the user operates a second key button ~~for circulating the idle screen~~; and

(d) adopting an application currently displayed on the [[LCD]] display module as [[the]]an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in an idle mode.

2. (**Currently Amended**) The method as claimed in claim 1, wherein, in step (a), the at least one [[an]] application is designated as in the application selection program list ~~a spin-home~~ in accordance with user selection of a spin-home addition/deletion item of a menu item of the at least one [[each]] application.

3. (**Currently Amended**) The method as claimed in claim 1, wherein step (a) includes the steps of:

(a1) driving a screen setup program stored in the program memory[[,]] when the user operates a predetermined key button, and displaying the application that is ~~items~~ designated as the idle screen ~~spin-home~~ on the [[LCD]] display module; and

(a2) toggling on/off the displayed idle screen corresponding to the designated application ~~spin-home setup of selected applications~~ in accordance with user selection when the user selects at least one of [[the]] application items displayed on the [[LCD]] display module.

4. (**Currently Amended**) The method as claimed in claim 1, wherein the first key button for driving the application selection ~~spin-home~~ program and the second key button for circulating the idle screen are dedicated spin-home key buttons separately positioned on the mobile communication terminal.

5. (**Currently Amended**) The method as claimed in claim 1, wherein the first key button for driving the application selection ~~spin-home~~ program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button.

6. (**Currently Amended**) The method as claimed in claim 1, wherein the application designated as the idle screen ~~spin-home~~ is selected from ~~the group consisting of~~ schedule management, address book, ~~list of~~ recently used applications, game, text message, image, moving picture, [[and]]or shortcut icon screen.

7. (**Currently Amended**) The method as claimed in claim 6, wherein the address book designated as the idle screen ~~spin-home~~ and displayed on the [[LCD]] display module is a book selected from ~~the group consisting of~~ a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, [[and]]or a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor.

8. (**Currently Amended**) An apparatus [[for]]of providing an application selection ~~a spin-home~~ function for a mobile communication terminal, the apparatus comprising:

a microprocessor configured to execute an application selection ~~a spin-home~~ program;

a data storage module coupled to the microprocessor and configured to act as a data buffer when the application selection ~~spin-home~~ program is executed;

a key input module configured to input characters and numbers, the key input module having a first key arranged for causing the execution of the application selection ~~spin-home~~ program;

a ~~an LCD~~ display module coupled to the microprocessor and configured to display an idle screen, the idle screen displayed on the display module when said mobile communication terminal is in an idle mode; and

a program memory encoded to store the application selection ~~spin-home~~ program, the spin home program being configured to cause the microprocessor to perform a method comprising:

if the first key being operated, initiating the application selection ~~spin-home~~ program and displaying at least one application listed in an application selection program ~~designated in a spin-home~~ list on the [[LCD]] display module, the application selection program ~~spin-home~~ list being generated in response to a user input;

if a second key for circulating the idle screen being operated, selecting a next application designated in the application selection program ~~spin-home~~ list, next to an originally displayed application that is displayed on the [[LCD]] display module, as a currently displayed application by executing the application selection ~~spin-home~~ program and displaying the next application on the LCD display module; and

adopting the currently displayed application as the idle screen if a confirmation key being operated.

9. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the key input module has a dedicated spin-home key button for driving the application selection ~~spin-home~~ program and circulating the idle screen.

10. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a screen setup program, the screen setup program is configured to cause the microprocessor to:

display application items designated in the application selection program ~~spin home~~ list on the LCD display module[[,]] when a user operates a predetermined key button while the mobile communication terminal is in [[an]]the idle mode, and

toggle on/off the displayed idle screen corresponding to the designated application ~~spin home setup of selected applications~~ in accordance with user selection when the user selects at least one of the application items.

11. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a contact management program, the contact management program is configured to cause the microprocessor to:

automatically manage frequently used contact addresses of a user during an interval; and

display a list of the contact addresses on the [[LCD]] display module in response to key input from the user.

12. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a extracting program, the extracting program is configured to cause the microprocessor to:

extract contact addresses and shortcuts being assigned to the contact addresses by a user, and

display a list of the contact addresses on the [[LCD]] display module in response to key input from the user.

13. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a obtaining program, the obtaining program is configured to cause the microprocessor to obtain a list of application used by a user for a period of time from present time and displaying the list on the [[LCD]] display module in response to key input from the user.

14. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a shortcut program, the shortcut program is configured to cause the microprocessor to:

assign an icon to at least one application, when the application is designated as a shortcut,

display a shortcut icon screen on the [[LCD]] display module when a user selects the shortcut icon screen in an idle screen setup mode, and

activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input.

15. (Original) The apparatus as claimed in claim 14, wherein the predetermined icon is designated by the user.

16. (**Currently Amended**) A method of changing an idle screen for a mobile terminal having a first key, a second key, and a confirmation key, the method comprising:

generating an application selection program ~~a spin-home~~ list listing one or more applications in response to a user input;

if the first key being operated, initiating an application selection ~~a spin-home~~ program stored in a program memory of the mobile terminal and displaying one of the one or more applications listed on the application selection program ~~spin-home~~ list on a [[LCD]] display module of the mobile terminal, thereby the one of the one or more applications becoming a currently displayed application;

if the second key being operated, executing the application selection ~~spin-home~~ program and displaying a next application on the [[LCD]] display module, the next application being next to the currently displayed application on the application selection program ~~spin-home~~ list, thereby the next application becoming the currently displayed application; and

if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode.

17. (**Currently Amended**) The method of claim 16, further comprising:

adding an application to the application selection program ~~spin-home~~ list or removing the application from the application selection program ~~spin-home~~ list by operating a spin-home addition/deletion menu item.

18. (Previously Presented) The method of claim 16, wherein the first key and the second key are dedicated key buttons separately positioned on the mobile terminal.

19. (Previously Presented) The method of claim 16, wherein the first key is a downward movement key button positioned on the mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal.

20. (**Currently Amended**) The method of claim 16, wherein the application selection program ~~spin home~~ list lists one or more of the following applications: schedule management, address book, list of recently used applications, game, text message, image, moving picture, or shortcut icon screen.

REMARKS

Applicants appreciate the Examiner's careful review of the present application, and respectfully request reconsideration of the present application. It is respectfully submitted that this Amendment should be entered under Rule 116 because it places this application in condition for allowance.

By this Amendment, claims 1-14, 16-17, and 20 are amended. Support for the amended claims is believed found in the original specification, drawings, and claims, such as page 18, line 9 through page 20, line 1, of the as-filed specification and Figs. 4a-4f and 5a-5b. Accordingly, claims 1-20 are pending in this application.

Rejections under § 102

Claims 1, 4-7, 16, and 18-20 are rejected under 35 U.S.C. § 102(b) as being anticipated by *Tojo* (US 2004/0250217). This rejection is respectfully traversed for at least the reasons discussed below.

As relevant here, a "claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference." See MPEP § 2131, quoting *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628 (Fed. Cir. 1987). "The identical invention must be shown in as complete detail as is contained in the . . . claim." See MPEP § 2131, quoting *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226 (Fed. Cir. 1989). "The elements must be arranged as required by the claim . . . ." See MPEP § 2131, citing *In re Bond*, 910 F.2d 831 (Fed. Cir. 1990).

Independent claim 1, as amended, recites a method of providing an application selection function for a mobile communication terminal, and the method comprises, among other things, "designating at least one application in an application selection program list in response to a user input, the at least one application being executable by the mobile communication terminal" and "adopting an application currently displayed on the display module as an idle screen when the user operates a confirmation key button, the idle screen being displayed on the display module when said mobile communication terminal is in an idle mode." *Tojo* fails to disclose at least these features.

Tojo describes a device in that the menu items are displayed as a circular menu, and one of the menu items is selected according to a menu item selecting method. In the embodiments described in *Tojo*, the menu items included in the circular menu appear to be predetermined before the user operations. *Tojo* appears to be silent regarding how the menu items are designated by the user. Therefore, *Tojo* does not teach the recited "designating at least one application in an application selection program list in response to a user input, the at least one application being executable by the mobile communication terminal," as recited in claim 1.

In addition, the PTO asserts that the as-filed specification states that the idle screen is a staring point for using various applications provided by the mobile communication terminal. See page 15 of the Office Action. Based on this statement provided in the as-filed specification of the present application, the PTO appears to equate any staring point for using an application with an idle screen. See page 16 of the Office Action. Applicants respectfully disagree with this assertion.

The statement that the idle screen is a starting point for using various applications merely describes one of many characteristics of the idle screen. This statement does not constitute a technical definition of the term "idle screen" and does not contradict with the common knowledge that the idle screen refers to a screen displayed on the display module when the mobile communication terminal is in an idle mode. In fact, for example, it cannot be reasonable to conclude that any device for communication is a mobile phone from the statement that a mobile phone is a device for communication. As such, it is improper to simply equate starting point for using applications with an idle screen.

Even if assuming that the state depicted in Fig. 4(a) of *Tojo* can be broadly interpreted to correspond to the recited idle screen, *Tojo* appears to be silent regarding setting the item to be displayed at the front position by the user. *Tojo* at best suggests executing the circular menu and then selecting the menu items by rotating them. The display with Item D in the front position is not an idle screen set by the user but an initial scene displayed on the display module when the circular menu program is executed. When the menu item A is rotated and located at the very front position in *Tojo*, the menu item A is in an active condition, and other menu items are also ready to be rotated to the front position and replace menu item A in response to an operation of a direction key. See FIG. 4 and paragraphs 0039-0040 of *Tojo*. Then the function corresponding

to the item A is started when the user operates a fix key. *Id.* As such, after pressing the fix key in *Tojo*, the function corresponding to item A has been started, and whatever shown on the display module is no longer a starting point for using various applications (i.e., the point where a user can decide whether to start the function corresponding to item A).

For at least the reasons discussed above, *Tojo* does not describe an embodiment falling within the scope of independent claim 1, and *Tojo* thus does not anticipate independent claim 1 or its dependent claims 4-7.

Independent claim 16, as amended, recites, among other things, "generating an application selection program list listing one or more applications in response to a user input" and "if the confirmation key being operated, adopting the currently displayed application as the idle screen, the idle screen being displayed on the display module when the mobile terminal is in an idle mode." For at least the reasons similar to the reasons presented above for claim 1, *Tojo* thus does not anticipate independent claim 16 or its dependent claims 18-20.

Withdrawal of the rejection of claims 1, 4-7, 16, and 18-20 is respectfully requested.

Rejections under § 103

Claims 2, 3, 8-15, and 17 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Tojo* in view of one of *Yamaguchi* (US 7,350,158) and *Overy* (US 6,363,264). This rejection is respectfully traversed for at least the reasons discussed below.

The deficiencies of *Tojo* were noted above. These deficiencies were not addressed by the PTO's reliance on *Yamaguchi* or *Overy* because *Yamaguchi* and *Overy* were relied upon to describe other features more akin to those recited in claims 2, 3, and 17. Therefore, *Yamaguchi* and *Overy* fail to at least cure the deficiencies of *Tojo*, and thus *Tojo* in view of either one of *Yamaguchi* and *Overy* as applied in the Office Action do not render independent claims 1 or 16 or their respective dependent claims 2, 3, and 17 obvious.

Independent claim 8, as amended, recites, among other things, "a program memory encoded to store the application selection program, the spin home program being configured to cause the microprocessor to perform a method comprising: if the first key being operated,

initiating the application selection program and displaying at least one application listed in an application selection program list on the display module, the application selection program list being generated in response to a user input . . . and adopting the currently displayed application as the idle screen if a confirmation key being operated." For at least the reasons similar to the reasons presented above for independent claim 1, independent claim 8, as well as its dependent claims 9-15, are patentable over *Tojo*, *Yamaguchi*, and *Overy* as applied in the Office Action.

Withdrawal of the rejections of claims 2, 3, 8-15, and 17 is respectfully requested.

Conclusion

All objections and rejections having been addressed, it is respectfully submitted that the present application should be in condition for allowance and a Notice to that effect is earnestly solicited. Early issuance of a Notice of Allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicants' attorney of record, to facilitate advancement of the present application.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

LOWE HAUPTMAN HAM & BERNER, LLP

/Yoon S Ham/
Yoon S. Ham
Registration No. 45,307

Customer Number: 22429
1700 Diagonal Road, Suite 300
Alexandria, Virginia 22314
(703) 684-1111
(703) 518-5499 Facsimile
Date: May 27, 2011
YSH/TC/jr

Electronic Acknowledgement Receipt

EFS ID:	10187367
Application Number:	11911277
International Application Number:	
Confirmation Number:	5567
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Customer Number:	22429
Filer:	Yoon Ham/james rhee
Filer Authorized By:	Yoon Ham
Attorney Docket Number:	126587-0008
Receipt Date:	27-MAY-2011
Filing Date:	11-OCT-2007
Time Stamp:	16:24:44
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		110527_0008_amendment.pdf	74772 000447b28d5952eb787c979301e2af06e3a86e04	yes	12

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment After Final	1	1
	Claims	2	7
	Applicant Arguments/Remarks Made in an Amendment	8	12
Warnings:			
Information:			
	Total Files Size (in bytes):	74772	

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.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 11/911,277	Filing Date 10/11/2007	☐ To be Mailed

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)	SMALL ENTITY ☐		OR	OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	05/27/2011	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $ =		OR	X $52=	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $ =		OR	X $220=	0
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0

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

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

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

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

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

Legal Instrument Examiner:
/KAREN VESTAL/

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.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

22429 7590 03/30/2011

LOWE HAUPTMAN HAM & BERNER, LLP
1700 DIAGONAL ROAD
SUITE 300
ALEXANDRIA, VA 22314

EXAMINER	
SOROWAR, GOLAM	
ART UNIT	**PAPER NUMBER**
2618	
MAIL DATE	**DELIVERY MODE**
03/30/2011	PAPER

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.

Office Action Summary	Application No.	Applicant(s)	
	11/911,277	PARK ET AL.	
	Examiner	Art Unit	
	GOLAM SOROWAR	2618	

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *15 March 2011*.

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

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

Disposition of Claims

4)☒ Claim(s) *1-20* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-20* is/are rejected.

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

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

Application Papers

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

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

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

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

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

Priority under 35 U.S.C. § 119

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

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

DETAILED ACTION

Claim Rejections - 35 USC § 102

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

> A person shall be entitled to a patent unless –
>
> (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.

2. **Claim 1, 4-7, 16 and 18-20** are rejected under 35 U.S.C. 102(b) as being anticipated by Tojo et al. (US 20040250217), hereinafter referenced as Tojo.

3. ***Regarding claim 1,*** Tojo discloses**,**

"designating at least one application as a spin-home ***(see Fig. 18)*** in response to a user input ***(see Para. 38-40)***";

"running a spin-home program stored in the program memory***(When `fix key` has been pressed as a result, the function corresponding to the item currently located at the front end such as coordinate P1 is executed, Fig. 6-11 and Para. 47-53)***, when a user operates a first key button for driving the spin-home program ***(control part 4 determines if the `fix key` on the main operation part 25 has been operated, Fig. 6-11 and Para. 47-53)***, and displaying a first application designated as the spin-home on the LCD display module ***(As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***";

"circulating next application designated as the spin-home and displaying the application on the LCD display module ***(the display image on the main LCD 21 changes in its state as shown in FIG. 14)*** every time the user operates a second key

button***(i.e., interpreted as left/right key)*** for circulating the idle screen ***(When left/right key has been pressed as a result, the function corresponding to the item next to currently located at the front end such as B-function is executed, Fig. 6-11 and Para. 47-53)***";

"adopting an application currently displayed on the display module as the idle screen when the user operates a confirmation key button ***('idle screen' interpreted as starting point for using various applications, when an item such as item A is located in the front position, item A become starting point to start the function on the LCD display by pressing the fix key, Fig. 4 and Para. 38-40)***".

4. ***Regarding claim 4,*** Tojo discloses**,**

"the first key button for driving the spin-home program and the second key button for circulating the idle screen are dedicated spin-home key buttons separately positioned on the mobile communication terminal (***Fig. 6-11 and Para. 47-53)***";

5. ***Regarding claim 5,*** Tojo discloses**,**

"the first key button for driving the spin-home program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button ***(see Fig. 18)***";

6. ***Regarding claim 6,*** Tojo discloses**,**

"the application designated as the spin-home is selected from the group consisting of schedule management, address book, list of recently used applications, game, text message, image, moving picture, and shortcut icon screen ***(see Fig. 18)***";

7. ***Regarding claim 7,*** Tojo discloses**,**

"the address book designated as the spin-home and displayed on the LCD display module is a book selected from the group consisting of a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, and a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor ***(see Fig. 18)***"

8. ***Regarding claim 16,*** Tojo discloses**,**

"generating a spin-home list listing one or more application ***(see Fig. 18)*** in response to a user input ***(see Para. 38-40)***";

"if the first key being operated ***(control part 4 determines if the `fix key` on the main operation part 25 has been operated, Fig. 6-11 and Para. 47-53)***, initiating a spin-home program memory of the mobile terminal ***(When it has been pressed as a result, the function corresponding to the item currently located at the front end such as coordinate P1 is executed, Fig. 6-11 and Para. 47-53)*** and displaying one of the one or more application listed on the spin-home list on a LCD display module of the mobile terminal ***(As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***, thereby the one of the one or more applications becoming a currently displayed application ***(see Fig. 6-14)***";

"if the second key being operated ***(i.e., interpreted as left/right key)***, executing the spin-home program and displaying a next application on the LCD display module ***(When left/right key has been pressed as a result, the function corresponding to***

the item next to currently located at the front end such as B-function is executed, Fig. 6-11 and Para. 47-53), the next application being next to the currently displayed application on the spin-home list ***(As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***, thereby the next application becoming the currently displayed application ***(see Fig. 12 and 18)***";

"if the confirmation key being operated, adopting the currently displayed application as the idle screen ***('idle screen' interpreted as starting point for using various applications, when an item such as item A is located in the front position, item A become starting point to start the function on the LCD display by pressing the fix key, Fig. 4 and Para. 38-40)".***

9. ***Regarding claim 18,*** Tojo discloses, "the first key and the second key are dedicated key buttons separately positioned on the mobile terminal ***(see Fig. 18)***";

10. ***Regarding claim 19,*** Tojo discloses, "the first key is a downward movement key button positioned on them mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal ***(see Fig. 18)***"

11. ***Regarding claim 20,*** Tojo discloses, "wherein the spin-home list lists one or more of the following applications: schedule management, address book, list of recently used applications, game, test message, image, moving picture, or shortcut icon screen ***(see Fig. 18)***".

Claim Rejections - 35 USC § 103

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

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

13. **Claims 2, 8, 9, 11-15 and 17** are rejected under 35 U.S.C. 103(a) as being unpatentable over Tojo, further in view of Yamaguchi et al (US 7350158), hereinafter referenced as Yamaguchi.

14. ***Regarding claim 2,*** Tojo discloses everything claimed as applied above (see claim 1), however, Tojo fails to disclose, "an application is designated as a spin-home in accordance with user selection of a spin-home addition/deletion item of a menu item of each application".

In as similar field of endeavor, Yamaguchi discloses, "an application is designated as a spin-home in accordance with user selection of a spin-home addition/deletion item of a menu item of each application ***(The CPU 20 registers the icon numbers to the display and non-display icon management tables 28 and 29 or deletes them from these tables 28 and 29, and disposes the icon train on the orbit 50 according to the contents of the display and non-display icon management tables 28 and 29, Fig. 5 and Col. 6; lines 49-Col. 7; lines 16***)".

Therefore, it would be obvious to one of the ordinary skill in the art at the time of invention was made to modify the Tojo by specifically providing an application is designated as a spin-home in accordance with user selection of a spin-home addition/deletion item of a menu item of each application, as taught by Yamaguchi for in order to assure a visibility of all the icons.

15. ***Regarding claim 8,*** Tojo discloses**,**

"a microprocessor ***(i.e., control part 4, Fig. 3)*** configured to execute a spin-home program ***(see Fig. 18)***";

"a key input module configured to input characters and numbers ***(a menu item is selected or operated is not limited to the cross-shaped key, and, any operating means (for example, ten keys or such, Para. 67)***, the key input module having a first key arranged for causing the execution of the spin-home program ***(see Fig. 6 and Para. 47-53***)";

"an LCD display module coupled to the microprocessor and configured to display an idle screen ***(idle screen' interpreted as starting point for using various applications, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***";

"a program memory ***(i.e., memory 6, Fig. 3)*** encoded to store the spin-home program ***(item displayed in LCD 21 is stored in the memory 6, Para. 37)***";

"if the first key being operated ***(control part 4 determines if the `fix key` on the main operation part 25 has been operated, Fig. 6-11 and Para. 47-53)***, initiating the spin-home program and displaying at least one application designated in a spin-home list on the LCD display module ***(When it has been pressed as a result, the function corresponding to the item currently located at the front end such as coordinate P1 is executed, Fig. 6-11 and Para. 47-53 and As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14),*** the spin-home list being generated in response to a user input ***(see Fig. 18)***";

"if a second key ***(i.e., interpreted as left/right key)*** for circulating the idle screen being operated, selecting a next application designated in the spin-home list , next to an originally displayed application that is displayed on the LCD display module ***(When left/right key has been pressed as a result, the function corresponding to the item next to currently located at the front end such as B-function is executed, Fig. 6-11 and Para. 47-53)***, as currently displayed application by executing the spin-home program and display the next application on the LCD display module ***(As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***";

"adopting the currently displayed application as the idle screen is a confirmation key being operated ***(when an item such as item A is located in the front position, item A become starting point to start the function on the LCD display by pressing the fix key, Fig. 4 and Para. 38-40)***";

However, Tojo fails to disclose, "a data storage module coupled to the microprocessor and configured to act as data buffer when the spin-home program is executed",

In a similar field of endeavor, Yamaguchi discloses, "a data storage module ***(i.e., frame buffer area 26, Fig. 5)*** coupled to the microprocessor ***(see Fig. 4 and 5)*** and configured to act as data buffer when the spin-home program is executed ***(The frame buffer area 26 has stored therein image data on the icon menu to be displayed on the screen of the LCD panel 4 and The frame buffer area 26 is used as a color buffer for storage of a color number for each pixel, Fig. 5 and Col. 6; lines 49-Col. 7; lines 16)***"

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify Tojo by specifically providing a data storage module coupled to the microprocessor and configured to act as data buffer when the spin-home program is executed, as taught by Yamaguchi for the purpose of enabling the user to easily select a desired icon.

16. ***Regarding claim 9,*** Tojo and Yamaguchi disclose everything claimed as applied above (see claim 8), further Tojo discloses, "key input module has dedication spin-home key for driving the spin-home program and circulating the idle screen ***(Fig. 6-11 and Para. 47-53)***";

17. ***Regarding claim 11,*** Tojo and Yamaguchi disclose everything claimed as applied above (see claim 8), further Tojo discloses, "automatically manage frequently used contact addresses of a user during an interval ***(The contents of the schedule table are stored in the registration part 6a of the memory 6, and are automatically updated in response to updating operation. The sequence of these operations are executed as a result of the predetermined respective parts being operated under the control of the control part, Para. 38-45)*** and display a list of the contact address on the LCD display module in response to key input from the user ***(see Fig. 18)***".

18. ***Regarding claim 12,*** Tojo and Yamaguchi disclose everything claimed as applied above (see claim 8), further Tojo discloses, "extract contact address and shortcuts being assigned to the contact addresses by a user and display a list of the contact addresses on the LCD display module in response to key input from the user ***(see Fig. 18)***".

19. ***Regarding claim 13,*** Tojo and Yamaguchi disclose everything claimed as applied above (see claim 8), in addition Yamaguchi discloses, "a list of application used by a user for a period of time from present time ***(see Fig. 11)*** and display the list on the LCD display module in response to key input from the user ***(see Fig. 14)***".

20. ***Regarding claim 14,*** Tojo and Yamaguchi disclose everything claimed as applied above (see claim 8), further Tojo discloses, "assign an icon to at least one application, when the application is designated as a shortcut, display a shortcut icon screen on the LCD display module when a user selects the shortcut icon screen in an idle screen setup mode, activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input ***(see Fig. 18)***".

21. ***Regarding claim 15,*** Tojo and Yamaguchi disclose everything claimed as applied above (see claim 8), further Tojo discloses, "the predetermined icon is designated by the user ***(Fig. 4 and Para. 38-40)***".

22. ***Regarding claim 17,*** Tojo discloses everything claimed as applied above (see claim 1), however, Tojo fails to disclose, "adding an application to the spin-home list or removing the application from the spin-home list by operating a spin-home addition/deletion menu item".

In as similar field of endeavor, Yamaguchi discloses, "adding an application to the spin-home list or removing the application from the spin-home list by operating a spin-home addition/deletion menu item ***(The CPU 20 registers the icon numbers to the display and non-display icon management tables 28 and 29 or deletes them from these tables 28 and 29, and disposes the icon train on the orbit 50 according***

to the contents of the display and non-display icon management tables 28 and 29, Fig. 5 and Col. 6; lines 49-Col. 7; lines 16)",

Therefore, it would be obvious to one of the ordinary skill in the art at the time of invention was made to modify the Tojo by specifically providing adding an application to the spin-home list or removing the application from the spin-home list by operating a spin-home addition/deletion menu item, as taught by Yamaguchi for in order to assure a visibility of all the icons.

23. **Claims 3 and 10** are rejected under 35 U.S.C. 103(a) as being unpatentable over Tojo, further in view of Overy et al. (US 6363264), hereinafter referenced as Overy.

24. ***Regarding claim 3,*** Tojo discloses everything claimed as applied above (see claim 1), however, Tojo fails to disclose, "driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying application items designated as the spin-home on the LCD display module and toggling on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items displayed on the LCD display module",

In a similar field of endeavor, Overy discloses, "driving a screen setup program stored in the program memory ***(i.e., equivalent to The legend MEMORY is displayed in the region 29, Col. 3; lines 45-Col. 4; lines 12)***, when the user operates a predetermined key button ***(Depression of this key will allow telephone numbers stored in the memory to be recalled by name or number, Col. 3; lines 45-Col. 4; lines 12)***, and displaying application items designated as the spin-home on the LCD

display module ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-Col. 4; lines 12)*** and toggling on/off spin-home setup of selected applications***(i.e., interpreted as toggle between selection of the NORMAL and EASY OPERATION modes)*** in accordance with user selection when the user selects at least one of the application items displayed on the LCD display module ***(the clear key 16 could be used to cause the handset to toggle between displaying the legends of the EASY OPERATION mode and the NORMAL mode on the LCD with the corresponding changes in the functionality of the soft keys 14 and 15, Col. 7; lines 39-49)***",

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify Tojo by specifically providing driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying application items designated as the spin-home on the LCD display module and toggling on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items displayed on the LCD display module, as taught by Overy for the purpose of enhancing the functionality of the mobile communication terminal.

25. ***Regarding claim 10,*** Tojo discloses everything claimed as applied above (see claim 1), however, Tojo fails to disclose, "display application items designated in the spin-home list on the LCD display module, when the user operates a predetermined key button while the mobile communication terminal is in an idle mode and toggle on/off

spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items",

In a similar field of endeavor, Overy discloses, "display application items designated in the spin-home list on the LCD display module ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-Col. 4; lines 12)***, when a user operates a predetermined key button while the mobile communication terminal is in an idle mode ***(Depression of this key will allow telephone numbers stored in the memory to be recalled by name or number, Col. 3; lines 45-Col. 4; lines 12)*** and toggle on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items ***(the clear key 16 could be used to cause the handset to toggle between displaying the legends of the EASY OPERATION mode and the NORMAL mode on the LCD with the corresponding changes in the functionality of the soft keys 14 and 15, Col. 7; lines 39-49)***",

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify Tojo by specifically providing display application items designated in the spin-home list on the LCD display module, when the user operates a predetermined key button while the mobile communication terminal is in an idle mode and toggle on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items, as taught by Overy for the purpose of enhancing the functionality of the mobile communication terminal.

Response to Arguments

26. This office action is in response to Applicant's arguments filed on 03/15/2011.

27. Applicant's arguments have been fully considered but they are not persuasive. Therefore, rejections have been maintained for the reason set forth above.

28. ***Regarding claim 1***, Applicant argues that,

"More specifically, Tojo describes a device that menu items are displayed as a circular menu, and one of the menu items is selected according to a menu item selecting method. In the embodiments described in Tojo, the menu items included in the circular menu appear to be predetermined before the user operations. Tojo appears to be silent regarding how the menu items are designated. Therefore, Tojo cannot reasonably be interpreted to describe the recited "designating at least one application as a spin-home in response to a user input." Examiner respectfully disagrees for the following reason:

Claim simply recites, "designating at least one application as a spin-home in response to a user input". It is not clear from the claim limitation what does it mean by "designating at least one application". Therefore, Examiner has given a broadest reasonable interpretation for the limitation "designating at least one application". In Fig. 18 and Para. 71-73, Tojo discloses, "*A device for selecting a desired item from a menu including a predetermined plurality of items*", that is equivalent to "designating at least one application as a spin-home", as recited in claim 1. and In Fig. 3 and Para. 37, Tojo discloses, this selection can be made by user input operation part 5. Thus, contrary to

Applicant's argument, Tojo does discloses, “designating at least one application as a spin-home in response to a user input” (as broadest reasonable interpretation is given).

29. Applicant also argues that,

“In addition, it is asserted in the Office Action that the menu item A located at the very front position corresponds to the recited "idle screen," as recited in claim 1. Applicants respectfully disagree with this assertion. Specifically, when the menu item A is located at the very front position in Tojo, the menu item A is in an active condition, and other menu items are ready to be rotated to the front position and replace menu item A in response to an operation of a direction key. See FIG. 4 and paragraphs 0039-0040 of Tojo. Then the function corresponding to the item A is started when the user operates a fix key. Id. However, to a person having ordinary skill in the art, the "idle screen" refers to a screen displayed on the display module while the mobile communication terminal 100 is in an idle mode, and thus the display of menu item A of Tojo which is located at the very front position and is in an active condition cannot reasonably be interpreted to describe the recited "adopting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button.” Examiner respectfully disagrees for the following reason:

In specification (pg. 3 and lines 6-8), Applicant discloses, “the idle screen is a starting point for using various application provided by mobile communication terminals”. In Para. [0047], Tojo discloses, “*in a state in which a menu is displayed on the main LCD 21 (for example, in the state shown in FIG. 4a), the control part 4 determines operation of the cross-shaped key on the main operation part 25 made by a*

user", which is starting point for using various application. Therefore, this state can reasonably interpreted as "idle screen", as recited in claim 1. And also, in Para [0039-0040], Tojo discloses, "staring point can be selected by using the fix key", the fix key is equivalent to "confirmation key", as recited in claim 1. Thus, contrary to Applicant's argument, Tojo does discloses, "adopting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button".

30. ***Regarding claim 16***, Applicant's arguments are similar to the reasons presented above for claim 1. Therefore, rejection for claim 16 is maintained for the reason set forth in claim 1.

31. ***Regarding claim 8***, Applicant's arguments are similar to the reasons presented above for claim 1. Therefore, rejection for claim 8 is maintained for the reason set forth in claim 1.

Conclusion

32. **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 GOLAM SOROWAR whose telephone number is (571)270-3761. The examiner can normally be reached on MON-FRI: 7:00 am-5:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EDWARD F. URBAN can be reached on (571) 272-7899. 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.

/GOLAM SOROWAR/
Examiner, Art Unit 2618

/Edward Urban/
Supervisory Patent Examiner, Art Unit 2618

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	:	11/911,277	Confirmation No.: 5567
Applicant	:	Youngmin PARK et al.	
371(c) Date	:	October 11, 2007	
Tech Cntr/AU	:	2618	
Examiner	:	Sorowar, Golam	
Entitled	:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	
Attorney Reference	:	126587-0008	
Customer Number	:	22429	

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

AMENDMENT

Dear Sir:

In response to the Office Action (OA) dated December 15, 2010, please amend the above-identified application and enter the following remarks, as follows:

- **Amendments to the Claims** as reflected in the listing of claims; and
- **Remarks**.

AMENDMENTS TO THE CLAIMS

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

1. (**Currently Amended**) A method for providing a spin-home function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module so that applications are circulated and displayed on an idle screen, the method comprising the steps of:

(a) designating at least one application as a spin-home in response to a user input;

(b) running a spin-home program stored in the program memory, when a user operates a first key button for driving the spin-home program, and displaying a first application designated as the spin-home on the LCD display module;

(c) circulating next application designated as the spin-home and displaying the application on the LCD display module every time the user operates a second key button for circulating the idle screen; and

(d) ~~setting~~ adopting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button.

2. (Original) The method as claimed in claim 1, wherein, in step (a), an application is designated as a spin-home in accordance with user selection of a spin-home addition/deletion item of a menu item of each application.

3. (Original) The method as claimed in claim 1, wherein step (a) includes the steps of:

(a1) driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying application items designated as the spin-home on the LCD display module; and

(a2) toggling on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items displayed on the LCD display module.

4. (Original) The method as claimed in claim 1, wherein the first key button for driving the spin-home program and the second key button for circulating the idle screen are dedicated spin-home key buttons separately positioned on the mobile communication terminal.

5. (Original) The method as claimed in claim 1, wherein the first key button for driving the spin-home program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button.

6. (Original) The method as claimed in claim 1, wherein the application designated as the spin-home is selected from the group consisting of schedule management, address book, list of recently used applications, game, text message, image, moving picture, and shortcut icon screen.

7. (Original) The method as claimed in claim 6, wherein the address book designated as the spin-home and displayed on the LCD display module is a book selected from the group consisting of a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, and a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor.

8. (**Currently Amended**) An apparatus for providing a spin-home function for a mobile communication terminal, the apparatus comprising:

a microprocessor configured to execute a spin-home program;

a data storage module coupled to the microprocessor and configured to act as a data buffer when the spin-home program is executed;

a key input module configured to input characters and numbers, the key input module having a first key arranged for causing the execution of the spin-home program;

an LCD display module coupled to the microprocessor and configured to display an idle screen; and

a program memory encoded to store the spin-home program, the spin home program being configured to cause the microprocessor to perform a method comprising:

if the first key being operated, initiating the spin-home program and displaying at least one application designated in a spin-home list on the LCD display module, the spin-home list being generated in response to a user input;

if a second key for circulating the idle screen being operated, selecting a next application designated in the spin-home list, next to an originally displayed application that is displayed on the LCD display module, as a currently displayed application by executing the spin-home program and displaying the next application on the LCD display module; and

~~using~~ adopting the currently displayed application as the idle screen if a confirmation key being operated.

9. (Original) The apparatus as claimed in claim 8, wherein the key input module has a dedicated spin-home key button for driving the spin-home program and circulating the idle screen.

10. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a screen setup program, the screen setup program is configured to cause the microprocessor to:

display application items designated in the spin-home list on the LCD display module, when [[the]]a user operates a predetermined key button while the mobile communication terminal is in an idle mode, and

toggle on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items.

11. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a contact management program, the contact management program is configured to cause the microprocessor to:

automatically manage frequently used contact addresses of a user during an interval and

display a list of the contact addresses on the LCD display module in response to key input from the user.

12. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a extracting program, the extracting program is configured to cause the microprocessor to:

extract contact addresses and shortcuts being assigned to the contact addresses by a user, and

display a list of the contact addresses on the LCD display module in response to key input from the user.

13. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a obtaining program, the obtaining program is configured to cause the microprocessor to obtain a list of application used by a user for a period of time from present time and displaying the list on the LCD display module in response to key input from the user.

14. (Previously Presented) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a shortcut program, the shortcut program is configured to cause the microprocessor to:

assign an icon to at least one application, when the application is designated as a shortcut,

display a shortcut icon screen on the LCD display module when a user selects the shortcut icon screen in an idle screen setup mode, and

activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input.

15. (Original) The apparatus as claimed in claim 14, wherein the predetermined icon is designated by the user.

16. (**Currently Amended**) A method of changing an idle screen for a mobile terminal having a first key, a second key, and a confirmation key, the method comprising:

generating a spin-home list listing one or more applications in response to a user input;

if the first key being operated, initiating a spin-home program stored in a program memory of the mobile terminal and displaying one of the one or more applications listed on the spin-home list on a LCD display module of the mobile terminal, thereby the one of the one or more applications becoming a currently displayed application;

if the second key being operated, executing the spin-home program and displaying a next application on the LCD display module, the next application being next to the currently displayed application on the spin-home list, thereby the next application becoming the currently displayed application; and

if the confirmation key being operated, adopting the currently displayed application as the idle screen.

17. (Previously Presented) The method of claim 16, further comprising:

adding an application to the spin-home list or removing the application from the spin-home list by operating a spin-home addition/deletion menu item.

18. (Previously Presented) The method of claim 16, wherein the first key and the second key are dedicated key buttons separately positioned on the mobile terminal.

19. (Previously Presented) The method of claim 16, wherein the first key is a downward movement key button positioned on the mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal.

20. (Previously Presented) The method of claim 16, wherein the spin-home list lists one or more of the following applications: schedule management, address book, list of recently used applications, game, text message, image, moving picture, or shortcut icon screen.

REMARKS

Applicants appreciate the Examiner's careful review of the present application, and respectfully request reconsideration in light of the preceding amendments and the following remarks.

By this Amendment, claims 1, 8, 10, and 16 are amended to better define the claimed subject matter. Support for the amended claims is believed found in the original specification, drawings, and claims. Accordingly, claims 1-20 are pending in this application.

Rejections under § 102

Claims 1, 4-7, 16, and 18-20 are rejected under 35 U.S.C. § 102(b) as being anticipated by *Tojo* (US 2004/0250217). In view of the preceding amendments and the reasons discussed below, the rejection is believed overcome.

Independent claim 1 is amended to recite a method for providing a spin-home function for a mobile communication terminal, and the method comprising, among other things, "designating at least one application as a spin-home in response to a user input" and "adopting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button" (emphasis added). *Tojo* fails to disclose at least these features.

More specifically, *Tojo* describes a device that menu items are displayed as a circular menu, and one of the menu items is selected according to a menu item selecting method. In the embodiments described in *Tojo*, the menu items included in the circular menu appear to be predetermined before the user operations. *Tojo* appears to be silent regarding how the menu items are designated. Therefore, *Tojo* cannot reasonably be interpreted to describe the recited "designating at least one application as a spin-home in response to a user input."

In addition, it is asserted in the Office Action that the menu item A located at the very front position corresponds to the recited "idle screen," as recited in claim 1. Applicants respectfully disagree with this assertion.

Specifically, when the menu item A is located at the very front position in *Tojo*, the menu item A is in an active condition, and other menu items are ready to be rotated to the front position and replace menu item A in response to an operation of a direction key. See FIG. 4 and

paragraphs 0039-0040 of *Tojo*. Then the function corresponding to the item A is started when the user operates a fix key. *Id.* However, to a person having ordinary skill in the art, the "idle screen" refers to a screen displayed on the display module while the mobile communication terminal 100 is in an idle mode, and thus the display of menu item A of *Tojo* which is located at the very front position and is in an active condition cannot reasonably be interpreted to describe the recited "adopting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button."

A claim is anticipated under § 102(b) only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference. Therefore, for at least the reasons discussed above, *Tojo* does not anticipate amended claim 1.

Amended independent claim 16 recites a method of changing an idle screen for a mobile terminal, and the method comprises, among other things, "generating a spin-home list listing one or more applications in response to a user input" and "if the confirmation key being operated, adopting the currently displayed application as the idle screen" (emphasis added). Similar to the reasons presented above for claim 1, independent claim 16 is patentable over *Tojo*.

Claims 4-7 and 18-20 are likewise patentable over *Tojo* for their dependency upon independent claims 1 and 16, respectively. Withdrawal of the rejection of claims 1, 4-7, 16, and 18-20 under § 102(b) is respectfully requested.

Rejections under § 103

Claims 2, 3, 8-15, and 17 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Tojo* in view of *Yamaguchi* (US 7,350,158) or *Overy* (US 6,363,264). *Yamaguchi* is relied upon to describe designating a spin-home application and a data storage module acting as a data buffer; and *Overy* is relied upon to describe driving a screen setup program. However, *Yamaguchi* and *Tojo* appear to be silent regarding the recited "designating at least one application as a spin-home in response to a user input" and "adopting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button," as recited in independent claim 1 and similarly recited in independent claim 16. Therefore, *Yamaguchi* and *Overy* fail to cure the deficiencies of *Tojo*, and claims 2, 3, and 17 are patentable over applied references for at least their dependency on independent claims 1 and 16.

Amended independent claim 8 recites an apparatus comprising, among other things, "a program memory encoded to store the spin-home program, the spin home program being configured to cause the microprocessor to perform a method comprising: if the first key being operated, initiating the spin-home program and displaying at least one application designated in a spin-home list on the LCD display module, the spin-home list being generated in response to a user input . . . and adopting the currently displayed application as the idle screen if a confirmation key being operated" (emphasis added). Similar to the reasons presented above for claim 1, independent claim 8, as well as dependent claims 9-15, are patentable over *Tojo*, *Yamaguchi*, and *Overy*.

Withdrawal of the rejections of claims 2, 3, 8-15, and 17 under § 103(a) is respectfully requested.

Conclusion

All objections and rejections having been addressed, it is respectfully submitted that the present application should be in condition for allowance and a Notice to that effect is earnestly solicited. Early issuance of a Notice of Allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicants' attorney of record, to facilitate advancement of the present application.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

LOWE HAUPTMAN HAM & BERNER, LLP

/Yoon S Ham/
Yoon S. Ham
Registration No. 45,307

Customer Number: 22429
1700 Diagonal Road, Suite 300
Alexandria, Virginia 22314
(703) 684-1111
(703) 518-5499 Facsimile
Date: March 15, 2011
YSH/TC/jr

Electronic Acknowledgement Receipt

EFS ID:	9663654
Application Number:	11911277
International Application Number:	
Confirmation Number:	5567
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Customer Number:	22429
Filer:	Yoon Ham/james rhee
Filer Authorized By:	Yoon Ham
Attorney Docket Number:	126587-0008
Receipt Date:	15-MAR-2011
Filing Date:	11-OCT-2007
Time Stamp:	16:00:02
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		110315_0008_amendment.pdf	62695 9d072c83b011e7a91b9c111e8c73e73da3cb4157	yes	10

	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:			
	Total Files Size (in bytes):	62695	

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.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/911,277	10/11/2007	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☐ RATE ($)	SMALL ENTITY ☐ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
	03/15/2011									
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $ =		OR	X $52=	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $ =		OR	X $220=	0
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0

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

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

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

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

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

Legal Instrument Examiner:
/ROLITA WIMBUSH/

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.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

22429 7590 12/15/2010

LOWE HAUPTMAN HAM & BERNER, LLP
1700 DIAGONAL ROAD
SUITE 300
ALEXANDRIA, VA 22314

EXAMINER	
SOROWAR, GOLAM	
ART UNIT	PAPER NUMBER
2618	
MAIL DATE	DELIVERY MODE
12/15/2010	PAPER

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.

Office Action Summary	Application No.	Applicant(s)	
	11/911,277	PARK ET AL.	
	Examiner	Art Unit	
	GOLAM SOROWAR	2618	

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *11/04/2010*.

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

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

Disposition of Claims

4)☒ Claim(s) *1-20* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-20* is/are rejected.

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

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

Application Papers

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

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

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

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

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

Priority under 35 U.S.C. § 119

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

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

DETAILED ACTION

Response to Arguments

Applicant's arguments, filed on 11/04/2010, have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made.

Claim Rejections - 35 USC § 102

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

> A person shall be entitled to a patent unless –
>
> (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.

2. **Claim 1, 4-7, 16 and 18-20** are rejected under 35 U.S.C. 102(b) as being anticipated by Tojo et al. (US 20040250217), hereinafter referenced as Tojo.

3. ***Regarding claim 1,*** Tojo discloses**,**

"designating at least one application as a spin-home ***(see Fig. 18)***";

"running a spin-home program stored in the program memory***(When `fix key` has been pressed as a result, the function corresponding to the item currently located at the front end such as coordinate P1 is executed, Fig. 6-11 and Para. 47-53)***, when a user operates a first key button for driving the spin-home program ***(control part 4 determines if the `fix key` on the main operation part 25 has been operated, Fig. 6-11 and Para. 47-53)***, and displaying a first application designated as the spin-home on the LCD display module ***(As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***";

"circulating next application designated as the spin-home and displaying the application on the LCD display module ***(the display image on the main LCD 21 changes in its state as shown in FIG. 14)*** every time the user operates a second key button***(i.e., interpreted as left/right key)*** for circulating the idle screen ***(When left/right key has been pressed as a result, the function corresponding to the item next to currently located at the front end such as B-function is executed, Fig. 6-11 and Para. 47-53)***";

"setting an application currently displayed on the display module as the idle screen when the user operates a confirmation key button ***('idle screen' interpreted as starting point for using various applications, when an item such as item A is located in the front position, item A become starting point to start the function on the LCD display by pressing the fix key, Fig. 4 and Para. 38-40)***".

4. ***Regarding claim 4,*** Tojo discloses**,**

"the first key button for driving the spin-home program and the second key button for circulating the idle screen are dedicated spin-home key buttons separately positioned on the mobile communication terminal (***Fig. 6-11 and Para. 47-53)***";

5. ***Regarding claim 5,*** Tojo discloses**,**

"the first key button for driving the spin-home program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button ***(see Fig. 18)***";

6. ***Regarding claim 6,*** Tojo discloses**,**

"the application designated as the spin-home is selected from the group

consisting of schedule management, address book, list of recently used applications, game, text message, image, moving picture, and shortcut icon screen ***(see Fig. 18)***";

7. ***Regarding claim 7,*** Tojo discloses**,**

"the address book designated as the spin-home and displayed on the LCD display module is a book selected from the group consisting of a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, and a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor ***(see Fig. 18)***"

8. ***Regarding claim 16,*** Tojo discloses**,**

"generating a spin-home list listing one or more application ***(see Fig. 18)***";

"if the first key being operated ***(control part 4 determines if the `fix key` on the main operation part 25 has been operated, Fig. 6-11 and Para. 47-53)***, initiating a spin-home program memory of the mobile terminal ***(When it has been pressed as a result, the function corresponding to the item currently located at the front end such as coordinate P1 is executed, Fig. 6-11 and Para. 47-53)*** and displaying one of the one or more application listed on the spin-home list on a LCD display module of the mobile terminal ***(As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***, thereby the one of the one or more applications becoming a currently displayed application ***(see Fig. 6-14)***";

"if the second key being operated ***(i.e., interpreted as left/right key)***, executing the spin-home program and displaying a next application on the LCD display module

(When left/right key has been pressed as a result, the function corresponding to the item next to currently located at the front end such as B-fuction is executed, Fig. 6-11 and Para. 47-53), the next application being next to the currently displayed application on the spin-home list ***(As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***, thereby the next application becoming the currently displayed application ***(see Fig. 12 and 18)***";

"if the confirmation key being operated, adopting the currently displayed application as the idle screen ***('idle screen' interpreted as starting point for using various applications, when an item such as item A is located in the front position, item A become starting point to start the function on the LCD display by pressing the fix key, Fig. 4 and Para. 38-40)".***

9. ***Regarding claim 18,*** Tojo discloses**,** "the first key and the second key are dedicated key buttons separately positioned on the mobile terminal ***(see Fig. 18)***";

10. ***Regarding claim 19,*** Tojo discloses**,** "the first key is a downward movement key button positioned on them mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal ***(see Fig. 18)***"

11. ***Regarding claim 20,*** Tojo discloses**,** "wherein the spin-home list lists one or more of the following applications: schedule management, address book, list of recently used applications, game, test message, image, moving picture, or shortcut icon screen ***(see Fig. 18)***".

Claim Rejections - 35 USC § 103

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

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

13. **Claims 2, 8, 9, 11-15 and 17** are rejected under 35 U.S.C. 103(a) as being unpatentable over Tojo, further in view of Yamaguchi et al (US 7350158), hereinafter referenced as Yamaguchi.

14. ***Regarding claim 2,*** Tojo discloses everything claimed as applied above (see claim 1), however, Tojo fails to disclose, "an application is designated as a spin-home in accordance with user selection of a spin-home addition/deletion item of a menu item of each application".

In as similar field of endeavor, Yamaguchi discloses, "an application is designated as a spin-home in accordance with user selection of a spin-home addition/deletion item of a menu item of each application ***(The CPU 20 registers the icon numbers to the display and non-display icon management tables 28 and 29 or deletes them from these tables 28 and 29, and disposes the icon train on the orbit 50 according to the contents of the display and non-display icon management tables 28 and 29, Fig. 5 and Col. 6; lines 49-Col. 7; lines 16***)".

Therefore, it would be obvious to one of the ordinary skill in the art at the time of invention was made to modify the Tojo by specifically providing an application is designated as a spin-home in accordance with user selection of a spin-home

addition/deletion item of a menu item of each application, as taught by Yamaguchi for in order to assure a visibility of all the icons.

15. ***Regarding claim 8,*** Tojo discloses**,**

"a microprocessor ***(i.e., control part 4, Fig. 3)*** configured to execute a spin-home program ***(see Fig. 18)***";

"a key input module configured to input characters and numbers ***(a menu item is selected or operated is not limited to the cross-shaped key, and, any operating means (for example, ten keys or such, Para. 67)***, the key input module having a first key arranged for causing the execution of the spin-home program ***(see Fig. 6 and Para. 47-53***)";

"an LCD display module coupled to the microprocessor and configured to display an idle screen ***(idle screen' interpreted as starting point for using various applications, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***";

"a program memory ***(i.e., memory 6, Fig. 3)*** encoded to store the spin-home program ***(item displayed in LCD 21 is stored in the memory 6, Para. 37)***";

"if the first key being operated ***(control part 4 determines if the `fix key` on the main operation part 25 has been operated, Fig. 6-11 and Para. 47-53)***, initiating the spin-home program and displaying at least one application designated in a spin-home list on the LCD display module ***(When it has been pressed as a result, the function corresponding to the item currently located at the front end such as coordinate P1 is executed, Fig. 6-11 and Para. 47-53 and As a result, the display image on the***

main LCD 21 changes in its state as shown in FIG. 14)";

"if a second key ***(i.e., interpreted as left/right key)*** for circulating the idle screen being operated, selecting a next application designated in the spin-home list , next to an originally displayed application that is displayed on the LCD display module ***(When left/right key has been pressed as a result, the function corresponding to the item next to currently located at the front end such as B-function is executed, Fig. 6-11 and Para. 47-53)***, as currently displayed application by executing the spin-home program and display the next application on the LCD display module ***(As a result, the display image on the main LCD 21 changes in its state as shown in FIG. 14)***";

"using the currently displayed application as the idle screen is a confirmation key being operated ***(when an item such as item A is located in the front position, item A become starting point to start the function on the LCD display by pressing the fix key, Fig. 4 and Para. 38-40)***";

However, Tojo fails to disclose, "a data storage module coupled to the microprocessor and configured to act as data buffer when the spin-home program is executed",

In a similar field of endeavor, Yamaguchi discloses, "a data storage module ***(i.e., frame buffer area 26, Fig. 5)*** coupled to the microprocessor ***(see Fig. 4 and 5)*** and configured to act as data buffer when the spin-home program is executed ***(The frame buffer area 26 has stored therein image data on the icon menu to be displayed on the screen of the LCD panel 4 and The frame buffer area 26 is used as a color buffer for storage of a color number for each pixel, Fig. 5 and Col. 6; lines 49-Col.***

7; lines 16)"

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify Tojo by specifically providing a data storage module coupled to the microprocessor and configured to act as data buffer when the spin-home program is executed, as taught by Yamaguchi for the purpose of enabling the user to easily select a desired icon.

16. ***Regarding claim 9,*** Tojo and Yamaguchi disclose everything claimed as applied above (see claim 8), further Tojo discloses, "key input module has dedication spin-home key for driving the spin-home program and circulating the idle screen ***(Fig. 6-11 and Para. 47-53)***";

17. ***Regarding claim 11,*** Tojo and Yamaguchi disclose everything claimed as applied above (see claim 8), further Tojo discloses, "automatically manage frequently used contact addresses of a user during an interval ***(The contents of the schedule table are stored in the registration part 6a of the memory 6, and are automatically updated in response to updating operation. The sequence of these operations are executed as a result of the predetermined respective parts being operated under the control of the control part, Para. 38-45)*** and display a list of the contact address on the LCD display module in response to key input from the user ***(see Fig. 18)***".

18. ***Regarding claim 12,*** Tojo and Yamaguchi disclose everything claimed as applied above (see claim 8), further Tojo discloses, "extract contact address and shortcuts being assigned to the contact addresses by a user and display a list of the

contact addresses on the LCD display module in response to key input from the user ***(see Fig. 18)***".

19. ***Regarding claim 13,*** Tojo and Yamaguchi disclose everything claimed as applied above (see claim 8), in addition Yamaguchi discloses, "a list of application used by a user for a period of time from present time ***(see Fig. 11)*** and display the list on the LCD display module in response to key input from the user ***(see Fig. 14)***".

20. ***Regarding claim 14,*** Tojo and Yamaguchi disclose everything claimed as applied above (see claim 8), further Tojo discloses, "assign an icon to at least one application, when the application is designated as a shortcut, display a shortcut icon screen on the LCD display module when a user selects the shortcut icon screen in an idle screen setup mode, activate an application corresponding to a predetermined icon when the user selects the predetermined icon via key input ***(see Fig. 18)***".

21. ***Regarding claim 15,*** Tojo and Yamaguchi disclose everything claimed as applied above (see claim 8), further Tojo discloses, "the predetermined icon is designated by the user ***(Fig. 4 and Para. 38-40)***".

22. ***Regarding claim 17,*** Tojo discloses everything claimed as applied above (see claim 1), however, Tojo fails to disclose, "adding an application to the spin-home list or removing the application from the spin-home list by operating a spin-home addition/deletion menu item".

In as similar field of endeavor, Yamaguchi discloses, "adding an application to the spin-home list or removing the application from the spin-home list by operating a spin-home addition/deletion menu item ***(The CPU 20 registers the icon numbers to***

the display and non-display icon management tables 28 and 29 or deletes them from these tables 28 and 29, and disposes the icon train on the orbit 50 according to the contents of the display and non-display icon management tables 28 and 29, Fig. 5 and Col. 6; lines 49-Col. 7; lines 16)",

Therefore, it would be obvious to one of the ordinary skill in the art at the time of invention was made to modify the Tojo by specifically providing adding an application to the spin-home list or removing the application from the spin-home list by operating a spin-home addition/deletion menu item, as taught by Yamaguchi for in order to assure a visibility of all the icons.

23. **Claims 3 and 10** are rejected under 35 U.S.C. 103(a) as being unpatentable over Tojo, further in view of Overy et al. (US 6363264), hereinafter referenced as Overy.

24. ***Regarding claim 3,*** Tojo discloses everything claimed as applied above (see claim 1), however, Tojo fails to disclose, "driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying application items designated as the spin-home on the LCD display module and toggling on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items displayed on the LCD display module",

In a similar field of endeavor, Overy discloses, "driving a screen setup program stored in the program memory ***(i.e., equivalent to The legend MEMORY is displayed in the region 29, Col. 3; lines 45-Col. 4; lines 12)***, when the user operates a predetermined key button ***(Depression of this key will allow telephone numbers***

stored in the memory to be recalled by name or number, Col. 3; lines 45-Col. 4; lines 12), and displaying application items designated as the spin-home on the LCD display module ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-Col. 4; lines 12)*** and toggling on/off spin-home setup of selected applications***(i.e., interpreted as toggle between selection of the NORMAL and EASY OPERATION modes)*** in accordance with user selection when the user selects at least one of the application items displayed on the LCD display module ***(the clear key 16 could be used to cause the handset to toggle between displaying the legends of the EASY OPERATION mode and the NORMAL mode on the LCD with the corresponding changes in the functionality of the soft keys 14 and 15, Col. 7; lines 39-49)***",

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify Tojo by specifically providing driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying application items designated as the spin-home on the LCD display module and toggling on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items displayed on the LCD display module, as taught by Overy for the purpose of enhancing the functionality of the mobile communication terminal.

25. ***Regarding claim 10,*** Tojo discloses everything claimed as applied above (see claim 1), however, Tojo fails to disclose, "display application items designated in the

spin-home list on the LCD display module, when the user operates a predetermined key button while the mobile communication terminal is in an idle mode and toggle on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items",

In a similar field of endeavor, Overy discloses, "display application items designated in the spin-home list on the LCD display module ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-Col. 4; lines 12)***, when the user operates a predetermined key button while the mobile communication terminal is in an idle mode ***(Depression of this key will allow telephone numbers stored in the memory to be recalled by name or number, Col. 3; lines 45-Col. 4; lines 12)*** and toggle on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items ***(the clear key 16 could be used to cause the handset to toggle between displaying the legends of the EASY OPERATION mode and the NORMAL mode on the LCD with the corresponding changes in the functionality of the soft keys 14 and 15, Col. 7; lines 39-49)***",

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify Tojo by specifically providing display application items designated in the spin-home list on the LCD display module, when the user operates a predetermined key button while the mobile communication terminal is in an idle mode and toggle on/off spin-home setup of selected applications in accordance with user

selection when the user selects at least one of the application items, as taught by Overy for the purpose of enhancing the functionality of the mobile communication terminal.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GOLAM SOROWAR whose telephone number is (571)270-3761. The examiner can normally be reached on MON-FRI: 7:00 am-5:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EDWARD F. URBAN can be reached on (571) 272-7899. 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.

/GOLAM SOROWAR/
Examiner, Art Unit 2618

/Nguyen Vo/
Primary Examiner, Art Unit 2618

Notice of References Cited	Application/Control No. 11/911,277	Applicant(s)/Patent Under Reexamination PARK ET AL.	
	Examiner GOLAM SOROWAR	Art Unit 2618	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,363,264 B1	03-2002	Overy et al.	455/566
*	B	US-2004/0250217 A1	12-2004	Tojo et al.	715/810
*	C	US-7,350,158 B2	03-2008	Yamaguchi et al.	715/834
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	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.	Applicant(s)/Patent Under Reexamination
11911277	11911277	PARK ET AL.
	Examiner	**Art Unit**
	GOLAM SOROWAR	2618

SEARCHED			
Class	**Subclass**	**Date**	**Examiner**
455	418, 550.1	12/10/2010	GS

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
EAST	12/10/2010	GS
Google Patent	7/19/2010	GS
IDS	7/19/2010	GS
STIC	7/19/2010	GS
PALM inventor search	7/19/2010	GS

INTERFERENCE SEARCH			
Class	**Subclass**	**Date**	**Examiner**

/GOLAM SOROWAR/ Examiner.Art Unit 2618	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	0	(spin$home) and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/12/10 09:01
L7	2339	455/550.1.ccls. and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2010/12/10 09:10
L8	0	455/550.1.ccls. and vitual with display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/12/10 09:11
L9	30	455/550.1.ccls. and virtual with display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/12/10 09:12
L10	5	("7350158").URPN.	USPAT	OR	OFF	2010/12/10 09:20
L11	4	("20040250217" | "5926178" | "6239803" | "6388686").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/12/10 09:21
L12	4	("20040250217" | "5926178" | "6239803" | "6388686").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/12/10 09:53
L13	21	455/550.1.ccls. and key with idle with display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/12/10 10:47
L14	3	455/550.1.ccls. and idle with curren$4 with display and @py<"2007"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/12/10 10:48

12/10/2010 3:27:43 PM
C:\Documents and Settings\gsorowar\My Documents\EAST\Workspaces\11911277.wsp

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	:	11/911,277	Confirmation No.: 5567
Applicant	:	Youngmin PARK et al.	
371(c) Date	:	October 11, 2007	
Tech Cntr/AU	:	2618	
Examiner	:	Sorowar, Golam	
Entitled	:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	
Attorney Reference	:	126587-0008	
Customer Number	:	22429	

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

AMENDMENT

Dear Sir:

In response to the Office Action (OA) dated August 5, 2010, please amend the above-identified application and enter the following remarks, as follows:

- **Amendments to the Claims** as reflected in the listing of claims; and
- **Remarks**.

AMENDMENTS TO THE CLAIMS

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

1. (Original) A method for providing a spin-home function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module so that applications are circulated and displayed on an idle screen, the method comprising the steps of:

(a) designating at least one application as a spin-home;

(b) running a spin-home program stored in the program memory, when a user operates a first key button for driving the spin-home program, and displaying a first application designated as the spin-home on the LCD display module;

(c) circulating next application designated as the spin-home and displaying the application on the LCD display module every time the user operates a second key button for circulating the idle screen; and

(d) setting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button.

2. (Original) The method as claimed in claim 1, wherein, in step (a), an application is designated as a spin-home in accordance with user selection of a spin-home addition/deletion item of a menu item of each application.

3. (Original) The method as claimed in claim 1, wherein step (a) includes the steps of:

(a1) driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying application items designated as the spin-home on the LCD display module; and

(a2) toggling on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items displayed on the LCD display module.

4. (Original) The method as claimed in claim 1, wherein the first key button for driving the spin-home program and the second key button for circulating the idle screen are dedicated spin-home key buttons separately positioned on the mobile communication terminal.

5. (Original) The method as claimed in claim 1, wherein the first key button for driving the spin-home program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button.

6. (Original) The method as claimed in claim 1, wherein the application designated as the spin-home is selected from the group consisting of schedule management, address book, list of recently used applications, game, text message, image, moving picture, and shortcut icon screen.

7. (Original) The method as claimed in claim 6, wherein the address book designated as the spin-home and displayed on the LCD display module is a book selected from the group consisting of a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, and a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor.

8. (**Currently Amended**) An apparatus for providing a spin-home function for a mobile communication terminal, the apparatus comprising:

a microprocessor configured to execute a spin-home program;~~a program memory for storing a spin-home program adapted to circulate and display at least one application designated as a spin-home when a user operates a key;~~

a data storage module coupled to the microprocessor and configured to act ~~acting~~ as a data buffer when the spin-home program is executed ~~run by the mobile communication terminal, the data storage module temporarily storing data inputted by the user or storing character or image data received by the mobile communication terminal from an outside~~;

a key input module configured to input ~~for inputting~~ characters and numbers, the key input module having a first ~~special~~ key arranged for causing the execution of the spin-home program~~a predetermined function of the mobile communication terminal to be run~~;

an LCD display module coupled to the microprocessor and configured to display an idle screen ~~for displaying operating conditions of the mobile communication terminal together with date and time, the operating conditions including power utilization condition and radio wave reception strength~~; and

a program memory encoded to store the spin-home program, the spin home program being configured to cause the microprocessor to perform a method comprising:

if the first key being operated, initiating the spin-home program and displaying at least one application designated in a spin-home list on the LCD display module;

if a second key for circulating the idle screen being operated, selecting a next application designated in the spin-home list, next to an originally displayed application that is displayed on the LCD display module, as a currently displayed application by executing the spin-home program and displaying the next application on the LCD display module; and

using the currently displayed application as the idle screen if a confirmation key being operated~~a microprocessor for running the spin-home program, when the user operates a key button for driving the spin-home program, and controlling the LCD display module so as to display a first application designated as the spin-home, the microprocessor controlling the LCD display module so as to display next application in accordance with the spin-home program when the user operates a key button for circulating an idle screen~~.

9. (Original) The apparatus as claimed in claim 8, wherein the key input module has a dedicated spin-home key button for driving the spin-home program and circulating the idle screen.

10. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store ~~additionally stores~~ a screen setup program, the screen setup program is configured to cause the microprocessor to:

display ~~for displaying~~ application items designated [[as]]in the spin-home list on the LCD display module, when the user operates a predetermined key button while the mobile communication terminal is in an idle mode, and

toggle ~~toggling~~ on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items.

11. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store ~~additionally stores~~ a contact management program, the contact management program is configured to cause the microprocessor to:

[[for]] automatically manage ~~managing~~ frequently used contact addresses of [[the]]a user [[at]]during an interval and

display ~~displaying~~ a list of the contact addresses on the LCD display module in response to key input from the user.

12. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store a extracting program, the extracting program is configured to cause the microprocessor to: ~~for extracting~~

extract contact addresses[[,]] and shortcuts being assigned to the contact addresses by [[the]]a user, and

display ~~displaying~~ a list of the contact addresses on the LCD display module in response to key input from the user.

13. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store ~~additionally stores~~ a obtaining program, the obtaining program is configured to cause the microprocessor to obtain ~~for obtaining~~ a list of application used by [[the]]a user for a period of time from present time and displaying the list on the LCD display module in response to key input from the user.

14. (**Currently Amended**) The apparatus as claimed in claim 8, wherein the program memory is further encoded to store ~~additionally stores~~ a shortcut program, the shortcut program is configured to cause the microprocessor to:

assign ~~for assigning~~ an icon to at least one application, when the ~~user designates the~~ application is designated as a shortcut, [[and]]

display ~~displaying~~ a shortcut icon screen on the LCD display module when [[the]]a user selects the shortcut icon screen in an idle screen setup mode, and

activate ~~the shortcut program running~~ an application corresponding to a predetermined icon when the user selects the predetermined icon via key input.

15. (Original) The apparatus as claimed in claim 14, wherein the predetermined icon is designated by the user.

16. (**New**) A method of changing an idle screen for a mobile terminal having a first key, a second key, and a confirmation key, the method comprising:

generating a spin-home list listing one or more applications;

if the first key being operated, initiating a spin-home program stored in a program memory of the mobile terminal and displaying one of the one or more applications listed on the spin-home list on a LCD display module of the mobile terminal, thereby the one of the one or more applications becoming a currently displayed application;

if the second key being operated, executing the spin-home program and displaying a next application on the LCD display module, the next application being next to the currently displayed application on the spin-home list, thereby the next application becoming the currently displayed application; and

if the confirmation key being operated, adopting the currently displayed application as the idle screen.

17. (**New**) The method of claim 16, further comprising:

adding an application to the spin-home list or removing the application from the spin-home list by operating a spin-home addition/deletion menu item.

18. (**New**) The method of claim 16, wherein the first key and the second key are dedicated key buttons separately positioned on the mobile terminal.

19. (**New**) The method of claim 16, wherein the first key is a downward movement key button positioned on the mobile terminal, and the second key is a leftward/rightward movement key button positioned on the mobile terminal.

20. (**New**) The method of claim 16, wherein the spin-home list lists one or more of the following applications: schedule management, address book, list of recently used applications, game, text message, image, moving picture, or shortcut icon screen.

REMARKS

Applicants appreciate the Examiner's careful review of the present application, and respectfully request reconsideration in light of the preceding amendments and the following remarks.

By this Amendment, claims 8 and 10-14 are amended to better define the claimed subject matter. New claims 16-20 are added to provide the scope of protection to which the Applicants are believed entitled. Accordingly, claims 1-20 are pending for examination in this application.

Rejection under § 103(a)

1. Claims 1-4 are rejected under 35 U.S.C. § 103(a) as being unpatnetable over Overy (US 6,363,264) in view of Lee (US 2006/0099938). Applicants respectfully traverse this rejection for the reasons discussed below.

In the Office Action, it is asserted that the execution of the contents associated with the first soft key in Overy is equivalent to the recited "running a spin-home program," and the execution of the contents associated with the second soft key in Overy is equivalent to the recited "circulating next application designated as the spin-home." Further, it is acknowledged in the Office Action that Overy fails to disclose the recited "setting an application as the idle screen," and the display of task list on the secondary display portion in Lee is relied upon to cure the admitted deficiency of Overy. Applicants respectfully disagree.

More specifically, Overy appears to describe a radio telephone that has programmable keys with associated functions. In Overy, functions are associated with different soft keys, and the pre-programmed legends associated with the soft keys can be displayed in the idle screen under an EASY OPERATION mode. See, e.g., col. 4, ln. 13-56. of Overy. However, in Overy, each associated function is activated by an individual soft key with which the function is associated. On the contrary, independent claim 1 of the present application describes executing a spin-home program and the switching between applications is performed by circulating among predetermined spin-home applications in response to *a* second key button. As such, Overy fails to disclose or suggest the recited "running a spin-home program stored in the program memory, when a user operates a first key button . . . ." and "circulating next application . . . every time the

user operates a second key button for circulating the idle screen," as recited in independent claim 1.

Further, Lee appears to describe a method for changing a current process displayed on a second display portion in a mobile terminal. See Abstract of Lee. However, Lee appears to be silent regarding the above-mentioned features. In addition, contrary to the assertion made in the Office Action, Lee appears to merely describe displaying, in response to a user operation, a list of tasks currently being performed. Nowhere does Lee disclose or suggest the recited "setting an application currently displayed on the LCD display module as the idle screen."

Therefore, for at least the reasons stated above, Overy and Lee fail to render independent claim 1 obvious. Claims 2-4 are likewise patentable over Overy and Lee for their dependency on independent claim 1. Withdrawal of the rejection of claims 1-4 under § 103(a) is respectfully requested.

2. Claims 5-6 are rejected under 35 U.S.C. § 103(a) as being unpatnetable over Overy in view of Lee, and further in view of Tojo (US 2004/0250217); and claim 7 is rejected under 35 U.S.C. § 103(a) as being unpatnetable over Overy in view of Lee, and further in view of Scott (US 2005/0130642). Tojo appears to merely describe a circular display of actionable items, and Scott appears to merely describe a method for managing contacts by arranging graphical keys in similar disposition to the keyboard of a mobile phone. However, Tojo and Scott fail to at least cure the deficiencies of Overy and Lee, and thus fail to render independent claim 1, from which claims 5-7 depend, obvious. Therefore, claims 5-7 are likewise patentable over applied references for their dependency on independent claim 1. Withdrawal of the rejection of claims 5-7 under § 103(a) is respectfully requested.

