

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:



Practitioners associated with Customer Number:

58027

OR



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

Name	Registration Number

Name	Registration Number

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

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



The address associated with Customer Number:

58027

OR



Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone			Email

Assignee Name and Address: Pantech Inc.
179 Seongam-ro, Mapo-gu, Seoul, Republic of Korea

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

SIGNATURE of Assignee of Record

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

Signature	<i>G/ E S Lee</i>	Date	<i>November 19, 2015</i>
Name	<i>Jong-Seok Lee</i>	Telephone	<i>82-2-2030-0491</i>
Title	<i>IP Legal Team Leader</i>		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Confidential / P1717B

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: Pantech Co., Ltd.Application No./Patent No.: _____ Filed/Issue Date: 2016-01-29Titled: METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINALPantech Co., Ltd., a Corporation

(Name of Assignee)

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

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

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

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

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

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

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

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

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

1. From: Seul Ki CHOI et al. To: PANTECH & CURITEL COMMUNICATIONS, INC.

The document was recorded in the United States Patent and Trademark Office at

Reel 018146, Frame 0267, or for which a copy thereof is attached.2. From: PANTECH & CURITEL COMMUNICATIONS, INC. To: PANTECH CO., LTD.

The document was recorded in the United States Patent and Trademark Office at

Reel 036537, Frame 0734, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

4. From: _____ To: _____

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

5. From: _____ To: _____

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

6. From: _____ To: _____

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

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

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

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

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

/dongil moon/

2016-01-29

Signature

Date

Dongil Moon

Patent Agent (Reg. No. L0830)

Printed or Typed Name

Title or Registration Number

Privacy Act Statement

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

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

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

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of
Invention

**METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS
DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL**

As the below named inventor, I hereby declare that:

This declaration
is directed to:

☐

The attached application, or

☒

United States application or PCT international application number 14/840,844

filed on 2015-08-31

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Seul Ki CHOI

Date (Optional): 2015.11.11

Signature: [Signature]

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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-PAT-9199 and select option 2.

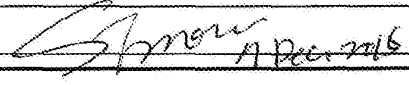
Privacy Act Statement

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 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).
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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.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>14/840,844</u> filed on <u>2015-08-31</u> The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. LEGAL NAME OF INVENTOR Inventor: <u>Sang Jin YOON</u> Date (Optional): _____ Signature: <u></u> Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P4101USC1C1
		Application Number	
Title of Invention	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE 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.)
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Inventor Information:

Inventor 1 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Seul Ki		CHOI	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				
City	Ansan-si	Country of Residence ⁱ	KR	
Mailing Address of Inventor:				
Address 1		Jugong Green Ville Apts. 10 Block 1002-1404		
Address 2		I-Dong, Sangnok-gu, Gyeonggi-do		
City	Ansan-si	State/Province		
Postal Code	426-871	Country ⁱ	KR	
Inventor 2 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Sang Jin		YOON	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				
City	Anyang-si	Country of Residence ⁱ	KR	
Mailing Address of Inventor:				
Address 1		Eunhasu Hanyang Apts. 504-605		
Address 2		Bisan-Dong, Dongan-Gu, Gyeonggi-do		
City	Anyang-si	State/Province		
Postal Code	431-050	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).

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	P4101USC1C1
		Application Number	
Title of Invention	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		

☐ **An Address is being provided for the correspondence information of this application.**

Customer Number	58027		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		
Attorney Docket Number	P4101USC1C1	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	10	Suggested Figure for Publication (if any)	

Filing By Reference:

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

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

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

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

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

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	58027		

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	P4101USC1C1
		Application Number	
Title of Invention	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
	Continuation of	14840844	2015-08-31		
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14840844	Continuation of	11495863	2006-07-28	9122518	2015-09-01
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This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

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Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ^j (if applicable)
10-2005-0073877	KR	2005-08-11	
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Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ^j (if applicable)
10-2005-0102198	KR	2005-10-28	
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Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P4101USC1C1
		Application Number	
Title of Invention	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P4101USC1C1
		Application Number	
Title of Invention	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		

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When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P4101USC1C1
		Application Number	
Title of Invention	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
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If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
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If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Applicant is an Organization check here. ☒			
Organization Name	PANTECH CO., LTD.		
Mailing Address Information For Applicant:			
Address 1	Pantech Bldg., I-2, DMC Sangam-dong		
Address 2	Mapo-gu		
City	Seoul	State/Province	
Country	KR	Postal Code	121-792
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P4101USC1C1
		Application Number	
Title of Invention	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		

Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
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Signature	/dongil moon/		Date (YYYY-MM-DD)	2016-01-29
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P4101USC1C1
		Application Number	
Title of Invention	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL

CROSS-REFERENCE TO RELATED PATENT APPLICATIONS

5 **[0001]** This application is a Continuation of U.S. Patent Application No. 14/840,844,
filed on August 31, 2015, which is a Continuation of U.S. Patent Application No. 11/495,863,
filed on July 28, 2006, now Patent No. 9,122,518, and claims priority from and the benefit of
Korean Patent Application No. 10-2005-0073877 filed on August 11, 2005, and Korean Patent
Application No. 10-2005-0102198 filed on October 28, 2005, each of which is hereby
10 incorporated by reference for all purpose as if fully set forth herein.

BACKGROUND

[0002] FIELD

[0003] The present invention relates to a method for controlling a plurality of work
15 processes in a multitasking mobile terminal, and more particularly, to a method for selecting a
second work process during a first work process and controlling a predetermined function of the
selected second work process.

[0004] DISCUSSION OF THE BACKGROUND

[0005] With the recent advance of mobile communication technology, various kinds of
20 mobile terminals such as hand-held phones and personal digital assistants • (PDAs) are
commercially available. The mobile terminals have a wireless communication function, a camera
function, a multimedia play function, an Internet connection function, and the like. Also, as the
performance of microprocessors built in the mobile terminals is improved, a plurality of work

processes can be performed concurrently. For example, an MP3 music file can be played during a phone call, or a short message service (SMS) message can be sent while an MP3 music file is played.

[0006] FIG. 1 is a functional block diagram of a conventional multitasking mobile terminal that concurrently performs a plurality of work processes. A mobile chipset 1 controls an overall operation of the mobile terminal according to user commands. The mobile chipset 1 transmits a control signal through a data bus 3 to a camera module 5, an MP3 module 7, and an Internet module 9 according to the user commands. Work processes of the camera module 5, the MP3 module 7, and the Internet module 9 are concurrently performed according to the control signal.

[0007] FIG. 2 is a flowchart illustrating a conventional method for selecting a second work process during a first work process in a multitasking mobile terminal that concurrently performs a plurality of work processes. In step S10, while a first work process is performed, a user command for a second work process is inputted. In step S12, a menu window for selecting a new work process is displayed on a display of the mobile terminal in response to the user command. In step S14, the user selects a desired new work process through the displayed menu window. In steps S16 and S17, when the user wants to change the selected process into another new process, the selected work process is terminated. In step S18, a user command for selecting the another new work process is inputted. In step S19, the another new work process is selected through the displayed menu window in response to the user command.

[0008] FIG. 3 is a flowchart chart illustrating a conventional method for controlling a predetermined function of a second work process during a first work process in a multitasking mobile terminal that concurrently performs a plurality of work processes.

15 **[0009]** In step S20, assuming that the first work process is an MP3 play process and the second work process is an SMS message creation process, a first command of user for the SMS message creation process is inputted while an MP3 music file is played. In step S21, a screen for the SMS message creation process is displayed in response to the first command of user, and the SMS message creation process is performed while the MP3 music file is played. In step S23, it is determined whether or not a second command of user for controlling a function of the MP3 play process is inputted while an SMS message is created. In steps S25 and S27, when the second command of user is inputted, the SMS message that is being created is stored in the memory and the SMS message creation process is terminated. In step S29, after the termination of SMS message creation process, the function of the MP3 play process is controlled. When the SMS message creation process is terminated, a screen for the MP3 play process is again displayed, and a third command of user for controlling the function of the MP3 play process is inputted. A control signal corresponding to the third command of user is generated and the function of the MP3 play process is controlled.

15

SUMMARY

[0010] In the conventional method for selecting the work process, when selecting a work process that is concurrently performed, the user has to select a new work process through a displayed menu window. Also, in order to terminate a predetermined work process among a plurality of work processes that are concurrently performed and select a new work process, the user has to select the new work process through the menu window.

[0011] Also, in the conventional method for controlling a function of the work process, the user has to terminate an SMS message creation process so as to control a function of an MP3

play process (e.g., volume control, list selection of MP3 music files) while creating an SMS message. In case where the SMS message creation process is terminated, the SMS message that is being created is deleted or stored in a predetermined memory space such as a temporary mailbox. Consequently, the conventional method is inconvenient in that the user has to again
5 select the SMS message creation process and create the SMS message or reload the SMS message stored in the temporary mailbox.

[0012] The present invention provides a method for selecting a work process of a multitasking mobile terminal through an icon corresponding to the work process.

[0013] The present invention also provides a method for controlling a function of a work
10 process through an activated pop-up menu in a multitasking mobile terminal that concurrently performs a plurality of work processes.

[0014] According to an aspect of the present invention, there is provided a method for selecting a second work process during a first work process in a multitasking mobile terminal that concurrently performs the first work process and the second work process. The selecting
15 method includes: inputting a user command for selecting the second work process; and displaying an icon corresponding to the second work process in response to the user command, and selecting the second work process based on the displayed icon.

[0015] According to another aspect of the present invention, there is provided a method for controlling a predetermined function of a second work process during a first work process in
20 a multitasking mobile terminal that concurrently performs the first work process and the second work process. The controlling method includes: inputting a first command of user for selecting a predetermined function of the second work process; activating a pop-up menu for controlling the predetermined function of the second work process in response to the first command of user; and

controlling the predetermined function of the second work process through the activated pop-up menu.

BRIEF DESCRIPTION OF THE DRAWINGS

5 **[0016]** The above and other features and advantages of the present invention will become more apparent by describing in detail exemplary embodiments thereof with reference to the attached drawings in which:

[0017] FIG. 1 is a functional block diagram of a conventional multitasking mobile terminal that concurrently performs a plurality of work processes;

10 **[0018]** FIG. 2 is a flowchart illustrating a conventional method for selecting a second work process during a first work process in a multitasking mobile terminal that concurrently performs a plurality of work processes;

[0019] FIG. 3 is a flowchart illustrating a conventional method for controlling a function of a second work process during a first work process in a multitasking mobile terminal that
15 concurrently performs a plurality of work processes;

[0020] FIG. 4 is a flowchart illustrating a method for selecting a second work process in a multitasking mobile terminal that concurrently performs a first work process and the second work process;

[0021] FIGS. 5A, 5B, 5C, and 5D illustrate the displayed icons of the work processes
20 according to an embodiment of the present invention;

[0022] FIG. 6 is a functional block diagram of an apparatus for selecting a work process of a multitasking mobile terminal that concurrently performs a first work process and a second work process according to an embodiment of the present invention;

[0023] FIG. 7 is a flowchart illustrating a method for controlling a function of an MP3 play process during the creation of an SMS message in a multitasking mobile terminal that concurrently performs the MP3 play process and the SMS message creation process;

[0024] FIGS. 8A and 8B illustrate the displayed pop-up menus according to an embodiment of the present invention; and

[0025] FIG. 9 is a functional block diagram of an apparatus for controlling a function of the MP3 play process in the multitasking mobile terminal that concurrently performs the MP3 play process and the SMS message creation process according to an embodiment of the present invention.

DETAILED DESCRIPTION OF THE ILLUSTRATED EMBODIMENTS

[0026] Hereinafter, a method for selecting a second work process during a first work process and controlling a function of the selected second work process according to the present invention will be described in detail with reference to the accompanying drawings.

[0027] FIG. 4 is a flowchart illustrating a method for selecting a second work process in a multitasking mobile terminal that concurrently performs a first work process and the second work process according to an embodiment of the present invention. Referring to FIG. 4, in step S30, a user command for selecting the second work process is inputted. In step S32, while the first work is processed through the first work process of the mobile terminal, a first command of user for multitasking of the second work process together with the first work is inputted. Icons corresponding to the work processes are displayed in response to the first user command. The icons are previously designated with respect to all work processes of the mobile terminal. Every when the first command of user is inputted, the icons are displayed in turn.

[0028] In step S34, when an icon corresponding to the second work process the user wants to select is displayed, a second command of user for selecting the displayed icon is inputted. In step S36, the first work of the first work process and the second work of the second work process are concurrently processed in response to the second command of user. For
5 example, when the user intends to send an SMS message while an MP3 music file is played, an MP3 play process and an SMS message send process are divided in quantum units and alternately processed at regular time intervals.

[0029] In step S38, an icon corresponding to the first work process is preferably displayed together with an activated screen image of the second work process. The user can
10 know from the displayed icon that the first work process is concurrently performed in the second work process.

[0030] FIG. 5A, FIG. 5B, FIG. 5C, and FIG. 5D illustrate the displayed icons of the work processes according to an embodiment of the present invention.

[0031] Referring to FIG. 5A, an icon indicating an MP3 play process is displayed in a
15 first portion of a display 40, while an MP3 music file is played.

[0032] Referring to FIG. 5B, when a first command of user for sending an SMS message is inputted while an MP3 music file is played, an icon indicating an SMS message creation process is displayed in a first portion of a display 41.

[0033] Referring to FIG. 5C, when a second command of user for selecting a displayed
20 SMS icon is inputted, an SMS message creation process is activated, and an MP3 play process and the SMS message creation process are performed concurrently. Preferably, an icon corresponding to the MP3 play process that is performed concurrently is displayed in a first portion of a display 42 together with a screen of the SMS message creation process.

[0034] Referring to FIG. 5D, when a first command of user for selecting a new work process of a camera mode is inputted, an icon corresponding to a camera mode work process is displayed in a first portion of a display 43 in response to the first user command. By selecting the displayed camera mode icon, the work process for sending an SMS message is changed to the camera mode work process.

[0035] FIG. 6 is a functional block diagram of an apparatus for selecting the work process of the multitasking mobile terminal that concurrently performs the first work process and the second work process. Referring to FIG. 6, the apparatus according to the present invention includes a user interface 50, a second work process selecting unit 60, a multiprocessing unit 70, a display 80, a data bus 90, and a plurality of application units 92, 94 and 96. The plurality of application units 92, 94 and 96 are controlled via the data bus 90 by the multiprocessing unit 70.

[0036] A user commands for changing the work process of the mobile terminal is inputted through the user interface 50. The user interface 50 may be a voice recognition unit for recognizing user's voice, or a motion recognition unit for recognizing a motion of the mobile terminal.

[0037] A first command of user for selecting the second work process that is concurrently performed together with the first work process of the mobile terminal is inputted through the user interface 50 to the second work process selecting unit 60. The second work process selecting unit 60 includes an icon activating unit 62 and a selecting unit 64. Every when the first command of user is inputted, the icon activating unit 62 sequentially displays icons corresponding to the respective work processes of the mobile terminal through the display 80. A second command of user is inputted through the user interface 50 to the selecting unit 64 so as to select the second work process concurrently performed together with the first work process

among the sequentially displayed icons. The selecting unit 64 provides the work process corresponding to the selected icon to the multiprocessing unit 70 in response to the second user command.

[0038] The multiprocessing unit 70 includes a temporary queue 72 and a processing unit 74. The temporary queue 72 stores the first work process and the second work process, which are provided from the selecting unit 64 and performed concurrently. The processing unit 74 generates a control signal for alternately performing the first work process and the second work process, which are stored in the temporary queue 72, at regular time intervals. The processing unit 74 is connected through the data bus 90 to the MP3 module 92, the camera module 94, and the Internet module 96. The MP3 module 92, the camera module 94, and the Internet module 96 perform a work process of an MP3 play mode, a work process of a camera mode, and a work process of an Internet connection mode in response to the control signal outputted from the processing unit 74, respectively. Other applications can be further added to the mobile terminal according to the fields to which the present invention is applied. It is apparent to those skilled in the art that these embodiments will fall within the scope of the present invention.

[0039] FIG. 7 is a flowchart illustrating a method for controlling a function of the MP3 play process, while the SMS message is created, according to an embodiment of the present invention.

[0040] Referring to FIG. 7, in step S40, a first command of user is inputted so as to control the function of the MP3 play process while the SMS message is created. In step S42, a pop-up menu for controlling the function of the MP3 play process is activated in the display of the mobile terminal in response to the first command of user.

[0041] In step S44, when the pop-up menu is activated, a second command of user is

inputted for controlling the function of the MP3 play process, and the function of the MP3 play process is controlled in response to the second command of user. When the pop-up menu is activated, a pop-up process for controlling the function of the MP3 play process is assigned to a temporary queue by using the activated pop-up menu, and the pop-up process is concurrently
5 performed together with the creation of the SMS message.

[0042] That is, the pop-up process and the SMS message creation process are divided in quantum units, and the pop-up process and the SMS message send process are alternately performed at regular time intervals. When the second command of user is inputted, the pop-up process generates the control signal corresponding to the second command of user and provides
10 the generated control signal to the MP3 play process. The MP3 play process controls the function of the MP3 play process in response to the control signal. '

[0043] In step S46, it is determined whether or not a third command of user for returning to the SMS message creation process is inputted. In step S48, when the third command of user is inputted after the control of the function of the MP3 play process is completed, the activated
15 pop-up menu is deactivated. Even though the pop-up menu is deleted from the temporary queue and the pop-up process is terminated, the MP3 play process and the SMS message creation process continue to be performed and the user can keep on creating the SMS message while listening to the MP3 music.

[0044] Preferably, the first to third commands of user may be inputted through a
20 predetermined key arranged at a keypad of the mobile terminal, a user's voice, a motion of the mobile terminal, and the like.

[0045] Preferably, the first and third commands of user may be inputted through the identical key of the mobile terminal.

[0046] FIG. 8A and FIG. 8B illustrate the displayed pop-up menus according to an embodiment of the present invention.

[0047] FIG. 8A illustrates a pop-up menu displayed when the MP3 play process and the SMS message creation process are concurrently performed. Preferably, an icon 44 indicating the MP3 play process concurrently performed together with the SMS message creation process is also displayed in a portion of a display.

[0048] FIG. 8B illustrates a pop-up menu displayed in response to the first command of user. The pop-up menu 46 has a predetermined format, and image information for the pop-up menu 46 displayed is stored in the memory of the mobile terminal. Preferably, in response to the first command of user, the pop-up menu 46 may be displayed brightly and clearly, while the screen corresponding to the SMS message process may be displayed darkly and unclearly.

[0049] FIG. 9 is a functional block diagram of an apparatus for controlling the function of the MP3 play process in the multitasking mobile terminal that concurrently performs the MP3 play process and the SMS message creation process according to an embodiment of the present invention. Referring to FIG. 9, the apparatus according to the present invention includes a user interface 100, a pop-up menu activating unit 110, a function controlling unit 120, a temporary queue 130, a display 140, a data bus 150, a plurality of application modules 161, 163 and 165, and a memory 170.

[0050] A first command of user is inputted through the user interface 100. The pop-up menu activating unit 110 acquires image information of a pop-up menu stored in the memory 170 in a predetermined format through the data bus 150, and activates the pop-up menu on the display 140. Meanwhile, the temporary queue 130 stores a pop-up process.

[0051] A second command of user for controlling the function of the MP3 play process is

inputted through the user interface 100, and the function controlling unit 120 generates a first control signal for controlling the pop-up menu in response to the second command of user. The MP3 play process, the SMS message creation process, and the pop-up process, which are stored in the temporary queue 130, are alternately performed at regular time intervals. The generated
5 first control signal is transferred through the data bus 150 to the MP3 module, and the function of the MP3 play process is controlled.

[0052] A third command of user for terminating the pop-up process is inputted through the user interface 100. The function controlling unit 120 generates a second control signal for deactivating the pop-up menu in response to the third command of user. The generated second
10 control signal is transferred through the data bus 150 to the temporary queue 130. The temporary queue 130 deletes the pop-up process in response to the second control signal, thus terminating the pop-up process.

[0053] The embodiments of the present invention can be written as computer programs and can be implemented in general-use digital computers that execute the programs using a
15 computer readable recording medium. Examples of the computer readable recording medium include magnetic storage media (e.g., ROM, floppy disks, hard disks), optical recording media (e.g., CD-ROMs, or DVDs), and storage media such as carrier waves (e.g., transmission through the Internet).

[0054] The above-mentioned method for selecting the second work process according to
20 the present invention can simply select the second work process by selecting the icons sequentially displayed while the first work process is performed.

[0055] Also, the above-described method for controlling the function of the second work process according to the present invention can simply control the function of the MP3 play

process during the creation of the SMS message by controlling the function of the MP3 play process through the pop-up menu in the multitasking mobile terminal that concurrently performs the MP3 play process and the SMS message creation process.

[0056] Further, the above-described method for controlling the function of the second
5 work process according to the present invention can continuously create the SMS message after controlling the function of the MP3 play process by controlling the function of the MP3 play process through the pop-up menu in the multitasking mobile terminal that concurrently the MP3 play process and the SMS message creation process.

[0057] While the present invention has been particularly shown and described with
10 reference to exemplary embodiments thereof, it will be understood by those of ordinary skill in the art that various changes in form and details may be made therein without departing from the spirit and scope of the present invention as defined by the following claims.

WHAT IS CLAIMED IS:

- 1 1. A method for controlling a predetermined function of a second work process
2 during a first work process in a multitasking mobile terminal that performs the first work process
3 and the second work process, the method comprising:
4 displaying an icon corresponding to the first work process in a designated portion of a
5 display;
6 if the first work process is selected, displaying a screen of the first work process;
7 in response to a first command for selecting the second work process, performing
8 sequential display of icons such that an icon corresponding to the second work process is
9 displayed, wherein the icon corresponding to the second work process is displayed in a
10 designated portion of the display;
11 in response to a second command for changing to the second work process, replacing the
12 screen of the first work process with a screen of the second work process;
13 controlling the multitasking of the second work process and the first work process;
14 in response to a third command for activating a control menu for controlling a
15 predetermined function of the first work process, activating the control menu for controlling the
16 predetermined function of the first work process; and
17 in response to a fourth command for controlling the predetermined function of the first
18 work process through the activated control menu, controlling the predetermined function of the
19 first work process through the activated control menu.
- 1 2. The method of claim 1, wherein the controlling the predetermined function of the

2 first work process comprises:
3 generating a control signal for controlling the predetermined function of the first work
4 process in response to the fourth command; and
5 controlling the predetermined function of the first work process in response to the
6 generated control signal.

1 3. The method of claim 1, further comprising:
2 in response to a fifth command for deactivating the activated control menu, deactivating
3 the activated control menu.

1 4. The method of claim 1, wherein the first work process is an MP3 play process.

1 5. The method of claim 1, wherein an item of the first work process is displayed
2 relatively brighter or clearer than the screen of the first work process.

1 6. The method of claim 1, wherein an item of the second work process is displayed
2 relatively brighter or clearer than an item of a work process other than the second work process.

1 7. The method of claim 3, wherein the third command and the fifth command are
2 inputted through at least one of a predetermined key, a user's voice, and a motion of the mobile
3 terminal.

1 8. The method of claim 1, wherein, in response to a repetition of the first command,

2 performing sequential display of icons such that a displayed icon disappears from a screen of the
3 mobile terminal and an icon appears on the screen of the mobile terminal.

1 9. The method of claim 1, wherein an icon to be displayed in the designated portion
2 is replaced with an icon that is different from the icon corresponding to the second work process
3 in response to the second command.

1 10. A method for selecting a second work process during a first work process in a
2 multitasking mobile terminal that performs the first work process and the second work process in
3 a multitasking environment, the method comprising:
4 displaying an icon corresponding to the first work process in a designated portion of a
5 display;
6 if the first work process is selected, displaying a screen of the first work process;
7 in response to a first command for selecting the second work process, performing
8 sequential display of icons such that an icon corresponding to the second work process is
9 displayed, wherein the icon corresponding to the second work process is displayed in a
10 designated portion of the display;
11 in response to a second command for changing to the second work process, replacing the
12 screen of the first work process with a screen of the second work process; and
13 controlling the multitasking of the second work process and the first work process,
14 wherein an item of the second work process is displayed relatively brighter or clearer
15 than an item of a work process other than the second work process.

1 11. The method of claim 10, wherein, in response to a repetition of the first command,
2 performing sequential display of icons such that a displayed icon disappears from a screen of the
3 mobile terminal and an icon appears on the screen of the mobile terminal.

1 12. The method of claim 10, wherein an icon to be displayed in the designated portion
2 is replaced with an icon that is different from the icon corresponding to the second work process
3 in response to the second command.

1 13. The method of claim 10, wherein the first command and the second command are
2 inputted through at least one of a predetermined key, a user's voice, and a motion of the mobile
3 terminal.

1 14. The method of claim 10, wherein the screen of the first work process is displayed
2 together with sequentially displayed icons corresponding to respective work processes of the
3 mobile terminal.

1 15. A method for selecting a second work process during a first work process in a
2 multitasking mobile terminal that performs the first work process and the second work process in
3 a multitasking environment, the method comprising:
4 displaying an icon corresponding to the first work process in a designated portion of a
5 display;
6 if the first work process is selected, displaying a screen of the first work process;
7 in response to a first command for selecting the second work process, performing

8 sequential display of icons such that an icon corresponding to the second work process is
9 displayed, wherein the icon corresponding to the second work process is displayed in a
10 designated portion of the display;

11 in response to a second command for changing to the second work process, replacing the
12 screen of the first work process with a screen of the second work process; and

13 controlling the multitasking of the second work process and the first work process,

14 wherein an item of the first work process is displayed relatively brighter or clearer than
15 the screen of the first work process.

16 16. The method of claim 15, wherein, in response to a repetition of the first command,
17 performing sequential display of icons such that a displayed icon disappears from a screen of the
18 mobile terminal and an icon appears on the screen of the mobile terminal.

1 17. The method of claim 15, wherein an icon to be displayed in the designated portion
2 is replaced with an icon that is different from the icon corresponding to the second work process
3 in response to the second command.

1 18. The method of claim 15, wherein the first command and the second command are
2 inputted through at least one of a predetermined key, a user's voice, and a motion of the mobile
3 terminal.

19. The method of claim 15, wherein the screen of the first work process is displayed
5 together with sequentially displayed icons corresponding to respective work processes of the

mobile terminal.

ABSTRACT

Provided is a method for controlling a plurality of work processes in a multitasking mobile terminal, and more particularly, a method for selecting a second work process during a first work process and controlling a predetermined function of the selected second work process.

- 5 In the controlling method, icons corresponding to the respective work processes are displayed in response to a user command, and a desired work process is selected through the displayed icons. A predetermined function of the selected work process is controlled through a pop-up menu activated in response to the user command.