3. Claims 8-10 are rejected under 35 U.S.C. § 103(a) as being unpatnetable over Overy in view of Lee, and further in view of Lim (US 2004/0204144). Applicants respectfully traverse this rejection for the reasons discussed below.

In response, Claim 8 is amended to more clearly define the claimed subject matter. Amended impendent claim 8 recites an apparatus that is configured to perform, among other things, "if the first key being operated, initiating the spin-home program and displaying at least

one application designated in a spin-home list on the LCD display module; if a second key for circulating the idle screen being operated, selecting a next application designated in the spin-home list, next to an originally displayed application that is displayed on the LCD display module, as a currently displayed application by executing the spin-home program and displaying the next application on the LCD display module; and using the currently displayed application as the idle screen if a confirmation key being operated."

Similar to the reasons presented above for independent claim 1, Overy and Lee fails to disclose or suggest the above-mentioned features. Further, Lim appears to be relied upon merely to disclose the recited data storage module in claim 8 and fails to remedy the deficiencies of Overy and Lee.

Therefore, Overy, Lee, and Lim fail to render amended impendent claim 8 obvious. Claims 9-10 are likewise patentable over Overy, Lee, and Lim for their dependency on independent claim 8. Withdrawal of the rejection of claims 8-10 under § 103(a) is respectfully requested.

4. Claims 11, 12, 14, and 15 are rejected under 35 U.S.C. § 103(a) as being unpatnetable over Overy and Lee in view of Lim, and further in view of Scott; and claim 13 is rejected under 35 U.S.C. § 103(a) as being unpatnetable over Overy and Lee, and further in view of Jei (US 2005/00325445). Scott appears to merely describe a method for managing contacts by arranging graphical keys in similar disposition to the keyboard of a mobile phone; and Jei appears to be relied upon to describe sending files to a display. However, Scott and Jei fail to at least cure the deficiencies of Overy, Lee, and Lim, and thus fail to render independent claim 8, from which claims 11-15 depend, obvious. Therefore, claims 11-15 are likewise patentable over applied references for their dependency on independent claim 8. Withdrawal of the rejection of claims 11-15 under § 103(a) is respectfully requested.

New Claims

New claims 16-20 are added to recite, among other things, "if the first key being operated, initiating a spin-home program" "if the second key being operated, executing the spin-home program and displaying a next application on the LCD display module," and "if the

confirmation key being operated, adopting the currently displayed application as the idle screen." Similar to the reasons presented above for claims 1 and 8, new claims 16-20 are believed to be patentable over cited references.

Conclusion

All objections and rejections having been addressed, it is respectfully submitted that the present application should be in condition for allowance and a Notice to that effect is earnestly solicited. Early issuance of a Notice of Allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicants' attorney of record, to facilitate advancement of the present application.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

LOWE HAUPTMAN HAM & BERNER, LLP

/Yoon S Ham/
Yoon S. Ham
Registration No. 45,307

Customer Number: 22429
1700 Diagonal Road, Suite 300
Alexandria, Virginia 22314
(703) 684-1111
(703) 518-5499 Facsimile
Date: November 4, 2010
YSH/TC/jr

Electronic Acknowledgement Receipt

EFS ID:	8773411
Application Number:	11911277
International Application Number:	
Confirmation Number:	5567
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin Park
Customer Number:	22429
Filer:	Yoon Ham/james rhee
Filer Authorized By:	Yoon Ham
Attorney Docket Number:	126587-0008
Receipt Date:	04-NOV-2010
Filing Date:	11-OCT-2007
Time Stamp:	17:26:48
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		101104_0008_Response.pdf	66933 89603c08ba1aee6ae364e8a5ac5e7e40df1a7929	yes	11

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	7
	Applicant Arguments/Remarks Made in an Amendment	8	11
Warnings:			
Information:			
	Total Files Size (in bytes):	66933	

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.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/911,277	10/11/2007	

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)	SMALL ENTITY ☐ RATE ($)	SMALL ENTITY ☐ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
FOR	NUMBER FILED	NUMBER EXTRA					
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	11/04/2010	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $ =		OR	X $52=	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $ =		OR	X $220=	0
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0

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

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

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

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

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

Legal Instrument Examiner:
/DEBORAH SCOTT/

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.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/911,277	10/11/2007	Youngmin Park	126587-0008	5567

22429 7590 08/05/2010

LOWE HAUPTMAN HAM & BERNER, LLP
1700 DIAGONAL ROAD
SUITE 300
ALEXANDRIA, VA 22314

EXAMINER	
SOROWAR, GOLAM	
ART UNIT	**PAPER NUMBER**
2618	

MAIL DATE	DELIVERY MODE
08/05/2010	PAPER

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.

Office Action Summary	Application No.	Applicant(s)	
	11/911,277	PARK ET AL.	
	Examiner	Art Unit	
	GOLAM SOROWAR	2618	

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *11 October 2007*.

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

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

Disposition of Claims

4)☒ Claim(s) *1-15* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-15* is/are rejected.

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

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

Application Papers

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

10)☒ The drawing(s) filed on *11 October 2007* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

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

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

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

Priority under 35 U.S.C. § 119

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

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *12/27/2007*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

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

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

2. **Claims 1-4** are rejected under 35 U.S.C. 103(a) as being unpatentable over Overy et al. (US 6363264) further in view of Lee (US 20060099938), hereinafter referenced as Overy and Lee, respectively.

3. ***Regarding claim 1***, Overy discloses, A method for providing a spin-home function (***i.e., 'interpreted as EASY operation mode', See Fig. 4)*** for a mobile communication terminal ***(Fig. 1; 1)*** having a key input module ***(Fig. 1; 9 and 10),*** a microprocessor ***(Fig. 2; 4),*** a program memory ***(Col. 3; lines 56-60 discloses a program memory),*** and an LCD display module (***Fig. 1; 5)*** so that applications are circulated and displayed on an idle screen ***(The functions of the soft keys in the idle state are dictated by the mode of operation adopted in the idle state and can be viewed in LCD display 5), col. 4; lines 14-40)***, the method comprising the steps of:

"designating at least one application as a spin-home ***(i.e., equivalent to programmed associated with 1st and 2nd Soft key, Fig. 4; 45 -50 and Col. 4; lines 57-Col. 5; lines 20)***"

"running a spin-home program stored in the program memory **(*memory***

stores the program associated with soft keys, Col. 8; lines 56-Col. 9; lines 15), when a user operates a first key button ***(Fig. 1; 45)*** for driving the spin-home program ***(depressing 1st soft key drives program associated with that key, Fig. 4 and Col. 4; lines 48-Col. 5; lines 12)*** , and displaying a first application ***(Fig. 4; 48)*** designated as the spin-home on the LCD display module ***(the associated legend is displayed in the first region of the LCD display 5, Col. 4; lines 48-Col. 5; lines 12)***".

"circulating next application ***(i.e., Program associated with 2nd soft key)*** designated as the spin-home ***(Fig. 4; 49 and 50)*** and displaying the application on the LCD display module ***(Fig. 4; 51)*** every time the user operates a second key button for circulating the idle screen ***(The microprocessor checks to see if the second soft key is programmed 49 and if the legend is programmed 50. then displays the legend associated with the 2nd soft key 51 in IDLE state, Fig. 4 and Col. 4; lines 48- Col. 5; lines 12)***".

However, Overy fails to discloses, "setting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button".

In a similar field of endeavor, Lee discloses, "setting an application currently displayed on the display module as the idle screen when the user operates a confirmation key button (***when a screen occupation task such as a video call is performed on the first display portion 110 and the second display portion 112 is in an idle mode, if the user presses the task list display key, a list of tasks currently being performed is displayed on the***

second display portion 112, Fig. 1 and Para. 33 and 43)".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify Overy by specifically providing setting an application currently displayed on the display module as the idle screen when the user operates a confirmation key button, as taught by Lee for the purpose of enhancing the functionality of the mobile communication terminal.

4. ***Regarding claim 2***, Overy and Lee disclose everything claimed as applied above (see claim 1), further Overy discloses, "an application is designated as a spin-home in accordance with user selection of a spin-home addition/deletion item of a menu item of each application (***Fig. 7 and Col. 5;lines 44-Col.6; lines 40, Overy discloses the process of changing the mode of operation in the idle state from Menu Mode)***".

5. ***Regarding claim 3***, Overy and Lee disclose everything claimed as applied above (see claim 1), further Overy discloses,

"driving a screen setup program stored in the program memory ***(i.e., equivalent to The legend MEMORY is displayed in the region 29, Col. 3; lines 45-Col. 4; lines 12)***, when the user operates a predetermined key button ***(Depression of this key will allow telephone numbers stored in the memory to be recalled by name or number, Col. 3; lines 45-Col. 4; lines 12)***, and displaying application items designated as the spin-home on the LCD display module ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-Col. 4; lines 12)***";

"toggling on/off spin-home setup of selected applications ***(i.e., interpreted as toggle between selection of the NORMAL and EASY OPERATION modes)*** in accordance with user selection when the user selects at least one of the application items displayed on the LCD display module ***(the clear key 16 could be used to cause the handset to toggle between displaying the legends of the EASY OPERATION mode and the NORMAL mode on the LCD with the corresponding changes in the functionality of the soft keys 14 and 15, Col. 7; lines 39-49)***".

6. ***Regarding claim 4***, Overy and Lee disclose everything claimed as applied above (see claim 1), further Overy discloses, "the first key button ***(Fig. 1; 14)*** for driving the spin-home program ***(program associated with first soft key, Fig. 4; 47)*** and the second key button ***(Fig. 1; 16)*** for circulating the idle screen are dedicated spin-home key buttons separately positioned on the mobile communication terminal ***(Soft keys 14 and 16 are separately positioned in the terminal 1, see Fig. 1)***".

7. **Claims 5 and 6** are rejected under 35 U.S.C. 103(a) as being unpatentable over Overy, in view of Lee and further in view of Tojo et al. (US 20040250217), hereinafter referenced as Tojo.

8. ***Regarding claim 5***, Overy and Lee disclose everything claimed as applied above (see claim 1), however the combination fails to disclose, "the first key button for driving the spin-home program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button".

In a similar field of endeavor, Tojo discloses a method for menu selection by using downward movement key and leftward/rightward movement key ***(Fig. 1 and 2 and Para 11-12).***

therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Overy and Lee, according to Tojo to provide the first key button for driving the spin-home program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement key button.

9. ***Regarding claim 6***, Overy and Lee disclose everything claimed as applied above (see claim 1), however the combination fails to disclose, "the application designated as the spin-home is selected from the group consisting of schedule management, address book, list of recently used applications, game, text message, image, moving picture, and shortcut icon screen".

In as similar field of endeavor, Tojo discloses, the application designated as the spin-home is selected from the group consisting of schedule management, address book, list of recently used applications, game, text message, image, moving picture, and shortcut icon screen ***(see Fig. 4 and Para. 38)".***

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Overy and Lee, according to Tojo to provide the application designated as the spin-home is selected from the group consisting of schedule management, address book, list of recently used applications, game, text message, image, moving picture, and shortcut icon screen.

10. **Claim 7** is rejected under 35 U.S.C. 103(a) as being unpatentable over Overy, in view of Lee and Tojo and further in view of Scott (US 20050130642), hereinafter referenced as Scott.

11. ***Regarding claim 7***, Overy, Lee and Scott disclose everything claimed as applied above (see claim 1), however the combination fails to disclose, "the address book designated as the spin-home and displayed on the LCD display module is a book selected from the group consisting of a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, and a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor"

In a similar field of endeavor, Scott discloses, "the address book designated as the spin-home and displayed on the LCD display module is a book selected from the group consisting of a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, and a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor ***(an application program operable to browse contact information, such as an address book application program. FIG. 10 is an illustration of a first contact display environment 440 in an address book application program, See Fig. 4-6 and Para. 52-58)***".

Therefore, it would be obvious to one of ordinary skills in the art at the

time of invention was made to modify the combination of Overy, Lee and Tojo, according to Scott to provide the address book designated as the spin-home and displayed on the LCD display module is a book selected from the group consisting of a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, and a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor.

12. **Claims 8-10** are rejected under 35 U.S.C. 103(a) as being unpatentable over Overy in view of Lee and further in view of Lim (US 20040204144), hereinafter referenced as Lim.

13. ***Regarding claim 8***, Overy discloses, An apparatus for providing a spin-home function (***i.e., 'interpreted as EASY operation mode', See Fig. 4)*** for a mobile communication terminal ***(Fig. 1; 1)*** comprising:

"a program memory for storing a spin-home program adapted to circulate (***memory stores the program associated with soft keys, Col. 8; lines 56-Col. 9; lines 15)*** and display at least one application designated as a spin-home when a user operates a key ***(Upon receiving input from soft keys 14 and 15, the associated legend is displayed in the first region of the LCD display 5, Col. 4; lines 48-Col. 5; lines 12)***"

"a key input module ***(Fig. 1; 10)*** for inputting characters and numbers, the key input module having a special key ***(Fig.1; 14 and 15)*** for causing a predetermined function of the mobile communication terminal to be run ***(user***

input means having a key with an associated legend for indicating the prevailing function associated therewith)".

"an LCD display module ***(Fig. 1; 5)*** for displaying the operating conditions including power utilization condition and radio wave reception strength ***(a signal strength side bar 26 indicating signal strength and a battery capacity side bar 27 indicating battery capacity, Fig. 3 and Col. 3; lines 45-52)***"

"a microprocessor ***(Fig. 2; 4)*** for running the spin-home program, when the user operates a key button for driving the spin-home program, and controlling the LCD display module so as to display a first application designated as the spin-home, the microprocessor controlling the LCD display module so as to display next application in accordance with the spin-home program when the user operates a key button for circulating an idle screen (***The microprocessor 4 then checks to see if the 1st and 2nd soft keys have been programmed 45.. If the 1st and 2nd soft keys have been programmed to hold a speed-dial number, the microprocessor checks if the legend has been programmed. If it has, the associated legend is displayed in the first region of the LCD display, Fig. 4 and Col. 4; lines 48- Col. 5; lines 12***)"

However, Overy fails to disclose, "an LCD display module (***Fig. 1; 105***) for displaying operating conditions of the mobile communication terminal together with date and time (***the second display portion 112 displays a sub-idle screen showing a date and a time, Para. 24***)".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify Overy by specifically providing an LCD

display module for displaying operating conditions of the mobile communication terminal together with date and time, as taught by Lee for the purpose of displaying date and time in the cell phone monitor.

In addition, the combination of Overy and Lee fails to disclose, "a data storage module acting as a data buffer when the spin-home program is run by the mobile communication terminal, the data storage module temporarily storing data inputted by the user or storing character or image data received by the mobile communication terminal from an outside (***the LCD interface 317 includes a buffer such that a rate of the image data to be read from the camera 40 and a rate of the image data to be written to the display unit 60 can be adjusted, and which also temporarily buffers the data in the buffer, Para. 48***)" **.**

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Overy and Lee by specifically providing a data storage module acting as a data buffer when the spin-home program is run by the mobile communication terminal, the data storage module temporarily storing data inputted by the user or storing character or image data received by the mobile communication terminal from an outside, as taught by Lim for the purpose of enhancing the functionality of the mobile communication terminal.

14. ***Regarding claim 9***, Overy, Lee and Lim disclose everything claimed as applied above (see claim 8), further Overy discloses, "the key input module ***(Fig. 1; 10)*** has a dedicated spin-home key button for driving the spin-home program

and circulating the idle screen ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-52)***".

15. ***Regarding claim 10***, Overy, Lee and Lim disclose everything claimed as applied above (see claim 8), further Overy discloses, "the program memory additionally stores a screen setup program for displaying application items **(*memory stores the program associated with soft keys, Col. 8; lines 56-Col. 9; lines 15)*** designated as the spin-home on the LCD display module ***(i.e., equivalent to the legend MEMORY is displayed in the region 29, Col. 3; lines 45-Col. 4; lines 12)***, when the user operates a predetermined key button while the mobile communication terminal is in an idle mode ***(first and second regions 28, 29 situated adjacent the soft keys 14,15 for displaying a legend indicating the prevailing function of the associated soft key, Col. 3; lines 45-Col. 4; lines 12)***, and toggling on/off spin-home setup of selected applications **(*i.e., interpreted as toggle between selection of the NORMAL and EASY OPERATION modes)*** in accordance with user selection when the user selects at least one of the application items ***(the clear key 16 could be used to cause the handset to toggle between displaying the legends of the EASY OPERATION mode and the NORMAL mode on the LCD with the corresponding changes in the functionality of the soft keys 14 and 15, Col. 7; lines 39-49)***".

16. **Claims 11, 12, 14 and 15** are rejected under 35 U.S.C. 103(a) as being unpatentable over Overy, in view of Lee and Lim and further in view Scott.

17. ***Regarding claim 11***, Overy, Lee and Lim disclose everything claimed as applied above (see claim 8), However the combination fails to disclose, "the program memory additionally stores a program for automatically managing frequently used contact addresses of the user at an interval and displaying a list of the contact addresses on the LCD display module in response to key input from the user".

In a similar field of endeavor, Scott discloses, "the program memory additionally stores a program for automatically managing frequently used contact addresses of the user at an interval and displaying a list of the contact addresses on the LCD display module in response to key input from the user ***(an application program operable to browse contact information, such as an address book application program. FIG. 10 is an illustration of a first contact display environment 440 in an address book application program, See Fig. 4-6 and Para. 52-58)***".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Overy, Lee and Lim, according to Scott to provide the program memory additionally stores a program for automatically managing frequently used contact addresses of the user at an interval and displaying a list of the contact addresses on the LCD display module in response to key input from the user.

18. ***Regarding claim 12***, Overy, Lee and Lim disclose everything claimed as applied above (see claim 8), However the combination fails to disclose, "the program memory additionally stores a program for extracting contact addresses,

shortcuts being assigned to the contact addresses by the user, and displaying a list of the contact addresses on the LCD display module in response to key input from the user"

In a similar field of endeavor, Scott discloses, "the program memory additionally stores a program for extracting contact addresses, shortcuts being assigned to the contact addresses by the user, and displaying a list of the contact addresses on the LCD display module in response to key input from the user ***(an application program operable to browse contact information, such as an address book application program. FIG. 10 is an illustration of a first contact display environment 440 in an address book application program, See Fig. 4-6 and Para. 52-58)***".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Overy, Lee and Lim, according to Scott to provide the program memory additionally stores a program for extracting contact addresses, shortcuts being assigned to the contact addresses by the user, and displaying a list of the contact addresses on the LCD display module in response to key input from the user.

19. ***Regarding claim 14***, Overy, Lee and Lim disclose everything claimed as applied above (see claim 8), However the combination fails to disclose, "the program memory additionally stores a shortcut program for assigning an icon to least one application, when the user designates the application as a shortcut, and displaying a shortcut icon screen on the LCD display module when the user selects the shortcut icon screen in an idle screen setup mode, the shortcut

program running an application corresponding to a predetermined icon when the user selects the predetermined icon via key input".

In a similar field of endeavor, Scott discloses, the program memory additionally stores a shortcut program for assigning an icon to least one application, when the user designates the application as a shortcut, and displaying a shortcut icon screen on the LCD display module when the user selects the shortcut icon screen in an idle screen setup mode, the shortcut program running an application corresponding to a predetermined icon when the user selects the predetermined icon via key input ***(an application program operable to browse contact information, such as an address book application program. FIG. 10 is an illustration of a first contact display environment 440 in an address book application program, See Fig. 4-6 and Para. 52-58)***".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Overy, Lee and Lim, according to Scott to provide the program memory additionally stores a shortcut program for assigning an icon to least one application, when the user designates the application as a shortcut, and displaying a shortcut icon screen on the LCD display module when the user selects the shortcut icon screen in an idle screen setup mode, the shortcut program running an application corresponding to a predetermined icon when the user selects the predetermined icon via key input.

20. ***Regarding claim 15***, Overy, Lee, Lim and Scott disclose everything claimed as applied above (see claim 14), "the predetermined icon is designated

by the user (***FIG. 6 is an illustration of the first display environment including a user input dialog***)"

21. **Claim 13** is rejected under 35 U.S.C. 103(a) as being unpatentable over Overy, in view of Lee and Lim and further in view of Jei.

22. ***Regarding claim 13***, Overy, Lee and Lim disclose everything claimed as applied above (see claim 8), However the combination fails to disclose, "the program memory additionally stores a program for obtaining a list of application used by the user for a period of time from present time and displaying the list on the LCD display module in response to key input from the user"

In a similar field of endeavor, Jei discloses, "the program memory additionally stores a program for obtaining a list of application used by the user for a period of time from present time and displaying the list on the LCD display module in response to key input from the user ***(Mobile telephone 1 outputs the files to its display section in the order they were stored, thereby featuring animation. If such files have been stored in the cache memory in advance however, instead of being downloaded from the server later as needed, the user will not have to wait as long for the output of the stored files to the display section, Para. 31***)".

Therefore, it would be obvious to one of ordinary skills in the art at the time of invention was made to modify the combination of Overy, Lee and Lim, according to Jei to provide the program memory additionally stores a program for obtaining a list of application used by the user for a period of time from present

time and displaying the list on the LCD display module in response to key input from the user.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GOLAM SOROWAR whose telephone number is (571)270-3761. The examiner can normally be reached on MON-FRI: 7:00 am-5:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EDWARD F. URBAN can be reached on (571) 272-7899. 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.

/GOLAM SOROWAR/
Examiner, Art Unit 2618

/Edward Urban/
Supervisory Patent Examiner, Art Unit 2618

Notice of References Cited	Application/Control No. 11/911,277	Applicant(s)/Patent Under Reexamination PARK ET AL.	
	Examiner GOLAM SOROWAR	Art Unit 2618	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,363,264 B1	03-2002	Overy et al.	455/566
*	B	US-2003/0100323 A1	05-2003	Tajima et al.	455/502
*	C	US-2004/0204144 A1	10-2004	Lim, Chae-Whan	455/566
*	D	US-2004/0250217 A1	12-2004	Tojo et al.	715/810
*	E	US-2005/0032544 A1	02-2005	Jei, Dae-Gunn	455/550.1
*	F	US-2005/0130642 A1	06-2005	Scott, Sherryl Lee Lorraine	455/418
*	G	US-2006/0099938 A1	05-2006	Lee, Chul-Min	455/418
*	H	US-2007/0155373 A1	07-2007	Kim, Hak Soo	455/418
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	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.	Applicant(s)/Patent Under Reexamination
	11911277	PARK ET AL.
	Examiner	Art Unit
	GOLAM SOROWAR	2618

SEARCHED			
Class	Subclass	Date	Examiner
455	418, 550.1	7/19/2010	GS

SEARCH NOTES		
Search Notes	Date	Examiner
EAST	7/19/2010	GS
Google Patent	7/19/2010	GS
IDS	7/19/2010	GS
STIC	7/19/2010	GS
PALM inventor search	7/19/2010	GS

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

/GOLAM SOROWAR/ Examiner, Art Unit 2618	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	4253	455/550.1.ccls.	US-PGPUB; USPAT	OR	OFF	2010/07/19 14:35
L3	2331	455/550.1.ccls. and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:35
L4	0	455/550.1.ccls. move$ key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:36
L5	0	455/550.1.ccls. move$4 key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:36
L6	4111	move$4 key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:36
L7	321	(celluler or phone or mobile) and move$4 key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:36
L8	11	(celluler or phone or mobile) and move$4 key and (down$ and left$ and right$) key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 14:37
L9	10	455/550.1.ccls. and move $ key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:45
L10	4	455/550.1.ccls. and movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:47
L11	2575	455/418.ccls.	US-PGPUB; USPAT	OR	OFF	2010/07/19 14:48
L12	1301	455/418.ccls. and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 14:49
L13	2	455/418.ccls. and movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 14:49
L14	6	455/418.ccls. and (down$ and left$ and right$) key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 14:54
L16	9	455/550.1.ccls. and (down $ and left$ and right$) key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:02
L17	1	455/550.1.ccls. and (left$ and right$) movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:09
L18	19	(left$ and right$) movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:11

L19	1	"11807032"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:17
L20	1	("7350158").PN.	USPAT; USOCR	OR	OFF	2010/07/19 15:18
L21	0	("20050278647").PN.	USPAT; USOCR	OR	OFF	2010/07/19 15:25
L22	1	("20050278647").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/19 15:25
L23	4458	movement key	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:26
L24	3594	movement key and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:26
L25	182	movement key and selec $4 with (left and right) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:27
L26	5	movement key and selec $4 with (left and right) and (downward key) and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:27
L27	2	"20060189345"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 15:41
L28	3	"2005112491"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:41
L29	2	"20040087349"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:42
L30	3	"20050138105"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:43
L31	2	"20070162872"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:43
L32	2	"20060274155"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:44
L33	9182	address book and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:57
L34	433	address book and contact address and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:58
L35	1	address book and contact address and shortcut with contact and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:58
L36	0	address book and contact address and shortcutt and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:58

L37	21	address book and contact address and shortcut and @py<"2007"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2010/07/19 15:58
L38	0	(short$cut or short cut or shortcut) address book	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:03
L39	52	(short$cut or short cut or shortcut) with address book	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:03
L40	19	(short$cut or short cut or shortcut) with address book and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:03
L41	567	address book near5 display and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:06
L42	0	contact near 4address book near5 display and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:06
L43	31	contact near4 address book near5 display and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 16:06
L44	6603	(455/550.1 or 455/418). ccls.	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:11
L45	3529	(455/550.1 or 455/418). ccls. and @py<"2007"	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:11
L46	164	(455/550.1 or 455/418). ccls. and @py<"2007" and storage (unit or module)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:12
L47	6	(455/550.1 or 455/418). ccls. and @py<"2007" and storage (unit or module) with buffe$4	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:12
L48	94	("455"/$).ccls. and @py<"2007" and storage (unit or module) with buffe $4	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:12
L49	4464	("455"/$).ccls. and @py<"2007" and buffe$4 with (character or image or data)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:13
L50	3330	("455"/$).ccls. and @py<"2007" and buffe$4 with (character or image or data) and (cellur or phone or mobile)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:13
L51	95	("455"/$).ccls. and @py<"2007" and buffe$4 with (character or image) data and (cellur or phone or mobile)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:14

L52	116	("455"/$).ccls. and @py<"2007" and buffe$4 with (character or image) data	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:15
L53	27	("455"/$).ccls. and @py<"2007" and data buffe$4 with (character or image) data	US-PGPUB; USPAT	ADJ	ON	2010/07/19 17:15
L54	4253	455/550.1.ccls.	US-PGPUB; USPAT	OR	OFF	2010/07/19 18:22
L55	2331	455/550.1.ccls. and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 18:22
L56	27	455/550.1.ccls. and cache memory and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 18:23
L57	3	455/550.1.ccls. and cache memory same display and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 18:23
S1	1	"11911277"	US-PGPUB; USPAT	OR	OFF	2010/07/19 08:31
S2	14	(PARK-YOUNGMIN.in. or KIM-HOOJONG.in.)	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:36
S3	0	(PARK-YOUNGMIN.in. or KIM-HOOJONG.in.) and spin$hom	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:39
S4	1	(PARK-YOUNGMIN.in. or KIM-HOOJONG.in.) and spin$home	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:39
S5	1	"20060095916"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:41
S6	3	(SPIN$HOME OR SPIN HOME)	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 08:43
S7	168072	(spin or spin$4 or circulat $4 or rotat$4) with function	US-PGPUB; USPAT	ADJ	ON	2010/07/19 08:45
S8	15934	(spin or spin$4 or circulat $4 or rotat$4) with function and (phone or mobile or laptop or dektop or celluler)	US-PGPUB; USPAT	ADJ	ON	2010/07/19 08:46
S9	227	(spin or spin$4 or circulat $4 or rotat$4) with function and (phone or mobile or laptop or dektop or celluler) and idle near3 state	US-PGPUB; USPAT	ADJ	ON	2010/07/19 08:47

S10	1	(spin or spin$4 or circulat $4 or rotat$4) with function with (lcd or display or monitor) and (phone or mobile or laptop or dektop or celluler) and idle near3 state	US-PGPUB; USPAT	ADJ	ON	2010/07/19 08:47
S11	1	("6363264").PN.	USPAT; USOCR	OR	OFF	2010/07/19 08:50
S12	0	("2007/0155373").URPN.	USPAT	OR	OFF	2010/07/19 08:53
S13	2	("5016002" | "6122530"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/19 08:53
S14	11	("6363264").URPN.	USPAT	OR	OFF	2010/07/19 08:53
S15	45	idle screen with (curren$4 or presen$4) with displa$4	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 10:24
S16	10	idle screen with (curren$4 or presen$4) with displa$4 and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 10:24
S17	265	idle with (curren$4 or presen$4) with displa$4 and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 10:26
S18	33	"455"/$.ccls. and idle with (curren$4 or presen$4) with displa$4 and @py<"2007"	US-PGPUB; USPAT	ADJ	OFF	2010/07/19 10:27

7/19/2010 6:59:20 PM
C:\Documents and Settings\gsorowar\My Documents\EAST\Workspaces\11911277.wsp

UNITED STATES PATENT AND TRADEMARK OFFICE

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

BIB DATA SHEET

CONFIRMATION NO. 5567

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/911,277	10/11/2007	455	2618	126587-0008

APPLICANTS

Youngmin Park, Gyeonggi-do, KOREA, REPUBLIC OF;
Hoojong Kim, Seoul, KOREA, REPUBLIC OF;

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

This application is a 371 of PCT/KR06/02302 06/15/2006

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

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****

08/12/2009

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /GOLAM SOROWAR/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		KOREA, REPUBLIC OF	5	15	2

ADDRESS

LOWE HAUPTMAN HAM & BERNER, LLP
1700 DIAGONAL ROAD
SUITE 300
ALEXANDRIA, VA 22314
UNITED STATES

TITLE

METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL

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

FORM PTO-1449 (modified)
U.S. Department of Commerce
U.S. Patent & Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Reference: 126587-0008	
Applicant: Youngmin PARK et al.	
Application Serial No. 11/911,277	
Filing Date: October 11, 2007	
Date: December 27, 2007 Page 1 of 1	Examiner: N/A / Group Art Unit: N/A

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	2006/0095916	05/2006	Nishida			
	BR						
	CR						
	DR						
	ER						
	FR						
	GR						
	HR						
	IR						
	JR						
	KR						
	LR						
	MR						
	NR						

FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country			Translation Readily Available		English Abstract	
							Enclosed	No	Enclosed	No
	OR	2001-245352	09/2001	JP				X	X	
	PR	1020030083896	04/2005	KR				X	X	
	QR									
	RR									
	SR									
	TR									
	UR									
	VR									
	WR									
	XR									

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

	YR	
	ZR	
	AAR	
	BBR	
	CCR	
	DDR	

Examiner /Golam Sorowar/ (07/19/2010) Date Considered: 07/19/2010

*EXAMINER: Initial if 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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.S./ (07/19/2010)

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/911,277	10/11/2007	Youngmin Park	126587-0008

CONFIRMATION NO. 5567

PUBLICATION NOTICE

22429
LOWE HAUPTMAN HAM & BERNER, LLP
1700 DIAGONAL ROAD
SUITE 300
ALEXANDRIA, VA 22314

OC00000038991824

Title:METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL

Publication No.US-2009-0291676-A1
Publication Date:11/26/2009

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

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

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

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

PATENT APPLICATION FEE DETERMINATION RECORD

Effective September 30, 2007 11/911,277

Application or Docket Number 126587-0008

CLAIMS AS FILED - PART I

	(Column 1)	(Column 2)	SMALL ENTITY TYPE ☐		OR	OTHER THAN SMALL ENTITY	
			RATE	FEE		RATE	FEE
U.S. NATIONAL STAGE FEES							
BASIC FEE	SMALL ENT. = $ 150	LARGE ENT. = $ 300	BASIC FEE	$155	OR	BASIC FEE	$310
EXAMINATION FEE	Satisfies PCT Article 33(1)-(4) = $ 50 / $ 100	All other situations = $ 100 / $ 200	EXAM. FEE	$105		EXAM. FEE	$210
SEARCH FEE	U.S. is ISA = $ 50 / $ 100 ALL other countries = $ 200 / $ 400	ALL other situations = $ 250 / $ 500	SEARCH FEE	$205		SEARCH FEE	$410
FEE FOR EXTRA SPEC. PGS.	32 minus 100 =	/ 50 =	X $ 130 =			X $ 260 =	
TOTAL CHARGEABLE CLAIMS	15 minus 20 =	*	X $ 25 =		OR	X $ 50 =	
INDEPENDENT CLAIMS	2 minus 3 =	*	X $ 105 =		OR	X $ 210 =	
MULTIPLE DEPENDENT CLAIM PRESENT			+ $ 185 =		OR	+ $ 370 =	
* If the difference in column 1 is less than zero, enter "0" in column 2			TOTAL		OR	TOTAL	430

CLAIMS AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA
AMENDMENT A	Total	*	Minus	**	=
	Independent	*	Minus	***	=
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM ☐				

SMALL ENTITY RATE	SMALL ENTITY ADDITIONAL FEE	OR	OTHER THAN SMALL ENTITY RATE	OTHER THAN SMALL ENTITY ADDITIONAL FEE
X $ 25 =		OR	X $ 50 =	
X $ 100 =		OR	X $ 200 =	
+ $ 180 =		OR	+ $ 360 =	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA
AMENDMENT B	Total	*	Minus	**	=
	Independent	*	Minus	***	=
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM ☐				

SMALL ENTITY RATE	SMALL ENTITY ADDITIONAL FEE	OR	OTHER THAN SMALL ENTITY RATE	OTHER THAN SMALL ENTITY ADDITIONAL FEE
X $ 25 =		OR	X $ 50 =	
X $ 100 =		OR	X $ 200 =	
+ $ 180 =		OR	+ $ 360 =	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. 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.

MULTIPLE DEPENDENT CLAIM FEE CALCULATION SHEET

(FOR USE WITH FORM PTO-875)

SERIAL NO. 11/911277

FILING DATE

APPLICANT(S)

CLAIMS

	AS FILED		AFTER 1ST AMENDMENT		AFTER 2ND AMENDMENT	
	IND.	DEP.	IND.	DEP.	IND.	DEP.
1	1					
2		1				
3						
4						
5						
6		1				
7						
8	1					
9		1				
10						
11						
12						
13		1				
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
TOTAL IND.	2	⬇		⬇		⬇
TOTAL DEP.	13	⬅		⬅		⬅
TOTAL CLAIMS	15					

	AS FILED		AFTER 1ST AMENDMENT		AFTER 2ND AMENDMENT	
	IND.	DEP.	IND.	DEP.	IND.	DEP.
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						
81						
82						
83						
84						
85						
86						
87						
88						
89						
90						
91						
92						
93						
94						
95						
96						
97						
98						
99						
100						
TOTAL IND.		⬇		⬇		⬇
TOTAL DEP.		⬅		⬅		⬅
TOTAL CLAIMS						

DO/ EO WORKSHEET

Patent Application Specialist/ National Stage Division

U.S. Appl. No. 11/911277 International Appl. No. PCT/ KR06/002302

WIPO PUBLICATION INFORMATION :

Publication No.: WO2007/145387 Publication Language : ☑ English (IA used as specification) ☐ German ☐ Japanese ☐ Chinese ☐ Korean ☐ French ☐ Spanish ☐ Russian ☐ Other : ___

Publication Date : 21 Dec 2007 Not Published : ☐ U.S. only ☐ Early Pub. Request Published : ☐ Early Pub.

INTERNATIONAL APPLICATION PAPERS IN THE APPLICATION FILE :

- ☑ International Application *(RECORD COPY)*
- ☐ Article 19 Amendments
- ☐ PCT/IPEA/409 - IPER (check Examination Authority) : ☐ EP ☐ JP ☐ SE ☐ AU ☐ US ☐ FR ☐ CN ☐ ES ☐ RU ☐ AT ☐ CA ☐ KR ☐ ___
- ☐ Annexes to 409
- ☑ PCT/ISA/237 (check Searching Authority) : ☐ EP ☐ JP ☐ SE ☐ AU ☐ US ☐ FR ☐ CN ☐ ES ☐ RU ☐ AT ☐ CA ☑ KR ☐ ___
- ☐ Other : _____
- ☑ PCT/IB/306
- ☐ Request form PCT/RO/101
- ☑ PCT/ISA/210 - Search Report (check Searching Authority) : ☐ EP ☐ JP ☐ SE ☐ AU ☑ US ☐ FR ☐ CN ☐ ES ☐ RU ☐ AT ☐ CA ☑ KR ☐ ___ ☐ NONE
- ☐ Search Report References
- ☐ Priority Document (s) No. ____ ☑ N/A ☐ Priority Document was NOT AVAILABLE at the time of paralegal review
- ☐ Other : _____

RECEIPTS FROM THE APPLICANT *(filed with the application unless noted otherwise) :*

- ☑ Basic National Fee *(or authorization to charge)*
- ☐ Description ☑ Claims ☑ Abstract
- ☑ Number of Drawing Sheets : 5
- ☐ Translation of Article 19 Amendments ☐ entered ☐ not entered : ☐ not a page for page substitution ☐ replaced by Article 34 Amendment
- ☐ Annexes to 409 ☐ entered ☐ not entered : ☐ not a page for page substitution ☐ no translation ☐ other : _____
- ☑ Application Data Sheet
- ☑ Power of Attorney
- ☐ Change of Address
- ☐ PG Pub Early Publication Request
- ☑ Express Request to Begin Nat'l Examination Procedures
- ☑ Preliminary Amendment(s) Filed on : 1. ☐ same as 371 request date 2. 11 Oct 07 3. _____
- ☑ Information Disclosure Statement(s) Filed on : 1. ☐ same as 371 request date 2. 11 Oct 07 3. _____
- ☐ Assignee Statement Under 37 CFR 3.73(b)
- ☐ Assignee PG Publication Notice
- ☐ Substitute Specification Filed on : 1. ☐ same as 371 request date 2. _____ 3. _____
- ☐ Verified Small Status Statement
- ☑ Oath/ Declaration (executed)
- ☐ Defective Oath/ Declaration ☐ unsigned ☐ no citizenship ☐ other
- ☐ DNA Diskette ☐ Sequence Listing
- ☐ Other : _____
- ☐ Other : _____

NOTES :

35 U.S.C. 371 - Receipt of Request (PTO-1390)	11 Oct 07
Date Acceptable Oath/ Declaration Received	
Date of Completion of requirements under 35 U.S.C. 371	
Date of Completion of DO/ EO 903 - Notification of Acceptance	10 Aug 09
Date of Completion of DO/ EO 905 - Notification of Missing Requirements	
Date of Completion of DO/ EO 909 - Notification of Abandonment	
Date of Completion of DO/ EO 916 - Notification of Defective Response	
Date of Completion of DO/ EO 922 - Notification to Comply w/ Requirements for Patent Applications Containing Nucleotide and/or Amino Acid Sequence Disclosures	
Date of Completion of DO/ EO 923 - Insufficient Fees	

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

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
11/911,277	Youngmin Park	126587-0008

22429
LOWE HAUPTMAN HAM & BERNER, LLP
1700 DIAGONAL ROAD
SUITE 300
ALEXANDRIA, VA 22314

INTERNATIONAL APPLICATION NO.	
PCT/KR06/02302	
I.A. FILING DATE	PRIORITY DATE
06/15/2006	

CONFIRMATION NO. 5567
371 ACCEPTANCE LETTER

OC000000037334669

Date Mailed: 08/14/2009

NOTICE OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C 371 AND 37 CFR 1.495

The applicant is hereby advised that the United States Patent and Trademark Office in its capacity as a Designated / Elected Office (37 CFR 1.495), has determined that the above identified international application has met the requirements of 35 U.S.C. 371, and is ACCEPTED for national patentability examination in the United States Patent and Trademark Office.

The United States Application Number assigned to the application is shown above and the relevant dates are:

10/11/2007	10/11/2007
DATE OF RECEIPT OF 35 U.S.C. 371(c)(1), (c)(2) and (c)(4) REQUIREMENTS	DATE OF COMPLETION OF ALL 35 U.S.C. 371 REQUIREMENTS

A Filing Receipt (PTO-103X) will be issued for the present application in due course. **THE DATE APPEARING ON THE FILING RECEIPT AS THE " FILING DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371 (c)(1), (c)(2) and (c)(4) REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN ABOVE.** *The filing date of the above identified application is the international filing date of the international application (Article 11(3) and 35 U.S.C. 363).* Once the Filing Receipt has been received, send all correspondence to the Group Art Unit designated thereon.

The following items have been received:

- Copy of the International Application filed on 10/11/2007
- Copy of the International Search Report filed on 10/11/2007
- Preliminary Amendments filed on 10/11/2007
- Information Disclosure Statements filed on 10/11/2007
- Oath or Declaration filed on 10/11/2007
- Request for Immediate Examination filed on 10/11/2007
- U.S. Basic National Fees filed on 10/11/2007
- Power of Attorney filed on 10/11/2007
- Specification filed on 10/11/2007
- Claims filed on 10/11/2007
- Abstracts filed on 10/11/2007
- Drawings filed on 10/11/2007

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

PAULETTE R KIDWELL

Telephone: (703) 756-1433

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/911,277	10/11/2007	2617	930	126587-0008	15	2

CONFIRMATION NO. 5567

22429
LOWE HAUPTMAN HAM & BERNER, LLP
1700 DIAGONAL ROAD
SUITE 300
ALEXANDRIA, VA 22314

FILING RECEIPT

OC000000037334668

Date Mailed: 08/14/2009

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

Applicant(s)

Youngmin Park, Gyeonggi-do, KOREA, REPUBLIC OF;
Hoojong Kim, Seoul, KOREA, REPUBLIC OF;

Assignment For Published Patent Application

SK TELECOM CO., LTD., Seoul, KR

Power of Attorney: The patent practitioners associated with Customer Number 22429

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/KR06/02302 06/15/2006

Foreign Applications

If Required, Foreign Filing License Granted: 08/12/2009

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 11/911,277**

Projected Publication Date: 11/26/2009

Non-Publication Request: No

Early Publication Request: No

Title

METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL

Preliminary Class

455

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

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

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

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where

the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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

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

NOT GRANTED

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

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 08/13/2009

PKIDWELL RF #30073278 Mailroom Dt: 08/13/2009 11911277

Credit Card Refund Total: $100.00

Visa XXXXXXXXXXXX9612

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2006/002302

A. CLASSIFICATION OF SUBJECT MATTER

H04B 1/40(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 8 H04B 1/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975
Utility models and applications for Utility Models since 1975
Japanese Utility Models and application for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS(KIPO internal) "mobile, phone, idle screen, set"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2003-0083896 A (LG Electronics Co. Ltd.) 01 November 2003 See abstract, Fig1-4, claims 1-5	1-15
A	US 2006/0095916 A1 (Tetsu Nishida) 4 May 2006 See abstract, Fig1-6, claims 1,7,8,12	1-15
A	JP 2001-245352 A (Matsushita Electric Ind Co. Ltd.) 07 September 2001 See abstract, Fig1-5, claims 1-7	1-15

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents,such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
26 FEBRUARY 2007 (26.02.2007)	**26 FEBRUARY 2007 (26.02.2007)**
Name and mailing address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer NAM, In Ho Telephone No. 82-42-481-8129

Form PCT/ISA/210 (second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/KR2006/002302

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR1020030083896 A	01.11.2003	None	None
US2006095916 A1	04.05.2006	None	None
JP2001-245352 A	07.09.2001	AU200123251A1	30.08.2001
		AU200123251B2	30.08.2001
		AU200123251A5	30.08.2001
		AU774322B2	24.06.2004
		CN1148088C	28.04.2004
		CN1311596A	05.09.2001
		EP01130886A2	05.09.2001
		EP01130886A3	29.10.2003
		KR1020010085733 A	07.09.2001
		US20010029193A1	11.10.2001

Form PCT/ISA/210 (patent family annex) (April 2005)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference PCT06-101	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/KR2006/002302	International filing date *(day/month/year)* 15 June 2006 (15.06.2006)	Priority date *(day/month/year)*
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant SK TELECOM CO., LTD.		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 16 December 2008 (16.12.2008)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Philippe Becamel e-mail: pt12.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
LEE, Chulhee

14F, Hyundai Marine & Fire Insurance Bldg., 646 Yeoksam-dong, Gangnam-gu, Seoul, 135-080 Republic of Korea

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing *(day/month/year)*	**26 FEBRUARY 2007 (26.02.2007)**
Applicant's or agent's file reference: PCT06-101	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/KR2006/002302	**15 JUNE 2006 (15.06.2006)**	

International Patent Classification (IPC) or both national classification and IPC

H04B 1/40(2006.01)i

Applicant

SK TELECOM CO., LTD. et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	26 FEBRUARY 2007 (26.02.2007)	NAM, In Ho Telephone No.82-42-481-812[illegible]

Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/KR2006/002302

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of :

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into _____ , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

   a. type of material

   ☐ a sequence listing

   ☐ table(s) related to the sequence listing

   b. format of material

   ☐ on paper

   ☐ in electronic form

   c. time of filing/furnishing

   ☐ contained in the international application as filed.

   ☐ filed together with the international application in electronic form.

   ☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/KR2006/002302

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-15	YES
	Claims	None	NO
Inventive step (IS)	Claims	1-15	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1-15	YES
	Claims	None	NO

2. Citations and explanations :

Reference is made to the following document:
D: KR 10-2003-0083896 A (LG Electronics Co. Ltd.) 01 November 2003

D relates to a method of setting the idle screen of a cellular phone, in which a menu screen of a specified function which a user often uses can be established in idle screen, prior to transmitting/receiving voice, which is the original function of a cellular phone. The present invention relates to a method and apparatus for providing Spin-home function of a mobile communication terminal.

I . Novelty

(1) Claim 1 of the present invention comprises: a key input unit, a microprocessor, a program memory, a data storage unit, an LCD display unit, in which applications are circulated in idle screen and the function of Spin-Home which can be displayed is provided. the method comprising the steps of: (a) more than one application is established as Spin-Home; (b) when a first key button for driving Spin-Home program from a user is inputted, the Spin-Home program is executed which is stored in the program memory, and the first application which is established as the Spin-Home is displayed in the LCD display part; (c) whenever the user inputs a second button for circulating the idle screen, the next application which is established as the Spin-Home is circulated, and the result is displayed in the LCD display part; and (d) when OK button is inputted from the user, application which is displayed in the LCD display part is established as idle screen.
Compared to the conventional technology, the present invention and D relate to a method for establishing idle screen of a mobile communication terminal. Claim 1 of the present invention comprises the steps of: (b) when a first key button for driving Spin-Home program from a user is inputted, the Spin-Home program is executed which is stored in the program memory, and the first application which is established as the Spin-Home is displayed in the LCD display part; (c) whenever the user inputs a second button for circulating the idle screen, the next application which is established as the Spin-Home is circulated, and the result is displayed in the LCD display part. However, D does not disclose the above steps.
Therefore, claim 1 of the present invention is novel under PCT Article 33(2).
Claims 2-7, dependent on claim 1, are novel and meet the requirement of PCT Article 33(2).

(2) Claim 8 of the present invention relates to an apparatus for providing Spin-home function of a mobile communication terminal. The apparatus comprises: a program memory in which when a key input is received by a user, more than one application which is established as Spin-home is circulated, and the displayed Spin-home program is stored; a data storage part in which the action as a data Buffer is executed, when performing the Spin-home program from the mobile communication terminal, inputted data which are inputted from the user are temporarily stored, or character or image data which are received to the mobile communication terminal are stored; a key input part in which character and number are inputted, and a special key for executing the specified function of the mobile communication terminal; an LCD(Liquid Crystal Display) part in which the usage status of electricity, receiving intensity of electric wave, data and time and the activation status of the mobile communication terminal are displayed; and a microprocessor for controlling the components: when a first key button for driving Spin-Home program from a user is inputted, the Spin-Home program is executed which is stored in the program memory, and the first application which is established as the Spin-Home is displayed in the LCD display par, and when the user inputs a second button for circulating the idle screen, the next application which is established as the Spin-Home is circulated, and the result is displayed in the LCD display part.

(continued on the Supplemental sheet)

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of :

Compared to the conventional technology, the present invention and D relate to a method for establishing idle screen of a mobile communication terminal. Claim 8 of the present invention comprises the steps of: a program memory in which when a key input is received by a user, more than one application which is established as Spin-home is circulated, and the displayed Spin-home program is stored; a data storage part in which the action as a data Buffer is executed, when performing the Spin-home program from the mobile communication terminal, inputted data which are inputted from the user are temporarily stored, or character or image data which are received to the mobile communication terminal are stored; a key input part in which character and number are inputted, and a special key for executing the specified function of the mobile communication terminal; an LCD(Liquid Crystal Display) part in which the usage status of electricity, receiving intensity of electric wave, data and time and the activation status of the mobile communication terminal are displayed; and a microprocessor for controlling the components: when a first key button for driving Spin-Home program from a user is inputted, the Spin-Home program is executed which is stored in the program memory, and the first application which is established as the Spin-Home is displayed in the LCD display par, and when the user inputs a second button for circulating the idle screen, the next application which is established as the Spin-Home is circulated, and the result is displayed in the LCD display part.

However, D does not disclose the above steps.

Therefore, claim 8 of the present invention is novel under PCT Article 33(2).
Claims 9-15, dependent on claim 8, are novel and meet the requirement of PCT Article 33(2).

II. Inventive Step
(1) As described above [I . novelty (1)], a method for providing 'Spin-Home' function capable of circulating applications, and of displaying said applications in the idle screen of a mobile phone is differs from a method of setting a idle screen of a mobile phone of D, in that D does not show the steps of: when a first key button for driving Spin-Home program from a user is inputted, the Spin-Home program is executed which is stored in the program memory, and the first application which is established as the Spin-Home is displayed in the LCD display part; whenever the user inputs a second button for circulating the idle screen, the next application which is established as the Spin-Home is circulated, and the result is displayed in the LCD display part.

It is not easy for a person skilled in the art to arrive at the invention by using the components of D.
Therefore, claim 1 of the present invention is considered to involve an inventive step under PCT Article 33(3).

Claims 2-7, dependent on claim 1, are considered to involve an inventive step under PCT Article 33(3).
(2) As described above [I . novelty (2)], an apparatus for providing 'Spin-Home' function capable of circulating applications, and of displaying said applications in the idle screen of a mobile phone is differs from a method of setting a idle screen of a mobile phone of D, in that D does not show the components: a program memory in which when a key input is received by a user, more than one application which is established as Spin-home is circulated, and the displayed Spin-home program is stored; a data storage part in which the action as a data Buffer is executed, when performing the Spin-home program from the mobile communication terminal, inputted data which are inputted from the user are temporarily stored, or character or image data which are received to the mobile communication terminal are stored; a key input part in which character and number are inputted, and a special key for executing the specified function of the mobile communication terminal; an LCD(Liquid Crystal Display) part in which the usage status of electricity, receiving intensity of electric wave, data and time and the activation status of the mobile communication terminal are displayed; and a microprocessor for controlling the components: when a first key button for driving Spin-Home program from a user is inputted, the Spin-Home program is executed which is stored in the program memory, and the first application which is established as the Spin-Home is displayed in the LCD display par, and when the user inputs a second button for circulating the idle screen, the next application which is established as the Spin-Home is circulated, and the result is displayed in the LCD display part.

It is not easy for a person skilled in the art to arrive at the invention by using the components of D.
Therefore, claim 8 of the present invention is considered to involve an inventive step under PCT Article 33(3).

Claims 9-15, dependent on claim 8, are considered to involve an inventive step under PCT Article 33(3).

III. Industrial Applicability
Claims 1-15 of the present invention relate to an apparatus and a method for providing 'Spin-Home' function capable of circulating applications, and of displaying the applications in the idle screen of a mobile phone. Thus, the present invention is considered to be industrially applicable according to PCT Article 33(4).

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
LEE, Chulhee

14F, Hyundai Marine & Fire Insurance Bldg., 646 Yeoksam-dong, Gangnam-gu, Seoul, 135-080 Republic of Korea

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing *(day/month/year)*	**26 FEBRUARY 2007 (26.02.2007)**
Applicant's or agent's file reference: PCT06-101	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/KR2006/002302	**15 JUNE 2006 (15.06.2006)**	

International Patent Classification (IPC) or both national classification and IPC

H04B 1/40(2006.01)i

Applicant

SK TELECOM CO., LTD. et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	26 FEBRUARY 2007 (26.02.2007)	NAM, In Ho Telephone No.82-42-481-812[illegible]

Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/KR2006/002302

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of :

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into _____ , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

   a. type of material
   - ☐ a sequence listing
   - ☐ table(s) related to the sequence listing

   b. format of material
   - ☐ on paper
   - ☐ in electronic form

   c. time of filing/furnishing
   - ☐ contained in the international application as filed.
   - ☐ filed together with the international application in electronic form.
   - ☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/KR2006/002302

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-15	YES
	Claims	None	NO
Inventive step (IS)	Claims	1-15	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1-15	YES
	Claims	None	NO

2. Citations and explanations :

Reference is made to the following document:
D: KR 10-2003-0083896 A (LG Electronics Co. Ltd.) 01 November 2003

D relates to a method of setting the idle screen of a cellular phone, in which a menu screen of a specified function which a user often uses can be established in idle screen, prior to transmitting/receiving voice, which is the original function of a cellular phone. The present invention relates to a method and apparatus for providing Spin-home function of a mobile communication terminal.

1. Novelty

(1) Claim 1 of the present invention comprises: a key input unit, a microprocessor, a program memory, a data storage unit, an LCD display unit, in which applications are circulated in idle screen and the function of Spin-Home which can be displayed is provided, the method comprising the steps of: (a) more than one application is established as Spin-Home; (b) when a first key button for driving Spin-Home program from a user is inputted, the Spin-Home program is executed which is stored in the program memory, and the first application which is established as the Spin-Home is displayed in the LCD display part; (c) whenever the user inputs a second button for circulating the idle screen, the next application which is established as the Spin-Home is circulated, and the result is displayed in the LCD display part; and (d) when OK button is inputted from the user, application which is displayed in the LCD display part is established as idle screen.
Compared to the conventional technology, the present invention and D relate to a method for establishing idle screen of a mobile communication terminal. Claim 1 of the present invention comprises the steps of: (b) when a first key button for driving Spin-Home program from a user is inputted, the Spin-Home program is executed which is stored in the program memory, and the first application which is established as the Spin-Home is displayed in the LCD display part; (c) whenever the user inputs a second button for circulating the idle screen, the next application which is established as the Spin-Home is circulated, and the result is displayed in the LCD display part. However, D does not disclose the above steps.
Therefore, claim 1 of the present invention is novel under PCT Article 33(2).
Claims 2-7, dependent on claim 1, are novel and meet the requirement of PCT Article 33(2).

(2) Claim 8 of the present invention relates to an apparatus for providing Spin-home function of a mobile communication terminal. The apparatus comprises: a program memory in which when a key input is received by a user, more than one application which is established as Spin-home is circulated, and the displayed Spin-home program is stored; a data storage part in which the action as a data Buffer is executed, when performing the Spin-home program from the mobile communication terminal, inputted data which are inputted from the user are temporarily stored, or character or image data which are received to the mobile communication terminal are stored; a key input part in which character and number are inputted, and a special key for executing the specified function of the mobile communication terminal; an LCD(Liquid Crystal Display) part in which the usage status of electricity, receiving intensity of electric wave, data and time and the activation status of the mobile communication terminal are displayed; and a microprocessor for controlling the components: when a first key button for driving Spin-Home program from a user is inputted, the Spin-Home program is executed which is stored in the program memory, and the first application which is established as the Spin-Home is displayed in the LCD display par, and when the user inputs a second button for circulating the idle screen, the next application which is established as the Spin-Home is circulated, and the result is displayed in the LCD display part.

(continued on the Supplemental sheet)

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of :

Compared to the conventional technology, the present invention and D relate to a method for establishing idle screen of a mobile communication terminal. Claim 8 of the present invention comprises the steps of: a program memory in which when a key input is received by a user, more than one application which is established as Spin-home is circulated, and the displayed Spin-home program is stored; a data storage part in which the action as a data Buffer is executed, when performing the Spin-home program from the mobile communication terminal, inputted data which are inputted from the user are temporarily stored, or character or image data which are received to the mobile communication terminal are stored; a key input part in which character and number are inputted, and a special key for executing the specified function of the mobile communication terminal; an LCD(Liquid Crystal Display) part in which the usage status of electricity, receiving intensity of electric wave, data and time and the activation status of the mobile communication terminal are displayed; and a microprocessor for controlling the components: when a first key button for driving Spin-Home program from a user is inputted, the Spin-Home program is executed which is stored in the program memory, and the first application which is established as the Spin-Home is displayed in the LCD display par, and when the user inputs a second button for circulating the idle screen, the next application which is established as the Spin-Home is circulated, and the result is displayed in the LCD display part.

However, D does not disclose the above steps.

Therefore, claim 8 of the present invention is novel under PCT Article 33(2).
Claims 9-15, dependent on claim 8, are novel and meet the requirement of PCT Article 33(2).

II. Inventive Step
(1) As described above [I . novelty (1)], a method for providing 'Spin-Home' function capable of circulating applications, and of displaying said applications in the idle screen of a mobile phone is differs from a method of setting a idle screen of a mobile phone of D, in that D does not show the steps of: when a first key button for driving Spin-Home program from a user is inputted, the Spin-Home program is executed which is stored in the program memory, and the first application which is established as the Spin-Home is displayed in the LCD display part; whenever the user inputs a second button for circulating the idle screen, the next application which is established as the Spin-Home is circulated, and the result is displayed in the LCD display part.

It is not easy for a person skilled in the art to arrive at the invention by using the components of D.
Therefore, claim 1 of the present invention is considered to involve an inventive step under PCT Article 33(3).

Claims 2-7, dependent on claim 1, are considered to involve an inventive step under PCT Article 33(3).
(2) As described above [I . novelty (2)], an apparatus for providing 'Spin-Home' function capable of circulating applications, and of displaying said applications in the idle screen of a mobile phone is differs from a method of setting a idle screen of a mobile phone of D, in that D does not show the components: a program memory in which when a key input is received by a user, more than one application which is established as Spin-home is circulated, and the displayed Spin-home program is stored; a data storage part in which the action as a data Buffer is executed, when performing the Spin-home program from the mobile communication terminal, inputted data which are inputted from the user are temporarily stored, or character or image data which are received to the mobile communication terminal are stored; a key input part in which character and number are inputted, and a special key for executing the specified function of the mobile communication terminal; an LCD(Liquid Crystal Display) part in which the usage status of electricity, receiving intensity of electric wave, data and time and the activation status of the mobile communication terminal are displayed; and a microprocessor for controlling the components: when a first key button for driving Spin-Home program from a user is inputted, the Spin-Home program is executed which is stored in the program memory, and the first application which is established as the Spin-Home is displayed in the LCD display par, and when the user inputs a second button for circulating the idle screen, the next application which is established as the Spin-Home is circulated, and the result is displayed in the LCD display part.

It is not easy for a person skilled in the art to arrive at the invention by using the components of D.
Therefore, claim 8 of the present invention is considered to involve an inventive step under PCT Article 33(3).

Claims 9-15, dependent on claim 8, are considered to involve an inventive step under PCT Article 33(3).

III. Industrial Applicability
Claims 1-15 of the present invention relate to an apparatus and a method for providing 'Spin-Home' function capable of circulating applications, and of displaying the applications in the idle screen of a mobile phone. Thus, the present invention is considered to be industrially applicable according to PCT Article 33(4).

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92*bis*.1 and Administrative Instructions, Section 422)

To:

LEE, Chulhee
Veritas Patent & Law Office
5F, Donggung Bldg.
647-13, Yeoksam-dong
Gangnam-gu
Seoul 135-911
RÉPUBLIQUE DE CORÉE

Date of mailing *(day/month/year)*
22 August 2007 (22.08.2007)

Applicant's or agent's file reference
PCT06-101

IMPORTANT NOTIFICATION

International application No.
PCT/KR2006/002302

International filing date *(day/month/year)*
15 June 2006 (15.06.2006)

1. The following indications appeared on record concerning:

☐ the applicant ☐ the inventor ☒ the agent ☐ the common representative

Name and Address
LEE, Chulhee
14F, Hyundai Marine & Fire
Insurance Bldg., 646
Yeoksam-dong, Gangnam-gu
Seoul, 135-080
Republic of Korea

State of Nationality:
State of Residence:
Telephone No.: 82-2-2009-7575
Facsimile No.: 82-2-2009-7579
Teleprinter No.:

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☐ the name ☒ the address ☐ the nationality ☐ the residence

Name and Address
LEE, Chulhee
Veritas Patent & Law Office
5F, Donggung Bldg.
647-13, Yeoksam-dong
Gangnam-gu
Seoul 135-911
Republic of Korea

State of Nationality:
State of Residence:
Telephone No.: +82-2-561-7272
Facsimile No.: +82-2-561-7979
Teleprinter No.:

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

☒ the receiving Office
☐ the International Searching Authority
☐ the International Preliminary Examining Authority
☐ the designated Offices concerned
☐ the elected Offices concerned
☐ other:

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 70 90

Authorized officer
Ha Kinam
e-mail pt12.pct@wipo.int
Telephone No. +41 22 338 74 12

PCT REQUEST

Print Out (Original in Electronic Form)

0	**For receiving Office use only**	
0-1	International Application No.	PCT/KR2006/002302
0-2	International Filing Date	**15 June 2006 (15.06.2006)**
0-3	Name of receiving Office and "PCT International Application"	

0-4	**Form PCT/RO/101 PCT Request**	
0-4-1	Prepared Using	
0-5	**Petition**	
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	**Receiving Office (specified by the applicant)**	**Korean Intellectual Property Office (RO/KR)**
0-7	**Applicant's or agent's file reference**	**PCT06-101**
I	**Title of Invention**	**METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL**
II	**Applicant**	
II-1	This person is	**applicant only**
II-2	Applicant for	**all designated States except US**
II-4	Name	**SK TELECOM CO., LTD.**
II-5	Address	**11 Euljiro 2-ga, Jung-gu, Seoul,100-999 Republic of Korea**
II-6	State of nationality	**KR**
II-7	State of residence	**KR**
II-8	Telephone No.	**82-2-6100-3451**
II-9	Facsimile No.	**82-2-6100-7881**
II-10	e-mail	**kookiya@sktelecom.com**
II-11	Applicant's registration No. with the Office	**1-1998-004296-6**

PCT REQUEST

Print Out (Original in Electronic Form)

III-1	**Applicant and/or inventor**	
III-1-1	This person is	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	PARK, Youngmin
III-1-5	Address	121-701, JangmimaeulKolon Apt., Yatap-dong, Bundang-gu, Seongnam-si, Gyeonggi-do,463-788 Republic of Korea
III-1-6	State of nationality	KR
III-1-7	State of residence	KR
III-2	**Applicant and/or inventor**	
III-2-1	This person is	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	KIM, Hoojong
III-2-5	Address	7-108, Gaepo 1cha Woosung Apt., 503 Daechi1- dong, Gangnam-gu, Seoul,135-281 Republic of Korea
III-2-6	State of nationality	KR
III-2-7	State of residence	KR
IV-1	**Agent or common representative; or address for correspondence**	
	The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	LEE, Chulhee
IV-1-2	Address	14F, Hyundai Marine & Fire Insurance Bldg., 646 Yeoksam-dong, Gangnam-gu, Seoul,135-080 Republic of Korea
IV-1-3	Telephone No.	82-2-2009-7575
IV-1-4	Facsimile No.	82-2-2009-7579
IV-1-5	e-mail	chlee@veritaspatent.com
IV-1-6	Agent's registration No.	9-1998-000480-5
IV-2	**Additional agent(s)**	additional agent(s) with same address as first named agent
IV-2-1	Name(s)	SONG,Haemo(9-2002-000179-4)

PCT REQUEST

Print Out (Original in Electronic Form)

V	**DESIGNATIONS**		
V-1	**The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.**		
VI-1	**Priority Claim**	NONE	
VII-1	**International Searching Authority Chosen**	Korean Intellectual Property Office (ISA/KR)	
VIII	**Declarations**	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	–	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	–	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	–	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	–	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	–	
IX	**Check list**	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	4	✓
IX-2	Description	9	✓
IX-3	Claims	4	✓
IX-4	Abstract	1	✓
IX-5	Drawings	5	✓
IX-7	TOTAL	23	
	Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	–	✓
IX-11	Copy of general power of attorney	–	✓
IX-11	Copy of general power of attorney	–	✓
IX-11	Copy of general power of attorney	–	✓
IX-17	PCT-SAFE physical media	–	–
IX-19	**Figure of the drawings which should accompany the abstract**		
IX-20	**Language of filing of the international application**	Korean	

PCT REQUEST

Print Out (Original in Electronic Form)

X-1	**Signature of applicant, agent or common representative**	(PKCS7 Digital Signature)
X-1-1	Name (LAST, First)	LEE, Chulhee
X-1-2	Name of signatory	
X-1-3	Capacity	

FOR RECEIVING OFFICE USE ONLY

10-1	**Date of actual receipt of the purported international application**	15 June 2006 (15.06.2006)
10-2	**Drawings:**	
10-2-1	Received	
10-2-2	Not received	
10-3	**Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application**	
10-4	**Date of timely receipt of the required corrections under PCT Article 11(2)**	
10-5	**International Searching Authority**	ISA/KR
10-6	**Transmittal of search copy delayed until search fee is paid**	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	**Date of receipt of the record copy by the International Bureau**	

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 December 2007 (21.12.2007)

PCT

(10) International Publication Number
WO 2007/145387 A1

(51) International Patent Classification:
H04B 1/40 (2006.01)

(21) International Application Number:
PCT/KR2006/002302

(22) International Filing Date: 15 June 2006 (15.06.2006)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant *(for all designated States except US)*: **SK TELECOM CO., LTD.** [KR/KR]; 11, Euljiro 2-ga, Jung-gu, Seoul, 100-999 (KR).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **PARK, Youngmin** [KR/KR]; 121-701, JangmimaeulKolon Apt., Yatap-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-788 (KR). **KIM, Hoojong** [KR/KR]; 7-108, Gaepo 1cha Woosung Apt., 503, Daechi1- Dong, Gangnam-gu, Seoul, 135-281 (KR).

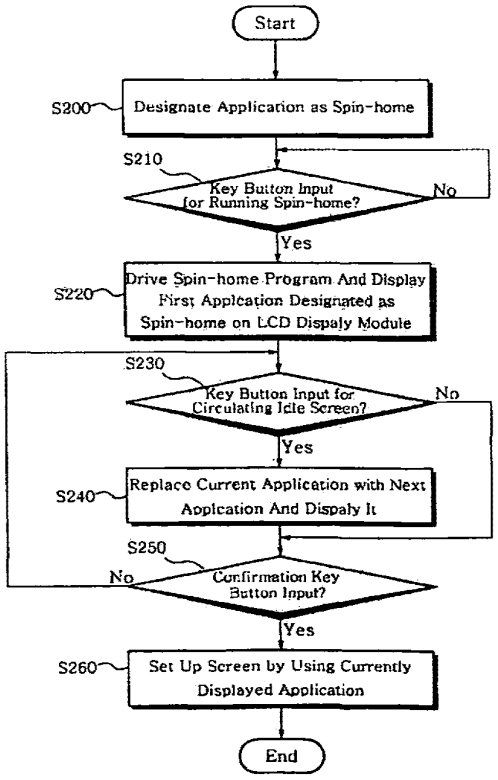
(74) Agents: **LEE, Chulhee** et al.; Veritas Patent & Law Office, 5F, Donggung Bldg., 647-13, Yeoksam-dong, Gangnam-gu, Seoul 135-911 (KR).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL



(57) Abstract: Disclosed is a method and an apparatus for providing a spin-home function for a mobile communication terminal. The method for providing a spin-home function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module so that applications are circulated and displayed on an idle screen includes the steps of (a) designating at least one application as a spin-home; (b) running a spin-home program stored in the program memory, when a user operates a first key button for driving the spin-home program, and displaying a first application designated as the spin-home on the LCD display module; (c) circulating next application designated as the spin-home and displaying the application on the LCD display module every time the user operates a second key button for circulating the idle screen; and (d) setting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button. Even when an application is currently used for the idle screen, it can be easily replaced with another application by single key input The idle screen setup can also be easily modified.

WO 2007/145387 A1

FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL

Technical Field

The present invention relates to an apparatus and a method for providing a spin-home function for a mobile communication terminal. More particularly, the present invention relates to an apparatus and a method for providing a spin-home function for a mobile communication terminal so that, when a user of the mobile communication terminal, which includes a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module, designates an application, which is stored in the program memory, as a spin-home and runs a spin-home program, the application, which has been designated as the spin-home, is circulated and displayed on the LCD display module every time the user operates a specific key.

Background Art

As generally known in the art, mobile communication systems have evolved from 1st generation analog AMPS (Advanced

Mobile Phone System) and 2nd generation cellular/PCS (Personal Communication Service) systems into 3rd generation IMT-2000 (International Mobile Telecommunication 2000), which has been recently standardized by ITU-R and commercialized in line with development in information/communication technologies. The IMT-2000 includes CDMA 2000 1X, 3X, EV-DO, and WCDMA (Wideband CDMA) and uses an IS-95SC network, which has evolved from conventional IS-95A and IS-95B networks, so that it can provide a wireless Internet service at a maximum data transmission rate of 144 Kbps, which is substantially faster than that of the IS-95A or IS-95B network (14.4 Kbps or 56 Kbps). Particularly, the IMT-2000 not only improves the quality of conventional voice communication service and WBS (Wireless Broadcasting Service), but also provides various multimedia services (e.g. AOD, VOD) at a faster speed.