FIG. 1
(PRIOR ART)

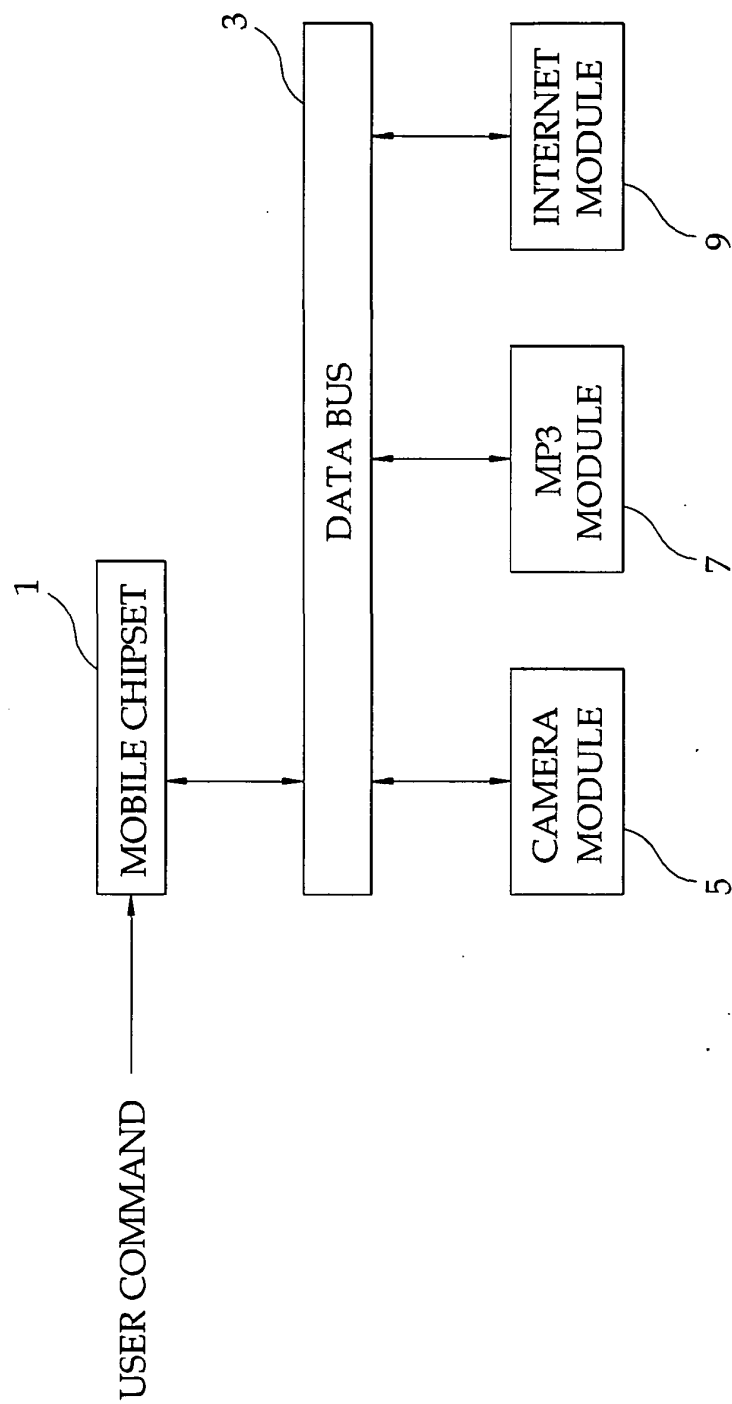


FIG. 2
(PRIOR ART)

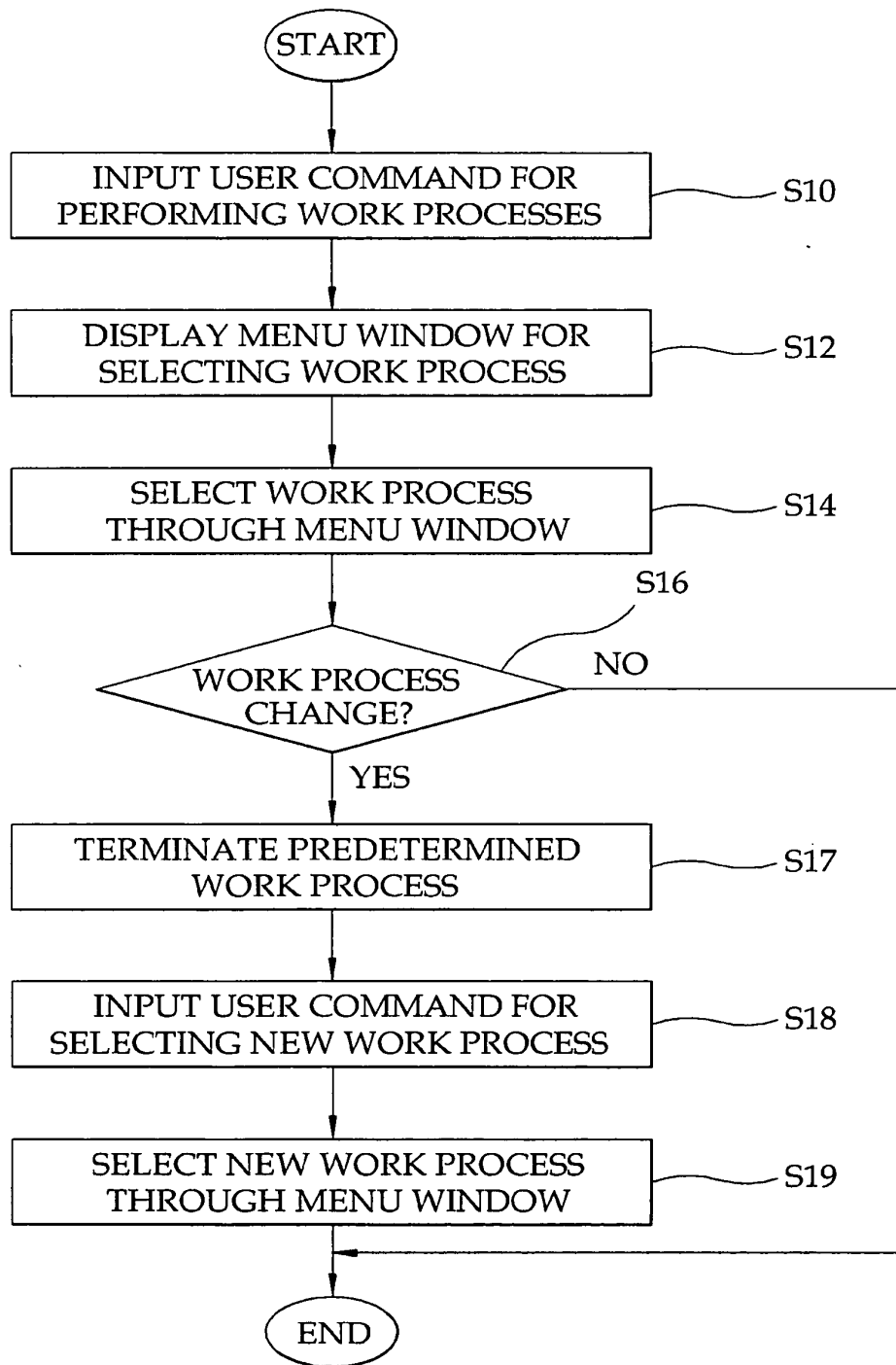


FIG. 3
(PRIOR ART)

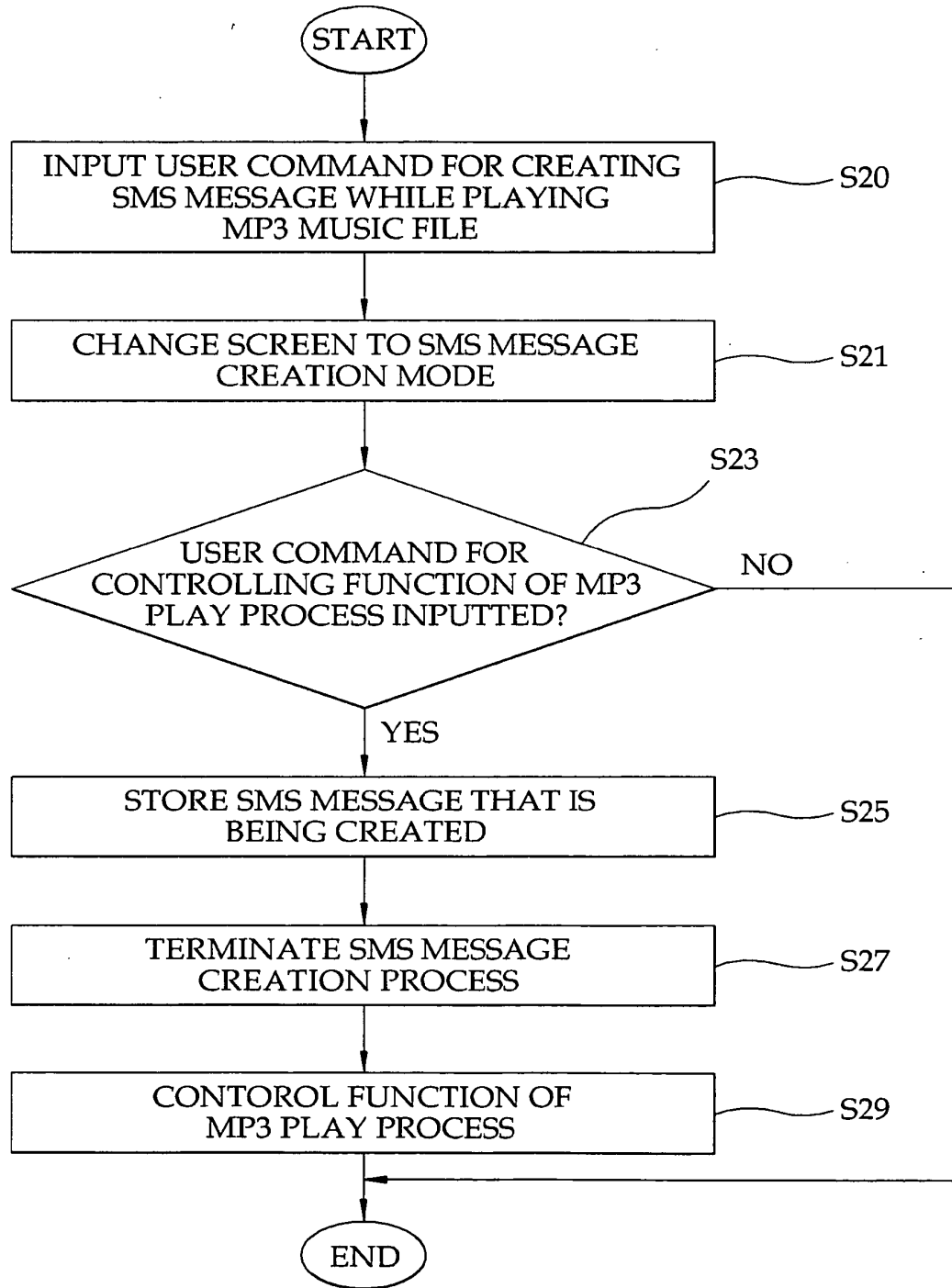


FIG. 4

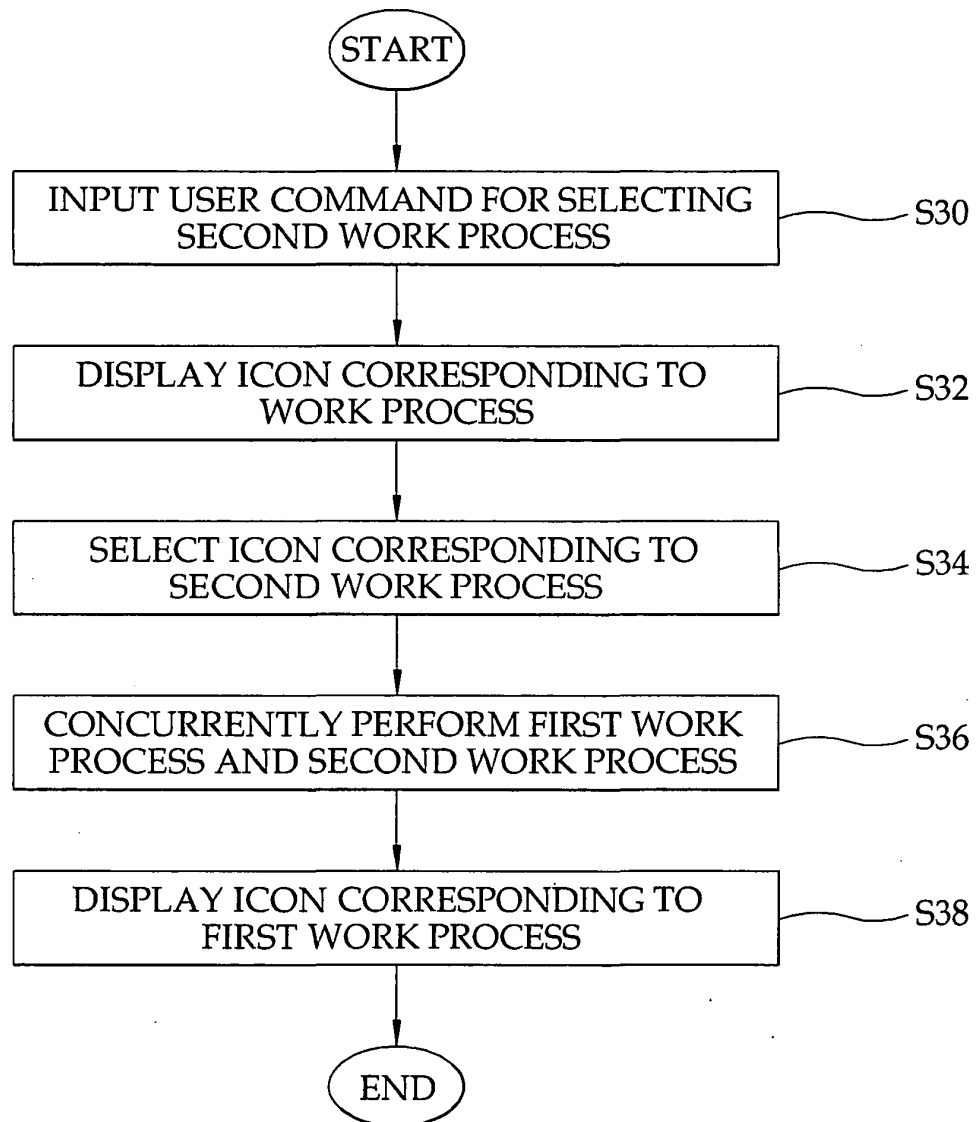


FIG. 5A

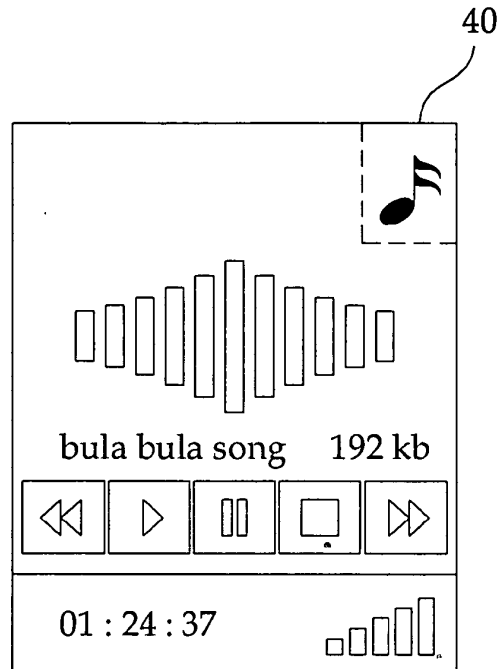


FIG. 5B

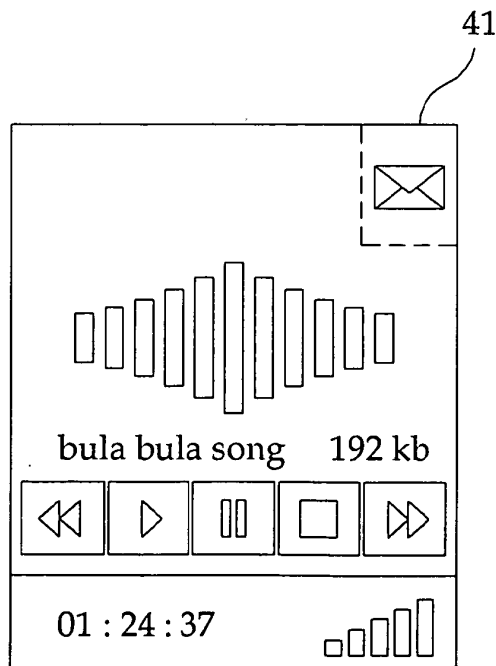


FIG. 5C



FIG. 5D



FIG. 6

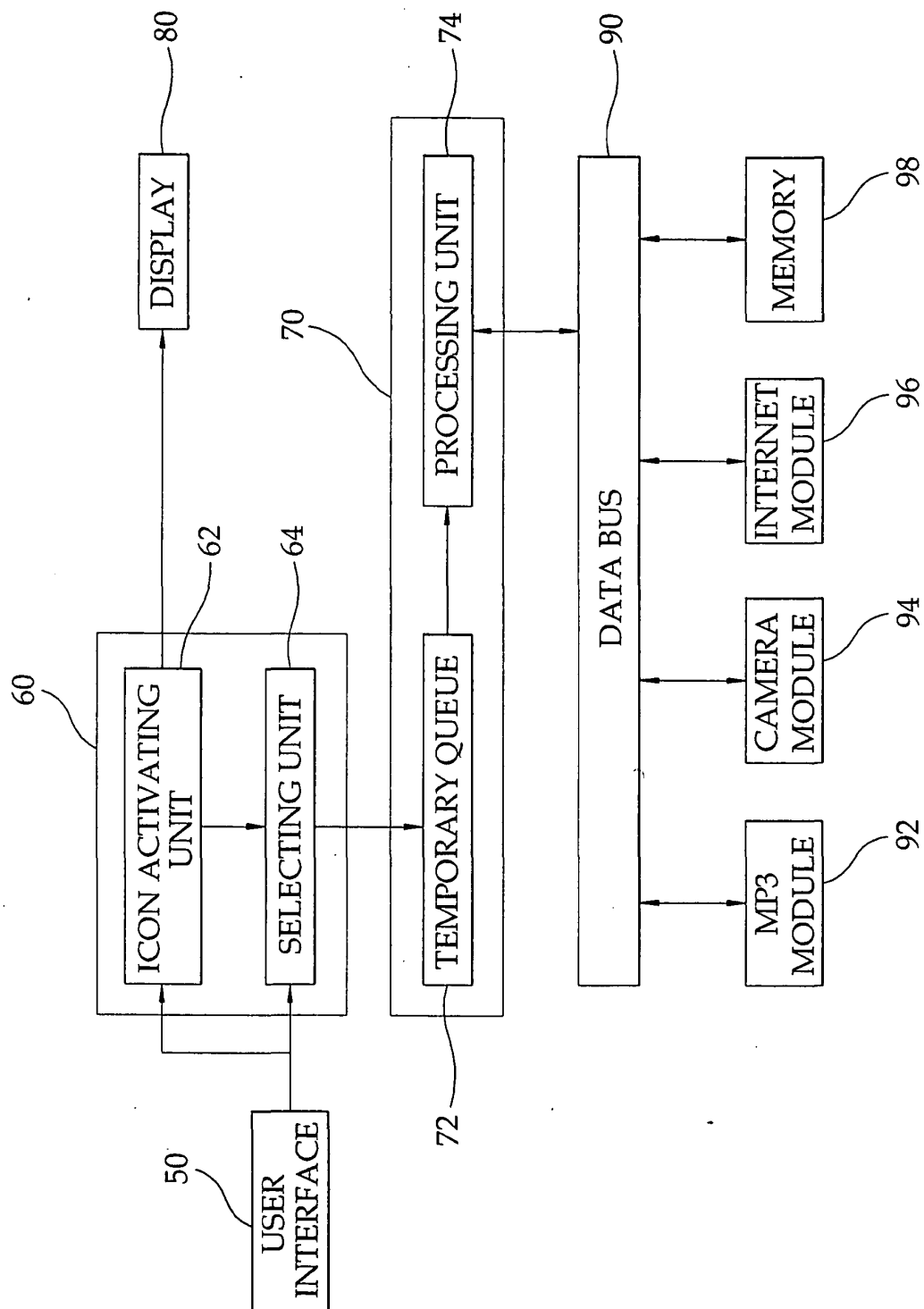


FIG. 7

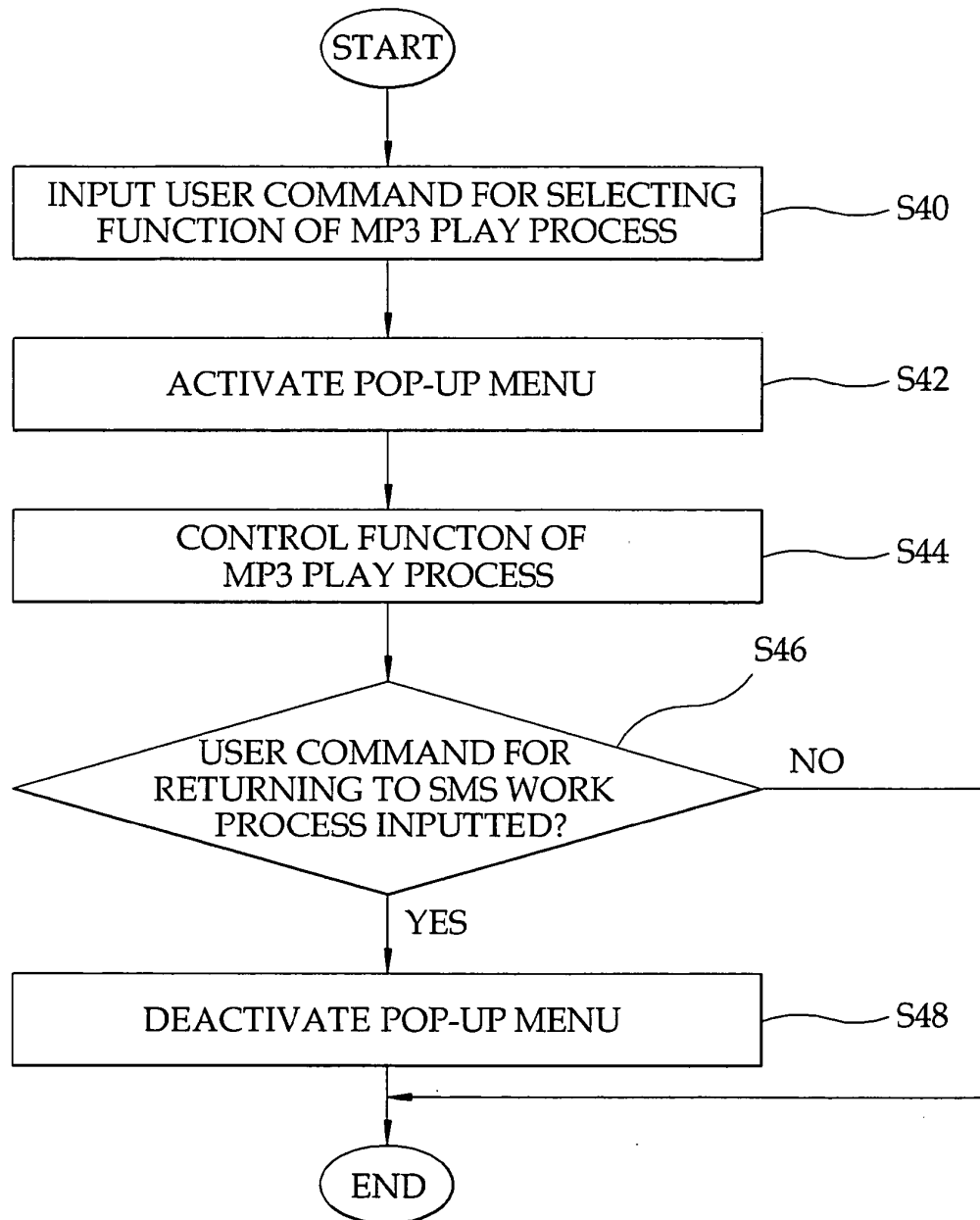


FIG. 8A



FIG. 8B

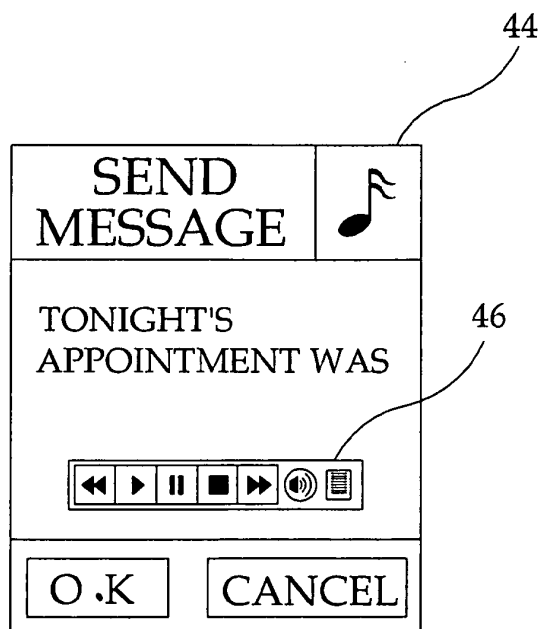
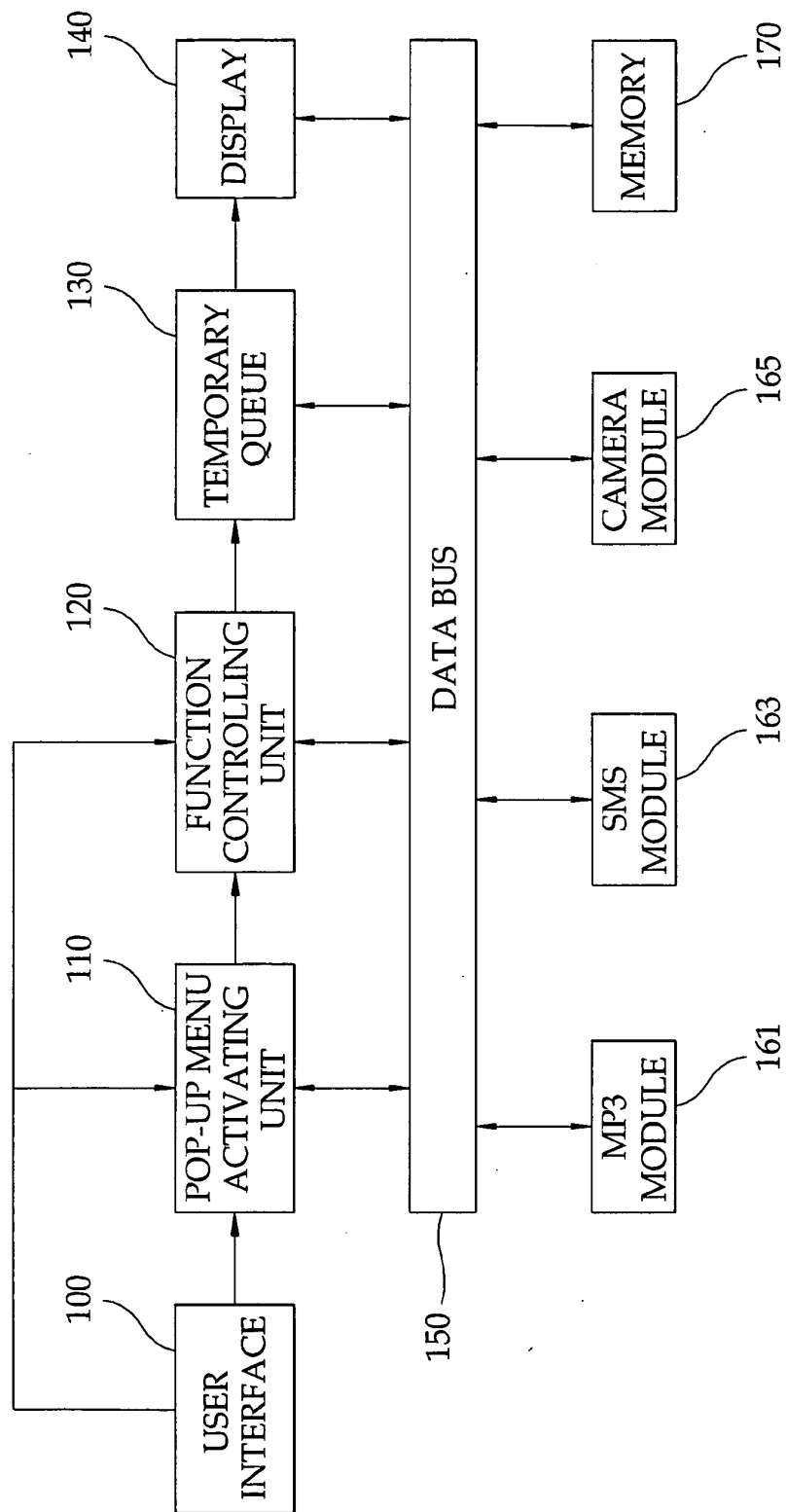


FIG. 9



Doc code: IDS

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PTO/SB/08a (03-15)

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	Filing Date		2016-01-29
	First Named Inventor	Seul Ki CHOI	
	Art Unit		
	Examiner Name		
	Attorney Docket Number	P4101USC1C1	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	7222304		2007-05-22	BEATON et al.	
	2	7123945		2006-10-17	KOKUBO	
	3	6546263		2003-04-08	PETTY et al.	
	4	5859639		1999-01-12	EBRAHIM	
	5	5075675		1991-12-24	BARKER et al.	
	6	8106877		2012-01-31	PARK et al.	
	7	6388686		2002-05-14	HETHERINGTON et al.	
	8	7623119		2009-11-24	AUTIO et al.	

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	9	7546188		2009-06-09	NEZU et al.	
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	2	20060247851		2006-11-02	MORRIS	
	3	20020080186		2002-06-27	FREDERIKSEN	
	4	20030011638		2003-01-16	CHUNG	
	5	20050086611		2005-04-21	TAKABE et al.	
	6	20030016251		2003-01-23	KONDO	
	7	20070003224		2007-01-04	KRIKORIAN et al.	
	8	20040229200		2004-11-18	MCKEON et al.	

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	9	20060075347		2006-04-06	REHM	
	10	20050183017		2005-08-18	CAIN	
	11	20060236266		2006-10-19	MAJAVA	
	12	20050120306		2005-06-02	KLASSEN et al.	
	13	20060107227		2006-05-18	KILJANDER	
	14	20050229103		2005-10-13	KING	
	15	20070192741		2007-08-16	YORITATE et al.	

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	1	NOKIA CORP., "User's Guide for Nokia 5110", Copyright 2004, Nokia Mobile Phones, Finland.	☐
	2	Non-Final Office Action issued on August 31, 2010, in U.S. Patent Application No. 11/495,683.	☐
	3	Final Office Action issued on March 16, 2011, in U.S. Patent Application No. 11/495,683.	☐
	4	Non-Final Office Action issued on October 22, 2012, in U.S. Patent Application No. 11/495,683.	☐
	5	Final Office Action issued on March 28, 2013, in U.S. Patent Application No. 11/495,683.	☐
	6	Non-Final Office Action issued on July 10, 2013, in U.S. Patent Application No. 11/495,683.	☐
	7	Final Office Action issued on December 4, 2013, in U.S. Patent Application No. 11/495,683.	☐
	8	Non-Final Office Action issued on September 23, 2014, in U.S. Patent Application No. 11/495,683.	☐
	9	Notice of Allowance issued on April 22, 2015, in U.S. Patent Application No. 11/495,683.	☐
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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

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

Signature	/dongil moon/	Date (YYYY-MM-DD)	2016-01-29
Name/Print	Dongil Moon	Registration Number	L0830

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Title of Invention:		METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		
First Named Inventor/Applicant Name:		Seul Ki CHOI		
Filer:		Hae-Chan Park/Thomas Traub		
Attorney Docket Number:		P4101USC1C1		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility application filing	1011	1	280	280
Utility Search Fee	1111	1	600	600
Utility Examination Fee	1311	1	720	720
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
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Total in USD (\$)				1600

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EFS ID:	24767312
Application Number:	15010629
International Application Number:	
Confirmation Number:	4818
Title of Invention:	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL
First Named Inventor/Applicant Name:	Seul Ki CHOI
Customer Number:	58027
Filer:	Hae-Chan Park/Dongil Moon
Filer Authorized By:	Hae-Chan Park
Attorney Docket Number:	P4101USC1C1
Receipt Date:	29-JAN-2016
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Application Type:	Utility under 35 USC 111(a)

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Warnings:					
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6	Information Disclosure Statement (IDS) Form (SB08)	P4101USC1C1-IDS.pdf	1735436 19e96fd7c78445187de692323df63ded3c99faac	no	7
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
7	Non Patent Literature	P4101USC1- NoticeofAllowance.PDF	831133 d4aa4c2b8e48dd4517512af85ef86b74b9317598	no	20
Warnings:					
Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	35366 28dc073f37895dd7f1c9c5bfde3deef1584370d9	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			11367936		
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
15/010,629	01/29/2016	3726	1600	P4101USC1C1	19	3

CONFIRMATION NO. 4818

FILING RECEIPT



000000000589108

58027

H.C. PARK & ASSOCIATES, PLC
1894 PRESTON WHITE DRIVE
RESTON, VA 20191

Date Mailed: 02/16/2016

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

Inventor(s)

Seul Ki CHOI, Ansan-si, KOREA, REPUBLIC OF;
Sang Jin Yoon, Anyang-si, KOREA, REPUBLIC OF;

Applicant(s)

PANTECH CO., LTD., Seoul, KOREA, REPUBLIC OF;

Power of Attorney: The patent practitioners associated with Customer Number 58027

Domestic Priority data as claimed by applicant

This application is a CON of 14/840,844 08/31/2015 PAT 9250957
which is a CON of 11/495,863 07/28/2006 PAT 9122518

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

REPUBLIC OF KOREA 10-2005-0073877 08/11/2005
REPUBLIC OF KOREA 10-2005-0102198 10/28/2005

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

Request to Retrieve - This application either claims priority to one or more applications filed in an intellectual property Office that participates in the Priority Document Exchange (PDX) program or contains a proper **Request to Retrieve Electronic Priority Application(s)** (PTO/SB/38 or its equivalent). Consequently, the USPTO will attempt to electronically retrieve these priority documents.

If Required, Foreign Filing License Granted: 02/12/2016

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/010,629**

Projected Publication Date: 05/26/2016

Non-Publication Request: No

Early Publication Request: No

Title

METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST
WORK PROCESS IN MULTITASKING MOBILE TERMINAL

Preliminary Class

029

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

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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.

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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

page 2 of 4

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 (1-866-999-4258).

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 15/010,629				
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	280			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	600			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	720			
TOTAL CLAIMS (37 CFR 1.16(i))	19	minus 20 = *				x 80 =	0.00			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *				x 420 =	0.00			
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).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1600			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE			TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE			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 found in the appropriate box in column 1.										



별첨 사본은 아래 출원의 원본과 동일함을 증명함.

This is to certify that the following application annexed hereto
is a true copy from the records of the Korean Intellectual
Property Office

출 원 번 호 : 10-2005-0073877

Application Number

출 원 년 월 일 : 2005년 08월 11일

Filing Date AUG. 11, 2005

출 원 인 : 주식회사 팬택앤큐리텔

Applicant(s) Pantech & Curitel Communications, Inc.

2016년 03월 30일

특 허 청
COMMISSIONER



【서지사항】

【서류명】	특허출원서
【권리구분】	특허
【수신처】	특허청장
【제출일자】	2005.08.11
【발명의 국문명칭】	복수의 작업 프로세스를 다중으로 처리하는 이동 단말기에 서 작업 프로세스를 선택하는 방법
【발명의 영문명칭】	Method for selecting the task in the multitasking mobile terminal
【출원인】	
【명칭】	주식회사 팬택앤큐리텔
【출원인코드】	1-2001-021691-6
【대리인】	
【명칭】	특허법인 다인
【대리인코드】	9-2005-100001-1
【지정된변리사】	임영희
【포괄위임등록번호】	2005-054275-1
【발명자】	
【성명】	최슬기
【성명의 영문표기】	CHOI SEUL KI
【주민등록번호】	780127-1XXXXXX
【우편번호】	426-160
【주소】	경기 안산시 상록구 이동 주공그린빌아파트 10단지 1002동 1404호
【국적】	KR
【발명자】	

【성명】 윤상진
【성명의 영문표기】 YOON SANG JIN
【주민등록번호】 730723-1XXXXXX
【우편번호】 431-050
【주소】 경기 안양시 동안구 비산동 은하수 한양아파트 504-605
【국적】 KR
【심사청구】 청구
【취지】 특허법 제42조의 규정에 의한 출원, 특허법 제60조의 규정에 의한 출원심사를 청구합니다.

대리인

특허법인 다인 (인)

【수수료】

【기본출원료】	0 면	38,000 원
【가산출원료】	17 면	0 원
【우선권주장료】	0 건	0 원
【심사청구료】	3 항	205,000 원
【합계】		243,000 원

【요약서】

【요약】

본 발명은 복수의 작업 프로세스를 다중으로 처리하는 이동 단말기에 관한 것으로, 보다 구체적으로 이동 단말기의 작업 프로세스에 상응하는 아이콘을 통해 다중으로 처리되는 이동 단말기의 작업 프로세스를 선택할 수 있는 작업 프로세스 선택 방법에 관한 것이다.

본 발명의 상기 목적을 달성하기 위한, 제1 작업 프로세스와 제2 작업 프로세스를 다중으로 처리하는 이동 단말기에서 제2 작업 프로세스를 선택하는 방법은 상기 제2 작업 프로세스를 선택하기 위한 사용자 명령이 입력되는 단계(a 단계) 및 상기 사용자 명령에 응답하여, 상기 제2 작업 프로세스에 상응하는 아이콘이 디스플레이되고, 상기 디스플레이된 아이콘에 기초하여 상기 제2 작업 프로세스가 선택되는 단계(b 단계)를 포함하는 것을 특징으로 한다.

【대표도】

도 3

【색인어】

다중 작업 프로세스, 이동 단말기, MP3, 아이콘

【명세서】

【발명의 명칭】

복수의 작업 프로세스를 다중으로 처리하는 이동 단말기에서 작업 프로세스를 선택하는 방법{Method for selecting the task in the multitasking mobile terminal}

【도면의 간단한 설명】

- <1> 도 1은 복수의 작업 프로세스를 다중으로 처리하는 이동 단말기의 통상적인 기능 블록도를 도시하고 있다.
- <2> 도 2는 복수로 처리되는 이동 단말기의 작업 프로세스를 선택하는 방법을 설명하고 있는 흐름도이다.
- <3> 도 3은 본 발명의 일 실시예에 상응하는, 제1 작업 프로세스와 제2 작업 프로세스를 다중으로 처리하는 이동 단말기에서 상기 제2 작업 프로세스를 선택하는 방법을 설명하는 흐름도를 도시하고 있다.
- <4> 도 4는 본 발명의 일 실시예에 상응하여 디스플레이되는, 작업 프로세스의 아이콘을 도시하고 있다.
- <5> 도 5는 본 발명의 일 실시예에 상응하는, 제1 작업 프로세스와 제2 작업 프로세스를 다중으로 처리하는 이동 단말기에서 상기 이동 단말기의 작업 프로세스를 선택하는 장치의 기능 블록도를 도시하고 있다.
- <6> <도면의 주요 부분에 대한 설명>

<7>	40 : 사용자 인터페이스부	50 : 제2 작업 프로세스 선택부
<8>	60 : 다중 처리부	70 : 디스플레이부
<9>	80 : 호스트 버스	92 : 카메라부
<10>	94 : 카메라부	96 : 인터넷 접속부

【발명의 상세한 설명】

【발명의 목적】

【발명이 속하는 기술분야 및 그 분야의 종래기술】

<11> 본 발명은 복수의 작업 프로세스를 다중으로 처리하는 이동 단말기에 관한 것으로, 보다 구체적으로 이동 단말기의 작업 프로세스에 상응하는 아이콘을 통해 다중으로 처리되는 이동 단말기의 작업 프로세스를 선택할 수 있는 작업 프로세스 선택 방법에 관한 것이다.

<12> 최근 이동 통신 기술의 발전으로 휴대폰, PDA 등과 같은 다양한 종류의 이동 단말기가 출시되고 있다. 상기 이동 단말기는 무선 통신이라는 본래의 기능 이외에 카메라 기능, 멀티미디어 재생 기능, 인터넷 접속 기능 등과 같은 다양한 기능을 구비하고 있다. 또한, 이동 단말기에 부착되는 마이크로 프로세서의 성능이 향상되면서, 전화 통화를 하면서 동시에 MP3 음악 파일을 재생하거나 또는 MP3 음악 파일을 재생하면서 SMS(short message service)의 단문 메시지를 전송하는 등과 같이 복수의 작업 프로세스를 다중으로 처리할 수 있게 되었다.

<13> 복수의 작업 프로세스를 다중으로 처리하는 이동 단말기의 통상적인 기능 블

록도가 도 1을 참고로 설명된다. 모바일 칩셋(1)은 사용자 명령에 상응하여 이동 단말기의 전체적인 동작을 제어한다. 사용자 명령에 따라 모바일 칩셋(1)은 호스트 버스(3)를 통해 카메라부(5), MP3 재생부(7) 및 인터넷 접속부(9)로 제어 신호를 전송한다. 상기 제어 신호에 따라, 카메라부(5), MP3 재생부(7) 및 인터넷 접속부(9)의 작업 프로세스가 다중으로 처리된다.

<14> 도 2는 복수로 처리되는 이동 단말기의 작업 프로세스를 선택하는 방법을 설명하고 있는 흐름도이다. 제1 작업 프로세스에서 작업을 처리하는 도중에, 제2 작업 프로세스의 작업을 처리하기 위한 사용자 명령이 입력된다(단계 10). 상기 사용자 명령에 의해, 이동 단말기의 디스플레이부에는 작업 프로세스를 선택하기 위한 메뉴 창이 디스플레이된다(단계 12). 사용자는 디스플레이된 메뉴 창을 통해, 다중으로 처리하고자 하는 작업 프로세스가 선택된다(단계 14). 사용자는 다중으로 처리되는 작업 프로세스에서 소정의 작업 프로세스를 변경하고자 하는 경우(단계 16), 변경하고자 하는 작업 프로세스를 종료한다(단계 17). 새로운 작업 프로세스를 선택하기 위한 사용자 명령이 입력되고(단계 18), 상기 사용자 명령에 응답하여 디스플레이되는 메뉴 창을 통해 새로운 작업 프로세스를 선택한다(단계 19).

【발명이 이루고자 하는 기술적 과제】

<15> 상기 설명한 통상의 작업 프로세스 선택 방법에서, 사용자는 다중으로 처리되는 작업 프로세스를 선택하기 위해 디스플레이되는 메뉴 창을 통해 새로운 작업 프로세스를 선택하여야 한다. 또한, 다중으로 처리되는 작업 프로세스들 중에서 소정의 작업 프로세스를 종료하고 새로운 작업 프로세스를 선택하기 위해, 소정의

작업 프로세스를 종료하고, 새로운 작업 프로세스를 선택하기 위해 다시 메뉴 창을 통해 새로운 작업 프로세스를 선택하여야 하는 불편함이 있다.

<16> 본 발명이 이루고자 하는 목적은 이동 단말기의 작업 프로세스에 상응하는 아이콘을 통해 다중으로 처리되는 이동 단말기의 작업 프로세스를 선택할 수 있는 작업 프로세스 선택 방법 및 장치를 제공하는 것이다.

【발명의 구성】

<17> 본 발명의 상기 목적을 달성하기 위한, 제1 작업 프로세스와 제2 작업 프로세스를 다중으로 처리하는 이동 단말기에서 제2 작업 프로세스를 선택하는 방법은 상기 제2 작업 프로세스를 선택하기 위한 사용자 명령이 입력되는 단계(a 단계) 및 상기 사용자 명령에 응답하여, 상기 제2 작업 프로세스에 상응하는 아이콘이 디스플레이되고, 상기 디스플레이된 아이콘에 기초하여 상기 제2 작업 프로세스가 선택되는 단계(b 단계)를 포함하는 것을 특징으로 한다.

<18> 바람직하게, 상기 (b) 단계는 상기 사용자 명령에 응답하여, 작업 프로세스에 상응하는 아이콘이 차례로 디스플레이되는 단계, 상기 차례로 디스플레이되는 아이콘들 중에서 상기 제2 작업 프로세스에 상응하는 아이콘이 선택되는 단계 및 상기 선택된 아이콘에 상응하는 제2 작업 프로세스가 제1 작업 프로세스와 다중으로 처리되는 단계를 포함하는 것을 특징으로 한다.

<19> 본 발명의 상기 목적을 달성하기 위한, 제1 작업 프로세스와 제2 작업 프로세스를 다중으로 처리하는 이동 단말기는 제2 작업 프로세스를 선택하기 위한 사용

자 명령에 응답하여, 상기 제2 작업 프로세스에 상응하는 아이콘이 디스플레이되고, 상기 디스플레이된 아이콘에 기초하여 상기 제2 작업 프로세스를 선택하는 제2 작업 프로세스 선택부, 상기 선택된 제2 작업 프로세스와 제1 작업 프로세스를 다중으로 처리하는 다중 처리부 및 상기 사용자 명령을 입력하기 위한 사용자 인터페이스부를 포함하는 것을 특징으로 한다.

<20> 이하 첨부된 도면을 참고로 본 발명에 상응하는 작업 프로세스 선택 방법 및 상기 작업 프로세스 방법을 구현하는 이동 단말기에 대해 보다 구체적으로 설명한다.

<21> 도 3은 본 발명의 일 실시예에 상응하는, 제1 작업 프로세스와 제2 작업 프로세스를 다중으로 처리하는 이동 단말기에서 상기 제2 작업 프로세스를 선택하는 방법을 설명하는 흐름도를 도시하고 있다. 도 3을 참고로, 제2 작업 프로세스를 선택하기 위한 사용자 명령이 입력된다(단계 20). 이동 단말기의 제1 작업 프로세스를 통해 제1 작업을 처리하는 도중에, 상기 제1 작업과 동시에 제2 작업 프로세스를 다중으로 처리하고자 하는 제1 사용자 명령이 입력된다. 상기 제1 사용자 명령에 응답하여 제2 작업 프로세스에 상응하는 아이콘이 디스플레이된다(단계 22). 이동 단말기의 모든 작업 프로세스에 상응하는 아이콘들이 각각 정해져 있으며, 상기 제1 사용자 명령이 입력될 때마다, 상기 아이콘들 중 하나의 아이콘이 차례로 디스플레이된다.

<22> 사용자가 선택하고자 하는 제2 작업 프로세스에 상응하는 아이콘이 디스플레이되는 경우, 상기 디스플레이된 아이콘을 선택하기 위한 제2 사용자 명령이 입력

된다(단계24). 상기 제2 사용자 명령에 응답하여, 상기 제1 작업 프로세스의 제1 작업과 제2 작업 프로세스의 제2 작업이 다중으로 처리된다(단계 26). 예를 들어, MP3 음악 파일을 재생하면서 동시에 단문 메시지를 전송하고자 하는 경우, MP3 음악 재생 프로세스와 단문 메시지 전송 프로세스가 소정의 실행 단위(quantum unit)로 분할되고 일정한 시간마다 MP3 음악 재생 프로세스와 단문 메시지 전송 프로세스 번갈아 처리된다.

<23> 바람직하게, 상기 활성화된 제2 작업 프로세스에서 상기 제1 작업 프로세스에 상응하는 아이콘이 디스플레이된다(단계 28). 사용자는 디스플레이된 아이콘을 통해 제2 작업 프로세스에서 제1 작업 프로세스가 동시에 수행되고 있음을 알 수 있다.

<24> 도 4는 본 발명의 일 실시예에 상응하여 디스플레이되는, 작업 프로세스의 아이콘을 도시하고 있다. 도 4의 (a)를 참고로, MP3 음악 파일을 재생하는 제 1 작업 프로세스에서, 디스플레이부(30)의 제1 부분에 현재 작업 프로세스를 나타내는 아이콘이 디스플레이되어 있다.

<25> 도 4의 (b)를 참고로, 상기 제1 작업 프로세스를 처리하면서 동시에 단문 메시지를 전송하기 위한 제2 작업 프로세스를 선택하는 제1 사용자 명령이 입력되는 경우, 디스플레이부(30)의 제1 부분에는 제2 작업 프로세스를 나타내는 아이콘이 디스플레이된다.

<26> 도 4의 (c)를 참고로, 디스플레이된 아이콘을 선택하기 위한 제2 사용자 명령이 입력되는 경우, 선택된 아이콘에 상응하는 제2 작업 프로세스가 활성화되고

제1 작업 프로세스와 제2 작업 프로세스가 다중으로 처리된다. 바람직하게, 상기 디스플레이부(30)의 제1 부분에는 제2 작업 프로세스와 다중으로 처리되고 있는 제1 작업 프로세스를 나타내는 아이콘이 디스플레이된다.

<27> 도 4의 (d)를 참고로, 카메라 모드의 새로운 작업 프로세스를 선택하기 위한 제1 사용자 명령이 입력되면, 입력된 제1 사용자 명령에 응답하여 카메라 모드 작업 프로세스에 상응하는 아이콘이 디스플레이부(30)의 제1 부분에 디스플레이된다. 상기 디스플레이된 카메라 모드의 아이콘을 선택함으로써, 단문 메시지를 전송하기 위한 작업 프로세스에서 카메라 모드의 작업 프로세스로 변경된다.

<28> 도 5는 본 발명의 일 실시예에 상응하는, 제1 작업 프로세스와 제2 작업 프로세스를 다중으로 처리하는 이동 단말기에서 상기 이동 단말기의 작업 프로세스를 선택하는 장치의 기능 블록도를 도시하고 있다. 도 5를 참고로, 본 발명에 상응하는 작업 프로세스 선택 장치는 사용자 인터페이스부(40), 제2 작업 프로세스 선택부(50), 다중 처리부(60), 디스플레이부(70), 호스트 버스(80) 및 호스트 버스(80)를 통해 다중 처리부(60)에 의해 제어되는 다수의 애플리케이션부(92, 94, 96)를 포함하고 있다.

<29> 사용자 인터페이스부(40)를 통해 이동 단말기의 작업 프로세스를 변경하기 위한 사용자 명령이 입력된다. 상기 사용자 인터페이스부(40)는 이동 단말기에 부착된 키 패널, 사용자의 음성을 인식하는 음성 인식부, 이동 단말기의 움직임을 인식하는 움직임 인식부일 수 있다.

<30> 이동 단말기의 제1 작업 프로세스와 함께 다중으로 처리되는 제2 작업 프로

세스를 선택하기 위한 제1 사용자 명령이 사용자 인터페이스부(40)를 통해 제2 작업 프로세스 선택부(50)로 입력된다. 제2 작업 프로세스 선택부(50)는 아이콘 활성화부(52)와 선택부(42)를 포함하고 있다. 아이콘 활성화부(52)는 상기 제1 사용자 명령이 입력될 때마다 이동 단말기의 각 작업 프로세스에 상응하는 아이콘을 디스플레이부(55)를 통해 차례로 디스플레이한다. 선택부(54)는 상기 차례로 디스플레이되는 아이콘 중에서 상기 제1 작업 프로세스와 다중으로 처리되는 제2 작업 프로세스를 선택하기 위한 제2 사용자 명령이 사용자 인터페이스부(40)를 통해 선택부(54)로 입력된다. 선택부(54)는 선택된 아이콘에 상응하는 작업 프로세스를 상기 다중 처리부(60)로 제공한다.

<31> 다중 처리부(60)는 임시큐(62)와 처리부(64)를 포함하고 있다. 임시큐(62)는 선택부(54)로부터 제공되어 다중으로 처리되는 작업 프로세스를 저장한다. 처리부(64)는 임시큐(62)에 저장되어 있는 작업 프로세스를 일정한 시간 간격마다 번갈아 제1 작업 프로세스와 제2 작업 프로세스를 처리하기 위한 제어 신호를 생성한다. 처리부(64)는 호스트 버스(80)를 통해 MP3 재생부(92), 카메라부(94), 인터넷 접속부(96)에 접속되어 있다. MP3 재생부(92), 카메라부(94), 인터넷 접속부(96)는 각각 처리부(64)의 제어 신호에 의해 MP3 재생 모드, 카메라 모드, 인터넷 접속 모드의 작업 프로세스를 수행한다. 본 발명이 적용되는 분야에 따라 다른 애플리케이션이 이동 단말기에 부가될 수 있으며, 이는 본 발명의 범위에 속한다.

<32> 한편, 상술한 본 발명의 실시예들은 컴퓨터에서 실행될 수 있는 프로그램으로 작성 가능하고, 컴퓨터로 읽을 수 있는 기록 매체를 이용하여 상기 프로그램을

동작시키는 범용 디지털 컴퓨터에서 구현될 수 있다.

<33> 상기 컴퓨터로 읽을 수 있는 기록 매체는 마그네틱 저장 매체(예를 들어, 롬, 플로피 디스크, 하드디스크 등), 광학적 판독 매체(예를 들면, 시디롬, 디브이디 등) 및 캐리어 웨이브(예를 들면, 인터넷을 통한 전송)와 같은 저장 매체를 포함한다.

<34> 본 발명은 도면에 도시된 실시예를 참고로 설명되었으나 이는 예시적인 것에 불과하며, 본 기술 분야의 통상의 지식을 가진 자라면 이로부터 다양한 변형 및 균등한 타 실시예가 가능하다는 점을 이해할 것이다. 따라서, 본 발명의 진정한 기술적 보호 범위는 첨부된 등록청구범위의 기술적 사상에 의해 정해져야 할 것이다.

【발명의 효과】

<35> 상기 설명한 본 발명은 다중으로 처리되는 작업 프로세스를 차례로 디스플레이되는 상응하는 아이콘으로 선택할 수 있도록 함으로써, 간단하게 다중으로 처리되는 작업 프로세스를 선택할 수 있다.

【특허청구범위】

【청구항 1】

제1 작업 프로세스와 제2 작업 프로세스를 다중으로 처리하는 이동 단말기에
서 제2 작업 프로세스를 선택하는 방법에 있어서,

(a) 상기 제2 작업 프로세스를 선택하기 위한 사용자 명령이 입력되는 단계;
및

(b) 상기 사용자 명령에 응답하여, 상기 제2 작업 프로세스에 상응하는 아이
콘이 디스플레이되고, 상기 디스플레이된 아이콘에 기초하여 상기 제2 작업 프로세
스가 선택되는 단계를 포함하는 것을 특징으로 하는 작업 프로세스 선택 방법.

【청구항 2】

제 1 항에 있어서, 상기 (b) 단계는

상기 사용자 명령에 응답하여, 작업 프로세스에 상응하는 아이콘이 차례로
디스플레이되는 단계;

상기 차례로 디스플레이되는 아이콘들 중에서 상기 제2 작업 프로세스에 상
응하는 아이콘이 선택되는 단계; 및

상기 선택된 아이콘에 상응하는 제2 작업 프로세스가 제1 작업 프로세스와
다중으로 처리되는 단계를 포함하는 것을 특징으로 하는 작업 프로세스 선택 방법.