Such evolution of mobile communication systems are followed by evolution of mobile communication terminals into multipurpose devices, which can provide various types of applications in addition to basic voice communication. Users can download various pieces of multimedia data, such as images, moving pictures, music, and games, and run the data by using mobile communication terminals. Mobile communication terminals incorporate various types of

convenient functions (e.g. electronic organizer, photo editor, camera). In addition, mobile communication terminals can realize colorful graphic environment on the idle screen, as a result of improved performance of LCD drivers.

The idle screen is a starting point for using various applications provided by mobile communication terminals. Furthermore, each user can decorate the idle screen with his favorite photo, image, or animation and express his own personality.

Particularly, a user of a conventional mobile communication terminal can download a photo, image, or animation from the service provider and decorate the idle screen with it by using a WAP script. Alternatively, the user may set up the idle screen by downloading a non-interactive application (phone theme) or an interactive application (e.g. "1mm" or "MoA" service available from SK Telecom., Inc.) and installing it.

Korean Registered Patent No. 10-0486516 discloses a method for using a frequently-used application (e.g. schedule management, text message, address book) for the idle screen of a mobile communication terminal so that its user can directly run the application without complicated steps of operation. This method seeks to enhance the functionality

of the mobile communication terminal, in addition to enabling the user to set up the idle screen as desired in an attempt to express his personality.

However, conventional methods for setting up the idle screen have the following problems.

First, once an application is used for the idle screen, it is impossible to present another application on the same idle screen.

Second, when another application is to be used for the idle screen, tree-structured menu items must be searched through a number of steps, which renders it inconvenient to modify the idle screen.

Third, although basic applications (e.g. address book, text message) may be given shortcuts on the key input module for direct access, the limited number of key buttons on the terminal makes it impossible to assign shortcuts to all of the ever-increasing applications.

Disclosure of the Invention

Accordingly, the present invention has been made to solve the above-mentioned problems occurring in the prior art, and an object of the present invention is to provide an apparatus and a method for providing a spin-home function

for a mobile communication terminal so that, when a user of the mobile communication terminal, which includes a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module, designates an application, which is stored in the program memory, as a spin-home and runs a spin-home program, the application, which has been designated as the spin-home, is circulated and displayed on the LCD display module every time the user operates a specific key.

In order to accomplish this object, there is provided a method for providing a spin-home function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module so that applications are circulated and displayed on an idle screen, the method including the steps of (a) designating at least one application as a spin-home; (b) running a spin-home program stored in the program memory, when a user operates a first key button for driving the spin-home program, and displaying a first application designated as the spin-home on the LCD display module; (c) circulating next application designated as the spin-home and displaying the application on the LCD display module every time the user operates a second key button for circulating the idle screen; and (d) setting an application currently

displayed on the LCD display module as the idle screen when the user operates a confirmation key button.

In accordance with another aspect of the present invention, there is provided an apparatus for providing a spin-home function for a mobile communication terminal, the apparatus including a program memory for storing a spin-home program adapted to circulate and display at least one application designated as a spin-home when a user operates a key; a data storage module acting as a data buffer when the spin-home program is run by the mobile communication terminal, the data storage module temporarily storing data inputted by the user or storing character or image data received by the mobile communication terminal from an outside; a key input module for inputting characters and numbers, the key input module having a special key for causing a predetermined function of the mobile communication terminal to be run; an LCD display module for displaying operating conditions of the mobile communication terminal together with date and time, the operating conditions including power utilization condition and radio wave reception strength; and a microprocessor for running the spin-home program, when the user operates a key button for driving the spin-home program, and controlling the LCD display module so as to display a first application designated as the spin-home, the

microprocessor controlling the LCD display module so as to display next application in accordance with the spin-home program when the user operates a key button for circulating an idle screen.

BRIEF DESCRIPTION OF THE DRAWINGS

The above and other objects, features and advantages of the present invention will be more apparent from the following detailed description taken in conjunction with the accompanying drawings, in which:

FIG. 1 shows the construction of a mobile communication terminal according to a preferred embodiment of the present invention;

FIG. 2 is a flowchart showing a method for providing a spin-home for a mobile communication terminal according to a preferred embodiment of the present invention;

FIGs. 3a to 3d show the screen of a mobile communication terminal, which has a dedicated spin-home key button, when the terminal provides a spin-home function;

FIGs. 4a to 4f show the screen of a mobile communication terminal, which has conventional key buttons, when the terminal provides a spin-home function; and

FIGs. 5a and 5b show the screen of a mobile communication

terminal when a screen setup program is run.

Best Mode for Carrying Out the Invention

Hereinafter, a preferred embodiment of the present invention will be described with reference to the accompanying drawings. In the following description and drawings, the same reference numerals are used to designate the same or similar components, and so repetition of the description on the same or similar components will be omitted.

FIG. 1 shows the construction of a mobile communication terminal according to a preferred embodiment of the present invention.

A mobile communication terminal 100 according to a preferred embodiment of the present invention includes a program memory 102; a key input module 104; an LCD display module 106; a data storage module 108; a mode state storage module 110; a subscriber identity module 112; a microprocessor 114; a digital signal processor 116; a baseband converter 118; a speaker 120; a microphone 122; an RF (radio frequency) signal processor 124; and an antenna 126.

The key input module 104 according to a preferred embodiment of the present invention has numeric keys for inputting numbers (e.g. telephone numbers), character keys for

inputting characters, function keys for performing specific functions, and direction keys. When the user presses a key button, the key input module 104 generates key data, which corresponds to the pressed key button, and transmits the data to the microprocessor 114. Particularly, the key input module 104 may separately have a dedicated spin-home key button for providing a spin-home function.

The program memory 102 according to a preferred embodiment of the present invention stores a protocol software for processing messages transmitted/received to/from a mobile communication network, an operating system, a control program for controlling the overall operation of the mobile communication terminal, and applications. Particularly, the program memory 102 stores a spin-home program for circulating at least one application, which has been designated as a spin-home, and displaying it on the LCD display module 106 when the user operates the dedicated spin-home key button, which is separately installed on the key input module 102, or one of existing key buttons.

Preferably, the program memory 102 additionally stores a screen setup program for displaying application items, which have been designated as the spin-home, on the LCD display module when the user operates a specific key button while the mobile communication terminal is in an idle mode. When

the user selects one or more of the items, the spin-home setup of the selected application is toggled on/off in accordance with the user's selection.

The program memory 102 may store a program for managing the contact addresses of persons, with whom the user of the mobile communication terminal 100 makes frequent contact, and displaying the list of a predetermined number of contact addresses in the order of frequent contact on the LCD display module 106 when the user operates a specific key. In addition, the program memory 102 may store a program for extracting contact addresses, to which shortcuts have been assigned, and displaying the list of contact addresses on the LCD display module 106 when the user operates a specific key.

The program memory 102 may also contain a program for creating a list of recently used applications and displaying it on the LCD display module 106.

In addition, the program memory 102 preferably stores a shortcut program for implementing a function similar to that of shortcut icons on the base screen of conventional computers. Particularly, when the user assigns a shortcut to at least one application, an icon is designated for the application. When the user operates a key for selecting a shortcut icon screen in an idle mode, the LCD display module

106 displays the shortcut on the screen. When the user selects a specific icon on the shortcut icon screen, a corresponding application is driven. Although the program automatically designates an icon for the application in this case, the user may select a desired icon.

The program memory 120 for storing various programs may be an EEPROM (electrically erasable and programmable read only memory), for example, which can not only read, but also electrically erase recorded data and rerecord data. Each program may be implemented by using a C programming language, objected-oriented C++, or JAVA, depending on the operating system supported by the mobile communication terminal.

Any of the above-mentioned list of frequently used contact addresses, list of contact addresses having shortcuts assigned thereto, list of recently used application, and shortcut icon screen may be designated as the spin-home, which is displayed on the LCD display module 106 one by one every time the user operates a key button for circulating the idle screen.

The data storage module 108 according to a preferred embodiment of the present invention usually acts as a data buffer when the mobile communication terminal 100 runs a program. The data storage module 108 temporarily stores data inputted by the key input module 102. In addition, the

data storage module 108 stores other pieces of data, including characters and images received by the mobile communication terminal 100 from the outside. The data storage module 108 may be a RAM (random access memory), for example.

The LCD display module 106 according to a preferred embodiment of the present invention displays the operating conditions of the mobile communication terminal 100, including power utilization and radio wave reception strength, together with date and time. When the user operates a key button for circulating the idle screen, the LCD display module 106 replaces the application, which has been designated as the spin-home, with a new one and displays it.

The microprocessor 114 according to a preferred embodiment of the present invention controls the overall operation of the mobile communication terminal 100 in accordance with a state flag stored in the mode state storage module 110. Particularly, when the user operates a key button for running a spin-home program and generates a corresponding signal, the microprocessor 114 reads the signal and outputs a spin-home program, which is stored in the program memory 102, to the data storage module 108. Then, the program is run. The microprocessor 114 loads a first application,

which has been designated as a spin-home, onto the data storage module in accordance with the program and controls the LCD display module so as to display the application. When the user operates a key button for circulating the idle screen, the microprocessor loads the next application, which has been designated as the spin-home, onto the data storage module in accordance with the spin-home program, which is currently run. Then, the microprocessor controls the LCD display module so as to replace the first application with the next application and display it.

The key button for running the spin-home program or circulating the idle screen may be a dedicated spin-home key button separately installed on the key input module 102 of the mobile communication terminal 100, as mentioned above. Alternatively, existing key buttons may be used to implement the function of the dedicated spin-home key button. For example, when a downward movement button is operated while the mobile communication terminal 100 is in an idle mode, the spin-home program is driven. When a leftward or rightward movement button is operated in this condition, the LCD display module 106 circulates and displays each application, which has been designated as the spin-home, as will be described later in more detail.

The mode state storage module 110 stores the current

operating mode of the mobile communication terminal 100 as a state flag (0, 1, 2...) in accordance with the selection made via the key input module 102. The subscriber identity module 112 stores subscriber registration information (e.g. proper number, personal security key), which is allocated to each subscriber's terminal.

The digital signal processor (hereinafter, referred to as DSP) 116 acts as an equalizer for coding or decoding audio signals and removing multi-path noise, in addition to processing audio data. The DSP 116 transmits/receives audio data SPEECH to/from the baseband converter 118. In addition, the DSP 116 receives digital data RX DATA from the baseband converter 118.

The baseband converter 118 converts signals, which are transmitted/received among the RF signal processor 124, the DSP 116, the speaker 120, and the microphone 122, into baseband signals through DAC (digital to analog conversion) and ADC (analog to digital conversion). The baseband converter 118 sends transmission data TXIQ to the RF signal processor 124 and controls the power POWER of the RF signal processor 124 or automatically controls its gain AGC. In addition, the baseband signal processor 124 gets reception signal RXIQ from the RF signal processor 124.

The RF signal processor 124 demodulates and amplifies RF

signals received from the antenna 126. In addition, the RF signal processor 124 modulates transmission signals from the baseband converter 118 and emits them into propagation space. The speaker 120 outputs audible sound based on the audio data from the baseband converter 118 and converts the user's voice input into electric signals.

The antenna 126 receives signals from the RF signal processor 124 and transmits them to the outside, and vice versa.

FIG. 2 is a flowchart showing a method for providing a spin-home for a mobile communication terminal according to a preferred embodiment of the present invention.

The user of the mobile communication terminal 100 designates at least one application as a spin-home (S200). Particularly, the user selects a spin-home addition/deletion item from menu items of each application and generates a corresponding signal. Then, the microprocessor 114 reads the signal and adds/deletes spin-home number data to/from the selected application. When a spin-home program is run at a later time, each application is circulated and displayed in the order of its number. The user may drive a screen setup program and conveniently modify the spin-home on/off setup of the application, which has been designated as the spin-home. Particularly, when a specific key button

(e.g. upward movement key button) is operated while the mobile communication terminal 100 is in an idle mode and a corresponding signal is generated, the microprocessor 114 reads the signal and outputs a screen setup program to the data storage module 108, which is then run. In addition, the microprocessor 114 displays application items, which have been designated as the spin-home, on the LCD display module 106. Then, the user selects at least one of the displayed items and generates a corresponding signal. The microprocessor 114 reads the signal and toggles on/off the spin-home setup of the selected application. If the spin-home setup of an application is toggled off, it is not displayed on the LCD display module 106 even when the spin-home program is run.

Applications designated as the spin-home include schedule management, address book, list of recently used applications, game, text message, and shortcut icon screen, as well as image or moving picture in a broader sense. In the case of address book, the contact address of a specific person, which has been selected by the user, may be designated as the spin-home. It is also possible to designate the contact addresses of persons, which have shortcuts assigned thereto, or a number of frequently used contact addresses, which have been automatically selected by the microprocessor, as the

spin-home.

The microprocessor 114 monitors if the key button for driving the spin-home program is operated (S210). When the key button is operated, the microprocessor 114 drives the spin-home program and displays the first application (i.e. application having the smallest spin-home number) of the applications, which have been designated as the spin-home, on the LCD display module 106 (S220).

When the user operates the key button for circulating the idle screen and generates a corresponding signal, the microprocessor 114 reads the signal (S230). Then, the microprocessor 114 replaces the first application with the next application, which has been designated as the spin-home, and displays it on the LCD display module 106 (S240).

When the user operates the confirmation key button OK, the microprocessor 114 sets up the idle screen by using the application, which is currently displayed on the LCD display module 106 (S250, S260). Otherwise, the microprocessor 114 returns to step S230.

FIGs. 3a to 3d show the screen of a mobile communication terminal, which has a dedicated spin-home key button, when the terminal provides a spin-home function.

FIG. 3a shows the screen in an idle mode before the spin-home program is run. When the dedicated spin-home key

button is operated, the spin-home program is run. At the same time, the screen is switched to a shortcut icon screen, which has a spin-home number of 1, as shown in FIG. 3b. Every time the dedicated spin-home button is operated, the schedule management (FIG. 3c), which has a spin-home number of 2, and the list of contact addresses of friends (FIG. 3d), which has a spin-home number of 3, are circulated and displayed.

FIGs. 4a to 4f show the screen of a mobile communication terminal, which has conventional key buttons, when the terminal provides a spin-home function.

FIG. 4a shows the screen in an idle mode before the spin-home program is run. When the confirmation key button is operated in the idle mode, the terminal accesses a wireless Internet service (e.g. Nate®). When the downward movement key button is operated in the idle mode, the spin-home program is run and switches the screen to a spin-home screen, as shown in FIG. 4b. Every time the leftward movement key button is operated, applications having a spin-home number of 2 and 1, respectively, are circulated and displayed (FIGs. 4c and 4d). Similarly, every time the rightward movement key button is operated, applications having a spin-home number of 4 and 5, respectively, are circulated and displayed (FIGs. 4e and 4f).

Although the leftward or rightward movement key button is operated to circulate and display the applications, which have been designated as the spin-home, in FIGs. 4a to 4f, the role of each key button is not limited to that in the present invention. For example, the downward movement key button may be operated to run the spin-home program and display the application, which has the smallest spin-home number. In addition, the left or rightward movement key button may be operated to circulate and display the applications in the ascending or descending order of spin-home number.

FIGs. 5a and 5b show the screen of a mobile communication terminal when a screen setup program is run.

When a specific key button (e.g. upward movement key button) is operated in an idle mode (FIG. 5a), the screen setup program is run and displays application items, which have been designated as the spin-home, as shown in FIG. 5b. By selecting desired items, the spin-home setup of selected applications is toggled on/off in a convenient manner.

Although a preferred embodiment of the present invention has been described for illustrative purposes, those skilled in the art will appreciate that various modifications, additions and substitutions are possible, without departing from the scope and spirit of the invention as disclosed in

the accompanying claims.

Industrial Applicability

As mentioned above, the present invention is advantageous in that, even when an application is currently used for the idle screen, it can be easily replaced with another application by single key input. The idle screen setup can also be easily modified.

In addition, various applications (e.g. image, animation, address book, schedule management) can be conveniently circulated and displayed on the idle screen without using shortcuts to run the applications.

Exhibit 1014
Page 391 of 476

Claims

1. A method for providing a spin-home function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module so that applications are circulated and displayed on an idle screen, the method comprising the steps of:

(a) designating at least one application as a spin-home;

(b) running a spin-home program stored in the program memory, when a user operates a first key button for driving the spin-home program, and displaying a first application designated as the spin-home on the LCD display module;

(c) circulating next application designated as the spin-home and displaying the application on the LCD display module every time the user operates a second key button for circulating the idle screen; and

(d) setting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button.

2. The method as claimed in claim 1, wherein, in step (a), an application is designated as a spin-home in accordance

with user selection of a spin-home addition/deletion item of a menu item of each application.

3. The method as claimed in claim 1, wherein step (a) includes the steps of:

(a1) driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying application items designated as the spin-home on the LCD display module; and

(a2) toggling on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items displayed on the LCD display module.

4. The method as claimed in claim 1, wherein the first key button for driving the spin-home program and the second key button for circulating the idle screen are dedicated spin-home key buttons separately positioned on the mobile communication terminal.

5. The method as claimed in claim 1, wherein the first key button for driving the spin-home program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement

key button.

6. The method as claimed in claim 1, wherein the application designated as the spin-home is selected from the group consisting of schedule management, address book, list of recently used applications, game, text message, image, moving picture, and shortcut icon screen.

7. The method as claimed in claim 6, wherein the address book designated as the spin-home and displayed on the LCD display module is a book selected from the group consisting of a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, and a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor.

8. An apparatus for providing a spin-home function for a mobile communication terminal, the apparatus comprising:

a program memory for storing a spin-home program adapted to circulate and display at least one application designated as a spin-home when a user operates a key;

a data storage module acting as a data buffer when the

spin-home program is run by the mobile communication terminal, the data storage module temporarily storing data inputted by the user or storing character or image data received by the mobile communication terminal from an outside;

a key input module for inputting characters and numbers, the key input module having a special key for causing a predetermined function of the mobile communication terminal to be run;

an LCD display module for displaying operating conditions of the mobile communication terminal together with date and time, the operating conditions including power utilization condition and radio wave reception strength; and

a microprocessor for running the spin-home program, when the user operates a key button for driving the spin-home program, and controlling the LCD display module so as to display a first application designated as the spin-home, the microprocessor controlling the LCD display module so as to display next application in accordance with the spin-home program when the user operates a key button for circulating an idle screen.

9. The apparatus as claimed in claim 8, wherein the key input module has a dedicated spin-home key button for

driving the spin-home program and circulating the idle screen.

10. The apparatus as claimed in claim 8, wherein the program memory additionally stores a screen setup program for displaying application items designated as the spin-home on the LCD display module, when the user operates a predetermined key button while the mobile communication terminal is in an idle mode, and toggling on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items.

11. The apparatus as claimed in claim 8, wherein the program memory additionally stores a program for automatically managing frequently used contact addresses of the user at an interval and displaying a list of the contact addresses on the LCD display module in response to key input from the user.

12. The apparatus as claimed in claim 8, wherein the program memory additionally stores a program for extracting contact addresses, shortcuts being assigned to the contact addresses by the user, and displaying a list of the contact

addresses on the LCD display module in response to key input from the user.

13. The apparatus as claimed in claim 8, wherein the program memory additionally stores a program for obtaining a list of application used by the user for a period of time from present time and displaying the list on the LCD display module in response to key input from the user.

14. The apparatus as claimed in claim 8, wherein the program memory additionally stores a shortcut program for assigning an icon to least one application, when the user designates the application as a shortcut, and displaying a shortcut icon screen on the LCD display module when the user selects the shortcut icon screen in an idle screen setup mode, the shortcut program running an application corresponding to a predetermined icon when the user selects the predetermined icon via key input.

15. The apparatus as claimed in claim 14, wherein the predetermined icon is designated by the user.

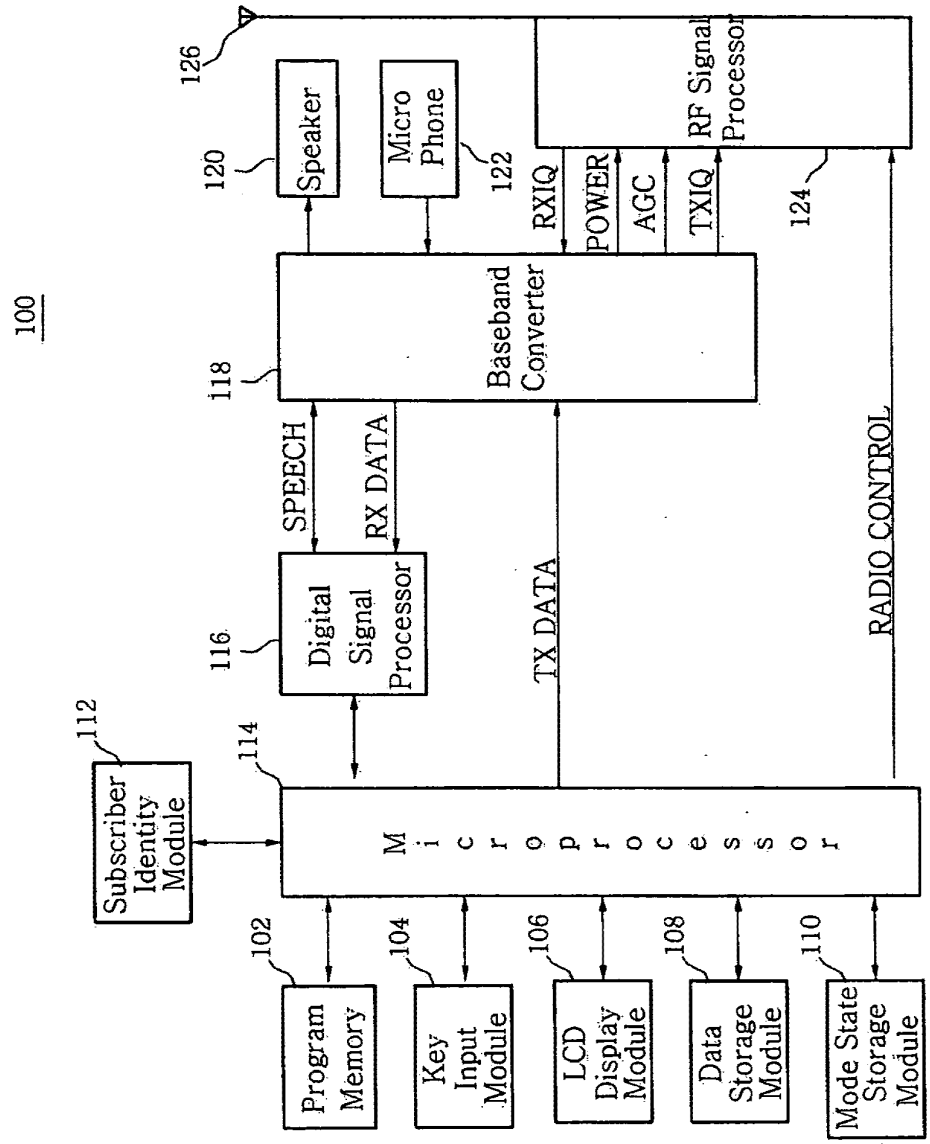

100
126
120
Speaker
Micro Phone
122
RF Signal Processor
RXIQ
POWER
AGC
TXIQ
124
Baseband Converter
118
SPEECH
RX DATA
TX DATA
RADIO CONTROL
116
Digital Signal Processor
112
Subscriber Identity Module
114
Microprocessor
102
Program Memory
104
Key Input Module
106
LCD Display Module
108
Data Storage Module
110
Mode State Storage Module

FIG. 1

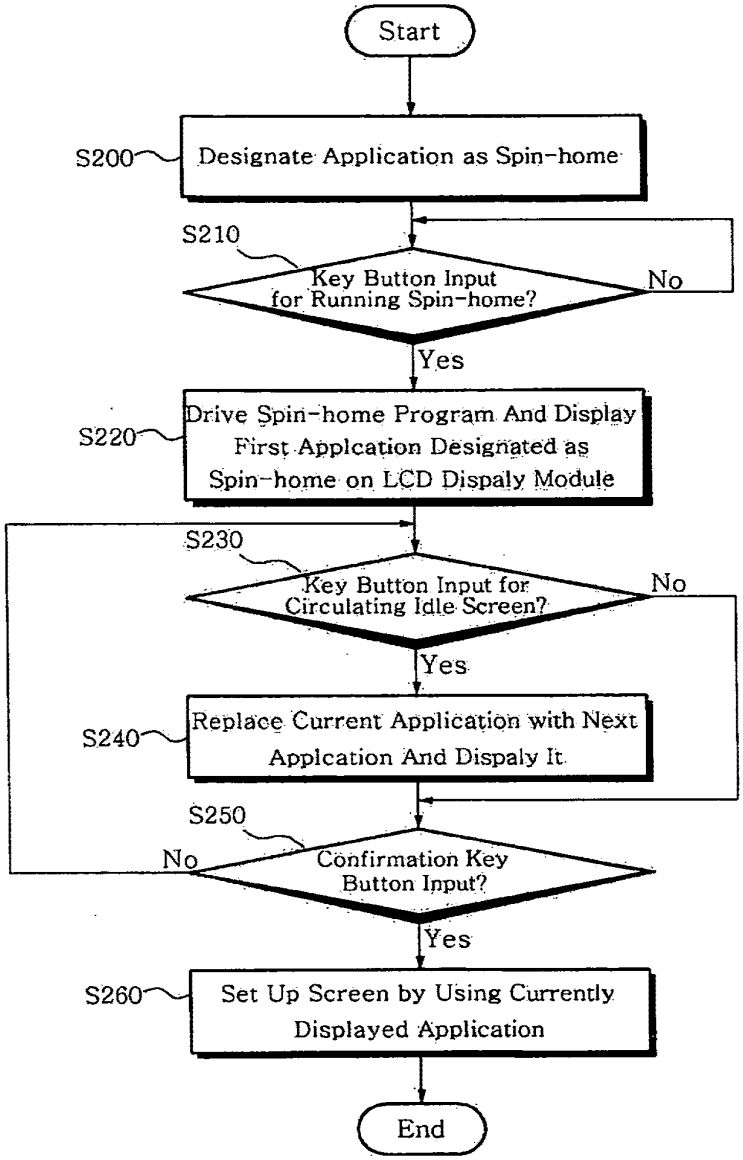

Start
S200
Designate Application as Spin-home
S210
Key Button Input for Running Spin-home?
No
Yes
S220
Drive Spin-home Program And Display First Applcation Designated as Spin-home on LCD Dispaly Module
S230
Key Button Input for Circulating Idle Screen?
No
Yes
S240
Replace Current Application with Next Applcation And Dispaly It
S250
Confirmation Key Button Input?
No
Yes
S260
Set Up Screen by Using Currently Displayed Application
End

FIG. 2

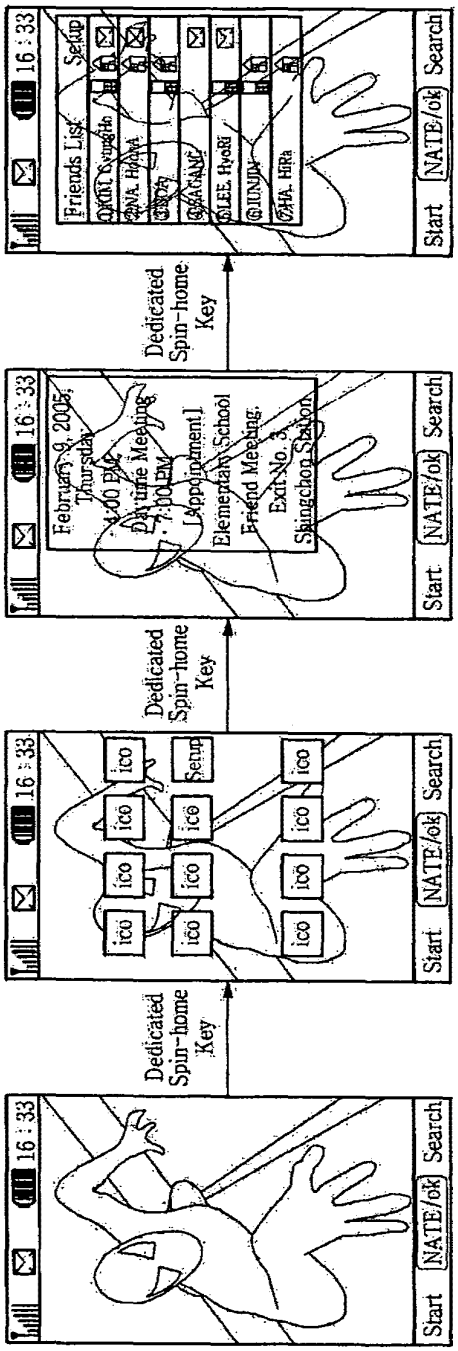

Start
NATE/ok
Search
16 : 33
Dedicated Spin-home Key
Setup
Friends List
February 9, 2005
Thursday
4:00 PM
Daytime Meeting
7:00PM
Appointment
Elementary School
Friend Meeting
Exit No. 3
Shingchon Station
3 a
3 b
3 c
3 d

FIG. 3

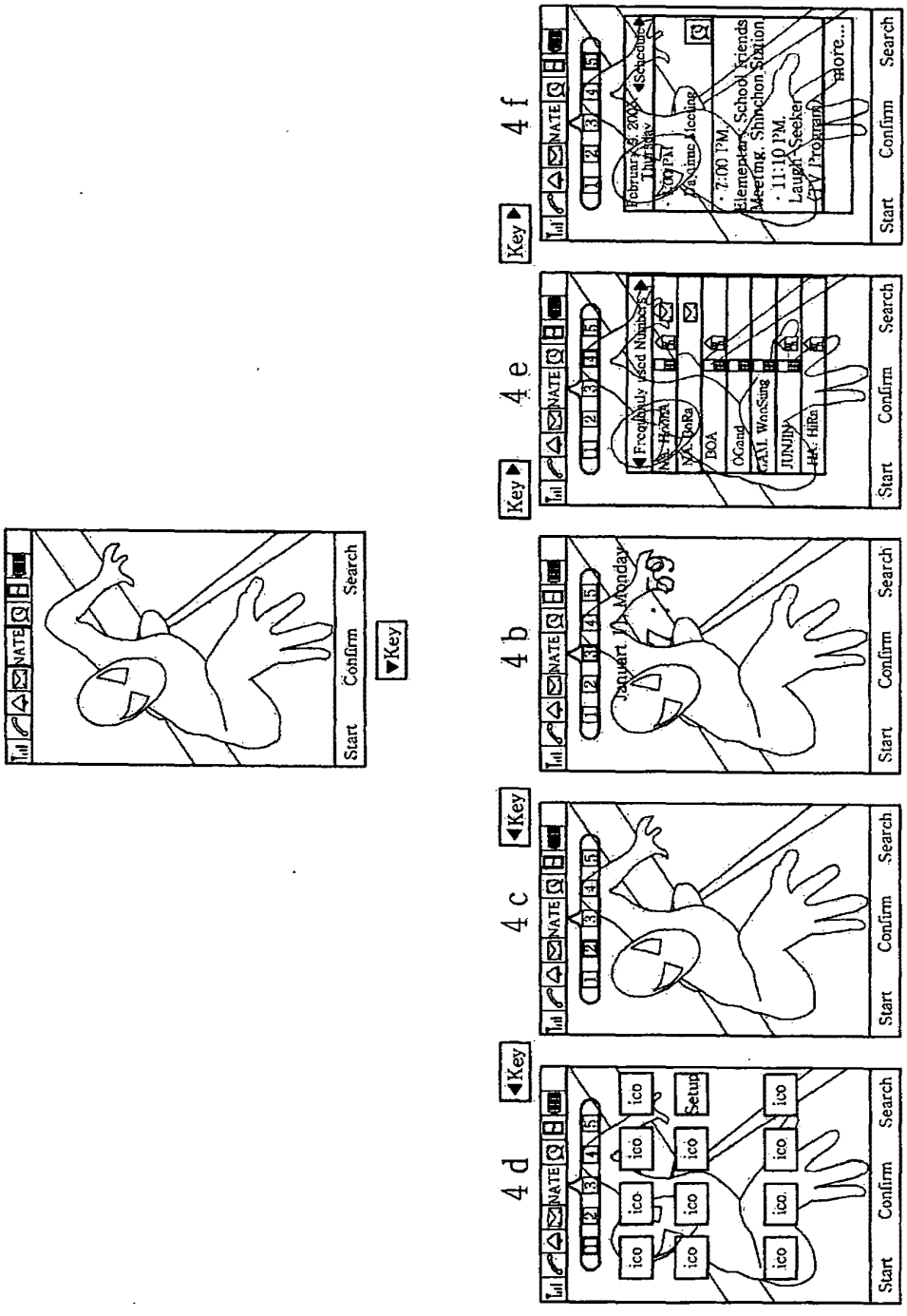


FIG. 4

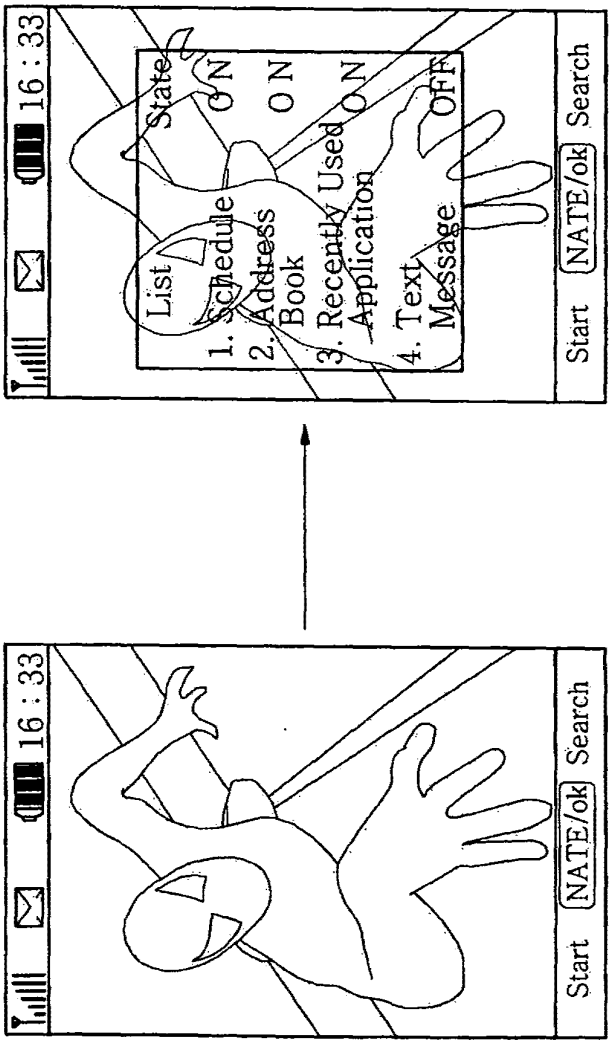

16 : 33
Start
NATE/ok
Search
5 a
16 : 33
List
1. Schedule
2. Address Book
3. Recently Used Application
4. Text Message
State
ON
ON
ON
OFF
Start
NATE/ok
Search
5 b

FIG. 5

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	:	11/911,277	Confirmation No. 5567
Applicant	:	Youngmin PARK et al.	
Filed	:	October 11, 2007	
Tech Cntr/AU	:	N/A	
Examiner	:	N/A	
Entitled	:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	
Attorney Reference	:	126587-0008	
Customer Number	:	22429	

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

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Sir:

Pursuant to 37 CFR §1.97 and 1.56, the attention of the U.S. Patent and Trademark Office is hereby directed to the following disclosures made herein, which include:

REFERENCES AND RELEVANCY

☐ Applicant(s) wish(es) to make of record the documents listed on the attached Form PTO-1449. Copies of the listed documents are attached, where required, as are any readily available full or partial English translations of any non-English language documents.