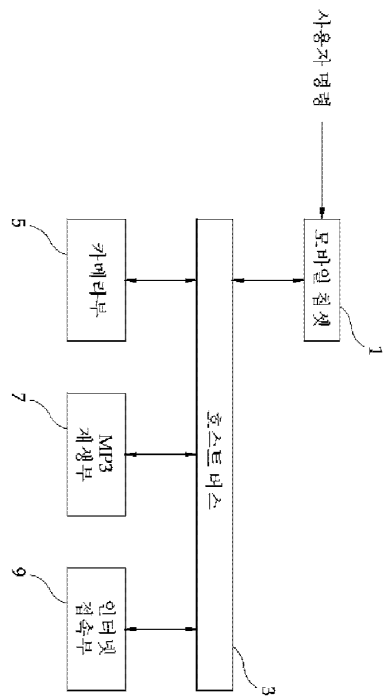
【청구항 3】

제 2 항에 있어서, 상기 (b) 단계는

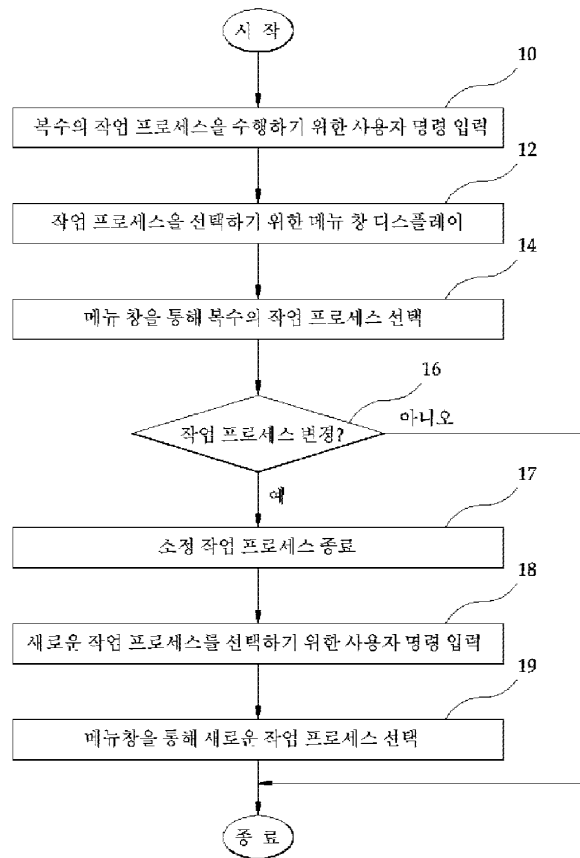
상기 제2 작업 프로세스에서 제1 작업 프로세스에 상응하는 아이콘이 디스플레이되는 단계를 더 포함하는 것을 특징으로 하는 작업 프로세스 선택 방법.

【도면】

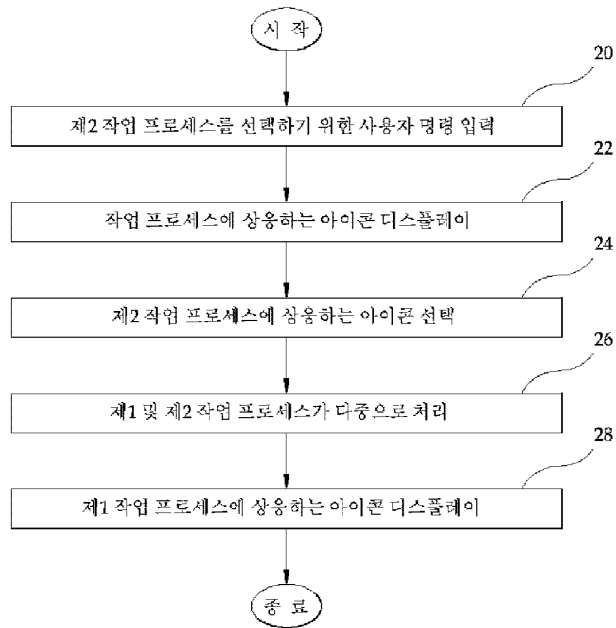
【도 1】



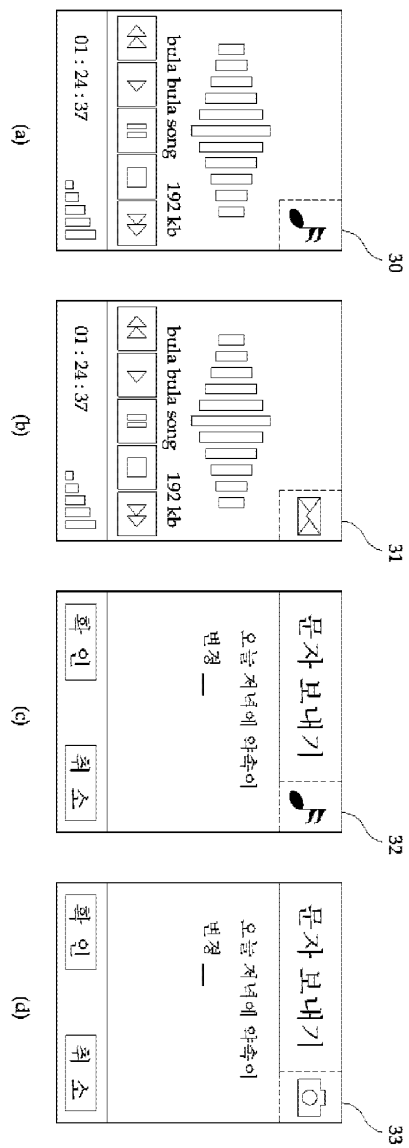
【도 2】

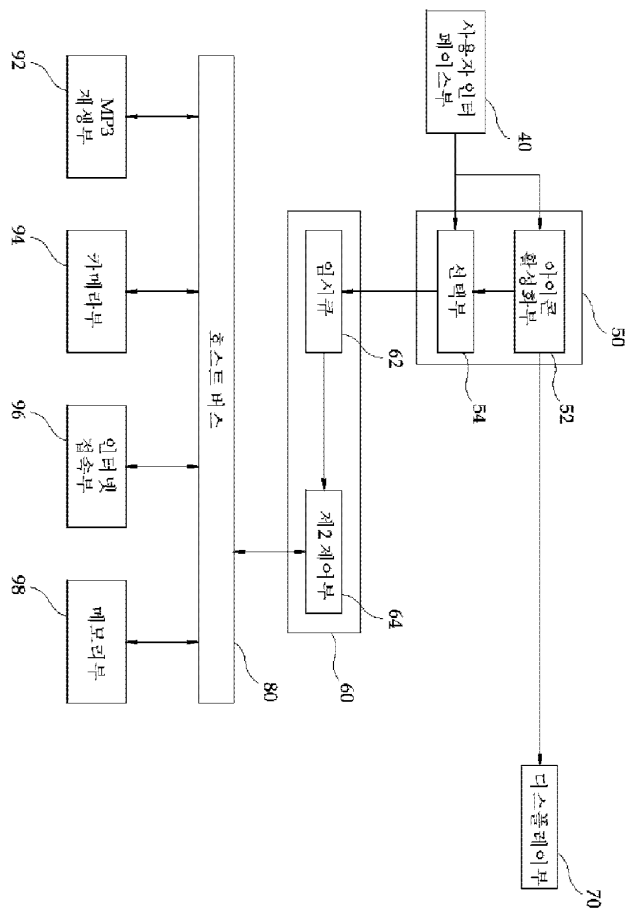


【도 3】



【图 4】





【C】



별첨 사본은 아래 출원의 원본과 동일함을 증명함.

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【서지사항】

【서류명】 특허출원서

【권리구분】 특허

【수신처】 특허청장

【참조번호】 0044

【제출일자】 2005.10.28

【발명의 국문명칭】 복수의 작업 프로세스를 다중으로 처리하는 이동 단말기에
서 작업 프로세스를 제어하는 방법

【발명의 영문명칭】 Method for controlling the function of process in the
multitasking mobile terminal

【출원인】

【명칭】 (주)팬택앤큐리텔

【출원인코드】 1-2001-021691-6

【대리인】

【명칭】 특허법인 다인

【대리인코드】 9-2005-100001-1

【지정된변리사】 임영희

【포괄위임등록번호】 2005-054275-1

【발명자】

【성명】 최슬기

【성명의 영문표기】 CHOI, SEUL KI

【주민등록번호】 780127-1XXXXXX

【우편번호】 426-871

【주소】 경기 안산시 상록구 이동 그린빌주공아파트10단지 1002동
1404호

【국적】 KR

【발명자】

【성명】 윤상진

【성명의 영문표기】 YOON, SANG JIN

【주민등록번호】 730723-1XXXXXX

【우편번호】 431-757

【주소】 경기 안양시 동안구 비산동 은하수한양아파트 504-605

【국적】 KR

【심사청구】 청구

【취지】 특허법 제42조의 규정에 의한 출원, 특허법 제60조의 규정에 의한 출원심사를 청구합니다.

대리인

특허법인 다인 (인)

【수수료】

【기본출원료】 0 면 38,000 원

【가산출원료】 16 면 0 원

【우선권주장료】 0 건 0 원

【심사청구료】 5 항 269,000 원

【합계】 307,000 원

【요약서】

【요약】

발명은 복수의 작업 프로세스를 다중으로 처리하는 이동 단말기에 관한 것으로, 보다 구체적으로 복수의 작업 프로세스를 다중으로 처리하는 이동 단말기에서 복수의 작업 프로세스들 중 소정 작업 프로세스의 기능을 제어하는 팝업 메뉴를 활성화하여 상기 소정 작업 프로세스의 기능을 제어할 수 있는 방법에 관한 것이다.

본 발명의 상기 목적을 달성하기 위한, 제1 작업 프로세스와 제2 작업 프로세스를 다중으로 처리하는 이동 단말기에서 상기 제2 작업 프로세스의 소정 기능을 제어하는 방법은 상기 제2 작업 프로세스의 기능을 선택하기 위한 사용자 제1 명령이 입력되는 단계, 상기 사용자 제1 명령에 응답하여 상기 제2 작업 프로세스의 소정 기능을 제어하기 위한 팝업 메뉴가 디스플레이되는 단계 및 상기 디스플레이된 팝업 메뉴를 통해 상기 제2 작업 프로세스의 기능을 제어하는 단계를 포함하는 것을 특징으로 한다.

【대표도】

도 2

【색인어】

다중 작업 프로세스, 이동 단말기, MP3, 팝업 메뉴, SMS

【명세서】

【발명의 명칭】

복수의 작업 프로세스를 다중으로 처리하는 이동 단말기에서 작업 프로세스를 제어하는 방법{Method for controlling the function of process in the multitasking mobile terminal}

【도면의 간단한 설명】

- <1> 도 1은 MP3 재생 프로세스와 SMS의 단문 메시지 작성 프로세스를 다중으로 처리하는 이동 단말기에서 SMS의 단문 메시지 작성 중 MP3 재생 프로세스와 관련된 소정 기능을 제어하기 위한 종래의 방법을 설명하는 흐름도이다.
- <2> 도 2는 본 발명의 일 실시예에 상응하는, MP3 재생 프로세스와 SMS의 단문 메시지 작성 프로세스를 다중으로 처리하는 이동 단말기에서 SMS의 단문 메시지 작성 중 MP3 재생 프로세스와 관련된 소정 기능을 제어하는 방법을 설명하는 흐름도이다.
- <3> 도 3은 본 발명의 일 실시예에 상응하여 디스플레이되는 팝업 메뉴를 도시하고 있다.
- <4> 도 4는 본 발명의 일 실시예에 상응하는, MP3 재생 프로세스와 SMS 단문 메시지 작성 프로세스를 다중으로 처리하는 이동 단말기에서 상기 MP3 재생 프로세스와 관련된 기능을 제어하는 장치의 기능 블록도를 도시하고 있다.
- <5> <도면의 주요 부분에 대한 설명>

<6>	30 : 사용자 인터페이스부	31 : 팝업 메뉴 활성화부
<7>	32 : 기능 제어부	33 : 임시큐
<8>	34 : 디스플레이부	35 : 데이터 버스
<9>	36 : MP3 모듈부	37 : SMS 모듈부

【발명의 상세한 설명】

【발명의 목적】

【발명이 속하는 기술분야 및 그 분야의 종래기술】

<10> 본 발명은 복수의 작업 프로세스를 다중으로 처리하는 이동 단말기에 관한 것으로, 보다 구체적으로 복수의 작업 프로세스를 다중으로 처리하는 이동 단말기에서 제1 작업 프로세스 진행 중 제2 작업 프로세스의 기능을 제어하는 팝업 메뉴를 활성화하여 상기 제2 작업 프로세스의 기능을 제어할 수 있는 방법에 관한 것이다.

<11> 최근 이동 통신 기술의 발전으로 휴대폰, PDA 등과 같은 다양한 종류의 이동 단말기가 출시되고 있다. 상기 이동 단말기는 무선 통신이라는 본래의 기능 이외에 카메라 기능, 멀티미디어 재생 기능, 인터넷 접속 기능 등과 같은 다양한 기능을 구비하고 있다. 또한, 이동 단말기에 부착되는 마이크로 프로세서의 성능이 향상되면서 복수의 작업 프로세스를 다중으로 처리할 수 있는, 즉 멀티 태스킹이 가능한 이동 단말기가 개발되고 있다. 예를 들어, MP3 음악 파일을 재생하면서 동시에 SMS(short message service)의 단문 메시지를 작성하는 등과 같이 복수의 작업

프로세스를 다중으로 처리할 수 있게 되었다.

<12> MP3 재생 프로세스와 SMS의 단문 메시지 작성 프로세스를 다중으로 처리하는 이동 단말기에서 SMS의 단문 메시지 작성 중 MP3 재생 프로세스와 관련된 소정 기능을 제어하기 위한 종래의 방법이 도 1을 참고로 설명된다.

<13> MP3 재생 중 SMS 단문 메시지 작성 프로세스를 처리하기 위한 사용자 제1 명령이 입력된다(단계 1). 상기 사용자 제1 명령에 상응하여 SMS 단문 메시지 작성 프로세스에 상응하는 화면이 디스플레이되고, MP3 음악 파일이 재생되는 동시에 SMS 단문 메시지 작성 프로세스가 수행된다(단계 2). SMS 단문 메시지 작성 중 MP3 재생 프로세스와 관련된 기능을 제어하기 위한 사용자 제2 명령이 입력되는지를 판단한다(단계 3). 상기 사용자 제2 명령이 입력되면 작성 중이던 SMS 단문 메시지를 메모리부에 저장하고(단계 5) SMS 단문 메시지 작성 프로세스를 종료한다(단계 7). SMS 단문 메시지 작성 프로세스 종료 후 MP3 재생 프로세스에 관련된 기능을 제어한다(단계 9). 단문 메시지 작성 프로세스가 종료하면 MP3 재생 프로세스에 상응하는 화면이 다시 디스플레이되고, MP3 재생 프로세스에 관련된 기능을 제어하기 위한 사용자 제3 명령이 입력된다. 상기 사용자 제3 명령에 상응하는 제어 신호를 생성하여 MP3 재생 프로세스와 관련된 기능을 제어한다.

【발명이 이루고자 하는 기술적 과제】

<14> 상기 설명한, MP3 재생 프로세스와 SMS 단문 메시지 작성 프로세스가 다중으로 처리되는 이동 통신 단말기에서 사용자는 SMS 단문 메시지를 작성하는 중 MP3

재생 프로세스와 관련된 기능, 예를 들어 볼륨을 제어하거나 MP3 음악 파일의 리스트를 선택하기 위해 SMS 단문 메시지 작성 프로세스를 중단하여야 한다. SMS 단문 메시지 작성 프로세스를 중단하는 경우, 작성 중이던 단문 메시지가 삭제되거나 임시 편지함과 같은 소정의 메모리 공간에 저장된다. 따라서, SMS 단문 메시지 작성 프로세스를 다시 선택하여 처음부터 단문 메시지를 다시 작성하거나 임시 편지함에서 저장된 단문 메시지를 불러와야 하는 불편함이 있다.

<15> 따라서, 본 발명이 이루고자 하는 목적은 복수의 작업 프로세스를 다중으로 처리하는 이동 단말기에서 소정 작업 프로세스의 기능을 제어하기 위한 팝업 메뉴를 활성화하고 상기 활성화된 팝업 메뉴를 통해 상기 소정 작업 프로세스의 기능을 제어하는 방법을 제공하는 것이다.

【발명의 구성】

<16> 본 발명의 상기 목적을 달성하기 위한, 제1 작업 프로세스와 제2 작업 프로세스를 다중으로 처리하는 이동 단말기에서 상기 제1 작업 프로세스의 진행 중 제2 작업 프로세스의 소정 기능을 제어하는 방법은 상기 제2 작업 프로세스의 기능을 선택하기 위한 사용자 제1 명령이 입력되는 단계((a) 단계), 상기 사용자 제1 명령에 응답하여 상기 제2 작업 프로세스의 소정 기능을 제어하기 위한 팝업 메뉴가 디스플레이되는 단계((b) 단계) 및 상기 디스플레이된 팝업 메뉴를 통해 상기 제2 작업 프로세스의 기능을 제어하는 단계((c) 단계)를 포함하는 것을 특징으로 한다.

<17> 바람직하게, 상기 (c) 단계는 상기 제2 작업 프로세스의 기능을 제어하기 위

한 사용자 제2 명령이 입력되는 단계, 상기 사용자 제2 명령에 상응하여 제2 작업 프로세스의 기능을 제어하기 위한 제어 신호를 생성하는 단계 및 상기 생성된 제어 신호에 따라 제2 작업 프로세스의 기능을 제어하는 단계를 포함하는 것을 특징으로 한다.

<18> 이하 첨부된 도면을 참고로 본 발명에 상응하는 작업 프로세스의 기능 제어 방법에 대해 보다 구체적으로 설명한다.

<19> 도 2는 본 발명의 일 실시예에 상응하는, MP3 재생 프로세스와 SMS의 단문 메시지 작성 프로세스를 다중으로 처리하는 이동 단말기에서 SMS의 단문 메시지 작성 중 MP3 재생 프로세스와 관련된 소정 기능을 제어하는 방법을 설명하는 흐름도이다. SMS 단문 메시지 작성 중 MP3 재생 프로세스와 관련된 기능을 제어하기 위한 사용자 제1 명령이 입력된다(단계 10).

<20> 상기 사용자 제1 명령에 응답하여, 이동 단말기의 디스플레이부에는 MP3 재생 프로세스와 관련된 기능을 제어하기 위한 팝업 메뉴가 활성화된다(단계 12). 상기 팝업 메뉴가 활성화되는 경우, MP3 재생 프로세스와 관련된 기능을 제어하기 위한 사용자 제2 명령이 입력되며 상기 사용자 제2 명령에 응답하여 MP3 재생 프로세스와 관련된 기능이 제어된다(단계 14). 상기 팝업 메뉴가 활성화되는 경우 팝업 메뉴를 이용하여 MP3 재생 프로세스에 관련된 기능을 제어하기 위한 팝업 프로세스가 임시큐로 할당되고 SMS 단문 메시지의 작성과 동시에 팝업 프로세스가 다중으로 처리된다. 즉, 팝업 프로세스와 SMS 단문 메시지의 작성 프로세스가 소정의 실행 단위(quantum unit)로 분할되고, 일정한 시간마다 팝업 프로세스와 SMS 단문

메시지의 전송 프로세스가 번갈아 처리된다. 상기 사용자 제2 명령이 입력되는 경우 팝업 프로세스는 상기 사용자 제2 명령에 상응하는 제어 신호를 생성하여 MP3 재생 프로세스로 제공하며, MP3 재생 프로세스는 제공된 제어 신호에 따라 MP3 재생 프로세스에 관련된 기능을 제어한다.

<21> SMS 단문 메시지 작성 프로세스로 복귀하기 위한 사용자 제3 명령이 입력되는지를 판단한다(단계 16). MP3 재생 프로세스와 관련된 기능의 제어 완료 후 상기 사용자 제3 명령이 입력되는 경우, 상기 활성화된 팝업 메뉴는 불활성화된다(단계 18). 상기 팝업 메뉴가 임시큐에서 삭제되어 팝업 프로세스가 종료하더라도 MP3 재생 프로세스와 SMS 단문 메시지 작성 프로세스는 계속되며 사용자는 MP3 음악 과일을 들으며 작성 중이던 단문 메시지를 연속해서 작성할 수 있다.

<22> 바람직하게, 상기 사용자 제1 내지 제3 명령은 이동 단말기의 키패드에 배치된 소정의 키, 사용자의 음성, 이동 단말기의 움직임 등을 통해 입력될 수 있다.

<23> 바람직하게, 상기 사용자 제1 명령과 제3 명령은 이동 단말기의 동일 키를 통해 입력되는 것을 특징으로 한다.

<24> 도 3은 본 발명의 일 실시예에 상응하여 디스플레이되는 팝업 메뉴를 도시하고 있다.

<25> 도 3의 (a)는 MP3 재생 프로세스와 SMS 단문 메시지 작성 프로세스가 다중으로 처리될 때의 화면을 도시하고 있다. 바람직하게, SMS 단문 메시지 작성 프로세스와 다중으로 처리되는 MP3 재생 프로세스를 나타내는 아이콘(22)이 디스플레이부

의 일부분에 함께 디스플레이된다.

<26> 도 3의 (b)는 상기 사용자 제1 명령에 응답하여 팝업되는 메뉴를 도시하고 있다. 상기 팝업 메뉴는 소정 포맷을 가지며 상기 디스플레이되는 팝업 메뉴에 대한 이미지 정보는 이동 단말기의 메모리부에 저장되어 있다. 바람직하게, 상기 사용자 제1 명령에 응답하여 팝업 메뉴는 밝고 선명하게 디스플레이되고 SMS 단문 메시지 프로세스에 상응하는 화면은 어둡게 흐리게 디스플레이될 수 있다.

<27> 도 4는 본 발명의 일 실시예에 상응하는, MP3 재생 프로세스와 SMS 단문 메시지 작성 프로세스를 다중으로 처리하는 이동 단말기에서 상기 MP3 재생 프로세스에 관련된 기능을 제어하는 장치의 기능 블록도를 도시하고 있다. 도 4를 참고로, 본 발명에 상응하는 기능 제어 장치는 사용자 인터페이스부(30), 팝업 메뉴 활성화부(31), 기능 제어부(32), 임시큐(33), 디스플레이부(34), 데이터 버스(35), 다수의 애플리케이션 모듈(36, 37, 38) 및 메모리부(39)를 포함하고 있다.

<28> 사용자 인터페이스부(30)를 통해 사용자 제1 명령이 입력된다. 상기 사용자 제1 명령에 응답하여 팝업 메뉴 활성화부(31)는 데이터 버스(35)를 통해 메모리부(39)에 소정 포맷으로 저장되어 있는 팝업 메뉴에 대한 이미지 정보를 획득하고 상기 팝업 메뉴를 디스플레이부(34)에 활성화시킨다. 한편, 임시큐(33)에는 팝업 프로세스가 저장된다.

<29> 사용자 인터페이스부(30)를 통해 MP3 재생 프로세스에 관련된 기능을 제어하기 위한 사용자 제2 명령이 입력되고, 기능 제어부(32)는 상기 사용자 제2 명령에 응답하여 팝업 메뉴를 제어하기 위한 제1 제어 신호를 생성한다. 임시큐(33)에 저

장되어 있는 MP3 재생 프로세스, SMS 단문 메시지 작성 프로세스 및 팝업 프로세스는 일정한 시간 간격마다 번갈아 처리되며, 상기 생성된 제1 제어 신호는 데이터 버스(35)를 통해 MP3 모듈로 전송되어 MP3 재생 프로세스와 관련된 기능이 제어된다.

<30> 사용자 인터페이스부(30)를 통해 상기 팝업 프로세스를 종료하기 위한 사용자 제3 명령이 입력된다. 상기 사용자 제3 명령에 응답하여 기능 제어부(32)는 팝업 메뉴를 불활성하기 위한 제2 제어 신호를 생성하며, 상기 생성된 제2 제어 신호는 데이터 버스(35)를 통해 임시큐(33)로 전달된다. 임시큐(33)는 상기 제2 제어 신호에 응답하여 팝업 프로세스를 삭제하고 팝업 프로세스는 종료한다.

<31> 한편, 상술한 본 발명의 실시예들은 컴퓨터에서 실행될 수 있는 프로그램으로 작성 가능하고, 컴퓨터로 읽을 수 있는 기록 매체를 이용하여 상기 프로그램을 동작시키는 범용 디지털 컴퓨터에서 구현될 수 있다.

<32> 상기 컴퓨터로 읽을 수 있는 기록 매체는 마그네틱 저장 매체(예를 들어, 롬, 플로피 디스크, 하드디스크 등), 광학적 판독 매체(예를 들면, 시디롬, 디브이디 등) 및 캐리어 웨이브(예를 들면, 인터넷을 통한 전송)와 같은 저장 매체를 포함한다.

<33> 본 발명은 도면에 도시된 실시예를 참고로 설명되었으나 이는 예시적인 것에 불과하며, 본 기술 분야의 통상의 지식을 가진 자라면 이로부터 다양한 변형 및 균등한 타 실시예가 가능하다는 점을 이해할 것이다. 따라서, 본 발명의 진정한 기술적 보호 범위는 첨부된 등록청구범위의 기술적 사상에 의해 정해져야 할 것이다.

【발명의 효과】

<34> 상기 설명한 본 발명은 MP3 재생 프로세스와 SMS 단문 메시지 작성 프로세스가 다중으로 처리되는 이동 단말기에서 팝업 메뉴를 통해 MP3 재생 프로세스와 관련된 기능을 제어함으로써, SMS 단문 메시지를 작성하는 동안에도 간편하게 MP3 재생 프로세스에 관련된 기능을 제어할 수 있다.

<35> 또한, 상기 설명한 본 발명은 MP3 재생 프로세스와 SMS 단문 메시지 작성 프로세스가 다중으로 처리되는 이동 단말기에서 팝업 메뉴를 통해 MP3 재생 프로세스와 관련된 기능을 제어함으로써, MP3 재생 프로세스와 관련된 기능을 제어한 후 작성 중이던 단문 메시지를 연속하여 작성할 수 있다.

【특허청구범위】

【청구항 1】

제1 작업 프로세스와 제2 작업 프로세스를 다중으로 처리하는 이동 단말기에
서 제1 작업 프로세스의 진행 중 제2 작업 프로세스의 소정 기능을 제어하는 방법
에 있어서,

(a) 상기 제2 작업 프로세스의 기능을 선택하기 위한 사용자의 제1 명령이
입력되는 단계;

(b) 상기 사용자의 제1 명령에 응답하여, 상기 제2 작업 프로세스의 소정 기
능을 제어하기 위한 팝업 메뉴가 활성화되는 단계; 및

(c) 상기 활성화된 팝업 메뉴를 통해 상기 제2 작업 프로세스의 기능을 제어
하는 단계를 포함하는 것을 특징으로 하는 작업 프로세스 제어 방법.

【청구항 2】

제 2 항에 있어서, 상기 (c) 단계는
상기 제2 작업 프로세스의 기능을 제어하기 위한 사용자의 제2 명령이 입력되는 단
계;

상기 사용자의 제2 명령에 상응하여 제2 작업 프로세스의 기능을 제어하기 위한 제
어 신호를 생성하는 단계; 및

상기 생성된 제어 신호에 따라 제2 작업 프로세스의 기능을 제어하는 단계를 포함
하는 것을 특징으로 하는 작업 프로세스 제어 방법.

【청구항 3】

제 2 항에 있어서,

상기 활성화된 팝업 메뉴를 불활성화하기 위한 사용자의 제3 명령이 입력되는 단계; 및

상기 사용자의 제3 명령에 응답하여 상기 활성화된 팝업 메뉴를 불활성화시키는 단계를 더 포함하는 것을 특징으로 하는 작업 프로세스 제어 방법.

【청구항 4】

제 3 항에 있어서, 상기 사용자의 제1 명령과 제3 명령은

상기 이동 단말기의 동일 키를 통해 입력되는 것을 특징으로 하는 작업 프로세스 제어 방법.

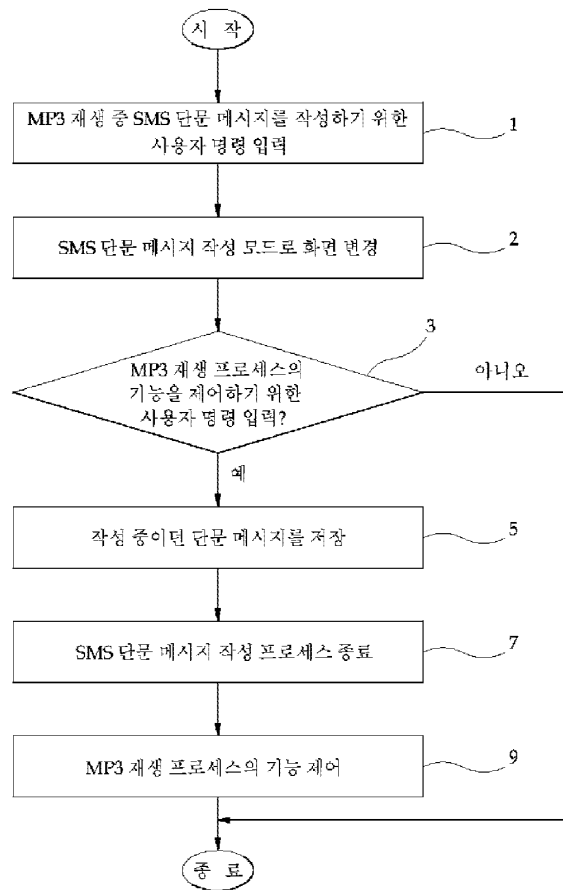
【청구항 5】

제 3 항에 있어서, 상기 제2 작업 프로세스는

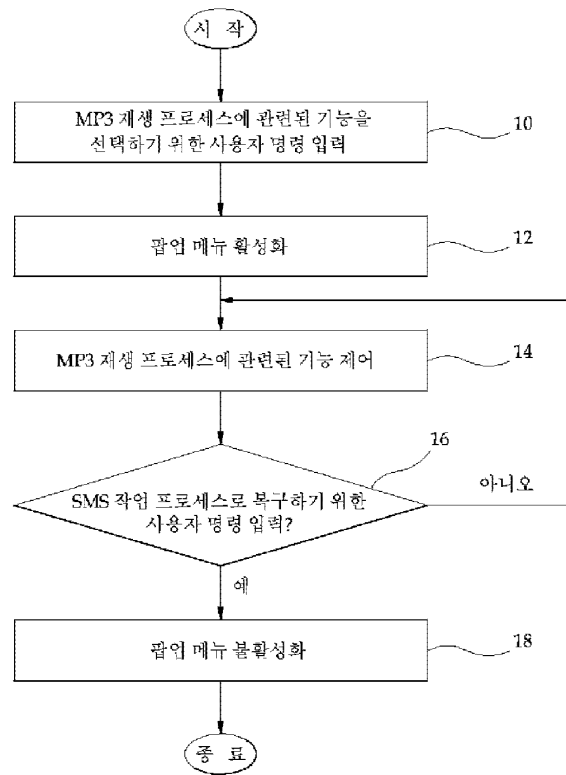
MP3 재생 프로세스인 것을 특징으로 하는 작업 프로세스 제어 방법.

【도면】

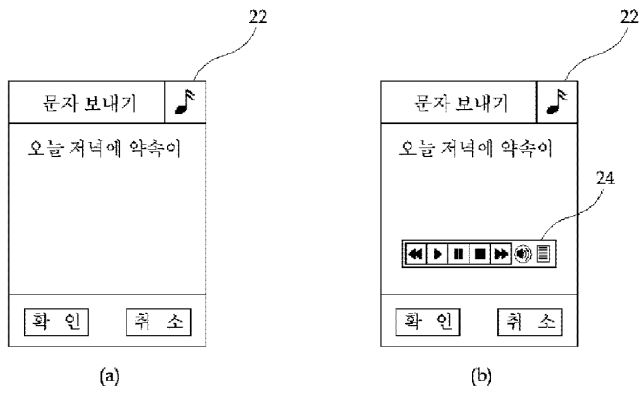
【도 1】



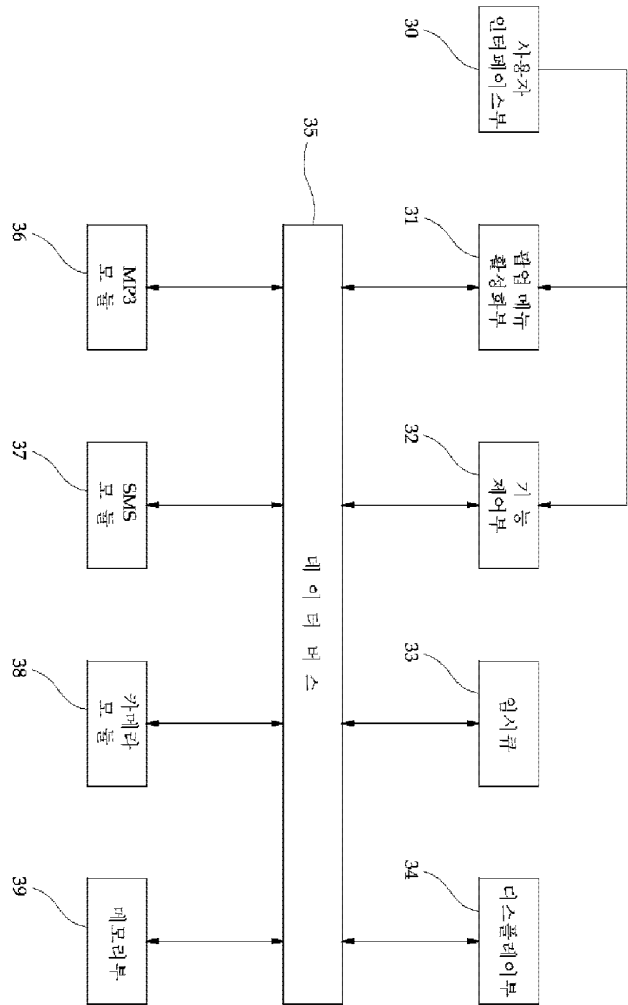
【도 2】



【도 3】



【도 4】





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H.C. PARK & ASSOCIATES, PLC
1894 PRESTON WHITE DRIVE
RESTON, VA 20191

EXAMINER

SWIFT, CHARLES M

ART UNIT	PAPER NUMBER
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2196

NOTIFICATION DATE	DELIVERY MODE
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05/19/2016

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATENT@PARK-LAW.COM

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

DETAILED ACTION

2. This office action is in response to application filed on 1/29/2016.
3. Claims 1 – 19 are pending.
4. Priority is claimed as continuation to 14/840844, which is a continuation to 11/495863, which claims priority to Korean application 10-2005-0102198 and 10-2005-0073877.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the claims at issue are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*,

686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/forms/. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to <http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp>.

6. Claims **1 – 19** are rejected on the ground of nonstatutory double patenting as being unpatentable over claims **1 – 3 and 5 – 12** of U.S. Patent No. **9122518**. Although

Art Unit: 2196

the claims at issue are not identical, they are not patentably distinct from each other, see comparison table below.

Instant application	USPAT 9122518
Claim 1	Claim 1
Claim 2	Claim 2
Claim 3	Claim 3
Claim 4	Claim 5
Claim 5	Claim 6
Claim 6	Claim 6
Claim 7	Claim 7
Claim 8	Claim 8
Claim 9	Claim 1, limitation 3
Claim 10	Claim 9
Claim 11	Claim 10
Claim 12	Claim 9, limitation 2
Claim 13	Claim 11
Claim 14	Claim 12
Claim 15	Claim 9
Claim 16	Claim 10
Claim 17	Claim 9, limitation 2
Claim 18	Claim 11
Claim 19	Claim 12

7. Claims **1 – 19** are rejected on the ground of nonstatutory double patenting as being unpatentable over claims **1 – 19** of U.S. Patent No. **9250957**. Although the claims at issue are not identical, they are not patentably distinct from each other, see comparison table below.

Instant application	USPAT 9250957
Claim 1	Claim 1
Claim 2	Claim 2
Claim 3	Claim 3
Claim 4	Claim 4
Claim 5	Claim 5
Claim 6	Claim 6
Claim 7	Claim 7
Claim 8	Claim 8
Claim 9	Claim 9
Claim 10	Claim 10
Claim 11	Claim 11
Claim 12	Claim 12
Claim 13	Claim 13
Claim 14	Claim 14
Claim 15	Claim 15
Claim 16	Claim 16
Claim 17	Claim 17
Claim 18	Claim 18
Claim 19	Claim 19

Claim Rejections - 35 USC § 103

8. 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 negated by the manner in which the invention was made.

9. Claims **1 – 4 and 7 – 9** are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kokubo (USPAT 7123945, prior art submitted in IDS)**, in view of **Cain (US 20050183017, prior art submitted in IDS)**.

As per claim 1, Kokubo discloses: A method for controlling a predetermined function of a second work process during a first work process in a multitasking mobile terminal that performs the first work process and the second work process, the method comprising:

displaying an icon corresponding to the first work process in a designated portion of a display; if the first work process is selected, displaying a screen of the first work process; (**Kokubo col 11, lines 3 – 18: activating and run web browser application in the main display unit 122, when the web browser is activated, automatically generate the icon 10 for the web browser and displayed the icon on the sub-display unit 142.**)

in response to a first command for selecting the second work process, performing sequential display of icons such that an icon corresponding to the second work process is displayed, wherein the icon corresponding to the second work process is displayed in a designated portion of the display; (**Kokubo col 11, lines 34 – 40 & col 11, line 49 – col 12, line 6: if a different application such as email software is activated but the icon is not displayed on the sub-display unit 142, manually generate icon for email application using operation keys and the like and display the generated icon in sub-display unit 142; col 11, lines 1 – 5: applications are**

activated using a predetermined operation performed with the input/call key 162 or the operation key 164.)

in response to a second command for changing to the second work process, replacing the screen of the first work process with a screen of the second work process; **(Kokubo col 10, lines 24 – 35 & Fig. 8B - 8C: scrolls to desired icon (A) and selects it; col 11, lines 41 – 48: if the icon is displayed on the sub-display unit 142, switching to the application software corresponding to the icon, and the email screen is displayed on the main display unit 122.)**

controlling the multitasking of the second work process and the first work process; **(Kokubo col 10, lines 4 – 9 and fig. 8B – 8C: processing of the activated task B is started on the main region 122a, and the task B is displayed on the main display unit 122, at the same time, processing of the task A is continued in the sub-region 142a in the memory, and the most recent states are monitored by the pointer p.)**

Kokubo did not disclose:

in response to a third command for activating a control menu for controlling a predetermined function of the first work process, activating the control menu for controlling the predetermined function of the first work process;

and in response to a fourth command for controlling the predetermined function of the first work process through the activated control menu, controlling the predetermined function of the first work process through the activated control menu.

However, Cain teaches:

in response to a third command for activating a control menu for controlling a predetermined function of the first work process, activating the control menu for controlling the predetermined function of the first work process; and in response to a fourth command for controlling the predetermined function of the first work process through the activated control menu, controlling the predetermined function of the first work process through the activated control menu. **(Cain [0055]: playback control is not available on screen during full screen mode, user can display control by moving mouse pointer to make playback control appears on screen, and controls the playback with it, and the playback control can then slide off the screen and remain hidden a few moments after appearing.)**

It would have been obvious for one of ordinary skill in the art at the time of invention to incorporate the teaching of Cain into that of Kokubo in order to activating a pop-up for controlling a predetermined function of the second work process in response to a third command; and controlling the predetermined function of the second work process through the activated pop-up in response to a fourth command. Cain teaches hiding controls for media playback while in full screen mode would allow user the unobstructed view of the media, and making the control appear and disappear based on user interaction would allow easy playback control without affecting viewing as the control may fade out after a few moments, thus the combination of prior art would enhance the overall appeals of all references by allowing a simpler and more efficient way to present UI to users for controlling aspects of applications in the mobile phone.

As per claim 2, Kokubo and Cain further teach:

The method of claim 1, wherein the controlling the predetermined function of the first work process comprises: generating a control signal for controlling the predetermined function of the first work process in response to the fourth command; and controlling the predetermined function of the first work process in response to the generated control signal. **(Cain [0055]: playback control is not available on screen during full screen mode, user can display control by moving mouse pointer to make playback control appears on screen, and controls the playback with it, and the playback control can then slide off the screen and remain hidden a few moments after appearing.)**

As per claim 3, Kokubo and Cain further teach:

The method of claim 1, further comprising: in response to a fifth command for deactivating the activated control menu, deactivating the activated control menu. **(Cain [0055]: mouse movement.)**

As per claim 4, Kokubo and Cain further teach:

The method of claim 1, wherein the first work process is an MP3 play process. **(Cain [0084]: music playback; [0008]: digital media.)**

As per claim 7, Kokubo and Cain further teach:

The method of claim 3, wherein the third command and the fifth command are inputted through at least one of a predetermined key, a user's voice, and a motion of the mobile terminal. **(Cain [0055]: mouse movement.)**

As per claim 8, Kokubo and Cain further teach:

The method of claim 1, wherein, in response to a repetition of the first command, performing sequential display of icons such that a displayed icon disappears from a screen of the mobile terminal and an icon appears on the screen of the mobile terminal. **(Kokubo col 10, lines 4 – 19: when task B is terminated, task A is resumed on the main display unit, and the icon 10 for task A is erased from the sub-display unit 142; col 10, lines 24 – 35: switching task using predetermined keys.)**

As per claim 9, Kokubo and Cain further teach:

The method of claim 1, wherein an icon to be displayed in the designated portion is replaced with an icon that is different from the icon corresponding to the second work process in response to the second command. **(Kokubo col 11, lines 34 – 40 & col 11, line 49 – col 12, line 6: if a different application such as email software is activated but the icon is not displayed on the sub-display unit 142, manually generate icon for email application using operation keys and the like and display the generated icon in sub-display unit 142; col 11, lines 1 – 5: applications are activated using a predetermined operation performed with the input/call key 162**

or the operation key 164.)

10. Claims **5 and 6** are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kokubo and Cain**, and further in view of **King (US 20050229103, prior art submitted in IDS)**.

As per claim 5, Kokubo and Cain did not teach:

The method of claim 1, wherein an item of the first work process is displayed relatively brighter or clearer than the screen of the first work process.

However, King teaches:

The method of claim 1, wherein an item of the first work process is displayed relatively brighter or clearer than the screen of the first work process. **(King [0078]: if an icon is active, it will be shown as brighter. Thus when combined with Kokubo col 11, lines 3 – 18, wherein the phone has just been turned on and the browser application is the only program activated and thus the only icon presented in the sub-display area, the web browser application icon would be brighter than the actual screen of the web browser application shown in the main display area.)**

It would have been obvious for one of ordinary skill in the art at the time of invention to incorporate the teaching of King into that of Kokubo and Cain in order to have an item of the first work process is displayed brighter than the screen of the first work process.

Kokubo col 11, lines 3 – 18 teaches after the phone is powered on, activating and run web browser application in the main display unit 122, when the web browser is

activated, automatically generate the icon 10 for the web browser and displayed the icon on the sub-display unit 142, thus Kokubo teaches initially, only the web browser icon is displayed in the sub-display area while the actual screen of the web browser application is shown in the main display area. Thus combining the teaching of King into the existing prior art would allow the web browser icon to be brighter than the actual screen of the web browser to easily distinguish the icon from the screen, such combination would enhance the user friendliness of the phone UI.

As per claim 6, Kokubo and Cain did not teach:

The method of claim 1, wherein an item of the second work process is displayed relatively brighter or clearer than an item of a work process other than the second work process.

However, King teaches:

The method of claim 1, wherein an item of the second work process is displayed relatively brighter or clearer than an item of a work process other than the second work process. **(King [0078]: if an icon is active, it will be shown as brighter. Thus when combined with Kokubo col 11, lines 3 – 18, wherein the phone has just been turned on and the browser application is the only program activated and thus the only icon presented in the sub-display area, the web browser application icon would be brighter than the actual screen of the web browser application shown in the main display area.)**

It would have been obvious for one of ordinary skill in the art at the time of invention to incorporate the teaching of King into that of Kokubo and Cain in order to have an item of the first work process is displayed brighter than the screen of the first work process.

Kokubo col 11, lines 3 – 18 teaches after the phone is powered on, activating and run web browser application in the main display unit 122, when the web browser is activated, automatically generate the icon 10 for the web browser and displayed the icon on the sub-display unit 142, thus Kokubo teaches initially, only the web browser icon is displayed in the sub-display area while the actual screen of the web browser application is shown in the main display area. Thus combining the teaching of King into the existing prior art would allow the web browser icon to be brighter than the actual screen of the web browser to easily distinguish the icon from the screen, such combination would enhance the user friendliness of the phone UI.

11. Claims **10 – 19** are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Kokubo**, in view of **King**.

As per claim 10, Kokubo discloses: A method for selecting a second work process during a first work process in a multitasking mobile terminal that performs the first work process and the second work process in a multitasking environment, the method comprising:

displaying an icon corresponding to the first work process in a designated portion of a display; if the first work process is selected, displaying a screen of the first work

process; **(Kokubo col 11, lines 3 – 18: activating and run web browser application in the main display unit 122, when the web browser is activated, automatically generate the icon 10 for the web browser and displayed the icon on the sub-display unit 142.)**

in response to a first command for selecting the second work process, performing sequential display of icons such that an icon corresponding to the second work process is displayed, wherein the icon corresponding to the second work process is displayed in a designated portion of the display; **(Kokubo col 11, lines 34 – 40 & col 11, line 49 – col 12, line 6: if a different application such as email software is activated but the icon is not displayed on the sub-display unit 142, manually generate icon for email application using operation keys and the like and display the generated icon in sub-display unit 142; col 11, lines 1 – 5: applications are activated using a predetermined operation performed with the input/call key 162 or the operation key 164.)**

in response to a second command for changing to the second work process, replacing the screen of the first work process with a screen of the second work process; **(Kokubo col 10, lines 24 – 35 & Fig. 8B - 8C: scrolls to desired icon (A) and selects it; col 11, lines 41 – 48: if the icon is displayed on the sub-display unit 142, switching to the application software corresponding to the icon, and the email screen is displayed on the main display unit 122.)**

and controlling the multitasking of the second work process and the first work process, **(Kokubo col 10, lines 4 – 9 and fig. 8B – 8C: processing of the activated**

task B is started on the main region 122a, and the task B is displayed on the main display unit 122, at the same time, processing of the task A is continued in the sub-region 142a in the memory, and the most recent states are monitored by the pointer p.)

Kokubo did not disclose:

wherein an item of the second work process is displayed relatively brighter or clearer than an item of a work process other than the second work process.

However, King teaches:

wherein an item of the second work process is displayed relatively brighter or clearer than an item of another work process. **(King [0078]: if an icon needs attention, it may be flashing, note flashing is equivalent to be brighter or clearer than others.)**

It would have been obvious for one of ordinary skill in the art at the time of invention to incorporate the teaching of King into that of Kokubo in order to have an item of the second work process is displayed relatively brighter or clearer than an item of another work process. King [0078] teaches that if an icon needs user attention, it can be set to flashing, thus when a call is received, the icon for the phone function can be flashing to show the user about the incoming call, thus applicant have merely claimed the combination of known parts in the field to achieve predictable results and is therefore rejected under 35 USC 103.

As per claim 11, Kokubo and King further teach:

The method of claim 10, wherein, in response to a repetition of the first command, performing sequential display of icons such that a displayed icon disappears from a screen of the mobile terminal and an icon appears on the screen of the mobile terminal. **(Kokubo col 10, lines 4 – 19: when task B is terminated, task A is resumed on the main display unit, and the icon 10 for task A is erased from the sub-display unit 142; col 10, lines 24 – 35: switching task using predetermined keys.)**

As per claim 12, Kokubo and King further teach:

The method of claim 10, wherein an icon to be displayed in the designated portion is replaced with an icon that is different from the icon corresponding to the second work process in response to the second command. **(Kokubo col 10, lines 4 – 19: when task B is terminated, task A is resumed on the main display unit, and the icon 10 for task A is erased from the sub-display unit 142; col 10, lines 24 – 35: switching task using predetermined keys.)**

As per claim 13, Kokubo and King further teach:

The method of claim 10, wherein the first command and the second command are inputted through at least one of a predetermined key, a user's voice, and a motion of the mobile terminal. **(Kokubo col 11, lines 1 – 5: applications are activated using a**

predetermined operation performed with the input/call key 162 or the operation key 164.)

As per claim 14, Kokubo and King further teach:

The method of claim 10, wherein the screen of the first work process is displayed together with sequentially displayed icons corresponding to respective work processes of the mobile terminal. **(Kokubo col 11, lines 3 – 18: activating and run web browser application in the main display unit 122, when the web browser is activated, automatically generate the icon 10 for the web browser and displayed the icon on the sub-display unit 142.)**

As per claim 15, Kokubo discloses: A method for selecting a second work process during a first work process in a multitasking mobile terminal that performs the first work process and the second work process in a multitasking environment, the method comprising:

displaying an icon corresponding to the first work process in a designated portion of a display; if the first work process is selected, displaying a screen of the first work process; **(Kokubo col 11, lines 3 – 18: activating and run web browser application in the main display unit 122, when the web browser is activated, automatically generate the icon 10 for the web browser and displayed the icon on the sub-display unit 142.)**

in response to a first command for selecting the second work process, performing sequential display of icons such that an icon corresponding to the second work process is displayed, wherein the icon corresponding to the second work process is displayed in a designated portion of the display; **(Kokubo col 11, lines 34 – 40 & col 11, line 49 – col 12, line 6: if a different application such as email software is activated but the icon is not displayed on the sub-display unit 142, manually generate icon for email application using operation keys and the like and display the generated icon in sub-display unit 142; col 11, lines 1 – 5: applications are activated using a predetermined operation performed with the input/call key 162 or the operation key 164.)**

in response to a second command for changing to the second work process, replacing the screen of the first work process with a screen of the second work process; **(Kokubo col 10, lines 24 – 35 & Fig. 8B - 8C: scrolls to desired icon (A) and selects it; col 11, lines 41 – 48: if the icon is displayed on the sub-display unit 142, switching to the application software corresponding to the icon, and the email screen is displayed on the main display unit 122.)**

and controlling the multitasking of the second work process and the first work process, **(Kokubo col 10, lines 4 – 9 and fig. 8B – 8C: processing of the activated task B is started on the main region 122a, and the task B is displayed on the main display unit 122, at the same time, processing of the task A is continued in the sub-region 142a in the memory, and the most recent states are monitored by the pointer p.)**

Kokubo did not disclose:

wherein an item of the first work process is displayed relatively brighter or clearer than the screen of the first work process.

However, King teaches:

wherein an item of the first work process is displayed relatively brighter or clearer than the screen of the first work process. **(King [0078]: if an icon needs attention, it may be flashing, note flashing is equivalent to be brighter or clearer than others.)**

It would have been obvious for one of ordinary skill in the art at the time of invention to incorporate the teaching of King into that of Kokubo in order to have an item of the second work process is displayed relatively brighter or clearer than an item of another work process. King [0078] teaches that if an icon needs user attention, it can be set to flashing, thus when a call is received, the icon for the phone function can be flashing to show the user about the incoming call, thus applicant have merely claimed the combination of known parts in the field to achieve predictable results and is therefore rejected under 35 USC 103.

As per claim 16, Kokubo and King further teach:

The method of claim 15, wherein, in response to a repetition of the first command, performing sequential display of icons such that a displayed icon disappears from a screen of the mobile terminal and an icon appears on the screen of the mobile terminal. **(Kokubo col 10, lines 4 – 19: when task B is terminated, task A is resumed on the main display unit, and the icon 10 for task A is erased from the**

sub-display unit 142; col 10, lines 24 – 35: switching task using predetermined keys.)

As per claim 17, Kokubo and King further teach:

The method of claim 15, wherein an icon to be displayed in the designated portion is replaced with an icon that is different from the icon corresponding to the second work process in response to the second command. **(Kokubo col 10, lines 4 – 19: when task B is terminated, task A is resumed on the main display unit, and the icon 10 for task A is erased from the sub-display unit 142; col 10, lines 24 – 35: switching task using predetermined keys.)**

As per claim 18, Kokubo and King further teach:

The method of claim 15, wherein the first command and the second command are inputted through at least one of a predetermined key, a user's voice, and a motion of the mobile terminal. **(Kokubo col 11, lines 1 – 5: applications are activated using a predetermined operation performed with the input/call key 162 or the operation key 164.)**

As per claim 19, Kokubo and King further teach:

The method of claim 1, wherein the screen of the first work process is displayed together with sequentially displayed icons corresponding to respective work processes

of the mobile terminal. **(Kokubo col 11, lines 3 – 18: activating and run web browser application in the main display unit 122, when the web browser is activated, automatically generate the icon 10 for the web browser and displayed the icon on the sub-display unit 142.)**

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHARLES SWIFT whose telephone number is (571)270-7756. The examiner can normally be reached on Monday to Friday, 9:30AM - 6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emerson Puente can be reached on (571)272-3652. 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.