☐ Applicant(s) wish(es) to make of record the documents listed on the attached Form PTO-1449. The references cited herein were cited for consideration in the parent application, and, pursuant to 37 CFR 1.98(d), copies of the cited references can be found in the file of the parent application (*U.S. Serial No., filed).*

☒ Applicant(s) wish(es) to make of record the documents listed on the attached Form PTO-1449. The references cited herein were cited in the International Search Report issued for the corresponding International application, and copies of the International Search Report and the cited references are attached for the Examiner's consideration.

☐ Applicant(s) wish(es) to make of record the documents listed on the attached Form PTO-1449. The references cited herein were cited in a communication from a foreign or international patent office in a counterpart foreign or international application(s), and copies of both the relevant communication and the cited references, where required, are attached for the Examiner's consideration.

CERTIFICATION

The undersigned certifies that, pursuant to 37 CFR §1.97(e)(1),

☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign or international patent office in a counterpart foreign or international application not more than three months prior to the filing of this Statement.

RELATED CASES

☐ Identified in the attached Appendix are related applications directed to related technical subject matter. Copies of the related applications, where required, are attached for the Examiner's consideration. *The identification of the related U.S. patent applications is not to be construed as a waiver of secrecy for those applications, now or upon issuance of the present application as a patent.*

BASIS FOR CONSIDERATION

This Information Disclosure Statement is filed:

☒ within three months of the filing date of the application and/or before the mailing date of a first Official Action on the merits, and no fee is required [37 C.F.R. §1.97(b)].

☐ with the appropriate certification, and no fee is required [37 C.F.R. §1.97(e)(1)].

☐ after the mailing date of the first Official Action on the merits, but prior to the issuance of a Final Official Action or a Notice of Allowance, and the requisite fee, if necessary, is authorized herein for payment [37 C.F.R. §1.97(c)].

☐ after the mailing date of the Final Official Action or Notice of Allowance, but prior to the payment of the issue fee, the requisite certification under 37 CFR §1.97(e)(1) is made herein, and the requisite fee, if necessary, is authorized herein for payment [37 C.F.R. §1.97(d)].

☐ with a Request for Continued Examination (RCE), and no fee is required [37 C.F.R. §1.97(b)(4)].

FEE AUTHORIZATION

☒ Authorization is hereby given to charge any deficient fee(s) under 37 CFR §1.16 and §1.17 as necessary to ensure the consideration of this disclosure, or to credit any fee overpayments, to Deposit Account No. 07-1337.

☐ Authorization is hereby given to charge the requisite fee of $180 (Fee Code 1806) for submission of this Information Disclosure Statement to Deposit Account No. 07-1337.

It is respectfully requested that this information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

The Examiner is further respectfully requested to return of a copy of the enclosed Form PTO-1449 with the Examiner's initials in the left column.

The examination and allowance of this Application is respectfully requested.

Respectfully submitted,
LOWE HAUPTMAN HAM & BERNER, LLP

/Yoon S Ham/
Yoon S. Ham
Registration No. 45,307

Customer Number: 22429
1700 Diagonal Road, Suite 300
Alexandria, Virginia 22314
(703) 684-1111
(703) 518-5499 Facsimile
Date: December 27, 2007

Attachment(s): PTO Form 1449
Cited References

APPENDIX: RELATED APPLICATIONS

Examiner's Initials	Publication No.	Application No.	Filing Date	Enclosed
				☒ Specification ☐ Drawings ☐ Other:
				☐ Specification ☐ Drawings ☐ Other: Publication
				☐ Specification ☐ Drawings ☐ Other: Publication
				☐ Specification ☐ Drawings ☐ Other:

The Examiner's initials above indicates he/she has considered the cited application(s) relative to the subject application.

DO NOT PRINT *the above information on the patent which results from the subject application.*

Abstract of JP2001-245352

Title: Screen setting method in portable telephone and portable telephone using the same

An icon screen "SCREEN" is selected (step61). Next, a determination key of a navigation key is pressed, whereby a screen listing screen is displayed (step62). Next, whether or not the user selects "SCREEN SELECITION" to change one screen to another is determined (step63). If the user selects "SCREEN SELECITION", registered screens are listed by category (step64). The current screen is replaced with a user's favorite category screen (step65). If the user does not select "SCREEN SELECITION" at step63,the current screen is continued (step66).

(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2001－245352
（P2001－245352A）
(43)公開日　平成13年９月７日(2001.9.7)

(51)Int.Cl.[7]		識別記号	FI			テーマコード*(参考)
Ｈ０４Ｑ	7/38		Ｇ０９Ｇ	5/00	５１０Ｔ	５Ｃ０８２
Ｇ０９Ｇ	5/00	５１０	Ｈ０４Ｍ	1/02	Ａ	５Ｋ０２３
	5/377			1/247		５Ｋ０２７
Ｈ０４Ｍ	1/02			11/00	３０２	５Ｋ０６７
	1/247		Ｈ０４Ｂ	7/26	１０９Ｔ	５Ｋ１０１

審査請求　未請求　請求項の数７　ＯＬ　（全 6 頁）　最終頁に続く

(21)出願番号　特願2000－54923(P2000－54923)

(22)出願日　平成12年２月29日(2000.2.29)

(71)出願人　000005821
松下電器産業株式会社
大阪府門真市大字門真1006番地
(72)発明者　石垣　純二
神奈川県横浜市港北区網島東四丁目３番１号　松下通信工業株式会社内
(74)代理人　100099254
弁理士　役　昌明　（外３名）

最終頁に続く

(54)【発明の名称】　携帯電話機における複合スクリーン画面設定方法及び該複合スクリーン画面設定方法を用いる携帯電話機

(57)【要約】　（修正有）

【課題】　複数の画面の中から前景画面と背景画面ととを選び、それを重ねて複合スクリーン画面として表示できる携帯電話機における複合スクリーン画面設定方法及び該複合スクリーン画面設定方法を用いる携帯電話機を提供する。

【解決手段】　アイコン画面「スクリーン」を選択する（ステップ51）。次に、ナビキーの決定キーを押すことによってスクリーン一覧画面を表示させる（ステップ52）。ユーザが複合スクリーン画面に変えるための「スクリーン選択」を選んだかどうかを判定する（ステップ53）。「スクリーン選択」を選んだ場合には、登録されているスクリーン画面のリストから複合スクリーン、例えば「時計＋イラスト」画像データを選択する（ステップ54）。そして、「イラスト」画像データを背景画面とし、「時計」画像データを前景画面とするように選んで、複合スクリーン画面を設定する（ステップ55）。ステップ53で「スクリーン選択」を選ばなければ、現在のままのスクリーン画面が継続される（ステップ56）。

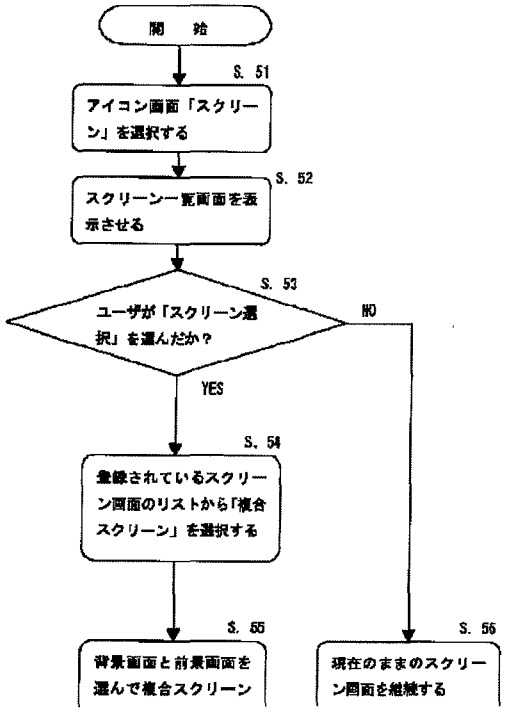


Exhibit 1014
Page 408 of 476

【特許請求の範囲】
【請求項１】　待受け中にスクリーンに表示する画面を選択することができる携帯電話機において、スクリーン画面選択モードに設定し、複数の画面の中から前景画面と背景画面とを選び、それを重ねて複合スクリーン画面として表示できるようにしたことを特徴とする携帯電話機における複合スクリーン画面設定方法。
【請求項２】　前記スクリーン画面の内、前記背景画面はサイト又はＵＲＬからダウンロードした画像データであり、前記前景画面は予め内蔵されている画像データであることを特徴とする請求項１記載の携帯電話機における複合スクリーン画面設定方法。
【請求項３】　前記背景画面は、予め内蔵されている画像データであり、前記前景画面としてはサイト又はＵＲＬからダウンロードした画像データであることを特徴とする請求項１記載の携帯電話機における複合スクリーン画面設定方法。
【請求項４】　前記画像データはＧＩＦ形式のものであることを特徴とする請求項２又は請求項３記載の携帯電話機における複合スクリーン画面設定方法。
【請求項５】　前記背景画面の画像データを表示する場合には１階調落とすようにしたことを特徴とする請求項２乃至４記載の携帯電話機における複合スクリーン画面設定方法。
【請求項６】　前記背景画面の画像データを表示するに際して、画面に少なくとも遠景エリア、中景エリア、近景エリアのいずれか一以上のエリアを設けて、該エリア毎に任意の画像を選択して複合スクリーン画面を設定するようにした請求項１記載の携帯電話機における複合スクリーン画面設定方法。
【請求項７】　請求項１乃至請求項６のいずれかに記載の複合スクリーン画面設定方法を用いて前景画面と背景画面とを選び、それを重ねて複合スクリーン画面として表示できるようにした携帯電話機。

【発明の詳細な説明】
【０００１】
【発明の属する技術分野】本発明は、非音声情報通信モード（例えばｉモード）機能を有する携帯電話機における複合スクリーン画面設定方法及び該複合スクリーン画面設定方法を用いる携帯電話機に関し、特に複数の画面の中から前景画面と背景画面とを選び、それを重ねて複合スクリーン画面として表示できるよう構成したものである。なお、非音声情報通信モードとは、デジタル携帯電話機を使用したオンラインデータサービスの動作モードのことで、センターに登録されているサイト（番組）接続サービスや、インターネット接続サービス、メッセージサービス、ｉモードメールなどが利用できるものである。
【０００２】
モード）機能を有する携帯電話装置においては、待受け時に単一の画面をスクリーン画面として表示しうるものが知られている。
【０００３】しかしながら単一の画面であると、ユーザはスクリーン画面に見ていても面白みに欠け、画面を見飽きてしまうという問題点があった。
【０００４】
【発明が解決しようとする課題】本発明は、このような問題点を解決するためになされたもので、複数の画面の中から前景画面と背景画面とを選び、それを重ねて複合スクリーン画面として表示できる携帯電話機における複合スクリーン画面設定方法及び該複合スクリーン画面設定方法を用いる携帯電話機を提供することを目的とするものである。
【０００５】
【課題を解決するための手段】本発明の請求項１記載の発明は、待受け中にスクリーンに表示する画面を選択することができる携帯電話機において、スクリーン画面選択モードに設定し、複数の画面の中から前景画面と背景画面とを選び、それを重ねて複合スクリーン画面として表示できるようにしたことを特徴とする携帯電話機における複合スクリーン画面設定方法としたものである。この構成により、ユーザは複数の画面から前景画面と背景画面を選べるので、飽きがこないスクリーン画面とすることができる。
【０００６】また請求項２記載の発明は、前記スクリーン画面の内、前記背景画面はサイト又はＵＲＬからダウンロードした画像データであり、前記前景画面は予め内蔵されている画像データであることを特徴とする請求項１記載の携帯電話機における複合スクリーン画面設定方法としたものである。この構成により、ユーザは好みの背景画面をスクリーン画面として表示することができる。
【０００７】また請求項３記載の発明は、前記背景画面は、予め内蔵されている画像データであり、前記前景画面としてはサイト又はＵＲＬからダウンロードした画像データであることを特徴とする請求項１記載の携帯電話機における複合スクリーン画面設定方法としたものである。この構成により、ユーザは好みの前景画面をスクリーン画面として表示することができる。
【０００８】また請求項４記載の発明は、前記画像データはＧＩＦ形式のものであることを特徴とする請求項２又は請求項３記載の携帯電話機における複合スクリーン画面設定方法としたものである。この構成により、画像メモリに負荷を掛けないようにして取り込んだ画像データをスクリーン画面として利用することができる。
【０００９】また請求項５記載の発明は、前記背景画面の画像データを表示する場合には１階調落とすようにしたことを特徴とする請求項２乃至４記載の携帯電話機における複合スクリーン画面設定方法としたものである。

Exhibit 1014
Page 409 of 476

この構成により、前景画面をより見やすくすることができる。

【００１０】また請求項６記載の発明は、前記背景画面の画像データを表示するに際して、画面に少なくとも遠景エリア、中景エリア、近景エリアのいずれか一以上のエリアを設けて、該エリア毎に任意の画像を選択して複合スクリーン画面を設定するようにした請求項１記載の携帯電話機における複合スクリーン画面設定方法としたものである。この構成により、ユーザは遠景エリア、中景エリア、近景エリアに複数の画面を設定できるので、飽きがこないスクリーン画面とすることができる。

【００１１】また請求項７記載の発明は、請求項１乃至請求項６のいずれかに記載の複合スクリーン画面設定方法を用いて前景画面と背景画面とを選び、それを重ねて複合スクリーン画面として表示できるようにした携帯電話機としたものである。この構成により、複数の画面がスクリーン画面として表示されることによりユーザは画面を見ていても飽きがこない携帯電話機を提供することができる。

【００１２】

【発明の実施の形態】以下、本発明の実施の形態について、図１から図５を用いて説明する。

【００１３】図１は、本発明の実施の形態に係る非音声情報通信モード（例えばｉモード）機能を備える携帯電話機の構造を示す概略図である。図１において本発明の実施の形態に係る携帯電話機は、アンテナ１と、着信／充電ランプ２と、受話器３と、液晶表示器４と、電話帳ボタンを兼ねる左ソフトキー５と、通話開始ボタン６と、テンキー又はダイヤルキー７と、非音声情報通信動作モードにワープさせるワープキー８と、送話器９と、外部接続端子10と、ボイス／マナーキー11と、電源／終了／応答保留キー12と、リダイヤル／クリアボタンを兼ねる右ソフトキー13と、スクロール機能を兼ねて上下左右の各方向に表示を選択することができ、中心のボタンを押すことにより選択決定を行なうナビゲーションキー14と、イヤホンマイク端子15と、赤外線ポート16とを備えるようにしてある。図２は上記構成の携帯電話機を実現するための回路ブロックを示すものである。図２において携帯電話機は、アンテナ１で受信した電波は無線通信部18の受信部（図示せず）で受けて、受信情報を制御部20に伝える。制御部20は受信した電話番号などの受信情報を液晶表示装置などの表示部４に表示する。

【００１４】また制御部20は受信情報を音声情報に変換して受話部のスピーカ（受話器）３で音声出力する。また送話器（マイク）９は利用者の音声を受けて制御部20に伝え、無線通信部18の送信部（図示せず）とアンテナ１により通話相手先に無線送信する。制御部20はメモリ26に通話中の通話内容などの音声情報を記憶させ、あるいは記憶してある情報を読み出すようにしている。テンキー操作部22はテンキー７の操作によってダイヤル信号などを制御部20に入力し、またテンキー以外の機能キー操作部24は操作された機能キー、例えばナビゲーションキー14の操作を制御部20に入力するものである。また、赤外線入出力部28は赤外線ポート16を介して赤外線信号のやり取りを行なう。

【００１５】またメモリ26には予め登録したスクリーン画面データ又はサイト又はＵＲＬからダウンロードした画像データを記憶するようにしている。そしてスクリーン画面選択モードにおいて、機能キー操作部24又はテンキー操作部22を操作して複数の画面の中から前景画面と背景画面を選択した場合に制御部20は複合スクリーン画面として表示できるようにしている。これらの回路ブロックは、図１の筐体内に収納されている。

【００１６】図３は上記構成の携帯電話機の表示部において、待受け時に表示されるアイコン画面の例を示している。この例においては、十字型にアイコン画面が表示されるようになっており、上から時計廻りにｉモードメインアイコン、ｉモードメールアイコン、電話帳アイコン、スクリーンアイコン、そして真中にメニューアイコンがそれぞれ表示され、選択されたアイコン画面が拡大表示されて、現在どのアイコン画面が選択されているかが分かるようになっている。

【００１７】図４は本発明の実施形態を説明するための携帯電話機の表示画面の遷移を示すものである。電源キー12を操作して非音声情報通信モード（例えば、ｉモード）機能を有する携帯電話機を待受け状態にする。そして待受け状態にあるときにアイコン画面の中から「スクリーン」を選択すると、図４（ａ）のように選択されたアイコンが拡大表示される。ここで、ナビキー14の決定キーを押すことで、図４（ｂ）のように「スクリーン一覧画面」が表示され、更に、ナビキー14の上方向又は下方向のスクロールキーを押すことで「スクリーン選択」を選択して、ナビキー14の決定キーを押すことにより「スクリーン選択」の機能選択を確定する。こうすることにより図４（ｃ）のようにスクリーン選択ができるスクリーン画面がジャンル別に表示される。

【００１８】ここでユーザが前記ジャンル内の「イラスト」画像データを選択すれば、スクリーン画面には、例えば図４（ｄ）に示されるような「イラスト」画面が表示されるし、またユーザが前記ジャンルの内の「イラスト＋時計」画像データを選択すれば、スクリーン画面には、例えば図４（ｅ）に示されるような「イラスト＋時計」画面が表示される。

【００１９】ユーザがスクリーン画面としてジャンルの内の「イラスト＋時計」画像データを選択した場合には、「イラスト」画像データが「背景画面」に、また「時計」画像データが「前景画面」になり、図４（ｆ）のような複数の画面が重なって表示、すなわち複合スクリーン画面が表示される。

【００２０】この場合において、「前景画面」画像デー

タを目立たせるようにするために「背景画面」画像データの階調を１階調落として重ね表示するようにし、さらに「前景画面」及び「背景画面」の各画像データは、複数種類の中からユーザが好みのものを選択することができるようになっている。

【００２１】なお、上記において画像データの取得については説明していないが、予め内蔵されている画像データを利用することも、また、サイト又はＵＲＬ（Uniform Resource Locator）からダウンロードした画像データであっても良い。

【００２２】また前記のサイト又はＵＲＬ（Uniform Resource Locator）からダウンロードしうる画像データとしては、ＧＩＦ形式（Graphics Interchange Format）の画像が用いられるものである。これは携帯電話機という小型、軽量化した情報端末において画像メモリとして大容量のメモリを使用することができないためである。

【００２３】図５は上記した複合スクリーン画面を設定するための動作を説明するためのフローチャートである。

【００２４】図５においてアイコン画面「スクリーン」を選択する（ステップ51）。次ぎに、ナビキーの決定キーを押すことによってスクリーン一覧画面を表示させる（ステップ52）。

【００２５】次に、ユーザが複合スクリーン画面に変えるための「スクリーン選択」を選んだかどうかを判定する（ステップ53）。「スクリーン選択」を選んだ場合には、登録されているスクリーン画面のリストから複合スクリーン、例えば「時計＋イラスト」画像データを選択する（ステップ54）。そして、「イラスト」画像データを背景画面とし、「時計」画像データを前景画面とするように選んで、複合スクリーン画面を設定する（ステップ55）。ステップ53で「スクリーン選択」を選ばなければ、現在のままのスクリーン画面が継続される（ステップ56）。

【００２６】なお上記した実施の形態では、複数の画像を前景と背景という重ね合わせる複合スクリーン画面設定の例を示したが、表示部４の表示エリアを、例えば遠景エリア、中景エリア、近景エリアというように分割しておき、各エリアに任意に画像を配置するようにしても良い。

【００２７】

【発明の効果】以上説明したように本発明の請求項１記載の発明は、待受け中にスクリーンに表示する画面を選択することができる携帯電話機において、スクリーン画面選択モードに設定し、複数の画面の中から前景画面と背景画面を組合わせてスクリーン画面として表示できるようにしたことを特徴とする携帯電話機における複合スクリーン画面設定方法としたものである。この構成により、ユーザは複数の画面から前景画面と背景画面を選べるので、飽きがこないスクリーン画面とすることができるという効果を有する。

【００２８】また請求項２記載の発明は、前記スクリーン画面の内、前記背景画面はサイト又はＵＲＬからダウンロードした画像データであり、前記前景画面は予め内蔵されている画像データであることを特徴とする請求項１記載の携帯電話機における複合スクリーン画面設定方法としたものである。この構成により、ユーザは好みの背景画面をスクリーン画面として表示することができるという効果を有する。

【００２９】また請求項３記載の発明は、前記背景画面は、予め内蔵されている画像データであり、前記前景画面としてはサイト又はＵＲＬからダウンロードした画像データであることを特徴とする請求項１記載の携帯電話機における複合スクリーン画面設定方法としたものである。この構成により、ユーザは好みの前景画面をスクリーン画面として表示することができるという効果を有する。

【００３０】また請求項４記載の発明は、前記画像データはＧＩＦ形式のものであることを特徴とする請求項２又は請求項３記載の携帯電話機における複合スクリーン画面設定方法としたものである。この構成により、画像メモリに負荷を掛けないようにして取り込んだ画像データをスクリーン画面として利用することができるという効果を有する。

【００３１】また請求項５記載の発明は、前記背景画面の画像データを表示する場合には１階調落とすようにしたことを特徴とする請求項２乃至４記載の携帯電話機における複合スクリーン画面設定方法としたものである。この構成により、前景画面をより見やすくすることができるという効果を有する。

【００３２】また請求項６記載の発明は、前記背景画面の画像データを表示するに際して、画面に少なくとも遠景エリア、中景エリア、近景エリアのいずれか一以上のエリアを設けて、該エリア毎に任意の画像を選択して複合スクリーン画面を設定するようにした請求項１記載の携帯電話機における複合スクリーン画面設定方法としたものである。この構成により、ユーザは遠景エリア、中景エリア、近景エリアに複数の画面を設定できるので、飽きがこないスクリーン画面とすることができるという効果を有する。

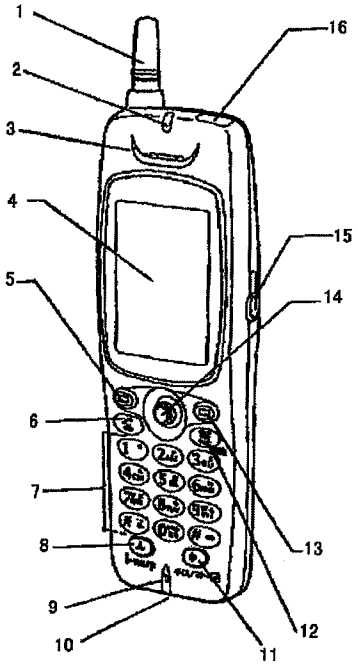
【００３３】また請求項７記載の発明は、請求項１乃至請求項６のいずれかに記載の複合スクリーン画面設定方法を用いて前景画面と背景画面とを選び、それを重ねて複合スクリーン画面として表示できるようにした携帯電話機としたものである。この構成により、複数の画面がスクリーン画面として表示されることによりユーザは画面を見ていても飽きがこない携帯電話機を提供することができるという効果を有する。

【図面の簡単な説明】

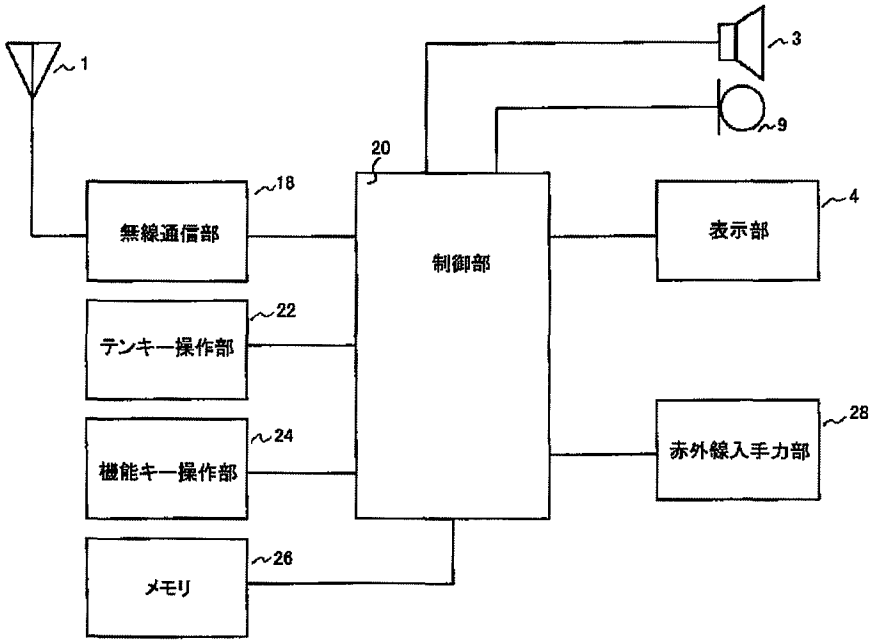
Exhibit 1006
Page 16 of 26

す正面図、
【図２】図１の携帯電話機を実現するための回路ブロックを示す図、
【図３】図１の携帯電話機の表示器において、待受け時に表示されるアイコン画面の例、
【図４】本発明の実施形態を説明するための携帯電話機の表示画面の遷移を示す図、
【図５】スクリーン画面選択モードに設定し、複数の画面の中から前景画面と背景画面を組合わせてスクリーン画面として表示できるようにするための動作を説明するためのフローチャートである。
【符号の説明】
1　アンテナ
2　着信／充電ランプ
3　受話器
4　液晶表示器
5　左ソフトキー
6　通話開始キー
7　テンキー
8　ワープキー
9　送話器
10　外部接続端子
11　ボイス／マナーキー
12　電源／終了／応答保留キー
13　右ソフトキー
14　ナビゲーションキー
15　イヤホンマイク端子
16　赤外線ポート
18　無線通信部
20　制御部
22　テンキー操作部
24　機能キー操作部
26　メモリ
28　赤外線入出力部

【図１】



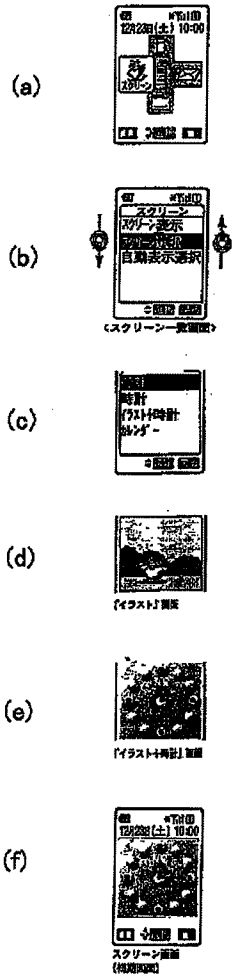
【図２】



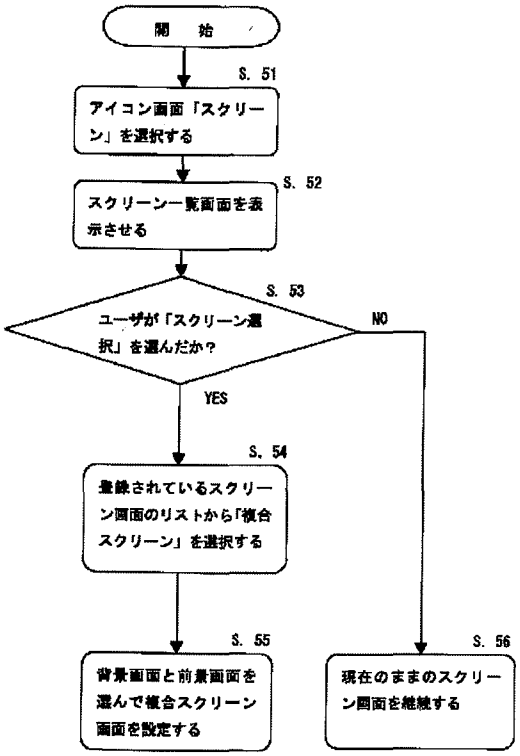
【図３】



【図４】



【図５】



フロントページの続き

(51) Int. Cl.[7]	識別記号	F I	ﾃｰﾏｺｰﾄﾞ(参考)
Ｈ０４Ｍ　11/00	３０２	Ｇ０９Ｇ　5/36	５２０Ｎ

Ｆターム(参考)　5C082 AA00 AA14 BA12 BA27 CA11
CA56 CB06
5K023 AA07 BB11 DD06 HH01 HH07
MM01 MM23
5K027 AA11 BB02 FF01 FF22 MM17
5K067 AA34 BB04 BB21 DD52 EE02
FF23
5K101 KK02 KK03 LL12 MM04 MM05
MM06 MM07 NN18 NN22 NN25
NN40 TT02

Abstract of KR1020030083896

Title: METHOD FOR SETTING UP A SCREEN OF STAND-BY MODE IN CELLULAR PHONE

Disclosed is a method for setting up a screen of a stand-by mode in a cellular phone, and particularly to a method for setting up a stand-by mode screen of a cellular phone, which allows a user to set up a menu screen of a frequently used function, prior to a basic function of a cellular phone (such as transmission/receiving of voice data), as a stand-by mode screen. Since a menu screen of a specific function can be set up as a stand-by mode screen of the cellular phone, a user can immediately use the specific function without searching menus.

(19)대한민국특허청(KR)
(12) 등록특허공보(B1)

(51) 。Int. Cl.[7]
H04B 1/40

(45) 공고일자 2005년05월03일
(11) 등록번호 10-0486516
(24) 등록일자 2005년04월21일

(21) 출원번호 10-2002-0022292
(22) 출원일자 2002년04월23일
(65) 공개번호 10-2003-0083896
(43) 공개일자 2003년11월01일

(73) 특허권자 엘지전자 주식회사
서울특별시 영등포구 여의도동 20번지

(72) 발명자 조항준
서울특별시성동구마장동470-6

(74) 대리인 박장원

심사관 : 안철홍

(54) 휴대폰의 대기화면 설정방법

요약

본 발명은 휴대폰의 대기화면 설정방법에 관한 것으로서, 특히 휴대폰의 본래 기능인 음성의 송수신에 우선하여 사용자가 자주 사용하는 특정기능의 메뉴화면을 대기화면으로 설정할 수 있도록 한 휴대폰의 대기화면 설정방법에 관한 것이다. 본 발명은 특정기능의 메뉴화면을 휴대폰의 대기화면으로 설정할 수 있기 때문에 사용자가 메뉴탐색의 과정을 거치지 않고 즉시 그 특정기능을 이용할 수 있는 효과가 있다.

대표도

도 4

명세서

도면의 간단한 설명

도 1은 종래 휴대폰의 메뉴화면 및 대기화면을 나타내는 예시도.

도 2는 본 발명에서 휴대폰의 메뉴화면을 나타내는 예시도.

도 3은 본 발명에서 메뉴화면을 대기화면으로 설정한 후 메뉴화면목록에 리스트되는 메뉴화면의 제목을 나타내는 예시도.

도 4는 본 발명에서 휴대폰의 대기화면 설정 및 그 사용을 나타내는 순서도.

발명의 상세한 설명

발명의 목적

발명이 속하는 기술 및 그 분야의 종래기술

본 발명은 휴대폰의 대기화면 설정방법에 관한 것으로서, 특히 휴대폰의 본래 기능인 음성의 송수신에 우선하여 사용자가 자주 사용하는 특정기능의 메뉴화면을 대기화면으로 설정할 수 있도록 한 휴대폰의 대기화면 설정방법에 관한 것이다.

Exhibit 1014
Page 415 of 476

현재 휴대폰은 본래 기능인 음성의 송수신기능 이외에 여러 다양한 기능(전자다이어리, 모바일게임, SMS, 인터넷 등)을 내장하고 있기 때문에 통화만을 위해 휴대폰을 사용하는 경우는 거의 없다고 볼 수 있다.

따라서, 사용자마다 휴대폰의 여러 다양한 기능 중에서 특정기능을 자주 사용하거나 선호하는 경향이 있게 된다.

예를 들어, 도 1에 도시된 바와 같이 운송 또는 영업 업무를 하는 사용자들은 최근통화목록(a)이나 전화번호부검색(b)을 자주 사용하게 되고, 10대 청소년들은 문자메시지보내기(c) 또는 모바일 게임을 많이 이용하게 될 것이다. 또한 사용자에 따라서는 계산기 기능이나 일정관리 또는 통합달력기능을 자주 사용하는 사람도 있을 것이다.

그런데 이러한 특정기능을 사용하기 위해서 사용자는 휴대폰에 설치된 메뉴키, 방향키 및 확인키를 눌러서 자신이 원하는 특정기능의 메뉴화면(도 1의 (a)~(c))을 휴대폰의 LCD 화면에 표시하여야 한다.

즉, 도 1의 (b)의 경우 사용자는 메뉴키를 눌러 상위메뉴에서 「전화번호부」를 선택하고 「전화번호부」의 하위메뉴 중에서 「전화번호부검색」→「이름으로 검색」을 순차적으로 선택하여야 한다. 도 1의 (c)의 경우에는 상위메뉴에서 「문자메시지」를 선택하고 「문자메시지」의 하위메뉴 중에서 「문자메시지보내기」→「새로보내기」를 순차적으로 선택하여야 한다. 또한, 도 1의 (a)의 경우에는 상위메뉴에서 「전화번호부」를 선택하고 「전화번호부」의 하위메뉴 중에서 「최근통화목록」을 선택하여야 한다.

한편, 도 1의 (d)는 휴대폰의 대기화면을 나타낸 것으로 현재 휴대폰의 대기화면은 휴대폰에 내장되어 있는 그림이나 로고 또는 인터넷에서 다운받은 동영상 등의 그림이 대부분이다.

발명이 이루고자 하는 기술적 과제

그러나, 종래의 기술에 있어서의 휴대폰의 대기화면은 그림이나 동영상이 대부분을 차지하고 있어서 휴대폰의 특정기능을 자주 사용하는 사용자들에게 사용상의 불편함을 야기하고 있다.