Application/Control Number: 15/010,629
Art Unit: 2196

Page 22

/CHARLES SWIFT/
Primary Examiner, Art Unit 2196

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		15010629 - GAU: 2196
	Filing Date		2016-01-29
	First Named Inventor	Seul Ki CHOI	
	Art Unit		
	Examiner Name	/Charles Swift/	
	Attorney Docket Number		P4101USC1C1

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	7222304		2007-05-22	BEATON et al.	
	2	7123945		2006-10-17	KOKUBO	
	3	6546263		2003-04-08	PETTY et al.	
	4	5859639		1999-01-12	EBRAHIM	
	5	5075675		1991-12-24	BARKER et al.	
	6	8106877		2012-01-31	PARK et al.	
	7	6388686		2002-05-14	HETHERINGTON et al.	
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.S./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		15010629 - GAU: 2196	
	Filing Date		2016-01-29	
	First Named Inventor	Seul Ki CHOI		
	Art Unit			
	Examiner Name	/Charles Swift/		
	Attorney Docket Number		P4101USC1C1	

	9	7546188		2009-06-09	NEZU et al.	
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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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	Art Unit			
	Examiner Name	/Charles Swift/		
	Attorney Docket Number		P4101USC1C1	

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	First Named Inventor	Seul Ki CHOI	
	Art Unit		
	Examiner Name	/Charles Swift/	
	Attorney Docket Number	P4101USC1C1	

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	NOKIA CORP., "User's Guide for Nokia 5110", Copyright 2004, Nokia Mobile Phones, Finland.	☐
	2	Non-Final Office Action issued on August 31, 2010, in U.S. Patent Application No. 11/495,683.	☐
	3	Final Office Action issued on March 16, 2011, in U.S. Patent Application No. 11/495,683.	☐
	4	Non-Final Office Action issued on October 22, 2012, in U.S. Patent Application No. 11/495,683.	☐
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	6	Non-Final Office Action issued on July 10, 2013, in U.S. Patent Application No. 11/495,683.	☐
	7	Final Office Action issued on December 4, 2013, in U.S. Patent Application No. 11/495,683.	☐
	8	Non-Final Office Action issued on September 23, 2014, in U.S. Patent Application No. 11/495,683.	☐
	9	Notice of Allowance issued on April 22, 2015, in U.S. Patent Application No. 11/495,683.	☐
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	Art Unit			
	Examiner Name	/Charles Swift/		
	Attorney Docket Number	P4101USC1C1		

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Search Notes 	Application/Control No. 15010629	Applicant(s)/Patent Under Reexamination CHOI ET AL.
	Examiner CHARLES SWIFT	Art Unit 2196

CPC- SEARCHED		
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CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Searched EAST and Google for patents	5/13/2016	CS
NPL search in IEEE, ACM and Google	5/13/2016	CS
Limtied text search in 718/(100 102 103), 715/(700 764 778 779 781 802 804 805 808 817 828 829 846 847 864)	5/13/2016	CS
Limited text search in CPC class (G06F3/048 G06F3/0481 G06F3/04817 G06F3/0482 G06F9/48 G06F9/4806 G06F9/4843 G06F9/485 G06F9/4881 G06F9/4443)	5/13/2016	CS
Double patenting search	5/13/2016	CS

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

	/CHARLES SWIFT/ Primary Examiner.Art Unit 2196
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	22	(display\$3 show\$3) with (pop\$1up) with (bright\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:50
L4	8	3 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:50
L5	87	(display\$3 show\$3) with (pop\$1up) same (bright\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:51
L6	9	5 and "715".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:51
L7	0	6 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:51
L8	33	5 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:51
L9	3179	(pop\$1up popup playback) with (bar command console control\$3 button element screen) same (flash\$3 contrast\$3 bright\$3) same (window display screen)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:53
L10	365	9 and "715".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:53
L11	124	10 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:53
L12	4	"11495863"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 17:10
S1	2	"7123945".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 11:50
S2	146	sequential\$2 with (display\$3 show\$3) with icon with order	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2012/10/16 12:39

			DERWENT			
S3	29	S2 and (mobile near3 device)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:39
S4	5	S3 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:39
S5	228	sequential\$2 with (display\$3 show\$3) with ((icon symbol) near5 (work process)) with order	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:42
S6	23	S5 and (mobile near3 device)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:42
S7	0	S6 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:42
S8	6	S5 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:42
S9	536	(display\$3 show\$3) with ((icon symbol) near5 (work process)) with order	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:46
S10	789	(display\$3 show\$3) with ((icon symbol) near5 (work process)) with (order sequen\$6)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:46
S11	40	S2 and (mobile near3 (terminal device))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:47
S12	594990	11and (mobile near3 (terminal device))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:47
S13	97	S10 and (mobile near3 (terminal device))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:47
S14	30	S13 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:47
S15	171	S9 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:55
S16	163	S15 not S14	US- PGPUB; USPAT;	OR	ON	2012/10/16 12:55

			EPO; JPO; DERWENT			
S17	2	S16 and "455".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:55
S18	544	(display\$3 show\$3) with ((icon symbol) near5 (work process)) with order\$3	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:34
S19	176	S18 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:35
S20	5	S19 not S15	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:35
S21	34	(display\$3 show\$3) with ((icon symbol) near5 (work process)) with order\$3 with arrang\$3	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:36
S22	8	(display\$3 show\$3) with ((icon symbol) near5 (work process)) with order\$3 with priority	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:36
S23	1	S22 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:37
S24	633	(arrang\$3 display\$3 show\$3) with ((icon symbol) near5 (work process)) with (order\$3 priority)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:42
S25	211	S24 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:42
S26	33	S25 and ("718" "715" "709").clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:42
S27	0	S26 and (mobile adj3 device)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:43
S28	0	S26 and (mobile near3 (terminal device))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:43
S29	11	S25 and (mobile near3 (terminal device))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:43
S30	35	(arrang\$3) with (display\$3 show\$3) with ((icon symbol) near5 (work process)) with (order\$3 priority)	US- PGPUB;	OR	ON	2012/10/16 13:48

			USPAT; EPO; JPO; DERWENT			
S31	16	S30 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:48
S32	2	"20020080186"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 14:13
S33	0	(arrang\$3) with (display\$3 show\$3) with ((icon symbol) near5 (work process)) with (order\$3 priority) with (active current)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/02/22 17:05
S34	0	(input\$4 enter\$4) with (command) with (display\$3 show\$3) with icon with (active near5 (process))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:30
S35	0	(command) with (display\$3 show\$3) with icon with (active near5 (process))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:30
S36	4	(command) with (display\$3 show\$3) with icon with (active near5 (program task process))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:31
S37	2	S36 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:31
S38	0	command\$3 with (generat\$3 creat\$3) with (list) with icon with (active near4 (process program task))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:34
S39	2	(generat\$3 creat\$3) with (list) with icon with (active near4 (process program task))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:35
S40	2	S39 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:35
S41	15	("7123945").URPN.	USPAT	OR	ON	2013/03/22 17:37
S42	2	S41 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:37
S43	12	("20010016508" "20020002060" "20020077156" "20030013483" "20030045315" "20030232628").pn.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:40
S44	24	(icon indicator) with overlay\$3 with (current near3 (process screen))	US- PGPUB; USPAT; EPO; JPO;	OR	ON	2013/07/02 15:18

			DERWENT			
S45	21	S44 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:19
S46	9112	switch\$3 with active with (application software interface)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:21
S47	9214	switch\$3 with active with (application software interface GUI UI)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:21
S48	5674	S47 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:21
S49	1115	sequential\$2 with (display\$3 show\$3) with icon	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:22
S50	3620	sequential\$2 with (display\$3 show\$3) with (symbol icon)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:22
S51	2	S48 and S50	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:22
S52	515	S48 and (mobile near3 device)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:22
S53	8	US-20030013483-\$.DID. OR US-7123945-\$.DID. OR US-20060247851-\$.DID. OR US-7222304-\$.DID.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:25
S54	7084	concurrent\$3 with (task process job) and (mobile near5 device)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 16:12
S55	92	S47 and S54	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 16:12
S56	43	S55 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 16:12
S57	8	US-20020080186-\$.DID. OR US-20030011638-\$.DID. OR US-6546263-\$.DID. OR US-20050086611-\$.DID.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2013/07/02 16:16
S58	7	"11294231"	US-	OR	ON	2013/07/02

			PGPUB; USPAT; EPO; JPO; DERWENT			17:05
S59	21	overlay\$3 with (notif\$7 near3 icon) with application	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 11:09
S60	2	S59 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 11:10
S61	30	overlay\$3 with (notif\$7 near3 icon)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 11:10
S62	3	S61 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 11:10
S63	241	overlay\$3 with display\$3 with icon with (application program)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 11:36
S64	153	S63 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 11:36
S65	37	S64 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 12:00
S66	6681	715/750-760.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 10:34
S67	24592	multitask\$3 concurrent\$2 near2 task\$3	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 10:34
S68	24592	multitask\$3 (concurrent\$2 near2 task\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 10:35
S69	24592	multitask\$3 (concurrent\$2 near2 task\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 10:35
S70	2	S69 and ((dialog (pop\$1up near3 menu) icon) with (overla\$4 superimpos\$3) with (active) with (application module email SMS music))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 10:36
S71	2	S70 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 10:37

S72	40426	multi\$1task\$3 (concurrent\$2 near2 task\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 11:16
S73	4	S72 and ((dialog (pop\$1up near3 menu) icon) with (overla\$4 superimpos\$3) with (active) with (application module email SMS music))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 11:16
S74	3	S73 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 11:17
S75	2	display\$3 with (task process application sms email browser music mp3) near5 icon with brighter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 16:55
S76	0	S75 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 16:56
S77	0	highlight\$3 with ((task process application sms email browser music mp3) near5 icon) with brighter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:04
S78	781	highlight\$3 with ((task process application sms email browser music mp3) near5 icon)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:04
S79	52	highlight\$3 with (concurrent parallel background) with ((task process application sms email browser music mp3) near5 icon)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:05
S80	28	S79 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:05
S81	30	"10872983"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:07
S82	30	"11308436"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:08
S83	1	"11495863"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:10
S84	5	display\$3 with (pop\$1up popup) with brighter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:11
S85	2	S84 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:11

S86	63	(highlight\$3 blink\$3 flash\$3) with (concurrent parallel background) with ((task process application sms email browser music mp3) near5 icon)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/25 13:45
S87	34	S86 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/25 13:47
S88	0	(alt with tap) with (task program) with (icon)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:16
S89	0	(alt with tap) with (task program) with (switch\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:16
S90	79	(alt with tap)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:16
S91	1377	(task program) with (switch\$3) with (icon symbol)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:17
S92	0	S90 and S91	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:17
S93	0	S92 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:17
S94	44	S90 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:17
S95	12	S94 and "715".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:17
S96	817	(alt with tab)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:18
S97	42	S91 and S96	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:18
S98	27	S97 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:18
S99	10	(alt with tab) with (task program) with (icon symbol)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:24

S100	9	S99 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:24
S101	0	(alt with tab) with (task program) with (icon symbol) same bright\$4	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:49
S102	0	(alt with tab) with (task program) with (icon symbol) and bright\$4	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:50
S103	10	(alt with tab) with (task program) with (icon symbol)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:52
S104	0	(alt with tab) with (task program) with (icon symbol) same (bright\$4 dim\$4)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:53
S105	60	(alt with tab) with (task program window) with (icon symbol list)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:56
S106	0	(alt with tab) with (task program window) with (icon symbol list) same (bright\$4 dim\$4)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:56
S107	7	(alt with tab) with (task program window) with (icon symbol list) and (bright\$4 dim\$4)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:56
S108	3	S107 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:56
S109	40	S105 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:57
S110	3	"20060161847"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 15:00
S111	1	phone and (activat\$3 with (music mp3) with control with pop\$1up)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:26
S112	1	(phone cellphone) and (activat\$3 with (music mp3) with control with pop\$1up)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:26
S113	13	(phone cellphone) and (activat\$3 with (music mp3) with control\$4 with (short\$1cut pop\$1up))	US- PGPUB; USPAT; EPO; JPO;	OR	OFF	2014/09/16 16:27

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S114	0	S113 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:27
S115	79	(show\$3 display\$3 overlay\$3 activat\$3) with (music mp3) with control\$4 with (short\$1cut pop\$1up)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:28
S116	6	S115 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:28
S117	13	(phone cellphone telephone) and (activat\$3 with (music mp3) with control\$4 with (short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:34
S118	13	(phone cellphone telephone device) and (activat\$3 with (music mp3) with control\$4 with (short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:34
S119	1405	(phone cellphone telephone device) and (activat\$3 with (music mp3) with (control\$3 short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:35
S120	14555	(phone cellphone telephone device) and ((display\$3 activat\$3 show\$3)with (music mp3) with (control\$3 short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:35
S121	14555	(phone cellphone telephone device) and ((display\$3 activat\$3 show\$3) with (music mp3) with (control\$3 short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:35
S122	117137	(phone cellphone telephone device) and ((display\$3 activat\$3 show\$3 overlay\$3) with (audio music mp3 media) with (control\$3 short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:36
S123	62143	(phone cellphone telephone device) same ((display\$3 activat\$3 show\$3 overlay\$3) with (audio music mp3 media) with (control\$3 short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:36
S124	549	(phone cellphone telephone device) same ((display\$3 activat\$3 show\$3 overlay\$3) with (audio music mp3) with (quick fast pop\$1up short\$1cut) with (control\$3 menu))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:38
S125	286	S124 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:39
S126	457	(phone cellphone telephone device) with ((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (audio music mp3) with (quick fast pop\$1up short\$1cut) with (control\$3 menu))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:41
S127	227	S126 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT;	OR	ON	2014/09/16 16:42

			EPO; JPO; DERWENT			
S128	182	((phone cellphone telephone device) with ((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (music mp3) with (quick fast pop\$1up short\$1cut) with (control\$3 menu))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:42
S129	94	S128 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:42
S130	140	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (music mp3) with (pop\$1up short\$1cut) with (control\$3 menu))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:44
S131	138	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (music mp3) with (pop\$1up short\$1cut) with (control\$3 menu)) and (phone cellphone telephone device)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:45
S132	73	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (music mp3) with (pop\$1up short\$1cut) with (control\$3 menu)) same (phone cellphone telephone device)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:45
S133	51	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (music mp3) with (pop\$1up short\$1cut) with (control\$3 menu)) same (phone cellphone telephone mobile)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:45
S134	7	S133 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:45
S135	66	((music mp3) with (pop\$1up short\$1cut) with (control\$3 menu)) same (phone cellphone telephone mobile)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:46
S136	9	S135 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:46
S137	174	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (music mp3 playback) with (pop\$1up) with (control\$3 menu)) and (phone cellphone telephone mobile)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 17:14
S138	63	S137 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 17:14
S139	24	S138 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 17:14
S140	445	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3 generat\$3 start\$3) with (music mp3 playback) with (pop\$1up short\$1cut) with (control\$3 menu))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 17:24
S141	188	S140 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB;	OR	ON	2014/09/16 17:24

			USPAT; EPO; JPO; DERWENT			
S142	45	S141 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 17:24
S143	451	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3 generat\$3 start\$3) with (music mp3 playback) with (pop\$1up short\$1cut) with (command\$3 control\$3 menu))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 17:35
S144	310	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3 generat\$3 start\$3) with (music mp3 playback) with (pop\$1up short\$1cut) with (command\$3 control\$3 menu)) and (phone cellphone telephone mobile)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 17:36
S145	80	S144 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 17:36
S146	32	S145 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 17:36
S147	1428	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3 generat\$3 start\$3) with (pop\$1up short\$1cut) with (command\$3 control\$3 menu)) same (MP3 music media video audio) and (phone cellphone telephone mobile)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/17 12:05
S148	595	S147 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 12:05
S149	167	S148 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 12:05
S150	139	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3 generat\$3 start\$3) with (pop\$1up short\$1cut) with (command\$3 control\$3 menu) with (play\$1back)) same (MP3 music media video audio) and (phone cellphone telephone mobile)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/17 12:07
S151	97	S150 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 12:07
S152	20	S151 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 12:07
S153	81	display\$3 with (process application task) with icon with sequential\$2	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/17 15:10
S154	23	S153 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:10
S155	9	S154 and "715".clas.	US-	OR	ON	2014/09/17

			PGPUB; USPAT; EPO; JPO; DERWENT			15:10
S156	3695	display\$3 with (process application task) with icon with (sequential\$2 one single)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/17 15:16
S157	1534	S156 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:17
S158	436	S157 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:17
S159	78	(pop\$1up popup) with (command console) with (brigh\$5 high\$1light\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:24
S160	201	(pop\$1up popup playback) with (command console) with (brigh\$5 high\$1light\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:24
S161	135	S160 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:24
S162	39	S161 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:24
S163	268	(display\$3 constrast\$3) with (pop\$1up popup playback) with (command console control) with (brigh\$5 high\$1light\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:27
S164	45	S163 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:27
S165	17	S164 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:27
S166	105	S163 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:33
S167	50	S166 and (MP3 music media video audio) and (phone cellphone telephone mobile)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/17 15:34
S168	0	(display\$3 constrast\$3) with (pop\$1up popup) with (command console control) with (brighter)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:03

S169	0	(pop\$1up popup) with (command console control) with (brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:04
S170	33	(pop\$1up popup) with (command console control) with (bright\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:04
S171	15	S170 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:04
S172	41	(pop\$1up popup) with (command console control button) with (bright\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:06
S174	19	S172 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:06
S175	1	S174 and "715".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:06
S176	317	(pop\$1up popup playback) with (command console control button) with (bright\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:07
S177	5	(pop\$1up popup playback) with (command console control button) with (brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:07
S178	0	S177 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:07
S179	5	(pop\$1up popup playback) with (bar command console control\$3 button) with (brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:07
S180	72	(pop\$1up popup playback) with (bar command console control\$3 button) with (bright\$3 clear\$3) with screen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:11
S181	173	(pop\$1up popup playback) with (bar command console control\$3 button element screen) with (bright\$3 clear\$3) with screen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:11
S182	26	S181 and "715".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:12
S183	7	S182 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:12

S184	24	(pop\$1up popup playback) with (bar command console control\$3 button element screen) with bright\$3 same screen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:13
S185	3	S184 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:14
S186	178	(pop\$1up popup playback) with (bar command console control\$3 button element screen) with (contrast\$3 bright\$3) same screen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:15
S187	556	(pop\$1up popup playback) with (bar command console control\$3 button element screen) with (flash\$3 contrast\$3 bright\$3) same screen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:15
S188	272	S187 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:15
S189	33	S188 and "715".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:15
S190	2	"20030007015"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:49
S191	2	"5852440".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:50
S192	11	display\$3 with ((task process application) near3 icon) with (intens\$3 brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:06
S193	2	S192 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:07
S194	12	(color\$3 colour\$3 display\$3 show\$3 shad\$3) with ((task process application) near3 icon) with (intens\$3 brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:08
S195	3	S194 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:08
S196	28	((task process application) near3 icon) with (intens\$3 brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:08
S197	4	((task process application) near3 icon) with (((higher greater) near2 intens\$3) brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:09

S198	0	S197 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:13
S199	4	((task process application app) near3 icon) with (((higher greater) near2 intens\$3) brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:14
S200	4	((task process application app) near3 (thumbnail icon)) with (((higher greater) near2 intens\$3) brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:14
S201	4	((task process application app) near3 (thumbnail icon)) with (((higher greater more) near2 intens\$3) brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:15
S202	5	((task process application app) near3 (thumbnail icon)) with (((higher greater more) near3 intens\$3) brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:15
S203	1	S202 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:15
S204	849	((task process application app) near3 (thumbnail icon)) with (((higher greater more) near3 intens\$3) brighter highlight\$3 flash\$3 blink\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:16
S205	380	S204 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:17
S206	120	S205 and "715".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:17
S207	784	((task process application app) near3 (icon)) with (((higher greater more) near3 intens\$3) brighter highlight\$3 flash\$3 blink\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:17
S208	299	S207 and "715".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:17
S209	112	S208 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:17
S210	658	((task application) near3 (icon)) with (((higher greater more) near3 intens\$3) brighter highlight\$3 flash\$3 blink\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:18
S211	316	S210 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2014/09/17 17:19

			DERWENT			
S212	86	S211 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:19
S213	790	((task process application app) near3 (icon)) with (((higher greater more) near3 intens\$3) brighter brighten\$3 highlight\$3 flash\$3 blink\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:50
S214	369	S213 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:50
S215	112	S214 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:50
S216	5	((task process application app) near3 (icon)) with (((higher greater more) near3 intens\$3) brighter brighten\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:51
S217	1	S216 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:51
S218	0	S217 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:51
S219	0	S216 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:51
S220	109	S215 and (mobile portable mp3 phone cellphone telephone device)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:54
S221	384282	("715" "455").clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 15:06
S222	1307488	(mobile portable mp3 phone cellphone telephone device) with (GUI interface)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 15:08
S223	504	(icon) with (((higher greater more) near3 intens\$3) brighter brighten\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 15:09
S224	84	S221 and S222 and S223	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 15:09
S225	30	S224 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT;	OR	ON	2014/09/18 15:09

			EPO; JPO; DERWENT			
S228	3	"20060101293"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 15:20
S229	13902	718/ 100,102,103.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:48
S230	339	715/ 828.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:52
S231	2539	(task program process) with switch\$3 same (shortcut icon)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:53
S232	0	S230 and S231	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:53
S233	10310	(task program process window screen) with (switch\$3 focus\$3) same (shortcut icon)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:53
S234	22	S230 and S233	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:53
S235	12	S234 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:54
S236	751153	(task program process window screen) with (switch\$3 focus\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:55
S237	567898	(task program process) with (switch\$3 focus\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:55
S238	35	S230 and S237	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:55
S239	17	S238 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:55
S240	35211	(task program process window screen) with (switch\$3 focus\$3) with (icon object shortcut)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:08
S241	1095	(pop\$1up popup playback) with (bar command console control\$3 button element screen) with (flash\$3 contrast\$3 bright\$3) same (window display	US- PGPUB;	OR	ON	2015/04/16 18:09

		screen)	USPAT; EPO; JPO; DERWENT			
S242	103	S240 and S241	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:12
S243	19155	715/ 700,764,778,779,781,802,804,805,808,817,828,829,846,847,864.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:12
S244	43006	(G06F3/048 G06F3/0481 G06F3/04817 G06F3/0482 G06F9/48 G06F9/4806 G06F9/4843 G06F9/485 G06F9/4881 G06F9/4443).cpc.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:12
S245	67212	S229 or S243 or S244	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:12
S246	11	S242 and S245	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:12
S247	5	S246 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:12
S248	49577	(task program process) with (icon shortcut)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:16
S249	68	S230 and S248	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:16
S250	28	S249 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:16
S265	2	"11495863"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/09/17 13:14
S266	4	"11495863"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 12:45

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S251	10731	718/100,102,103.ccls.	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 17:48
S252	14695	715/700,764,778,779,781,802,804,805,808,817,828,829,846,847,864.ccls.	US-	OR	ON	2015/04/16

			PGPUB; USPAT; * No UPAD			17:52
S253	33116	(G06F3/048 G06F3/0481 G06F3/04817 G06F3/0482 G06F9/48 G06F9/4806 G06F9/4843 G06F9/485 G06F9/4881 G06F9/4443).cpc.	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 18:08
S254	51801	S251 or S252 or S253	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 18:08
S255	30899	(task program process window screen) with (switch\$3 focus\$3) with (icon object shortcut)	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 18:08
S256	38158	(task program process window screen application) with (switch\$3 focus\$3) with (icon object shortcut)	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 18:09
S257	842	(pop\$1up popup playback) with (bar command console control\$3 button element menu shortcut) with (flash\$3 contrast\$3 bright\$3) same (window display screen)	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 18:09
S258	91	S256 and S257	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 18:10
S259	10	S254 and S258	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 18:10
S260	6	S259 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 18:11
S261	30899	(task program process window screen) with (switch\$3 focus\$3) with (icon object shortcut)	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 18:13
S262	2786	((task program process window screen) with (switch\$3 focus\$3) with (icon object shortcut)).clm.	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 18:14
S263	17	((pop\$1up popup playback) with (bar command console control\$3 button element menu shortcut) with (flash\$3 contrast\$3 bright\$3) same (window display screen)).clm.	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 18:14
S264	0	S262 and S263	US- PGPUB; USPAT; * No UPAD	OR	ON	2015/04/16 18:15

5/13/2016 6:08:44 PM

C:\Users\cswift\Documents\EAST\Workspaces\EAST 15010629.wsp



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BIB DATA SHEET

CONFIRMATION NO. 4818

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
15/010,629	01/29/2016	718	2196	P4101USC1C1		
RULE						
APPLICANTS PANTECH CO., LTD., Seoul, KOREA, REPUBLIC OF; Verified - CS INVENTORS Seul Ki CHOI, Ansan-si, KOREA, REPUBLIC OF; Verified - CS Sang Jin Yoon, Anyang-si, KOREA, REPUBLIC OF;						
** CONTINUING DATA ***** This application is a CON of 14/840,844 08/31/2015 PAT 9250957 Verified - CS which is a CON of 11/495,863 07/28/2006 PAT 9122518						
** FOREIGN APPLICATIONS ***** REPUBLIC OF KOREA 10-2005-0073877 08/11/2005 Verified - CS REPUBLIC OF KOREA 10-2005-0102198 10/28/2005						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 02/12/2016						
Foreign Priority claimed ☒ Yes ☐ No 35 USC 119(a-d) conditions met ☒ Yes ☐ No Verified and Acknowledged <u>/CHARLES M SWIFT/</u> Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY KOREA, REPUBLIC OF	SHEETS DRAWINGS 10	TOTAL CLAIMS 19	INDEPENDENT CLAIMS 3
ADDRESS H.C. PARK & ASSOCIATES, PLC 1894 PRESTON WHITE DRIVE RESTON, VA 20191 UNITED STATES						
TITLE METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL						
FILING FEE RECEIVED 1600	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			

<i>Index of Claims</i> 	Application/Control No. 15010629	Applicant(s)/Patent Under Reexamination CHOI ET AL.
	Examiner CHARLES SWIFT	Art Unit 2196

✓	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	05/13/2016									
	1	✓									
	2	✓									
	3	✓									
	4	✓									
	5	✓									
	6	✓									
	7	✓									
	8	✓									
	9	✓									
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	16	✓									
	17	✓									
	18	✓									
	19	✓									



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/010,629	01/29/2016	Seul Ki CHOI	P4101USC1C1

CONFIRMATION NO. 4818

58027
H.C. PARK & ASSOCIATES, PLC
1894 PRESTON WHITE DRIVE
RESTON, VA 20191

PUBLICATION NOTICE



OC000000083212659

Title:METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL

Publication No.US-2016-0147392-A1

Publication Date:05/26/2016

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

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

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

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

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

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

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed		PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce	
Electronic Petition Request	TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT		
Application Number	15010629		
Filing Date	29-Jan-2016		
First Named Inventor	Seul Ki CHOI		
Attorney Docket Number	P4101USC1C1		
Title of Invention	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		
☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action ☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.			
Owner		Percent Interest	
Pantech Co., Ltd.		100%	
The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s) 9250957 9122518 as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns. In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later: - expires for failure to pay a maintenance fee; - is held unenforceable; - is found invalid by a court of competent jurisdiction; - is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; - has all claims canceled by a reexamination certificate; - is reissued; or - is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.			

☒ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request. ☐ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.	
Applicant claims the following fee status: ☐ Small Entity ☐ Micro Entity ☒ Regular Undiscounted	
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.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: ☒ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application Registration Number <u>74793</u> ☐ A sole inventor ☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application ☐ A joint inventor; all of whom are signing this request	
Signature	/dongil moon/
Name	Dongil Moon

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
 Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal				
Application Number:		15010629		
Filing Date:		29-Jan-2016		
Title of Invention:		METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		
First Named Inventor/Applicant Name:		Seul Ki CHOI		
Filer:		Hae-Chan Park/Dongil Moon		
Attorney Docket Number:		P4101USC1C1		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				160

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 15010629

Filing Date: 29-Jan-2016

Applicant/Patent under Reexamination: CHOI et al.

Electronic Terminal Disclaimer filed on September 19, 2016

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt	
EFS ID:	26961398
Application Number:	15010629
International Application Number:	
Confirmation Number:	4818
Title of Invention:	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL
First Named Inventor/Applicant Name:	Seul Ki CHOI
Customer Number:	58027
Filer:	Hae-Chan Park/Dongil Moon
Filer Authorized By:	Hae-Chan Park
Attorney Docket Number:	P4101USC1C1
Receipt Date:	19-SEP-2016
Filing Date:	29-JAN-2016
Time Stamp:	22:06:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 160
RAM confirmation Number	092016INTEFSW22064501
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Electronic Terminal Disclaimer-Filed	eTerminal-Disclaimer.pdf	33609	no	2
			0ccb865aa11320d4e34b5fc7c1eaa082936c1a0f		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30475	no	2
			d84b436165f17c1127fcbceabe34a6facc33c971		
Warnings:					
Information:					
Total Files Size (in bytes):			64084		
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. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Seul Ki CHOI *et al.*

Serial No.: 15/010,629

Confirmation No.: 4818

Filed: January 29, 2016

Docket No.: P4101USC1C1

Group Art Unit: 2196

Examiner: SWIFT, CHARLES M

For: **METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS
DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL**

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

REPLY UNDER 37 C.F.R. § 1.111

Dear Commissioner:

In response to the Non-Final Office Action mailed May 19, 2016 ("Office Action"), Applicants respectfully request reconsideration of the Application in view of the following Amendments and Remarks.

Amendments to the Claims begin on page 2.

Remarks begin on page 8.

A Petition for a one (1)-month extension of time under 37 C.F.R. § 1.136(a) is filed to extend the period for response through September 19, 2016. No further extensions of time are required other than those in the accompanying Petition. If further extensions of time are necessary to prevent abandonment of this Application, then they are petitioned for under 37 C.F.R. § 1.136(a). No fees for net addition of claims are required at this time. Any fees required for further extensions of time or for the net addition of claims may be charged to Deposit Account No. 50-3698.

AMENDMENTS TO THE CLAIMS

Please **AMEND** claims 1, 6, 9, 10, 12, 15, and 17 as shown below.

This claim list replaces all prior claim lists in the Application.

1. (Currently Amended) A method for controlling a predetermined function of a second work process during a first work process in a multitasking mobile terminal that performs the first work process and the second work process, the method comprising:

displaying ~~[[an]]one icon corresponding to the first work process~~ in a designated portion of a display, wherein the displayed icon corresponds to the first work process and is displayed together with at least a part of a screen image of the first work process in the display;

if the displayed icon corresponding to the first work process is selected, displaying a screen of the first work process;

in response to a first command for ~~selecting the second work process~~ sequentially displaying icons, performing sequential display of icons such that an icon corresponding to the second work process is displayed, wherein the icon corresponding to the second work process is displayed in ~~[[a]]the~~ designated portion of the display;

in response to a second command for changing to the second work process, replacing the screen of the first work process with a screen of the second work process;

controlling the multitasking of the second work process and the first work process;

in response to a third command for activating a control menu for controlling a predetermined function of the first work process, activating the control menu for controlling the predetermined function of the first work process; and

in response to a fourth command for controlling the predetermined function of the first work process through the activated control menu, controlling the predetermined function of the first work process through the activated control menu.

2. (Original) The method of claim 1, wherein the controlling the predetermined function of the first work process comprises:

generating a control signal for controlling the predetermined function of the first work process in response to the fourth command; and

controlling the predetermined function of the first work process in response to the generated control signal.

3. (Original) The method of claim 1, further comprising:

in response to a fifth command for deactivating the activated control menu, deactivating the activated control menu.

4. (Original) The method of claim 1, wherein the first work process is an MP3 play process.

5. (Original) The method of claim 1, wherein an item of the first work process is displayed relatively brighter or clearer than the screen of the first work process.

6. (Currently Amended) The method of claim 1, wherein an item of the second work process is displayed relatively brighter or clearer than an item or a screen of a work process other than the second work process.

7. (Original) The method of claim 3, wherein the third command and the fifth command are inputted through at least one of a predetermined key, a user's voice, and a motion of the mobile terminal.

8. (Original) The method of claim 1, wherein, in response to a repetition of the first command, performing sequential display of icons such that a displayed icon disappears from a screen of the mobile terminal and an icon appears on the screen of the mobile terminal.

9. (Currently Amended) The method of claim 1, wherein an icon to be displayed in the designated portion is replaced with an icon that is different from the icon corresponding to the second work process in response to the ~~second~~ first command.

10. (Currently Amended) A method for selecting a second work process during a first work process in a multitasking mobile terminal that performs the first work process and the second work process in a multitasking environment, the method comprising:

displaying ~~[[an]]one icon corresponding to the first work process~~ in a designated portion of a display, wherein the displayed icon corresponds to the first work process and is displayed together with at least a part of a screen image of the first work process in the display;

if the displayed icon corresponding to the first work process is selected, displaying a screen of the first work process;

in response to a first command for ~~selecting the second work process~~ sequentially displaying icons, performing sequential display of icons such that an icon corresponding to the second work process is displayed, wherein the icon corresponding to the second work process is displayed in ~~[[a]]the~~ the designated portion of the display;

in response to a second command for changing to the second work process, replacing

the screen of the first work process with a screen of the second work process; and
controlling the multitasking of the second work process and the first work process,
wherein an item of the second work process is displayed relatively brighter or clearer
than an item or a screen of a work process other than the second work process.

11. (Original) The method of claim 10, wherein, in response to a repetition of the first command, performing sequential display of icons such that a displayed icon disappears from a screen of the mobile terminal and an icon appears on the screen of the mobile terminal.

12. (Currently Amended) The method of claim 10, wherein an icon to be displayed in the designated portion is replaced with an icon that is different from the icon corresponding to the second work process in response to the ~~second~~ first command.

13. (Original) The method of claim 10, wherein the first command and the second command are inputted through at least one of a predetermined key, a user's voice, and a motion of the mobile terminal.

14. (Original) The method of claim 10, wherein the screen of the first work process is displayed together with sequentially displayed icons corresponding to respective work processes of the mobile terminal.

15. (Currently Amended) A method for selecting a second work process during a first work process in a multitasking mobile terminal that performs the first work process and the second work process in a multitasking environment, the method comprising:

displaying ~~one icon corresponding to the first work process~~ one icon in a designated portion

of a display, wherein the displayed icon corresponds to the first work process and is displayed together with at least a part of a screen image of the first work process in the display;

if the displayed icon corresponding to the first work process is selected, displaying a screen of the first work process;

in response to a first command for ~~selecting the second work process~~ sequentially displaying icons, performing sequential display of icons such that an icon corresponding to the second work process is displayed, wherein the icon corresponding to the second work process is displayed in ~~the~~ the designated portion of the display;

in response to a second command for changing to the second work process, replacing the screen of the first work process with a screen of the second work process; and

controlling the multitasking of the second work process and the first work process, wherein an item of the first work process is displayed relatively brighter or clearer than the screen of the first work process.

16. (Original) The method of claim 15, wherein, in response to a repetition of the first command, performing sequential display of icons such that a displayed icon disappears from a screen of the mobile terminal and an icon appears on the screen of the mobile terminal.

17. (Currently Amended) The method of claim 15, wherein an icon to be displayed in the designated portion is replaced with an icon that is different from the icon corresponding to the second work process in response to the ~~second~~ first command.

18. (Original) The method of claim 15, wherein the first command and the second command are inputted through at least one of a predetermined key, a user's voice, and a motion of the mobile terminal.

19. (Original) The method of claim 15, wherein the screen of the first work process is displayed together with sequentially displayed icons corresponding to respective work processes of the mobile terminal.

REMARKS

Claims 1, 6, 9, 10, 12, 15, and 17 have been amended. Accordingly, claims 1-19 are currently pending in the Application, of which claims 1, 10, and 15 are independent.

Applicants respectfully submit that the above amendments do not add new matter to the Application and are fully supported by the specification.

In view of the above amendments and the following Remarks, Applicants respectfully request reconsideration and timely withdrawal of the pending objections and rejections for the reasons discussed below.

Interview Summary

Applicants thank the Examiner for the courtesies extended during the interview of September 12, 2016. During the interview, Applicants' representative discussed the amendments of independent claims 1, 10, and 15, and the Examiner suggested claim amendments to put this case in condition for allowance.

Rejection of Claims under Double Patenting

Claims 1-19 stand rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3 and 5-12 of U. S. Patent No. 9,122,518 issued to Choi, *et al.* ("Choi").

Claims 1-19 stand rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-19 of U. S. Patent No. 9,250,957 issued to Choi, *et al.* ("Choi '957").

Applicants have submitted a terminal disclaimer to overcome this rejection. Accordingly, Applicants respectfully request withdrawal of this double patenting rejection of claims 1-19.

Applicants note that "[t]he filing of a terminal disclaimer to obviate a rejection based on nonstatutory double patenting is not an admission of the propriety of the rejection [because] the filing of a terminal disclaimer simply serves the statutory function of removing the rejection of double patenting, and raises neither a presumption nor estoppel on the merits of the rejection" (MPEP § 804.02.II, citations omitted). Hence, the terminal disclaimer included with this reply simply serves the statutory function of removing the double patenting rejection without raising a presumption or estoppel on the merits of the rejection.

Rejections Under 35 U.S.C. § 103

Claims 1-4 and 7-8 stand rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over U.S. Patent No. 7,123,945 issued to Kokubo ("Kokubo"), in view of U. S. Application Publication No. 2005/0183017 applied for by Cain ("Cain").

Without conceding to the rejections of the Office Action, independent claims 1, 10, and 15 have been amended to reflect the substance of the agreement reached during the Examiner interview. Thus, the rejections the claims 1, 10, and 15 have been rendered moot.

Accordingly, Applicants respectfully request withdrawal of the 35 U.S.C. § 103(a) rejection of claims 1, 10, and 15. Claims 2-9, 11-14, and 16-19 depend from claims 1, 10, or 15, and are allowable at least for this reason. Since none of the alleged prior art of record, whether taken alone or in any combination, discloses or suggests all the features of the claimed subject matter, Applicants respectfully submit that independent claims 1, 10, and 15, and all the claims that depend therefrom, are allowable.

Claims 5 and 6 stand rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Kokubo and Cain, and further in view of U. S. Application Publication No. 2005/0229103 applied for by King ("King").

Applicants respectfully submit that claim 1 is allowable over Kokubo and Cain, and King fails to cure the deficiencies of Kokubo and Cain noted above with regard to claim 1. Hence, claims 5 and 6 are allowable at least because they depend from allowable claim 1.

Accordingly, Applicants respectfully request withdrawal of the 35 U.S.C. § 103(a) rejection of claims 5 and 6.

Claims 10-19 stand rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Kokubo in view of King.

As noted above, Applicants respectfully submit that claims 10 and 15 are allowable over Kokubo and King. Hence, claims 11-14 and 16-19 are allowable at least because they depend from an allowable base claim.

Accordingly, Applicants respectfully request withdrawal of the 35 U.S.C. § 103(a) rejection of claims 10-19.

Other Matters

In addition to the amendments mentioned above, claims 6, 9, 12, and 17 have been amended solely for informality correction, better wording, and clarification. These amendments are not made to avoid prior art or narrow the claimed subject matter. Therefore, Applicants do not intend to relinquish any subject matter by these amendments.

CONCLUSION

A full and complete response has been made to the pending Office Action, and all of the stated grounds for rejection have been overcome or rendered moot. Accordingly, all pending claims are allowable, and the Application is in condition for allowance.

The Examiner is invited to contact Applicants' undersigned representative at the number below if it would expedite prosecution. Prompt and favorable consideration of this Reply is respectfully requested.

Respectfully submitted,

/dongil moon/

Dongil Moon
Reg. No. 74,793

Date: September 19, 2016

CUSTOMER NUMBER: 58027
H.C. Park & Associates, PLC
1894 Preston White Drive
Reston, VA 20191
Tel: 703-288-5105
Fax: 703-288-5139
HCP/DM/bks

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) P4101USC1C1																														
Application Number 15/010,629	Filed 2016-01-29																															
For METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL																																
Art Unit 2196	Examiner SWIFT, CHARLES M																															
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application. The requested extension and fee are as follows (check time period desired and enter the appropriate fee below): <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 15%; text-align: center;">Fee</th> <th style="width: 15%; text-align: center;">Small Entity Fee</th> <th style="width: 15%; text-align: center;">Micro Entity Fee</th> <th style="width: 25%;"></th> </tr> </thead> <tbody> <tr> <td>☒ One month (37 CFR 1.17(a)(1))</td> <td style="text-align: center;">\$200</td> <td style="text-align: center;">\$100</td> <td style="text-align: center;">\$50</td> <td style="text-align: right;">\$ <u>200</u></td> </tr> <tr> <td>☐ Two months (37 CFR 1.17(a)(2))</td> <td style="text-align: center;">\$600</td> <td style="text-align: center;">\$300</td> <td style="text-align: center;">\$150</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td>☐ Three months (37 CFR 1.17(a)(3))</td> <td style="text-align: center;">\$1,400</td> <td style="text-align: center;">\$700</td> <td style="text-align: center;">\$350</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td>☐ Four months (37 CFR 1.17(a)(4))</td> <td style="text-align: center;">\$2,200</td> <td style="text-align: center;">\$1,100</td> <td style="text-align: center;">\$550</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td>☐ Five months (37 CFR 1.17(a)(5))</td> <td style="text-align: center;">\$3,000</td> <td style="text-align: center;">\$1,500</td> <td style="text-align: center;">\$750</td> <td style="text-align: right;">\$ _____</td> </tr> </tbody> </table> ☐ Applicant asserts small entity status. See 37 CFR 1.27. ☐ Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously. ☐ A check in the amount of the fee is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director has already been authorized to charge fees in this application to a Deposit Account. ☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number <u>50-3698</u>. ☒ Payment made via EFS-Web. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. I am the ☐ applicant. ☒ attorney or agent of record. Registration number <u>74,793</u> ☐ attorney or agent acting under 37 CFR 1.34. Registration number _____ <u>/dongil moon/</u> Signature <u>Dongil Moon</u> Typed or printed name <u>2016-09-19</u> Date <u>703-288-5105</u> Telephone Number NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.				Fee	Small Entity Fee	Micro Entity Fee		☒ One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ <u>200</u>	☐ Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ _____	☐ Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ _____	☐ Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____	☐ Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____
	Fee	Small Entity Fee	Micro Entity Fee																													
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☐ Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ _____																												
☐ Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____																												
☐ Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____																												
☒ * Total of <u>1</u> forms are submitted.																																

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Privacy Act Statement

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

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

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

Electronic Patent Application Fee Transmittal				
Application Number:		15010629		
Filing Date:		29-Jan-2016		
Title of Invention:		METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		
First Named Inventor/Applicant Name:		Seul Ki CHOI		
Filer:		Hae-Chan Park/eun jo		
Attorney Docket Number:		P4101USC1C1		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description		Fee Code	Quantity	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	1251	1	200	200
Miscellaneous:				
Total in USD (\$)				200

Electronic Acknowledgement Receipt	
EFS ID:	26970698
Application Number:	15010629
International Application Number:	
Confirmation Number:	4818
Title of Invention:	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL
First Named Inventor/Applicant Name:	Seul Ki CHOI
Customer Number:	58027
Filer:	Hae-Chan Park/Dongil Moon
Filer Authorized By:	Hae-Chan Park
Attorney Docket Number:	P4101USC1C1
Receipt Date:	19-SEP-2016
Filing Date:	29-JAN-2016
Time Stamp:	22:09:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$200
RAM confirmation Number	092016INTEFSW22094200
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		P4101USC1C1-Reply.pdf	123810	yes	11
			9c3058514d9f25602e831e43abda330c3120141e		
	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:					
2	Extension of Time	P4101USC1C1-EoT.pdf	128516	no	2
			6cbebdedc537a069dbd6e87172684ea3757e99bc		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30874	no	2
			6cf18d569c989e9f19291fe4915a561ac22afb11		
Warnings:					
Information:					
Total Files Size (in bytes):			283200		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 15/010,629		Filing Date 01/29/2016		☐ To be Mailed	
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR	NUMBER FILED	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), (j), 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))									
					TOTAL				
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	09/19/2016	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	* 19	Minus	** 20	= 0	X \$80 =	0		
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 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	
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	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
BONNIE COLE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

58027 7590 10/07/2016
H.C. PARK & ASSOCIATES, PLC
1894 PRESTON WHITE DRIVE
RESTON, VA 20191

EXAMINER

SWIFT, CHARLES M

ART UNIT

PAPER NUMBER

2196

DATE MAILED: 10/07/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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15/010,629

01/29/2016

Soul Ki CHOI

P4101USC1C1

4818

TITLE OF INVENTION: METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE 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	01/09/2017

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)

58027 7590 10/07/2016
H.C. PARK & ASSOCIATES, PLC
1894 PRESTON WHITE DRIVE
RESTON, VA 20191

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.
15/010,629	01/29/2016	Seul Ki CHOI	P4101USC1C1	4818

TITLE OF INVENTION: METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE 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	01/09/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
SWIFT, CHARLES M	2196	718-100000

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, 1 _____
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 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
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/010,629	01/29/2016	Seul Ki CHOI	P4101USC1C1	4818

58027 7590 10/07/2016
H.C. PARK & ASSOCIATES, PLC
1894 PRESTON WHITE DRIVE
RESTON, VA 20191

EXAMINER

SWIFT, CHARLES M

ART UNIT	PAPER NUMBER
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2196

DATE MAILED: 10/07/2016

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

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

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

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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

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

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

Privacy Act Statement

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

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

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

<i>Examiner-Initiated Interview Summary</i>	Application No. 15/010,629	Applicant(s) CHOI ET AL.	
	Examiner CHARLES SWIFT	Art Unit 2196	

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

(1) CHARLES SWIFT. (3) ____.

(2) Dongll Moon (74793). (4) ____.

Date of Interview: 28 September 2016.

Type: ☒ Telephonic ☐ Video Conference
 ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
 If Yes, brief description: ____.

Issues Discussed ☐101 ☐112 ☐102 ☒103 ☐Others
 (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1, 10 and 15.

Identification of prior art discussed: ____.

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

9/21: called applicant to suggest amending independent claims, limitaiton 1 to remove "and is displayed together with at least a part of a screen image of the first work process in the display", and add "in the display" at the end of the second limitaiton, further suggested filing TD with respect to the parent patents to place application in condition for allowance.

9/28: applicant informed me that the proposed amendment has been approved, and I am authorized to enter the proposed amendment via examiner's amendment.

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of 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

/CHARLES SWIFT/ Primary Examiner, Art Unit 2196	
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Notice of Allowability	Application No. 15/010,629	Applicant(s) CHOI ET AL.	
	Examiner CHARLES SWIFT	Art Unit 2196	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.

- ☒ This communication is responsive to 9/19/2016.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
- ☐ 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.
- ☒ The allowed claim(s) is/are 1 - 20. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
- ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☒ All b) ☐ Some *c) ☐ None of the:

- ☐ Certified copies of the priority documents have been received.
- ☒ Certified copies of the priority documents have been received in Application No. 11/495,863.
- ☐ 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.

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

Attachment(s)

- | | |
|---|--|
| 1. ☐ Notice of References Cited (PTO-892) | 5. ☒ Examiner's Amendment/Comment |
| 2. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. ☒ Examiner's Statement of Reasons for Allowance |
| 3. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. ☐ Other _____. |
| 4. ☒ Interview Summary (PTO-413),
Paper No./Mail Date <u>9/28/2016</u> . | |

/CHARLES SWIFT/
Primary Examiner, Art Unit 2196

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

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an interview with Dongli Moon (74793) on 9/28/2016.

Please replace claims 1, 10, 13, 15 and 18 with the following version and add claim 20.

1. (Currently Amended) A method for controlling a predetermined function of a second work process during a first work process in a multitasking mobile terminal that performs the first work process and the second work process, the method comprising:
displaying one icon in a designated portion of a display, wherein the displayed icon corresponds to the first work process ~~and is displayed together with at least a part of a screen image of the first work process in the display;~~
if the displayed icon corresponding to the first work process is selected,
displaying a screen of the first work process in the display;

in response to a first command for sequentially displaying icons, performing sequential display of icons such that an icon corresponding to the second work process is displayed, wherein the icon corresponding to the second work process is displayed in the designated portion of the display;

in response to a second command for changing to the second work process, replacing the screen of the first work process with a screen of the second work process; controlling the multitasking of the second work process and the first work process; in response to a third command for activating a control menu for controlling a predetermined function of the first work process, activating the control menu for controlling the predetermined function of the first work process; and

in response to a fourth command for controlling the predetermined function of the first work process through the activated control menu, controlling the predetermined function of the first work process through the activated control menu.

10. (Currently Amended) A method for selecting a second work process during a first work process in a multitasking mobile terminal that performs the first work process and the second work process in a multitasking environment, the method comprising:

displaying one icon in a designated portion of a display, wherein the displayed icon corresponds to the first work process ~~and is displayed together with at least a part of a screen image of the first work process in the display;~~

if the displayed icon corresponding to the first work process is selected, displaying a screen of the first work process in the display;

in response to a first command for sequentially displaying icons, performing sequential display of icons such that an icon corresponding to the second work process is displayed, wherein the icon corresponding to the second work process is displayed in the designated portion of the display;

in response to a second command for changing to the second work process, replacing the screen of the first work process with a screen of the second work process; and

controlling the multitasking of the second work process and the first work process,

wherein an item of the second work process is displayed relatively brighter or clearer than an item or a screen of a work process other than the second work process.

13. (Currently Amended) The method of claim 10, wherein the first command and the second command are inputted through at least one of a predetermined key, a user's voice, and a motion of the mobile terminal, and

wherein the displayed icon is displayed together with at least a part of a screen image of a work process in the display.

15. (Currently Amended) A method for selecting a second work process during a first work process in a multitasking mobile terminal that performs the first work process and the second work process in a multitasking environment, the method comprising:

displaying one icon in a designated portion of a display, wherein the displayed

icon corresponds to the first work process ~~and is displayed together with at least a part of a screen image of the first work process in the display;~~

if the displayed icon corresponding to the first work process is selected,
displaying a screen of the first work process in the display;

in response to a first command for sequentially displaying icons, performing sequential display of icons such that an icon corresponding to the second work process is displayed, wherein the icon corresponding to the second work process is displayed in the designated portion of the display;

in response to a second command for changing to the second work process,
replacing the screen of the first work process with a screen of the second work process;
and

controlling the multitasking of the second work process and the first work process,

wherein an item of the first work process is displayed relatively brighter or clearer than the screen of the first work process.

18. (Currently Amended) The method of claim 15, wherein the first command and the second command are inputted through at least one of a predetermined key, a user's voice, and a motion of the mobile terminal, and

wherein the displayed icon is displayed together with at least a part of a screen image of a work process in the display.

20. (New) The method of claim 1, wherein the displayed icon is displayed together with at least a part of a screen image of a work process in the display.

REASONS FOR ALLOWANCE

3. Claims 1 – 20 are allowed.
4. The following is an examiner's statement of reasons for allowance:

Claims 1 – 20 are allowable over the prior art of record because the Examiner found neither prior art cited in its entirety, nor based on the prior art, found any motivation to combine any of the said prior arts.

As per independent claims 1, 10 and 15, the primary reason for allowance is the inclusion of " displaying one icon in a designated portion of a display, wherein the displayed icon corresponds to the first work process; if the displayed icon corresponding to the first work process is selected, displaying a screen of the first work process in the display; in response to a first command for sequentially displaying icons, performing sequential display of icons such that an icon corresponding to the second work process is displayed, wherein the icon corresponding to the second work process is displayed in the designated portion of the display" in conjunction with the rest of the limitations of the claim.

The remaining claims, not specifically mentioned, are allowed because they are dependent upon the claim mentioned above.

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 CHARLES SWIFT whose telephone number is (571)270-7756. The examiner can normally be reached on Monday to Friday, 9:30AM - 6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emerson Puente can be reached on (571)272-3652. 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.

Application/Control Number: 15/010,629
Art Unit: 2196

Page 8

/CHARLES SWIFT/
Primary Examiner, Art Unit 2196

Examiner-Initiated Interview Summary	Application No. 15/010,629		Applicant(s) CHOI ET AL.	
	Examiner CHARLES SWIFT		Art Unit 2196	

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

(1) CHARLES SWIFT. (3) ____.

(2) Dongll Moon (74793). (4) ____.

Date of Interview: 28 September 2016.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: ____.

Issues Discussed ☐101 ☐112 ☐102 ☒103 ☐Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

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Identification of prior art discussed: ____.

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

9/21: called applicant to suggest amending independent claims, limitaiton 1 to remove "and is displayed together with at least a part of a screen image of the first work process in the display", and add "in the display" at the end of the second limitaiton, further suggested filing TD with respect to the parent patents to place application in condition for allowance.

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☐ Attachment

/CHARLES SWIFT/ Primary Examiner, Art Unit 2196	
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"7123945".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 11:50
S2	146	sequential\$2 with (display\$3 show\$3) with icon with order	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:39
S3	29	S2 and (mobile near3 device)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:39
S4	5	S3 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:39
S5	228	sequential\$2 with (display\$3 show\$3) with ((icon symbol) near5 (work process)) with order	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:42
S6	23	S5 and (mobile near3 device)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:42
S7	0	S6 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:42
S8	6	S5 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:42
S9	536	(display\$3 show\$3) with ((icon symbol) near5 (work process)) with order	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:46
S10	789	(display\$3 show\$3) with ((icon symbol) near5 (work process)) with (order sequen\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:46
S11	40	S2 and (mobile near3 (terminal device))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:47
S12	594990	11and (mobile near3 (terminal device))	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2012/10/16 12:47

			DERWENT			
S13	97	S10 and (mobile near3 (terminal device))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:47
S14	30	S13 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:47
S15	171	S9 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:55
S16	163	S15 not S14	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:55
S17	2	S16 and "455".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 12:55
S18	544	(display\$3 show\$3) with ((icon symbol) near5 (work process)) with order\$3	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:34
S19	176	S18 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:35
S20	5	S19 not S15	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:35
S21	34	(display\$3 show\$3) with ((icon symbol) near5 (work process)) with order\$3 with arrang\$3	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:36
S22	8	(display\$3 show\$3) with ((icon symbol) near5 (work process)) with order\$3 with priority	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:36
S23	1	S22 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:37
S24	633	(arrang\$3 display\$3 show\$3) with ((icon symbol) near5 (work process)) with (order\$3 priority)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:42
S25	211	S24 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:42
S26	33	S25 and ("718" "715" "709").clas.	US- PGPUB; USPAT;	OR	ON	2012/10/16 13:42

			EPO; JPO; DERWENT			
S27	0	S26 and (mobile adj3 device)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:43
S28	0	S26 and (mobile near3 (terminal device))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:43
S29	11	S25 and (mobile near3 (terminal device))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:43
S30	35	(arrang\$3) with (display\$3 show\$3) with ((icon symbol) near5 (work process)) with (order\$3 priority)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:48
S31	16	S30 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 13:48
S32	2	"20020080186"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/16 14:13
S33	0	(arrang\$3) with (display\$3 show\$3) with ((icon symbol) near5 (work process)) with (order\$3 priority) with (active current)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/02/22 17:05
S34	0	(input\$4 enter\$4) with (command) with (display\$3 show\$3) with icon with (active near5 (process))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:30
S35	0	(command) with (display\$3 show\$3) with icon with (active near5 (process))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:30
S36	4	(command) with (display\$3 show\$3) with icon with (active near5 (program task process))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:31
S37	2	S36 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:31
S38	0	command\$3 with (generat\$3 creat\$3) with (list) with icon with (active near4 (process program task))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:34
S39	2	(generat\$3 creat\$3) with (list) with icon with (active near4 (process program task))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:35
S40	2	S39 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB;	OR	ON	2013/03/22 17:35

			USPAT; EPO; JPO; DERWENT			
S41	15	("7123945").URPN.	USPAT	OR	ON	2013/03/22 17:37
S42	2	S41 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:37
S43	12	("20010016508" "20020002060" "20020077156" "20030013483" "20030045315" "20030232628").pn.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/03/22 17:40
S44	24	(icon indicator) with overlay\$3 with (current near3 (process screen))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:18
S45	21	S44 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:19
S46	9112	switch\$3 with active with (application software interface)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:21
S47	9214	switch\$3 with active with (application software interface GUI UI)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:21
S48	5674	S47 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:21
S49	1115	sequential\$2 with (display\$3 show\$3) with icon	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:22
S50	3620	sequential\$2 with (display\$3 show\$3) with (symbol icon)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:22
S51	2	S48 and S50	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:22
S52	515	S48 and (mobile near3 device)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:22
S53	8	US-20030013483-\$.DID. OR US-7123945-\$.DID. OR US-20060247851- \$.DID. OR US-7222304-\$.DID.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2013/07/02 15:25
S54	7084	concurrent\$3 with (task process job) and (mobile near5 device)	US- PGPUB; USPAT;	OR	ON	2013/07/02 16:12

			EPO; JPO; DERWENT			
S55	92	S47 and S54	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 16:12
S56	43	S55 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 16:12
S57	8	US-20020080186-\$.DID. OR US-20030011638-\$.DID. OR US-6546263-\$.DID. OR US-20050086611-\$.DID.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2013/07/02 16:16
S58	7	"11294231"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/02 17:05
S59	21	overlay\$3 with (notif\$7 near3 icon) with application	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 11:09
S60	2	S59 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 11:10
S61	30	overlay\$3 with (notif\$7 near3 icon)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 11:10
S62	3	S61 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 11:10
S63	241	overlay\$3 with display\$3 with icon with (application program)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 11:36
S64	153	S63 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 11:36
S65	37	S64 and "715".cls.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/03 12:00
S66	6681	715/750-760.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 10:34
S67	24592	multitask\$3 concurrent\$2 near2 task\$3	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 10:34
S68	24592	multitask\$3 (concurrent\$2 near2 task\$3)	US-	OR	ON	2013/07/05