즉, 언제나 휴대폰의 대기화면이 그림이나 동영상 등으로 설정되어 있어서 사용자가 자주 사용하는 특정기능을 이용하기 위해서는 상기한 바와 같이 매번 메뉴탐색을 반복해야 한다는 문제점이 있다.

따라서, 본 발명은 상기의 문제점을 감안하여 안출한 것으로서, 사용자가 자주 사용하는 특정기능의 메뉴화면을 대기화면 설정 버튼의 입력만으로 대기화면으로 선택 설정하여 즉시 그 특정기능을 사용할 수 있도록 한 휴대폰의 대기화면 설정방법을 제공하는 것을 목적으로 한다.

발명의 구성 및 작용

이를 위하여 본 발명은 휴대폰의 특정기능을 수행하는 메뉴화면에 대기화면설정 버튼을 설치하여 두고, 상기 대기화면설정 버튼의 입력에 의해 그 특정기능의 메뉴화면을 대기화면으로 설정하는 것을 특징으로 한다.

이하 첨부된 도면을 참조하여 본 발명을 상세히 설명한다.

본 발명에서는 폴더형 휴대폰을 예를 들어 설명하기로 한다. 종래의 폴더형 휴대폰을 열면 초기 대기화면에 그림 또는 동영상이 뜨게 되지만, 본 발명에서는 사용자가 설정한 특정기능의 메뉴화면이 대기화면으로 뜨게 된다.

도 2는 본 발명에서 제안하는 휴대폰의 대기화면설정방법에서의 메뉴화면을 나타낸다.

도 2에 도시한 바와 같이, 사용자가 메뉴키, 방향키 및 확인키를 순차적으로 눌러서 불러온 특정기능의 메뉴화면의 하단에는 「대기화면설정」 버튼이 마련되어 있다.

따라서, 사용자는 이 대기화면설정 버튼을 눌러 입력하는 것에 의해 간단히 현재의 메뉴화면을 휴대폰의 대기화면으로 설정할 수 있다.

한편, 본 발명에서는 종래의 「대기화면목록」 내에 예를 들어 「메뉴화면목록」 등과 같은 메뉴를 만들어 대기화면으로 설정된 메뉴화면을 저장할 수 있도록 한다.

따라서, 사용자가 상기와 같이 여러 메뉴화면을 대기화면으로 설정하면 「메뉴화면목록」에 그 메뉴화면이 리스트되어(메뉴화면 자체가 리스트되는 것은 아니며 그 메뉴화면의 제목이 리스트 되는 것임), 여기서 원하는 임의의 메뉴화면을 대기화면으로 선택할 수 있다.

예를 들어 도 3에서 도시한 바와 같이 「최근통화목록」 메뉴를 대기화면으로 설정한 후, 「대기화면목록」 내의 「메뉴화면목록」에 들어가 보면 '최근통화목록'(메뉴화면의 제목)이 리스트되어 있다.

또한, 「메뉴화면목록」에서는 대기화면의 설정뿐만 아니라 임의의 메뉴화면에 대한 대기화면 설정을 해제할 수도 있다.

대기화면 설정은 소프트웨어적으로 메뉴화면의 하단에 「대기화면설정」 버튼을 설치하여 이것을 누름으로써 수행될 수 있으나 휴대폰에 「대기화면설정」 버튼을 설치할 수도 있다

Exhibit 1014
Page 4 of 8

도 4는 본 발명의 휴대폰의 대기화면 설정방법에서 휴대폰의 대기화면설정 및 그 사용을 나타내는 순서도이다.

우선, 특정기능의 메뉴화면을 불러와서(S1) 「대기화면설정」 버튼을 누르거나 「대기화면목록」의 「메뉴화면목록」에 이미 리스트되어 있는 여러 메뉴화면의 제목 중 하나를 선택하여(S2) 그 메뉴화면을 대기화면으로 설정한다(S3).

이 후 폴더를 열 때마다 설정된 메뉴화면이 대기화면으로서 휴대폰의 LCD에 표시된다(S4, S5).

다음 단계(S6)에서, 사용자가 특정기능을 이용하고자 하는 경우에 대기화면으로 표시된 메뉴화면에서 그 특정기능을 즉시 사용할 수 있으며(S7), 사용자가 다른 기능을 이용하고자 하는 경우에는 취소키를 눌러서(S8) 기존의 대기화면으로 복귀시킨 다음에 원하는 기능을 이용할 수 있다(S9).

발명의 효과

본 발명은 특정기능의 메뉴화면을 휴대폰의 대기화면으로 설정할 수 있기 때문에 사용자가 메뉴탐색의 과정을 거치지 않고 그 설정 표시된 대기화면으로부터 즉시 특정기능을 이용할 수 있는 효과가 있다.

(57) 청구의 범위

청구항 1.

휴대폰의 특정기능을 수행하는 메뉴화면에 대기화면설정 버튼을 설치하여 두고,

상기 대기화면설정 버튼의 입력에 의해 그 특정기능의 메뉴화면을 대기화면으로 설정하는 것을 특징으로 하는 휴대폰의 대기화면 설정방법.

청구항 2.

삭제

청구항 3.

삭제

청구항 4.

제 1항에 있어서,

휴대폰의 대기화면목록에 메뉴화면목록을 설치하고, 상기 대기화면설정 버튼의 입력에 의해 대기화면으로 설정된 상기 특정기능의 메뉴화면의 제목이 상기 메뉴화면목록에 저장되는 것을 특징으로 하는 휴대폰의 대기화면 설정방법.

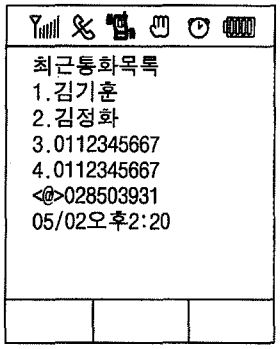
청구항 5.

제 4항에 있어서,

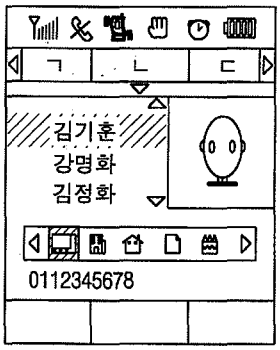
상기 메뉴화면목록에 저장된 특정기능의 메뉴화면의 제목을 선택하여 대기화면으로 설정하거나 그 설정을 해제하는 것을 특징으로 하는 휴대폰의 대기화면 설정방법.

도면

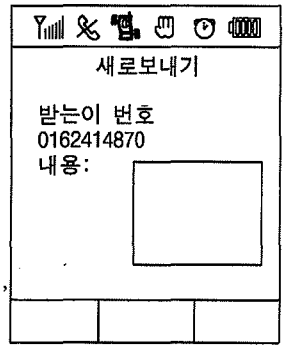
도면1



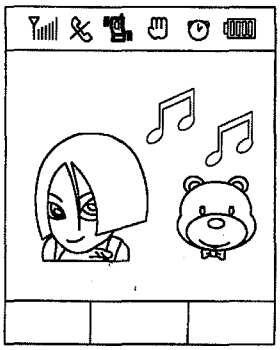
(a)



(b)

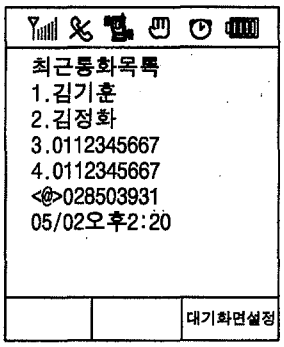


(c)

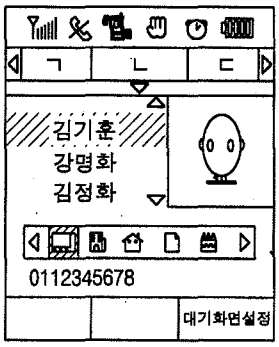


(d)

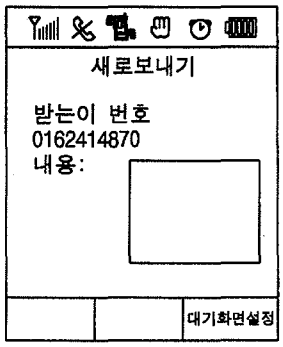
도면2



(a)

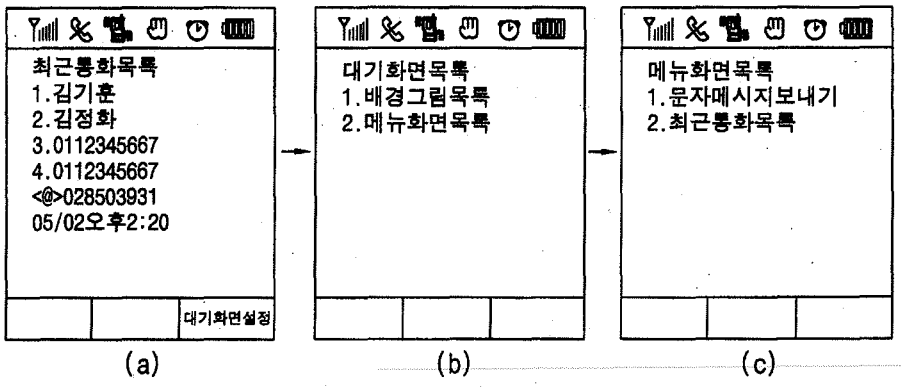


(b)

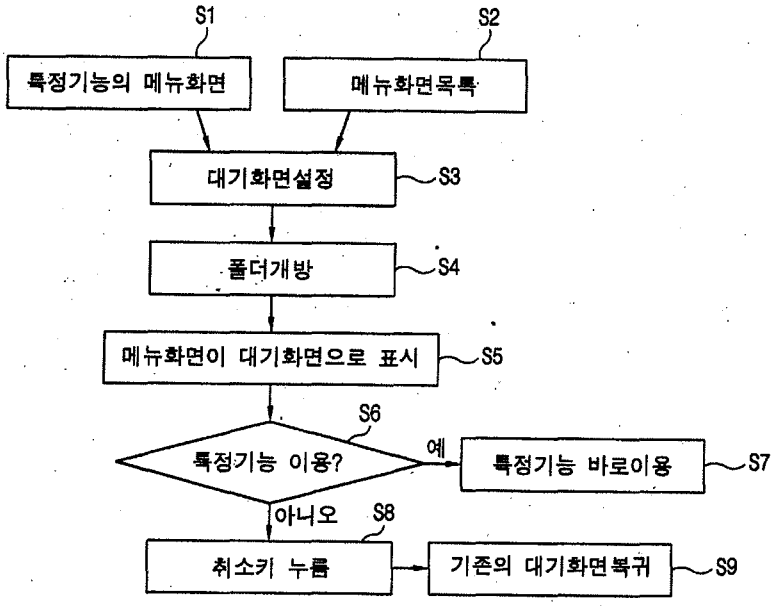


(c)

도면3


최근통화목록
1.김기훈
2.김정화
3.0112345667
4.0112345667
<@>028503931
05/02오후2:20
대기화면설정
(a)
대기화면목록
1.배경그림목록
2.메뉴화면목록
(b)
메뉴화면목록
1.문자메시지보내기
2.최근통화목록
(c)

도면4


S1
S2
특정기능의 메뉴화면
메뉴화면목록
대기화면설정
S3
폴더개방
S4
메뉴화면이 대기화면으로 표시
S5
S6
특정기능 이용?
예
특정기능 바로이용
S7
아니오
S8
취소키 누름
기존의 대기화면복귀
S9

Electronic Acknowledgement Receipt

EFS ID:	2644026
Application Number:	11911277
International Application Number:	
Confirmation Number:	5567
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin PARK
Customer Number:	22429
Filer:	Yoon Ham/james rhee
Filer Authorized By:	Yoon Ham
Attorney Docket Number:	126587-0008
Receipt Date:	27-DEC-2007
Filing Date:	
Time Stamp:	13:46:41
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	71227PTO1449.pdf	18596 52598f98e442955bebde028214c8bd13f3446a70	no	1

Warnings:	
Information:	

2	Information Disclosure Statement (IDS) Filed	71227IDS.pdf	31550 9f6f38973f73fb2ca8fa87a935e570f8bc6e11b1	no	4
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Foreign Reference	ref1.pdf	452652 32ce19f52bd26ef327a41431494cd5290ba9a212	no	7
Warnings:					
Information:					
4	Foreign Reference	ref2.pdf	259474 be1426ae3a2e23b3338c39540bd6bd8912426874	no	6
Warnings:					
Information:					
			Total Files Size (in bytes):	762272	

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.

FORM PTO-1449 (modified)
U.S. Department of Commerce
U.S. Patent & Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Reference: 126587-0008	
Applicant: Youngmin PARK et al.	
Application Serial No. 11/911,277	
Filing Date: October 11, 2007	
Date: December 27, 2007 Page 1 of 1	Examiner: N/A / Group Art Unit: N/A

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	2006/0095916	05/2006	Nishida			
	BR						
	CR						
	DR						
	ER						
	FR						
	GR						
	HR						
	IR						
	JR						
	KR						
	LR						
	MR						
	NR						

FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country			Translation Readily Available		English Abstract	
							Enclosed	No	Enclosed	No
	OR	2001-245352	09/2001	JP				X	X	
	PR	1020030083896	04/2005	KR				X	X	
	QR									
	RR									
	SR									
	TR									
	UR									
	VR									
	WR									
	XR									

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

	YR	
	ZR	
	AAR	
	BBR	
	CCR	
	DDR	

Examiner	Date Considered:

*EXAMINER: Initial if 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.

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371	ATTORNEY'S DOCKET NUMBER 126587-0008 U.S. APPLICATION NO. (if known, see 37 CFR 1.5)

INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED
PCT/KR2006/002302	June 15, 2006	

TITLE OF INVENTION

METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL

APPLICANT(S) FOR DO/EO/US

Youngmin PARK; Hoojong KIM

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) as indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
   a. ☒ is transmitted hereto (required only if not communicated by the International Bureau).
   b. ☒ has been communicated by the International Bureau.
   c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
   a. ☐ is attached hereto.
   b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
   a. ☐ are attached hereto (required only if not communicated by the International Bureau).
   b. ☐ have been communicated by the International Bureau.
   c. ☐ have not been made; however, the time limit for making such amendment has NOT expired.
   d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98; PTO-1449 Form and Foreign References
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☒ An Application Data Sheet under CFR 1.76
15. ☐ A substitute specification.
16. ☒ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13*ter*.2 and 37 CFR 1.821–1.825
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4)
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4)
20. ☐ Other items or information:

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)	INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER
	PCT/KR2006/002302	**126587-0008**

The following fees are submitted:	CALCULATIONS	PTO USE ONLY
21. ☒ Basic national fee (37 CFR 1.492(a)) **$310.00**	**$ 310.00**	
22. ☒ Examination fee (37 CFR 1.492(c)) If the written opinion prepared by USI/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... **$0** All other situations **$210.00**	**$ 210.00**	
23. ☒ Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... **$0** Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Search Authority ..... **$100.00** International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB ..... **$410.00** All other situations **$510.00**	**$ 510.00**	
TOTAL OF 21, 22 and 23 =	**$ 1030.00**	
☐ Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing filed in an electronic medium) (37 CFR 1.492(j)). The fee is **$250** for each additional 50 sheets of paper or fraction thereof		

Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round **up** to a whole number)	RATE		
32- 100 =	0/50 =0	0	× $260.00	$	
Surcharge of **$130.00** for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				$	

CLAIMS	NUMBER FILED		NUMBER EXTRA	RATE		
Total Claims	15	- 20 =	0	× $ 50.00	$ **0.00**	
Independent Claims	2	- 3 =	0	× $210.00	$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ $370.00	$	
				TOTAL OF ABOVE CALCULATIONS =	$ **1030.00**	
☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.					$	
				SUBTOTAL =	$ **1030.00**	
Processing fee of **$130.00** for furnishing the English translation later than the 30 months from the earliest claimed priority date (37 CFR 1.492(f)). +					$ **0.00**	
				TOTAL NATIONAL FEE =	$ **1030.00**	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). **$40.00** per property +					$ **0.00**	
				TOTAL FEES ENCLOSED =	$ **1030.00**	
					Amount to be refunded:	
					Amount to be charged	

a. ☐ A check in the amount of $ _____.00 to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. 07-1337 in the amount of $ ___ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-1337. A duplicate copy of this sheet is enclosed.

d. ☒ Fees are to be charged to a credit card. **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.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. Kindly use the attorneys' address associated with the following Customer Number for future correspondence.

SEND ALL CORRESPONDENCE TO:

LOWE HAUPTMAN HAM & BERNER, LLP
1700 Diagonal Road, Suite 300
Alexandria, VA 22314
(703) 535-7360

Customer No. 22429
PATENT TRADEMARK OFFICE

/Yoon S. Ham/
SIGNATURE
Yoon S. HAM
NAME
45,307
REGISTRATION NUMBER

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	126587-0008
	Application Number	
Title of Invention	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

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

Applicant Information:

Applicant 1 Remove

Applicant Authority ◉ Inventor ○ Legal Representative under 35 U.S.C. 117 ○ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	Youngmin		PARK	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Seongnam-si, Gyeonggi-do	Country Of Residence[i]	KR
Citizenship under 37 CFR 1.41(b)[i]	KR		

Mailing Address of Applicant:

Address 1	121-701, Jangmimaeulkolon Apt., Yatap-dong		
Address 2	Bundang-gu		
City	Seongnam-si, Gyeonggi-do	State/Province	
Postal Code	463-788	Country[i]	KR

Applicant 2 Remove

Applicant Authority ◉ Inventor ○ Legal Representative under 35 U.S.C. 117 ○ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	Hoojong		KIM	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Seoul	Country Of Residence[i]	KR
Citizenship under 37 CFR 1.41(b)[i]	KR		

Mailing Address of Applicant:

Address 1	7-108 Gaepo 1cha Wooseong APT.,		
Address 2	503 Daechi 1-dong, Gangnam-gu		
City	Seoul	State/Province	
Postal Code	135-281	Country[i]	KR

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

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	126587-0008
	Application Number	
Title of Invention	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	

Customer Number	22429		
Email Address	yham@ipfirm.com	Add Email	Remove Email

Application Information:

Title of the Invention	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL		
Attorney Docket Number	126587-0008	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		**Sub Class (if any)**	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	5	**Suggested Figure for Publication (if any)**	

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 been and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ US Representative (37 CFR 11.9)
Customer Number	22429		

Domestic Priority Information:

This section allows for the applicant to claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c). Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	a 371 of international	PCT/KR2006/002302	2006-06-15

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

Foreign Priority Information:

PTO/SB/14 (08-05)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	126587-0008
	Application Number	
Title of Invention	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL	

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

Remove

Application Number	Country [i]	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			(•) Yes ( ) No

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

Assignee Information:

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

Assignee 1 Remove

If the Assignee is an Organization check here. [X]

Organization Name	SK TELECOM CO., LTD.		
Mailing Address Information:			
Address 1	11, Euljiro 2-ga, Jung-gu		
Address 2			
City	Seoul	**State/Province**	
Country [i]	KR	Postal Code	
Phone Number		Fax Number	
Email Address			

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

Signature:

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

Signature	/Yoon S. Ham/			Date (YYYY-MM-DD)	2007-10-11
First Name	Yoon	Last Name	Ham	Registration Number	45307

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

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.

METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL

Technical Field

The present invention relates to an apparatus and a method for providing a spin-home function for a mobile communication terminal. More particularly, the present invention relates to an apparatus and a method for providing a spin-home function for a mobile communication terminal so that, when a user of the mobile communication terminal, which includes a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module, designates an application, which is stored in the program memory, as a spin-home and runs a spin-home program, the application, which has been designated as the spin-home, is circulated and displayed on the LCD display module every time the user operates a specific key.

Background Art

As generally known in the art, mobile communication systems have evolved from 1st generation analog AMPS (Advanced Mobile

Exhibit 1014
Page 429 of 476

Phone System) and 2nd generation cellular/PCS (Personal Communication Service) systems into 3rd generation IMT-2000 (International Mobile Telecommunication 2000), which has been recently standardized by ITU-R and commercialized in line with development in information/communication technologies. The IMT-2000 includes CDMA 2000 1X, 3X, EV-DO, and WCDMA (Wideband CDMA) and uses an IS-95SC network, which has evolved from conventional IS-95A and IS-95B networks, so that it can provide a wireless Internet service at a maximum data transmission rate of 144 Kbps, which is substantially faster than that of the IS-95A or IS-95B network (14.4 Kbps or 56 Kbps). Particularly, the IMT-2000 not only improves the quality of conventional voice communication service and WBS (Wireless Broadcasting Service), but also provides various multimedia services (e.g. AOD, VOD) at a faster speed.

Such evolution of mobile communication systems are followed by evolution of mobile communication terminals into multipurpose devices, which can provide various types of applications in addition to basic voice communication. Users can download various pieces of multimedia data, such as images, moving pictures, music, and games, and run the data by using mobile communication terminals. Mobile communication terminals incorporate various types of

Exhibit 1014
Page 430 of 476

convenient functions (e.g. electronic organizer, photo editor, camera). In addition, mobile communication terminals can realize colorful graphic environment on the idle screen, as a result of improved performance of LCD drivers.

The idle screen is a starting point for using various applications provided by mobile communication terminals. Furthermore, each user can decorate the idle screen with his favorite photo, image, or animation and express his own personality.

Particularly, a user of a conventional mobile communication terminal can download a photo, image, or animation from the service provider and decorate the idle screen with it by using a WAP script. Alternatively, the user may set up the idle screen by downloading a non-interactive application (phone theme) or an interactive application (e.g. “1mm” or “MoA” service available from SK Telecom., Inc.) and installing it.

Korean Registered Patent No. 10-0486516 discloses a method for using a frequently-used application (e.g. schedule management, text message, address book) for the idle screen of a mobile communication terminal so that its user can directly run the application without complicated steps of operation. This method seeks to enhance the functionality

of the mobile communication terminal, in addition to enabling the user to set up the idle screen as desired in an attempt to express his personality.

However, conventional methods for setting up the idle screen have the following problems.

First, once an application is used for the idle screen, it is impossible to present another application on the same idle screen.

Second, when another application is to be used for the idle screen, tree-structured menu items must be searched through a number of steps, which renders it inconvenient to modify the idle screen.

Third, although basic applications (e.g. address book, text message) may be given shortcuts on the key input module for direct access, the limited number of key buttons on the terminal makes it impossible to assign shortcuts to all of the ever-increasing applications.

Disclosure of the Invention

Accordingly, the present invention has been made to solve the above-mentioned problems occurring in the prior art, and an object of the present invention is to provide an apparatus and a method for providing a spin-home function

Exhibit 1014
Page 432 of 476

for a mobile communication terminal so that, when a user of the mobile communication terminal, which includes a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module, designates an application, which is stored in the program memory, as a spin-home and runs a spin-home program, the application, which has been designated as the spin-home, is circulated and displayed on the LCD display module every time the user operates a specific key.

In order to accomplish this object, there is provided a method for providing a spin-home function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module so that applications are circulated and displayed on an idle screen, the method including the steps of (a) designating at least one application as a spin-home; (b) running a spin-home program stored in the program memory, when a user operates a first key button for driving the spin-home program, and displaying a first application designated as the spin-home on the LCD display module; (c) circulating next application designated as the spin-home and displaying the application on the LCD display module every time the user operates a second key button for circulating the idle screen; and (d) setting an application currently

displayed on the LCD display module as the idle screen when the user operates a confirmation key button.

In accordance with another aspect of the present invention, there is provided an apparatus for providing a spin-home function for a mobile communication terminal, the apparatus including a program memory for storing a spin-home program adapted to circulate and display at least one application designated as a spin-home when a user operates a key; a data storage module acting as a data buffer when the spin-home program is run by the mobile communication terminal, the data storage module temporarily storing data inputted by the user or storing character or image data received by the mobile communication terminal from an outside; a key input module for inputting characters and numbers, the key input module having a special key for causing a predetermined function of the mobile communication terminal to be run; an LCD display module for displaying operating conditions of the mobile communication terminal together with date and time, the operating conditions including power utilization condition and radio wave reception strength; and a microprocessor for running the spin-home program, when the user operates a key button for driving the spin-home program, and controlling the LCD display module so as to display a first application designated as the spin-home, the

microprocessor controlling the LCD display module so as to display next application in accordance with the spin-home program when the user operates a key button for circulating an idle screen.

BRIEF DESCRIPTION OF THE DRAWINGS

The above and other objects, features and advantages of the present invention will be more apparent from the following detailed description taken in conjunction with the accompanying drawings, in which:

FIG. 1 shows the construction of a mobile communication terminal according to a preferred embodiment of the present invention;

FIG. 2 is a flowchart showing a method for providing a spin-home for a mobile communication terminal according to a preferred embodiment of the present invention;

FIGs. 3a to 3d show the screen of a mobile communication terminal, which has a dedicated spin-home key button, when the terminal provides a spin-home function;

FIGs. 4a to 4f show the screen of a mobile communication terminal, which has conventional key buttons, when the terminal provides a spin-home function; and

FIGs. 5a and 5b show the screen of a mobile communication

Exhibit 1014
Page 435 of 476

terminal when a screen setup program is run.

Best Mode for Carrying Out the Invention

Hereinafter, a preferred embodiment of the present invention will be described with reference to the accompanying drawings. In the following description and drawings, the same reference numerals are used to designate the same or similar components, and so repetition of the description on the same or similar components will be omitted.

FIG. 1 shows the construction of a mobile communication terminal according to a preferred embodiment of the present invention.

A mobile communication terminal 100 according to a preferred embodiment of the present invention includes a program memory 102; a key input module 104; an LCD display module 106; a data storage module 108; a mode state storage module 110; a subscriber identity module 112; a microprocessor 114; a digital signal processor 116; a baseband converter 118; a speaker 120; a microphone 122; an RF (radio frequency) signal processor 124; and an antenna 126.

The key input module 104 according to a preferred embodiment of the present invention has numeric keys for inputting numbers (e.g. telephone numbers), character keys for

inputting characters, function keys for performing specific functions, and direction keys. When the user presses a key button, the key input module 104 generates key data, which corresponds to the pressed key button, and transmits the data to the microprocessor 114. Particularly, the key input module 104 may separately have a dedicated spin-home key button for providing a spin-home function.

The program memory 102 according to a preferred embodiment of the present invention stores a protocol software for processing messages transmitted/received to/from a mobile communication network, an operating system, a control program for controlling the overall operation of the mobile communication terminal, and applications. Particularly, the program memory 102 stores a spin-home program for circulating at least one application, which has been designated as a spin-home, and displaying it on the LCD display module 106 when the user operates the dedicated spin-home key button, which is separately installed on the key input module 102, or one of existing key buttons.

Preferably, the program memory 102 additionally stores a screen setup program for displaying application items, which have been designated as the spin-home, on the LCD display module when the user operates a specific key button while the mobile communication terminal is in an idle mode. When

Exhibit 1014
Page 437 of 476

the user selects one or more of the items, the spin-home setup of the selected application is toggled on/off in accordance with the user's selection.

The program memory 102 may store a program for managing the contact addresses of persons, with whom the user of the mobile communication terminal 100 makes frequent contact, and displaying the list of a predetermined number of contact addresses in the order of frequent contact on the LCD display module 106 when the user operates a specific key. In addition, the program memory 102 may store a program for extracting contact addresses, to which shortcuts have been assigned, and displaying the list of contact addresses on the LCD display module 106 when the user operates a specific key.

The program memory 102 may also contain a program for creating a list of recently used applications and displaying it on the LCD display module 106.

In addition, the program memory 102 preferably stores a shortcut program for implementing a function similar to that of shortcut icons on the base screen of conventional computers. Particularly, when the user assigns a shortcut to at least one application, an icon is designated for the application. When the user operates a key for selecting a shortcut icon screen in an idle mode, the LCD display module

106 displays the shortcut on the screen. When the user selects a specific icon on the shortcut icon screen, a corresponding application is driven. Although the program automatically designates an icon for the application in this case, the user may select a desired icon.

The program memory 120 for storing various programs may be an EEPROM (electrically erasable and programmable read only memory), for example, which can not only read, but also electrically erase recorded data and rerecord data. Each program may be implemented by using a C programming language, objected-oriented C++, or JAVA, depending on the operating system supported by the mobile communication terminal.

Any of the above-mentioned list of frequently used contact addresses, list of contact addresses having shortcuts assigned thereto, list of recently used application, and shortcut icon screen may be designated as the spin-home, which is displayed on the LCD display module 106 one by one every time the user operates a key button for circulating the idle screen.

The data storage module 108 according to a preferred embodiment of the present invention usually acts as a data buffer when the mobile communication terminal 100 runs a program. The data storage module 108 temporarily stores data inputted by the key input module 102. In addition, the

Exhibit 1014
Page 439 of 476

data storage module 108 stores other pieces of data, including characters and images received by the mobile communication terminal 100 from the outside. The data storage module 108 may be a RAM (random access memory), for example.

The LCD display module 106 according to a preferred embodiment of the present invention displays the operating conditions of the mobile communication terminal 100, including power utilization and radio wave reception strength, together with date and time. When the user operates a key button for circulating the idle screen, the LCD display module 106 replaces the application, which has been designated as the spin-home, with a new one and displays it.

The microprocessor 114 according to a preferred embodiment of the present invention controls the overall operation of the mobile communication terminal 100 in accordance with a state flag stored in the mode state storage module 110. Particularly, when the user operates a key button for running a spin-home program and generates a corresponding signal, the microprocessor 114 reads the signal and outputs a spin-home program, which is stored in the program memory 102, to the data storage module 108. Then, the program is run. The microprocessor 114 loads a first application,

which has been designated as a spin-home, onto the data storage module in accordance with the program and controls the LCD display module so as to display the application. When the user operates a key button for circulating the idle screen, the microprocessor loads the next application, which has been designated as the spin-home, onto the data storage module in accordance with the spin-home program, which is currently run. Then, the microprocessor controls the LCD display module so as to replace the first application with the next application and display it.

The key button for running the spin-home program or circulating the idle screen may be a dedicated spin-home key button separately installed on the key input module 102 of the mobile communication terminal 100, as mentioned above. Alternatively, existing key buttons may be used to implement the function of the dedicated spin-home key button. For example, when a downward movement button is operated while the mobile communication terminal 100 is in an idle mode, the spin-home program is driven. When a leftward or rightward movement button is operated in this condition, the LCD display module 106 circulates and displays each application, which has been designated as the spin-home, as will be described later in more detail.

The mode state storage module 110 stores the current

operating mode of the mobile communication terminal 100 as a state flag (0, 1, 2…) in accordance with the selection made via the key input module 102. The subscriber identity module 112 stores subscriber registration information (e.g. proper number, personal security key), which is allocated to each subscriber's terminal.

The digital signal processor (hereinafter, referred to as DSP) 116 acts as an equalizer for coding or decoding audio signals and removing multi-path noise, in addition to processing audio data. The DSP 116 transmits/receives audio data SPEECH to/from the baseband converter 118. In addition, the DSP 116 receives digital data RX DATA from the baseband converter 118.

The baseband converter 118 converts signals, which are transmitted/received among the RF signal processor 124, the DSP 116, the speaker 120, and the microphone 122, into baseband signals through DAC (digital to analog conversion) and ADC (analog to digital conversion). The baseband converter 118 sends transmission data TXIQ to the RF signal processor 124 and controls the power POWER of the RF signal processor 124 or automatically controls its gain AGC. In addition, the baseband signal processor 124 gets reception signal RXIQ from the RF signal processor 124.

The RF signal processor 124 demodulates and amplifies RF

signals received from the antenna 126. In addition, the RF signal processor 124 modulates transmission signals from the baseband converter 118 and emits them into propagation space. The speaker 120 outputs audible sound based on the audio data from the baseband converter 118 and converts the user's voice input into electric signals.

The antenna 126 receives signals from the RF signal processor 124 and transmits them to the outside, and vice versa.

FIG. 2 is a flowchart showing a method for providing a spin-home for a mobile communication terminal according to a preferred embodiment of the present invention.

The user of the mobile communication terminal 100 designates at least one application as a spin-home (S200). Particularly, the user selects a spin-home addition/deletion item from menu items of each application and generates a corresponding signal. Then, the microprocessor 114 reads the signal and adds/deletes spin-home number data to/from the selected application. When a spin-home program is run at a later time, each application is circulated and displayed in the order of its number. The user may drive a screen setup program and conveniently modify the spin-home on/off setup of the application, which has been designated as the spin-home. Particularly, when a specific key button

(e.g. upward movement key button) is operated while the mobile communication terminal 100 is in an idle mode and a corresponding signal is generated, the microprocessor 114 reads the signal and outputs a screen setup program to the data storage module 108, which is then run. In addition, the microprocessor 114 displays application items, which have been designated as the spin-home, on the LCD display module 106. Then, the user selects at least one of the displayed items and generates a corresponding signal. The microprocessor 114 reads the signal and toggles on/off the spin-home setup of the selected application. If the spin-home setup of an application is toggled off, it is not displayed on the LCD display module 106 even when the spin-home program is run.

Applications designated as the spin-home include schedule management, address book, list of recently used applications, game, text message, and shortcut icon screen, as well as image or moving picture in a broader sense. In the case of address book, the contact address of a specific person, which has been selected by the user, may be designated as the spin-home. It is also possible to designate the contact addresses of persons, which have shortcuts assigned thereto, or a number of frequently used contact addresses, which have been automatically selected by the microprocessor, as the

spin-home.

The microprocessor 114 monitors if the key button for driving the spin-home program is operated (S210). When the key button is operated, the microprocessor 114 drives the spin-home program and displays the first application (i.e. application having the smallest spin-home number) of the applications, which have been designated as the spin-home, on the LCD display module 106 (S220).

When the user operates the key button for circulating the idle screen and generates a corresponding signal, the microprocessor 114 reads the signal (S230). Then, the microprocessor 114 replaces the first application with the next application, which has been designated as the spin-home, and displays it on the LCD display module 106 (S240).

When the user operates the confirmation key button OK, the microprocessor 114 sets up the idle screen by using the application, which is currently displayed on the LCD display module 106 (S250, S260). Otherwise, the microprocessor 114 returns to step S230.

FIGs. 3a to 3d show the screen of a mobile communication terminal, which has a dedicated spin-home key button, when the terminal provides a spin-home function.

FIG. 3a shows the screen in an idle mode before the spin-home program is run. When the dedicated spin-home key

Exhibit 1014
Page 445 of 476

button is operated, the spin-home program is run. At the same time, the screen is switched to a shortcut icon screen, which has a spin-home number of 1, as shown in FIG. 3b. Every time the dedicated spin-home button is operated, the schedule management (FIG. 3c), which has a spin-home number of 2, and the list of contact addresses of friends (FIG. 3d), which has a spin-home number of 3, are circulated and displayed.

FIGs. 4a to 4f show the screen of a mobile communication terminal, which has conventional key buttons, when the terminal provides a spin-home function.

FIG. 4a shows the screen in an idle mode before the spin-home program is run. When the confirmation key button is operated in the idle mode, the terminal accesses a wireless Internet service (e.g. Nate®). When the downward movement key button is operated in the idle mode, the spin-home program is run and switches the screen to a spin-home screen, as shown in FIG. 4b. Every time the leftward movement key button is operated, applications having a spin-home number of 2 and 1, respectively, are circulated and displayed (FIGs. 4c and 4d). Similarly, every time the rightward movement key button is operated, applications having a spin-home number of 4 and 5, respectively, are circulated and displayed (FIGs. 4e and 4f).

Exhibit 1014
Page 446 of 476

Although the leftward or rightward movement key button is operated to circulate and display the applications, which have been designated as the spin-home, in FIGs. 4a to 4f, the role of each key button is not limited to that in the present invention. For example, the downward movement key button may be operated to run the spin-home program and display the application, which has the smallest spin-home number. In addition, the left or rightward movement key button may be operated to circulate and display the applications in the ascending or descending order of spin-home number.

FIGs. 5a and 5b show the screen of a mobile communication terminal when a screen setup program is run.

When a specific key button (e.g. upward movement key button) is operated in an idle mode (FIG. 5a), the screen setup program is run and displays application items, which have been designated as the spin-home, as shown in FIG. 5b. By selecting desired items, the spin-home setup of selected applications is toggled on/off in a convenient manner.

Although a preferred embodiment of the present invention has been described for illustrative purposes, those skilled in the art will appreciate that various modifications, additions and substitutions are possible, without departing from the scope and spirit of the invention as disclosed in

Exhibit 1014
Page 447 of 476

the accompanying claims.

Industrial Applicability

As mentioned above, the present invention is advantageous in that, even when an application is currently used for the idle screen, it can be easily replaced with another application by single key input. The idle screen setup can also be easily modified.

In addition, various applications (e.g. image, animation, address book, schedule management) can be conveniently circulated and displayed on the idle screen without using shortcuts to run the applications.

Exhibit 1014
Page 448 of 476

Claims

1. A method for providing a spin-home function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module so that applications are circulated and displayed on an idle screen, the method comprising the steps of:

(a) designating at least one application as a spin-home;

(b) running a spin-home program stored in the program memory, when a user operates a first key button for driving the spin-home program, and displaying a first application designated as the spin-home on the LCD display module;

(c) circulating next application designated as the spin-home and displaying the application on the LCD display module every time the user operates a second key button for circulating the idle screen; and

(d) setting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button.

2. The method as claimed in claim 1, wherein, in step (a), an application is designated as a spin-home in accordance

Exhibit 1014
Page 449 of 476

with user selection of a spin-home addition/deletion item of a menu item of each application.

3. The method as claimed in claim 1, wherein step (a) includes the steps of:

(a1) driving a screen setup program stored in the program memory, when the user operates a predetermined key button, and displaying application items designated as the spin-home on the LCD display module; and

(a2) toggling on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items displayed on the LCD display module.

4. The method as claimed in claim 1, wherein the first key button for driving the spin-home program and the second key button for circulating the idle screen are dedicated spin-home key buttons separately positioned on the mobile communication terminal.

5. The method as claimed in claim 1, wherein the first key button for driving the spin-home program is a downward movement key button, and the second key button for circulating the idle screen is a leftward/rightward movement

Exhibit 1014
Page 450 of 476

key button.

6. The method as claimed in claim 1, wherein the application designated as the spin-home is selected from the group consisting of schedule management, address book, list of recently used applications, game, text message, image, moving picture, and shortcut icon screen.

7. The method as claimed in claim 6, wherein the address book designated as the spin-home and displayed on the LCD display module is a book selected from the group consisting of a book of contact addresses of persons designated by the user, a book of contact addresses of persons, shortcuts being assigned to the contact addresses, and a book of frequently-used contact addresses of a predetermined number of persons, the contact addresses being automatically managed by the microprocessor.

8. An apparatus for providing a spin-home function for a mobile communication terminal, the apparatus comprising:

a program memory for storing a spin-home program adapted to circulate and display at least one application designated as a spin-home when a user operates a key;

a data storage module acting as a data buffer when the

Exhibit 1014
Page 451 of 476

spin-home program is run by the mobile communication terminal, the data storage module temporarily storing data inputted by the user or storing character or image data received by the mobile communication terminal from an outside;

a key input module for inputting characters and numbers, the key input module having a special key for causing a predetermined function of the mobile communication terminal to be run;

an LCD display module for displaying operating conditions of the mobile communication terminal together with date and time, the operating conditions including power utilization condition and radio wave reception strength; and

a microprocessor for running the spin-home program, when the user operates a key button for driving the spin-home program, and controlling the LCD display module so as to display a first application designated as the spin-home, the microprocessor controlling the LCD display module so as to display next application in accordance with the spin-home program when the user operates a key button for circulating an idle screen.

9. The apparatus as claimed in claim 8, wherein the key input module has a dedicated spin-home key button for

Exhibit 1014
Page 452 of 476

driving the spin-home program and circulating the idle screen.

10. The apparatus as claimed in claim 8, wherein the program memory additionally stores a screen setup program for displaying application items designated as the spin-home on the LCD display module, when the user operates a predetermined key button while the mobile communication terminal is in an idle mode, and toggling on/off spin-home setup of selected applications in accordance with user selection when the user selects at least one of the application items.

11. The apparatus as claimed in claim 8, wherein the program memory additionally stores a program for automatically managing frequently used contact addresses of the user at an interval and displaying a list of the contact addresses on the LCD display module in response to key input from the user.

12. The apparatus as claimed in claim 8, wherein the program memory additionally stores a program for extracting contact addresses, shortcuts being assigned to the contact addresses by the user, and displaying a list of the contact

Exhibit 1014
Page 453 of 476

addresses on the LCD display module in response to key input from the user.

13. The apparatus as claimed in claim 8, wherein the program memory additionally stores a program for obtaining a list of application used by the user for a period of time from present time and displaying the list on the LCD display module in response to key input from the user.

14. The apparatus as claimed in claim 8, wherein the program memory additionally stores a shortcut program for assigning an icon to least one application, when the user designates the application as a shortcut, and displaying a shortcut icon screen on the LCD display module when the user selects the shortcut icon screen in an idle screen setup mode, the shortcut program running an application corresponding to a predetermined icon when the user selects the predetermined icon via key input.

15. The apparatus as claimed in claim 14, wherein the predetermined icon is designated by the user.

Abstract

Disclosed is a method and an apparatus for providing a spin-home function for a mobile communication terminal. The method for providing a spin-home function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module so that applications are circulated and displayed on an idle screen includes the steps of (a) designating at least one application as a spin-home; (b) running a spin-home program stored in the program memory, when a user operates a first key button for driving the spin-home program, and displaying a first application designated as the spin-home on the LCD display module; (c) circulating next application designated as the spin-home and displaying the application on the LCD display module every time the user operates a second key button for circulating the idle screen; and (d) setting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button. Even when an application is currently used for the idle screen, it can be easily replaced with another application by single key input. The idle screen setup can also be easily modified.

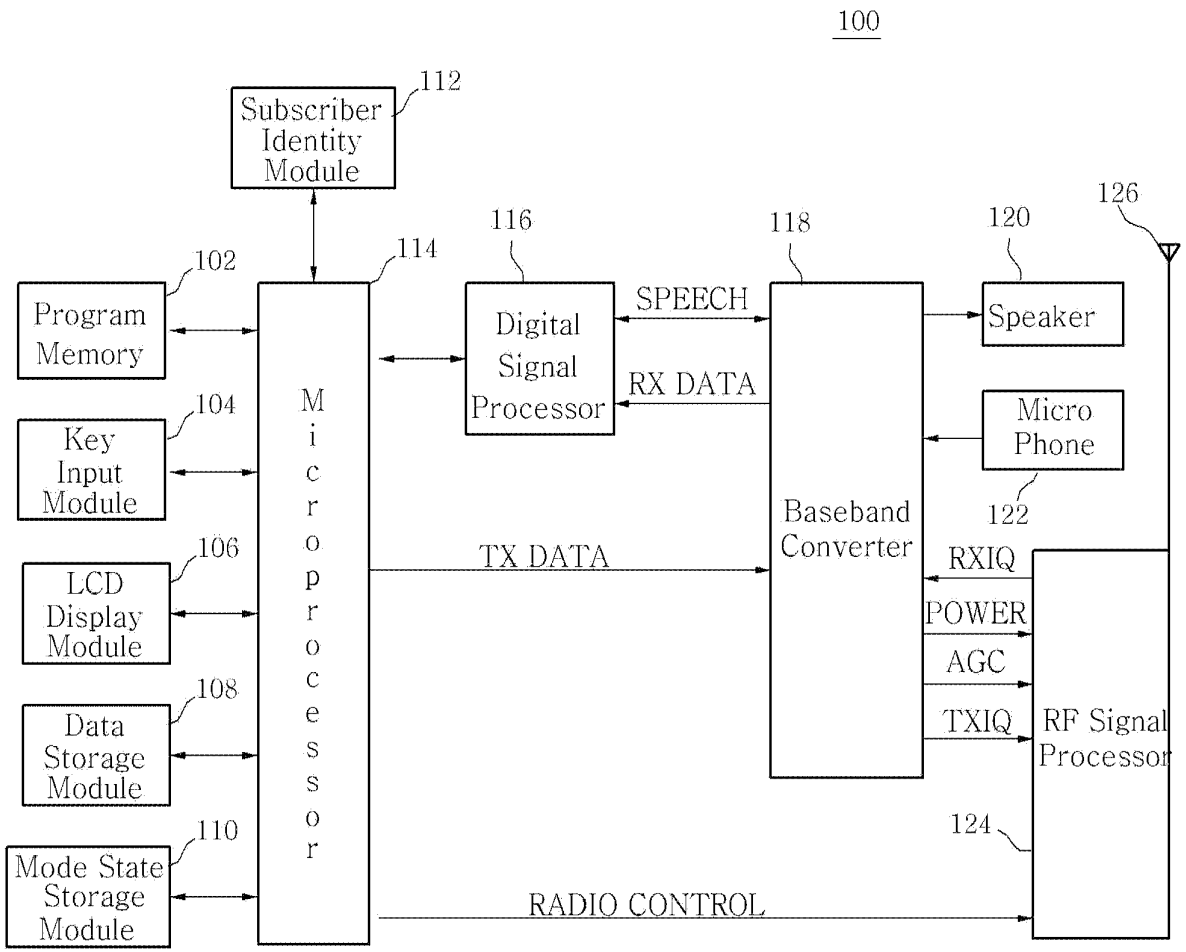

100
Subscriber Identity Module
112
Program Memory
102
Key Input Module
104
LCD Display Module
106
Data Storage Module
108
Mode State Storage Module
110
Microprocessor
114
Digital Signal Processor
116
SPEECH
RX DATA
TX DATA
Baseband Converter
118
Speaker
120
Micro Phone
122
126
RXIQ
POWER
AGC
TXIQ
RF Signal Processor
124
RADIO CONTROL

FIG. 1

1/5

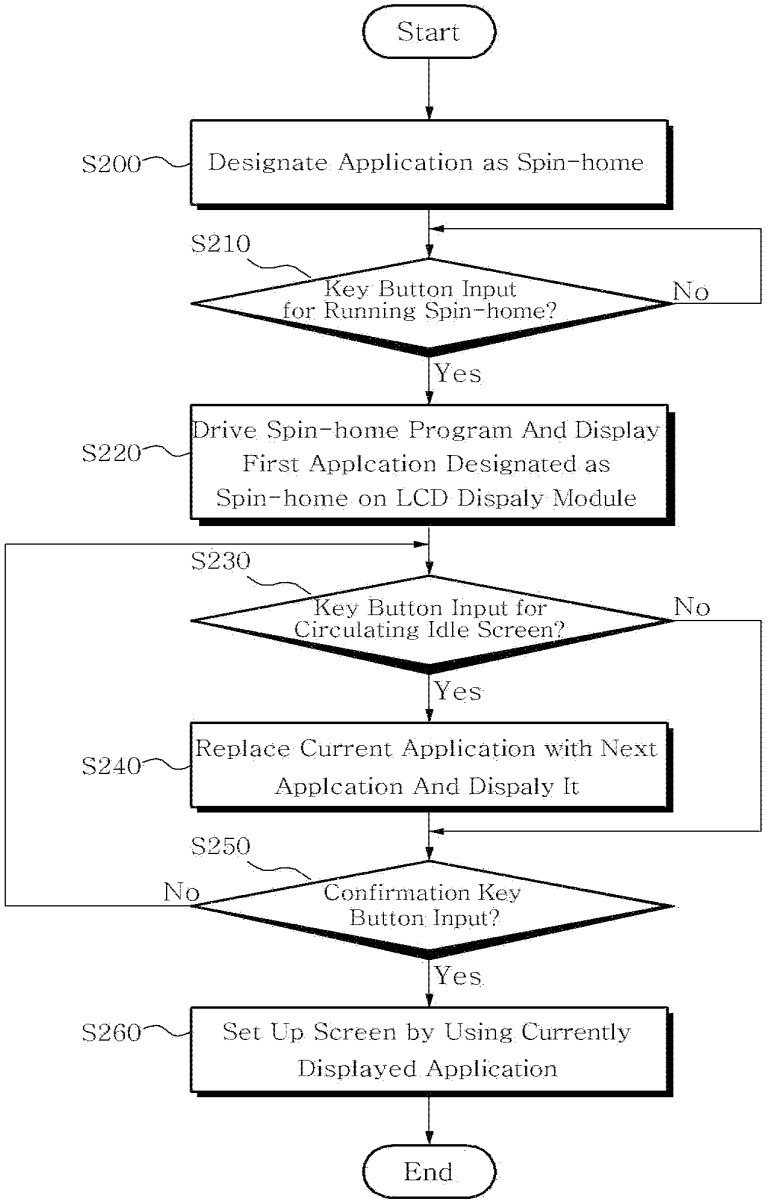
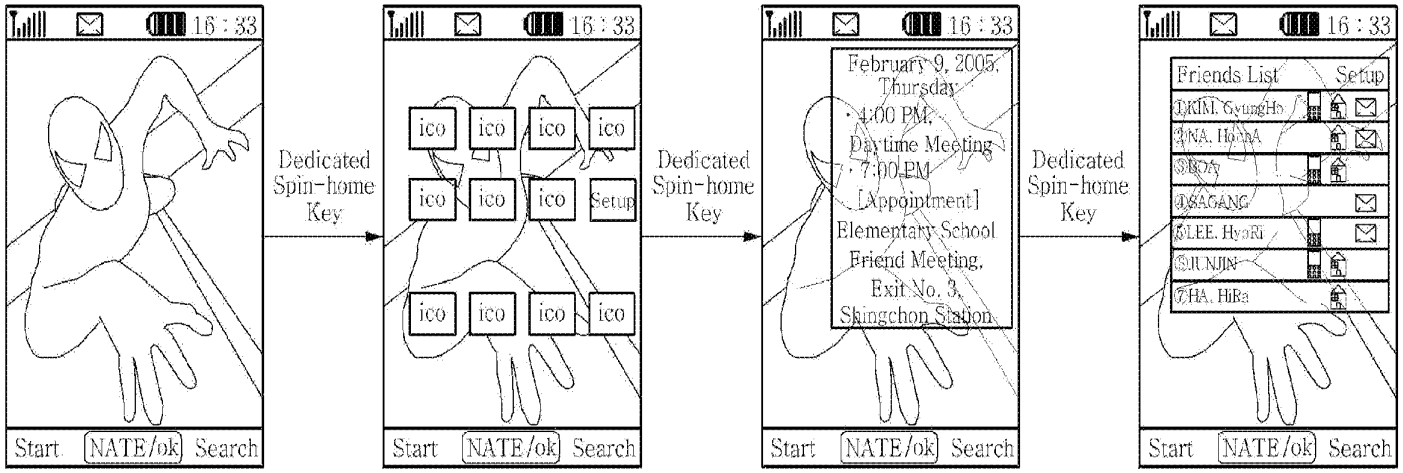

Start
S200
Designate Application as Spin-home
S210
Key Button Input for Running Spin-home?
No
Yes
S220
Drive Spin-home Program And Display First Applcation Designated as Spin-home on LCD Dispaly Module
S230
Key Button Input for Circulating Idle Screen?
No
Yes
S240
Replace Current Application with Next Applcation And Dispaly It
S250
Confirmation Key Button Input?
No
Yes
S260
Set Up Screen by Using Currently Displayed Application
End

FIG. 2

FIG. 3



3 a 3 b 3 c 3 d

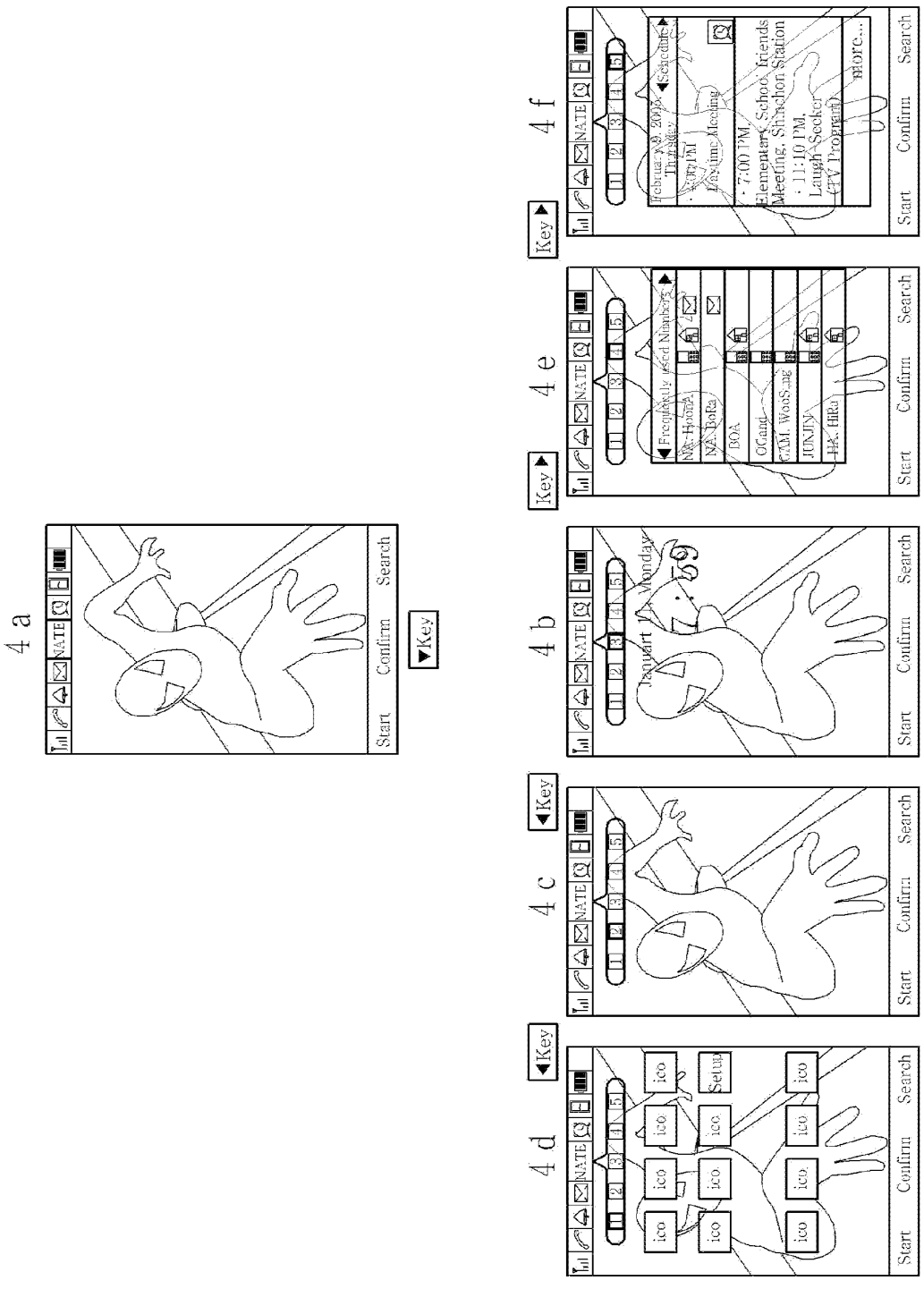
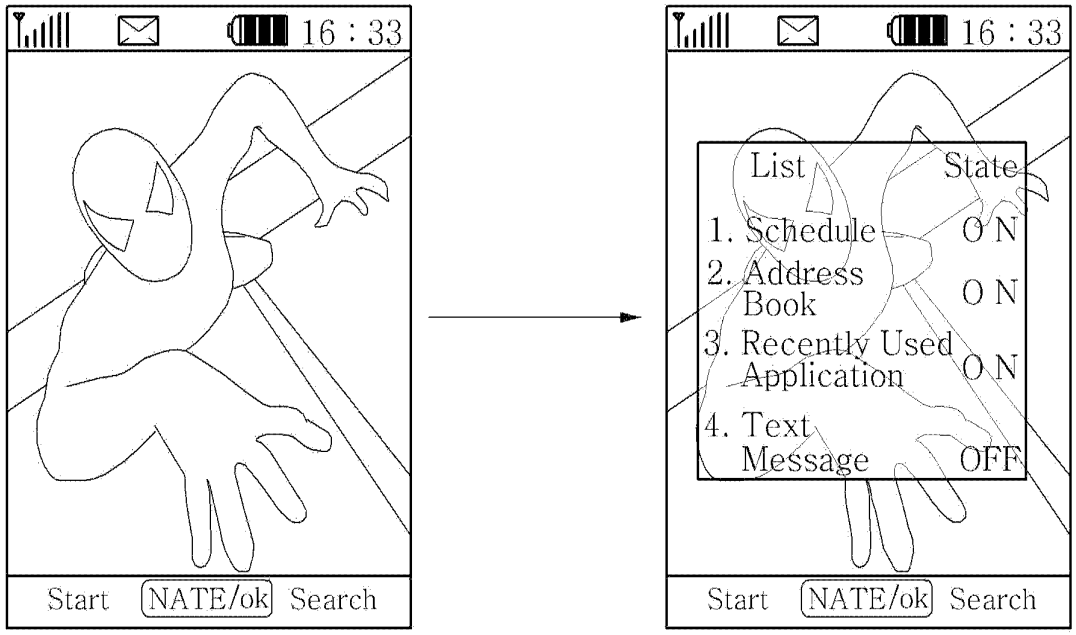

4 a
Start
Confirm
Search
Key
4 b
4 c
4 d
4 e
4 f
NATE
ico
Setup
Monday
7:59

FIG. 4

FIG. 5


16 : 33
Start
NATE/ok
Search
16 : 33
List
State
1. Schedule
O N
2. Address Book
O N
3. Recently Used Application
O N
4. Text Message
OFF
Start
NATE/ok
Search

5 a

5 b

DOCKET NO.

DECLARATION AND POWER OF ATTORNEY

As a below-named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention (Design, if applicable) entitled: METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL

the specification of which (check one):

- ☐ is attached hereto.
- ☐ was filed on _____ as U.S. Patent Application No. _____.
- ☑ was filed on 15 JUNE 2006 as International Application (PCT) No. PCT/KR2006/002302, and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose material information as defined in *Title 37, Code of Federal Regulations, § 1.56*. I hereby claim foreign priority benefits under *Title 35, United States Code § 119* of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which the priority is claimed.

PRIOR FOREIGN APPLICATION(S)

NUMBER	COUNTRY	DAY/MONTH/YEAR FILED	PRIORITY CLAIMED
			☐ Yes ☐ No
			☐ Yes ☐ No

I hereby claim the benefit under *Title 35, United States Code, § 120* of any United States application(s) or PCT international application(s) designating The United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of *Title 35, United States Code, § 112*, I acknowledge the duty to disclose material information as defined in *Title 37, Code of Federal Regulations, § 1.56* which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

APPLICATION NUMBER	FILING DATE	STATUS (Patented, Pending or Abandoned)
PCT/KR2006/002302	15 JUNE 2006	PENDING

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

POWER OF ATTORNEY: I (We) hereby appoint as my (our) attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Allan M. Lowe, Registration Number 19,641; Benjamin J. Hauptman, Registration Number 29,310; Kenneth M. Berner, Registration Number 37,093; James J. Bindseil, Registration Number 42,326; Randy A. Noranbrock, Registration Number 42,940; David E. Dougherty, Registration Number 19,576 Raymond J. Ho, Registration No. 41,838; and Cameron H. Tousi, Registration No. 43,197.

Send correspondence to:
LOWE HAUPTMAN & BERNER, LLP
CUSTOMER NO. 22429
1700 Diagonal Road, Suite 300
Alexandria, Virginia 22314

TELEPHONE CALLS TO:
Yoon S. Ham
(703) 535-7340

I hereby authorize the U.S. attorneys and agents named herein to accept and follow instructions from _____ to any actions to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the undersigned. In the event of a change in the person(s) from whom instructions may be taken, the U.S. attorneys will be so notified by the undersigned.

☐ *See following page(s) for additional joint inventors.*

(1) Full name of sole or first inventor: PARK, Youngmin

Inventor's signature: Park, Youngmin Date: September 10, 2007

Residence : Gyeonggi-do, Republic of Korea

Citizenship: Republic of Korea

Post Office Address: 121-701, Jangmimaeulkolon Apt., Yatap-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-788, Republic of Korea

(3) Full name of sole or first inventor: **KIM, Hoojong**
Inventor's signature: Kim, Hoojong Date: September 10, 2007
Residence : Seoul, Republic of Korea
Citizenship: Republic of Korea
Post Office Address: 7-108, Gaepo 1cha Woosung Apt., 503 Daechi 1-dong, Gangnam-gu, Seoul, 135-281, Republic of Korea

Docket No.: 126587-0008 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	:	
	:	
Youngmin PARK, et al.	:	Confirmation No.: Unknown
	:	
U.S. Patent Application No.: Unknown	:	Group Art Unit: Unknown
	:	
Filed: October 11, 2007	:	Examiner: Unknown

For: METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL

PRELIMINARY AMENDMENT

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

Dear Sir:

Prior to prosecution on the merits, please amend the above-identified application as follows:

- Amendments to the Specification;
- Amendments to the Abstract; and
- Remarks and arguments.

Amendments to the Specification:

Please insert the following heading and paragraph after the title of the application on page 1 of the specification:

--Cross Reference to Related Application

This application is the National Phase application of International Application No. **PCT/KR2006/002302,** filed **June 15, 2006**, which designates the United States and was published in English. This application, in its entirety, is incorporated herein by reference.--

Amendments to the Abstract:

Please replace the Abstract with the following amended Abstract. A clean copy of the replacement Abstract is provided on a separate sheet as required.

~~Disclosed is a~~ A method and an apparatus for providing a spin-home function for a mobile communication terminal[[.]] ~~The method for providing a spin-home function for a mobile communication terminal~~ having a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module so that applications are circulated and displayed on an idle screen. The method includes ~~the~~ steps of (a) designating at least one application as a spin-home; (b) running a spin-home program stored in the program memory[[,]] ~~when a user operates a first key button for driving the spin-home program, and displaying a first application designated as the spin-home on the LCD display module~~; (c) circulating next application designated as the spin-home and displaying the application on the LCD display module every time the user operates a second key button for circulating the idle screen; and (d) setting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button. ~~Even when an application is currently used for the idle screen, it can be easily replaced with another application by single key input. The idle screen setup can also be easily modified.~~

REMARKS

The specification has been amended to incorporate by reference the corresponding PCT applications. Further, the abstract has been amended to comply with 37 CFR 1.72. No new matter has been added.

It is respectfully submitted that the present application is in a condition for allowance and a Notice to that effect is earnestly solicited.

Respectfully submitted,

LOWE HAUPTMAN HAM & BERNER, LLP.

/Yoon S. Ham/

By:_____

Yoon S. Ham
Registration No. 45,307

1700 Diagonal Road
Alexandria, VA 22314
Direct Phone (703) 535-7340
Facsimile (703) 518-5499

Date: October 11, 2007

Enclosure: A clean copy of the replacement Abstract

Abstract

A method and an apparatus for providing a spin-home function for a mobile communication terminal having a key input module, a microprocessor, a program memory, a data storage module, and an LCD display module so that applications are circulated and displayed on an idle screen. The method includes steps of (a) designating at least one application as a spin-home; (b) running a spin-home program stored in the program memory; (c) circulating next application designated as the spin-home and displaying the application on the LCD display module every time the user operates a second key button for circulating the idle screen; and (d) setting an application currently displayed on the LCD display module as the idle screen when the user operates a confirmation key button.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin PARK
Filer:	Yoon Ham/Kwang Yup Chae
Attorney Docket Number:	126587-0008

Filed as Large Entity

U.S. National Stage under 35 USC 371 Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
National Stage Fee	1631	1	310	310
National Stage Search - all other cases	1632	1	510	510
National Stage Exam - all other cases	1633	1	210	210
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1030**

Electronic Acknowledgement Receipt

EFS ID:	2308705
Application Number:	11911277
International Application Number:	PCT/KR06/02302
Confirmation Number:	5567
Title of Invention:	METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL
First Named Inventor/Applicant Name:	Youngmin PARK
Customer Number:	22429
Filer:	Yoon Ham/Kwang Yup Chae
Filer Authorized By:	Yoon Ham
Attorney Docket Number:	126587-0008
Receipt Date:	11-OCT-2007
Filing Date:	
Time Stamp:	15:59:09
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	$1030
RAM confirmation Number	1087
Deposit Account	

File Listing:

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

1	Transmittal of New Application	71011_126587-0008_Transmittal.pdf	37106 aa21ffd67eaf4bb84016bef281410f30619547ee	no	2
Warnings:					
Information:					
2	Application Data Sheet	71011_126587-0008_Application_Datasheet.pdf	1018093 28cdf136997f4086baddb92234a6675328b48956	no	4
Warnings:					
Information:					
3		71011_126587-0008_Specification.pdf	91002 546156cbd3e31b85003d5e65a80a7160025a6bc9	yes	27

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Specification	1	20
Claims	21	26
Abstract	27	27

Warnings:					
Information:					
4	Drawings-only black and white line drawings	71011_126587-0008_Drawings.pdf	1834994 91c1074309b952f646d38be336f8fe56f39ee3ad	no	5
Warnings:					
Information:					
5	Oath or Declaration filed	71011_126587-0008_Oath.pdf	638602 d3a1b1f8dd82f4c24eb235fbeabff65498d1a33a	no	2
Warnings:					
Information:					
6		71011_126587-0008_Preliminary_Amendment.pdf	37837 834a4727e387643d5324570f7802a46b52fd0f3d	yes	5

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Preliminary Amendment	1	1
Specification	2	2

	Abstract		3		3
	Applicant Arguments/Remarks Made in an Amendment		4		4
	Abstract		5		5
Warnings:					
Information:					
7	Fee Worksheet (PTO-06)	fee-info.pdf	8439 ac8cbb5f86116a117592ed8e63302781c1f73856	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	3666073		

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.

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371	ATTORNEY'S DOCKET NUMBER 126587-0008 U.S. APPLICATION NO. (if known, see 37 CFR 1.5)

INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED
PCT/KR2006/002302	June 15, 2006	

TITLE OF INVENTION

METHOD AND APPARATUS FOR PROVIDING SPIN-HOME FUNCTION FOR MOBILE COMMUNICATION TERMINAL

APPLICANT(S) FOR DO/EO/US

Youngmin PARK; Hoojong KIM

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) as indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
   a. ☒ is transmitted hereto (required only if not communicated by the International Bureau).
   b. ☒ has been communicated by the International Bureau.
   c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
   a. ☐ is attached hereto.
   b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
   a. ☐ are attached hereto (required only if not communicated by the International Bureau).
   b. ☐ have been communicated by the International Bureau.
   c. ☐ have not been made; however, the time limit for making such amendment has NOT expired.
   d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98; PTO-1449 Form and Foreign References
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☒ An Application Data Sheet under CFR 1.76
15. ☐ A substitute specification.
16. ☒ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13*ter*.2 and 37 CFR 1.821–1.825
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4)
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4)
20. ☐ Other items or information:

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)	INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER
	PCT/KR2006/002302	**126587-0008**

The following fees are submitted:	CALCULATIONS	PTO USE ONLY
21. ☒ Basic national fee (37 CFR 1.492(a)) **$310.00**	**$ 310.00**	
22. ☒ Examination fee (37 CFR 1.492(c)) If the written opinion prepared by USI/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... **$0** All other situations **$210.00**	**$ 210.00**	
23. ☒ Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... **$0** Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Search Authority ..... **$100.00** International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB ..... **$410.00** All other situations **$510.00**	**$ 510.00**	
TOTAL OF 21, 22 and 23 =	**$ 1030.00**	
☐ Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing filed in an electronic medium) (37 CFR 1.492(j)). The fee is **$250** for each additional 50 sheets of paper or fraction thereof		

Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round **up** to a whole number)	RATE		
32- 100 =	0/50 =0	0	× $260.00	$	
Surcharge of **$130.00** for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				$	

CLAIMS	NUMBER FILED		NUMBER EXTRA	RATE		
Total Claims	15	- 20 =	0	× $ 50.00	$ **0.00**	
Independent Claims	2	- 3 =	0	× $210.00	$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ $370.00	$	
				TOTAL OF ABOVE CALCULATIONS =	$ **1030.00**	
☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.					$	
				SUBTOTAL =	$ **1030.00**	
Processing fee of **$130.00** for furnishing the English translation later than the 30 months from the earliest claimed priority date (37 CFR 1.492(f)). +					$ **0.00**	
				TOTAL NATIONAL FEE =	$ **1030.00**	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). **$40.00** per property +					$ **0.00**	
				TOTAL FEES ENCLOSED =	$ **1030.00**	
					Amount to be refunded:	
					Amount to be charged	

a. ☐ A check in the amount of $ _____.00 to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. 07-1337 in the amount of $ ____ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-1337. A duplicate copy of this sheet is enclosed.

d. ☒ Fees are to be charged to a credit card. **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.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. Kindly use the attorneys' address associated with the following Customer Number for future correspondence.

SEND ALL CORRESPONDENCE TO:

LOWE HAUPTMAN HAM & BERNER, LLP
1700 Diagonal Road, Suite 300
Alexandria, VA 22314
(703) 535-7360

Customer No. 22429
PATENT TRADEMARK OFFICE

/Yoon S. Ham/
SIGNATURE
Yoon S. HAM
NAME
45,307
REGISTRATION NUMBER

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 08/13/2009

PKIDWELL SALE #00000001 Mailroom Dt: 10/11/2007 11911277
01 FC : 1642 410.00 OP

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 08/13/2009

PKIDWELL ADJ #00000003 Mailroom Dt: 10/11/2007
Seq No: 1087 Sales Acctg Dt: 10/12/2007 11911277
02 FC : 1632 -510.00 OP