			PGPUB; USPAT; EPO; JPO; DERWENT			10:35
S69	24592	multitask\$3 (concurrent\$2 near2 task\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 10:35
S70	2	S69 and ((dialog (pop\$1up near3 menu) icon) with (overla\$4 superimpos\$3) with (active) with (application module email SMS music))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 10:36
S71	2	S70 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 10:37
S72	40426	multi\$1task\$3 (concurrent\$2 near2 task\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 11:16
S73	4	S72 and ((dialog (pop\$1up near3 menu) icon) with (overla\$4 superimpos\$3) with (active) with (application module email SMS music))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 11:16
S74	3	S73 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/07/05 11:17
S75	2	display\$3 with (task process application sms email browser music mp3) near5 icon with brighter	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 16:55
S76	0	S75 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 16:56
S77	0	highlight\$3 with ((task process application sms email browser music mp3) near5 icon) with brighter	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:04
S78	781	highlight\$3 with ((task process application sms email browser music mp3) near5 icon)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:04
S79	52	highlight\$3 with (concurrent parallel background) with ((task process application sms email browser music mp3) near5 icon)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:05
S80	28	S79 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:05
S81	30	"10872983"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:07

S82	30	"11308436"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:08
S83	1	"11495863"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:10
S84	5	display\$3 with (pop\$1up popup) with brighter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:11
S85	2	S84 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/22 17:11
S86	63	(highlight\$3 blink\$3 flash\$3) with (concurrent parallel background) with ((task process application sms email browser music mp3) near5 icon)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/25 13:45
S87	34	S86 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2013/11/25 13:47
S88	0	(alt with tap) with (task program) with (icon)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:16
S89	0	(alt with tap) with (task program) with (switch\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:16
S90	79	(alt with tap)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:16
S91	1377	(task program) with (switch\$3) with (icon symbol)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:17
S92	0	S90 and S91	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:17
S93	0	S92 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:17
S94	44	S90 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:17
S95	12	S94 and "715".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:17

S96	817	(alt with tab)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:18
S97	42	S91 and S96	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:18
S98	27	S97 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:18
S99	10	(alt with tab) with (task program) with (icon symbol)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:24
S100	9	S99 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:24
S101	0	(alt with tab) with (task program) with (icon symbol) same bright\$4	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:49
S102	0	(alt with tab) with (task program) with (icon symbol) and bright\$4	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:50
S103	10	(alt with tab) with (task program) with (icon symbol)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:52
S104	0	(alt with tab) with (task program) with (icon symbol) same (bright\$4 dim\$4)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:53
S105	60	(alt with tab) with (task program window) with (icon symbol list)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:56
S106	0	(alt with tab) with (task program window) with (icon symbol list) same (bright\$4 dim\$4)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:56
S107	7	(alt with tab) with (task program window) with (icon symbol list) and (bright\$4 dim\$4)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:56
S108	3	S107 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:56
S109	40	S105 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 14:57

S110	3	"20060161847"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/03/07 15:00
S111	1	phone and (activat\$3 with (music mp3) with control with pop\$1up)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:26
S112	1	(phone cellphone) and (activat\$3 with (music mp3) with control with pop\$1up)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:26
S113	13	(phone cellphone) and (activat\$3 with (music mp3) with control\$4 with (short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:27
S114	0	S113 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:27
S115	79	(show\$3 display\$3 overlay\$3 activat\$3) with (music mp3) with control\$4 with (short\$1cut pop\$1up)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:28
S116	6	S115 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:28
S117	13	(phone cellphone telephone) and (activat\$3 with (music mp3) with control\$4 with (short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:34
S118	13	(phone cellphone telephone device) and (activat\$3 with (music mp3) with control\$4 with (short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:34
S119	1405	(phone cellphone telephone device) and (activat\$3 with (music mp3) with (control\$3 short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:35
S120	14555	(phone cellphone telephone device) and ((display\$3 activat\$3 show\$3)with (music mp3) with (control\$3 short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:35
S121	14555	(phone cellphone telephone device) and ((display\$3 activat\$3 show\$3) with (music mp3) with (control\$3 short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:35
S122	117137	(phone cellphone telephone device) and ((display\$3 activat\$3 show\$3 overlay\$3) with (audio music mp3 media) with (control\$3 short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:36
S123	62143	(phone cellphone telephone device) same ((display\$3 activat\$3 show\$3 overlay\$3) with (audio music mp3 media) with (control\$3 short\$1cut pop\$1up))	US-PGPUB; USPAT; EPO; JPO;	OR	OFF	2014/09/16 16:36

			DERWENT			
S124	549	(phone cellphone telephone device) same ((display\$3 activat\$3 show\$3 overlay\$3) with (audio music mp3) with (quick fast pop\$1up short\$1cut) with (control\$3 menu))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:38
S125	286	S124 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:39
S126	457	(phone cellphone telephone device) with ((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (audio music mp3) with (quick fast pop\$1up short\$1cut) with (control\$3 menu))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:41
S127	227	S126 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:42
S128	182	(phone cellphone telephone device) with ((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (music mp3) with (quick fast pop\$1up short\$1cut) with (control\$3 menu))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:42
S129	94	S128 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:42
S130	140	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (music mp3) with (pop\$1up short\$1cut) with (control\$3 menu))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:44
S131	138	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (music mp3) with (pop\$1up short\$1cut) with (control\$3 menu)) and (phone cellphone telephone device)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:45
S132	73	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (music mp3) with (pop\$1up short\$1cut) with (control\$3 menu)) same (phone cellphone telephone device)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:45
S133	51	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (music mp3) with (pop\$1up short\$1cut) with (control\$3 menu)) same (phone cellphone telephone mobile)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:45
S134	7	S133 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:45
S135	66	((music mp3) with (pop\$1up short\$1cut) with (control\$3 menu)) same (phone cellphone telephone mobile)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 16:46
S136	9	S135 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 16:46
S137	174	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3) with (music mp3 playback) with (pop\$1up) with (control\$3 menu)) and (phone cellphone telephone mobile)	US-PGPUB; USPAT;	OR	OFF	2014/09/16 17:14

			EPO; JPO; DERWENT			
S138	63	S137 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 17:14
S139	24	S138 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 17:14
S140	445	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3 generat\$3 start\$3) with (music mp3 playback) with (pop\$1up short\$1cut) with (control\$3 menu))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 17:24
S141	188	S140 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 17:24
S142	45	S141 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 17:24
S143	451	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3 generat\$3 start\$3) with (music mp3 playback) with (pop\$1up short\$1cut) with (command\$3 control\$3 menu))	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 17:35
S144	310	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3 generat\$3 start\$3) with (music mp3 playback) with (pop\$1up short\$1cut) with (command\$3 control\$3 menu)) and (phone cellphone telephone mobile)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/16 17:36
S145	80	S144 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 17:36
S146	32	S145 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/16 17:36
S147	1428	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3 generat\$3 start\$3) with (pop\$1up short\$1cut) with (command\$3 control\$3 menu)) same (MP3 music media video audio) and (phone cellphone telephone mobile)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/17 12:05
S148	595	S147 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 12:05
S149	167	S148 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 12:05
S150	139	((display\$3 activat\$3 show\$3 overlay\$3 launch\$3 generat\$3 start\$3) with (pop\$1up short\$1cut) with (command\$3 control\$3 menu) with (play\$1back)) same (MP3 music media video audio) and (phone cellphone telephone mobile)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/17 12:07
S151	97	S150 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB;	OR	ON	2014/09/17 12:07

			USPAT; EPO; JPO; DERWENT			
S152	20	S151 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 12:07
S153	81	display\$3 with (process application task) with icon with sequential\$2	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/17 15:10
S154	23	S153 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:10
S155	9	S154 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:10
S156	3695	display\$3 with (process application task) with icon with (sequential\$2 one single)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/17 15:16
S157	1534	S156 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:17
S158	436	S157 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:17
S159	78	(pop\$1up popup) with (command console) with (brigh\$5 high\$1light\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:24
S160	201	(pop\$1up popup playback) with (command console) with (brigh\$5 high\$1light\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:24
S161	135	S160 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:24
S162	39	S161 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:24
S163	268	(display\$3 constrast\$3) with (pop\$1up popup playback) with (command console control) with (brigh\$5 high\$1light\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:27
S164	45	S163 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:27
S165	17	S164 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-	OR	ON	2014/09/17

			PGPUB; USPAT; EPO; JPO; DERWENT			15:27
S166	105	S163 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 15:33
S167	50	S166 and (MP3 music media video audio) and (phone cellphone telephone mobile)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/09/17 15:34
S168	0	(display\$3 constrast\$3) with (pop\$1up popup) with (command console control) with (brighter)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:03
S169	0	(pop\$1up popup) with (command console control) with (brighter)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:04
S170	33	(pop\$1up popup) with (command console control) with (bright\$5)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:04
S171	15	S170 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:04
S172	41	(pop\$1up popup) with (command console control button) with (bright\$5)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:06
S174	19	S172 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:06
S175	1	S174 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:06
S176	317	(pop\$1up popup playback) with (command console control button) with (bright\$5)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:07
S177	5	(pop\$1up popup playback) with (command console control button) with (brighter)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:07
S178	0	S177 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:07
S179	5	(pop\$1up popup playback) with (bar command console control\$3 button) with (brighter)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:07

S180	72	(pop\$1up popup playback) with (bar command console control\$3 button) with (bright\$3 clear\$3) with screen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:11
S181	173	(pop\$1up popup playback) with (bar command console control\$3 button element screen) with (bright\$3 clear\$3) with screen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:11
S182	26	S181 and "715".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:12
S183	7	S182 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:12
S184	24	(pop\$1up popup playback) with (bar command console control\$3 button element screen) with bright\$3 same screen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:13
S185	3	S184 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:14
S186	178	(pop\$1up popup playback) with (bar command console control\$3 button element screen) with (contrast\$3 bright\$3) same screen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:15
S187	556	(pop\$1up popup playback) with (bar command console control\$3 button element screen) with (flash\$3 contrast\$3 bright\$3) same screen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:15
S188	272	S187 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:15
S189	33	S188 and "715".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:15
S190	2	"20030007015"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:49
S191	2	"5852440".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 16:50
S192	11	display\$3 with ((task process application) near\$3 icon) with (intens\$3 brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:06
S193	2	S192 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:07

S194	12	(color\$3 colour\$3 display\$3 show\$3 shad\$3) with ((task process application) near3 icon) with (intens\$3 brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:08
S195	3	S194 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:08
S196	28	((task process application) near3 icon) with (intens\$3 brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:08
S197	4	((task process application) near3 icon) with (((higher greater) near2 intens\$3) brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:09
S198	0	S197 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:13
S199	4	((task process application app) near3 icon) with (((higher greater) near2 intens\$3) brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:14
S200	4	((task process application app) near3 (thumbnail icon)) with (((higher greater) near2 intens\$3) brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:14
S201	4	((task process application app) near3 (thumbnail icon)) with (((higher greater more) near2 intens\$3) brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:15
S202	5	((task process application app) near3 (thumbnail icon)) with (((higher greater more) near3 intens\$3) brighter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:15
S203	1	S202 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:15
S204	849	((task process application app) near3 (thumbnail icon)) with (((higher greater more) near3 intens\$3) brighter highlight\$3 flash\$3 blink\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:16
S205	380	S204 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:17
S206	120	S205 and "715".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:17
S207	784	((task process application app) near3 (icon)) with (((higher greater more) near3 intens\$3) brighter highlight\$3 flash\$3 blink\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:17

S208	299	S207 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:17
S209	112	S208 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:17
S210	658	((task application) near3 (icon)) with (((higher greater more) near3 intens\$3) brighter highlight\$3 flash\$3 blink\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:18
S211	316	S210 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:19
S212	86	S211 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/17 17:19
S213	790	((task process application app) near3 (icon)) with (((higher greater more) near3 intens\$3) brighter brighten\$3 highlight\$3 flash\$3 blink\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:50
S214	369	S213 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:50
S215	112	S214 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:50
S216	5	((task process application app) near3 (icon)) with (((higher greater more) near3 intens\$3) brighter brighten\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:51
S217	1	S216 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:51
S218	0	S217 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:51
S219	0	S216 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:51
S220	109	S215 and (mobile portable mp3 phone cellphone telephone device)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 12:54
S221	384282	("715" "455").clas.	US- PGPUB; USPAT; EPO; JPO;	OR	ON	2014/09/18 15:06

			DERWENT			
S222	1307488	(mobile portable mp3 phone cellphone telephone device) with (GUI interface)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 15:08
S223	504	(icon) with (((higher greater more) near3 intens\$3) brighter brighten\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 15:09
S224	84	S221 and S222 and S223	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 15:09
S225	30	S224 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 15:09
S228	3	"20060101293"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2014/09/18 15:20
S229	13902	718/100,102,103.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:48
S230	339	715/828.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:52
S231	2539	(task program process) with switch\$3 same (shortcut icon)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:53
S232	0	S230 and S231	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:53
S233	10310	(task program process window screen) with (switch\$3 focus\$3) same (shortcut icon)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:53
S234	22	S230 and S233	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:53
S235	12	S234 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:54
S236	751153	(task program process window screen) with (switch\$3 focus\$3)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:55
S237	567898	(task program process) with (switch\$3 focus\$3)	US- PGPUB; USPAT;	OR	ON	2015/04/16 17:55

			EPO; JPO; DERWENT			
S238	35	S230 and S237	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:55
S239	17	S238 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 17:55
S240	35211	(task program process window screen) with (switch\$3 focus\$3) with (icon object shortcut)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:08
S241	1095	(pop\$1up popup playback) with (bar command console control\$3 button element screen) with (flash\$3 contrast\$3 bright\$3) same (window display screen)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:09
S242	103	S240 and S241	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:12
S243	19155	715/700,764,778,779,781,802,804,805,808,817,828,829,846,847,864.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:12
S244	43006	(G06F3/048 G06F3/0481 G06F3/04817 G06F3/0482 G06F9/48 G06F9/4806 G06F9/4843 G06F9/485 G06F9/4881 G06F9/4443).cpc.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:12
S245	67212	S229 or S243 or S244	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:12
S246	11	S242 and S245	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:12
S247	5	S246 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:12
S248	49577	(task program process) with (icon shortcut)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:16
S249	68	S230 and S248	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:16
S250	28	S249 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2015/04/16 18:16
S265	2	"11495863"	US- PGPUB;	OR	ON	2015/09/17 13:14

			USPAT; EPO; JPO; DERWENT			
S266	4	"11495863"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 12:45
S267	22	(display\$3 show\$3) with (pop\$1up) with (bright\$2)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:50
S268	8	S267 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:50
S269	87	(display\$3 show\$3) with (pop\$1up) same (bright\$2)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:51
S270	9	S269 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:51
S271	0	S270 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:51
S272	33	S269 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:51
S273	3179	(pop\$1up popup playback) with (bar command console control\$3 button element screen) same (flash\$3 contrast\$3 bright\$3) same (window display screen)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:53
S274	365	S273 and "715".clas.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:53
S275	124	S274 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 16:53
S276	4	"11495863"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/05/13 17:10
S277	1	"15010629"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/20 12:29
S278	4	("9250957" "9122518").pn.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/09/20 12:29

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S251	10731	718/100,102,103.ccls.	US-PGPUB; USPAT	OR	ON	2015/04/16 17:48
S252	14695	715/700,764,778,779,781,802,804,805,808,817,828,829,846,847,864.ccls.	US-PGPUB; USPAT	OR	ON	2015/04/16 17:52
S253	33116	(G06F3/048 G06F3/0481 G06F3/04817 G06F3/0482 G06F9/48 G06F9/4806 G06F9/4843 G06F9/485 G06F9/4881 G06F9/4443).cpc.	US-PGPUB; USPAT	OR	ON	2015/04/16 18:08
S254	51801	S251 or S252 or S253	US-PGPUB; USPAT	OR	ON	2015/04/16 18:08
S255	30899	(task program process window screen) with (switch\$3 focus\$3) with (icon object shortcut)	US-PGPUB; USPAT	OR	ON	2015/04/16 18:08
S256	38158	(task program process window screen application) with (switch\$3 focus\$3) with (icon object shortcut)	US-PGPUB; USPAT	OR	ON	2015/04/16 18:09
S257	842	(pop\$1up popup playback) with (bar command console control\$3 button element menu shortcut) with (flash\$3 contrast\$3 bright\$3) same (window display screen)	US-PGPUB; USPAT	OR	ON	2015/04/16 18:09
S258	91	S256 and S257	US-PGPUB; USPAT	OR	ON	2015/04/16 18:10
S259	10	S254 and S258	US-PGPUB; USPAT	OR	ON	2015/04/16 18:10
S260	6	S259 and (@rlad<"20050811" @pd<"20050811" @ad<"20050811")	US-PGPUB; USPAT	OR	ON	2015/04/16 18:11
S261	30899	(task program process window screen) with (switch\$3 focus\$3) with (icon object shortcut)	US-PGPUB; USPAT	OR	ON	2015/04/16 18:13
S262	2786	((task program process window screen) with (switch\$3 focus\$3) with (icon object shortcut)).clm.	US-PGPUB; USPAT	OR	ON	2015/04/16 18:14
S263	17	((pop\$1up popup playback) with (bar command console control\$3 button element menu shortcut) with (flash\$3 contrast\$3 bright\$3) same (window display screen)).clm.	US-PGPUB; USPAT	OR	ON	2015/04/16 18:14
S264	0	S262 and S263	US-PGPUB; USPAT	OR	ON	2015/04/16 18:15

10/ 4/ 2016 5:14:11 PM

C:\Users\cswift\Documents\EAST\Workspaces\EAST 15010629.wsp

CPC Classification - Application Number: 15010629

Examiner: Charles Swift **Date Created:** Oct 4, 2016 5:23 PM

Family ID: 37744009

US App. No. (3) & Documents (5): 15/010629 (20160147392 A1), 14/840844 (20150370430 A1, 9250957 B2), 11/495863 (20070039005 A1, 9122518 B2)

Foreign Documents (0):

Allocations (14)

No.	CPC	Type			Endorsed By	CPC Version	IPC
1	G06F 3/0482	F			US	2013-01-01	G06F3/0482
2	G06F 3/0346	I			US	2013-01-01	G06F3/0346
3	G06F 3/167	I			US	2013-01-01	G06F3/16
4	G06F 3/162	I			US	2013-01-01	G06F3/16
5	G06F 3/04842	I			US	2013-01-01	G06F3/0484
6	G06F 9/4443	I			US	2013-01-01	G06F9/44
7	G06F 9/485	I			US	2013-01-01	G06F9/48
8	G06F 9/4806	I			US	2013-01-01	G06F9/48
9	G06F 9/4881	I			US	2013-01-01	G06F9/48
10	G06F 9/48	I			US	2013-01-01	G06F9/48
11	G06F 3/048	I			US	2013-01-01	G06F3/048
12	G06F 3/0481	I			US	2013-01-01	G06F3/0481
13	G06F 3/04817	I			US	2013-01-01	G06F3/0481
14	G06F 9/4843	I			US, EP	2013-01-01	G06F9/48

Combination Sets (0)

No.	CPC	Type	Set	Rank	Endorsed By	CPC Version	IPC
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Issue Classification 	Application/Control No. 15010629	Applicant(s)/Patent Under Reexamination CHOI ET AL.	
	Examiner CHARLES SWIFT	Art Unit 2196	

CPC						
Symbol					Type	Version
G06F		3		0482	F	2013-01-01
G06F		3		048	I	2013-01-01
G06F		3		04817	I	2013-01-01
G06F		3		0481	I	2013-01-01
G06F		9		4443	I	2013-01-01
G06F		9		485	I	2013-01-01
G06F		9		4806	I	2013-01-01
G06F		9		4881	I	2013-01-01
G06F		9		48	I	2013-01-01
G06F		9		4843	I	2013-01-01
G06F		3		0346	I	2013-01-01
G06F		3		04842	I	2013-01-01
G06F		3		162	I	2013-01-01
G06F		3		167	I	2013-01-01

CPC Combination Sets						
Symbol			Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
(Assistant Examiner)		20	
(Date)			
/CHARLES SWIFT/	10/04/2016	O.G. Print Claim(s)	O.G. Print Figure
Primary Examiner.Art Unit 2196	(Date)	1	8B
(Primary Examiner)			

Issue Classification 	Application/Control No. 15010629	Applicant(s)/Patent Under Reexamination CHOI ET AL.
	Examiner CHARLES SWIFT	Art Unit 2196

US ORIGINAL CLASSIFICATION						INTERNATIONAL CLASSIFICATION									
CLASS		SUBCLASS				CLAIMED					NON-CLAIMED				
718		100				G	0	6	F	9 / 46 (2006.01.01)					
CROSS REFERENCE(S)						G	0	6	F	3 / 00 (2006.01.01)					
						G	0	6	F	3 / 048 (2013.01.01)					
						G	0	6	F	3 / 14 (2006.01.01)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					G	0	6	F						
718	102	103													
715	700	764	778	779	781										
715	802	804	805	806	817										
715	828	829	846	847	864										

NONE		Total Claims Allowed:	
		20	
(Assistant Examiner)	(Date)		
/CHARLES SWIFT/ Primary Examiner.Art Unit 2196	10/04/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	8B

Issue Classification 	Application/Control No. 15010629	Applicant(s)/Patent Under Reexamination CHOI ET AL.
	Examiner CHARLES SWIFT	Art Unit 2196

☐ 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	18	17												
2	2	19	18												
3	3	20	19												
4	4	10	20												
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9	9														
11	10														
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13	12														
14	13														
15	14														
16	15														
17	16														

NONE	Total Claims Allowed: 20	
(Assistant Examiner) /CHARLES SWIFT/ Primary Examiner.Art Unit 2196 (Primary Examiner)	(Date) 10/04/2016 (Date)	O.G. Print Claim(s) 1 O.G. Print Figure 8B

Search Notes 	Application/Control No. 15010629	Applicant(s)/Patent Under Reexamination CHOI ET AL.
	Examiner CHARLES SWIFT	Art Unit 2196

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Searched EAST and Google for patents	5/13/2016	CS
NPL search in IEEE, ACM and Google	5/13/2016	CS
Limtied text search in 718/(100 102 103), 715/(700 764 778 779 781 802 804 805 808 817 828 829 846 847 864)	5/13/2016	CS
Limited text search in CPC class (G06F3/048 G06F3/0481 G06F3/04817 G06F3/0482 G06F9/48 G06F9/4806 G06F9/4843 G06F9/485 G06F9/4881 G06F9/4443)	5/13/2016	CS
Double patenting search	5/13/2016	CS
Searched EAST and Google for patents	9/20/2016	CS
NPL search in IEEE, ACM and Google	9/20/2016	CS
Limtied text search in 718/(100 102 103), 715/(700 764 778 779 781 802 804 805 808 817 828 829 846 847 864)	9/20/2016	CS
Limited text search in CPC class (G06F3/048 G06F3/0481 G06F3/04817 G06F3/0482 G06F9/48 G06F9/4806 G06F9/4843 G06F9/485 G06F9/4881 G06F9/4443)	9/20/2016	CS
Double patenting search	9/20/2016	CS

	/CHARLES SWIFT/ Primary Examiner.Art Unit 2196
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INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
718	100 102 103	10/4/2016	CS
715	700 764 778 779 781 802 804 805 808 817 828 829 846 847 864	10/4/2016	CS
	G06F3/048 G06F3/0481 G06F3/04817 G06F3/0482 G06F9/48 G06F9/4806 G06F9/4843 G06F9/485 G06F9/4881 G06F9/4443	10/4/2016	CS
	PGPUB limited text search	10/4/2016	CS

	/CHARLES SWIFT/ Primary Examiner.Art Unit 2196
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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)

H.C. Park & Associates, PLC
1894 Preston White Drive
Reston, VA 20191

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.
15/010,629	2016-01-29	Seul Ki CHOI	P4101USC1C1	4818

TITLE OF INVENTION:

METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
NONPROVISIONAL	UNDISCOUNTED	\$960	\$0	\$0	\$960	2017-01-09

EXAMINER	ART UNIT	CLASS-SUBCLASS
SWIFT, CHARLES M	2196	718-100000

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 H.C. Park & Associates, PLC
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

Pantech Inc.

(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 credit any overpayment, to Deposit Account Number 50-3898 (enclose an extra copy of this form).

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

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature /Christopher B. Kilner/

Date 2017-01-09

Typed or printed name Christopher B. Kilner

Registration No. 45,381

This collection of information 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.

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.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:



Practitioners associated with Customer Number:

58027

OR

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

Name	Registration Number

Name	Registration Number

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

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



The address associated with Customer Number:

58027

OR

☐ Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

Assignee Name and Address: Pantech Inc.
179 Seongam-ro, Mapo-gu, Seoul, Republic of Korea

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

SIGNATURE of Assignee of Record

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

Signature	<i>01 E 3 E</i>	Date	<i>November 19, 2015</i>
Name	<i>Jong-Seok Lee</i>	Telephone	<i>82-2-2030-0491</i>
Title	<i>IP Legal Team Leader</i>		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. The collection is estimated to take 5 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 22318-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22318-1450.

If you need assistance in completing the form, call 1-800-PTO-8199 and select option 2.

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: Pantech Inc.Application No./Patent No.: 15/010,629Filed/Issue Date: 2016-01-29Titled: METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINALPantech Inc., a Corporation

(Name of Assignee)

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

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

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

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

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

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

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

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

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

1. From: Seul Ki CHOI et al. To: PANTECH & CURITEL COMMUNICATIONS, INC.

The document was recorded in the United States Patent and Trademark Office at

Reel 018146, Frame 0267, or for which a copy thereof is attached.2. From: PANTECH & CURITEL COMMUNICATIONS, INC. To: PANTECH CO., LTD.

The document was recorded in the United States Patent and Trademark Office at

Reel 036537, Frame 0734, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: PANTECH CO., LTD. To: PANTECH INC.

The document was recorded in the United States Patent and Trademark Office at
Reel 040005, Frame 0257, or for which a copy thereof is attached.

4. From: PANTECH CO., LTD. To: PANTECH INC.

The document was recorded in the United States Patent and Trademark Office at
Reel 040654, Frame 0749, or for which a copy thereof is attached.

5. From: _____ To: _____

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

6. From: _____ To: _____

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

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

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

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

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

/Christopher B. Kilner/

2017-01-09

Signature

Date

Christopher B. Kilner

Patent Attorney (Reg. No. 45,381)

Printed or Typed Name

Title or Registration Number

Privacy Act Statement

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

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

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

Electronic Patent Application Fee Transmittal				
Application Number:		15010629		
Filing Date:		29-Jan-2016		
Title of Invention:		METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL		
First Named Inventor/Applicant Name:		Seul Ki CHOI		
Filer:		Hae-Chan Park/Grace Gao		
Attorney Docket Number:		P4101USC1C1		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	960	960

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				960

Electronic Acknowledgement Receipt	
EFS ID:	28010476
Application Number:	15010629
International Application Number:	
Confirmation Number:	4818
Title of Invention:	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL
First Named Inventor/Applicant Name:	Seul Ki CHOI
Customer Number:	58027
Filer:	Hae-Chan Park/Grace Gao
Filer Authorized By:	Hae-Chan Park
Attorney Docket Number:	P4101USC1C1
Receipt Date:	09-JAN-2017
Filing Date:	29-JAN-2016
Time Stamp:	15:42:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 960
RAM confirmation Number	011017INTEFSW15432600
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

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)	P4101USC1C1_Issue_Fee.pdf	122040	no	2
			b604f450206c6a544f838366fefa1c6450355cd3		
Warnings:					
Information:					
2	Power of Attorney	P4101USC1C1_POA_and_373tatement.pdf	715108	no	4
			6251e04b30c6f8f41828806a24632ef8b81554af		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30528	no	2
			d9d3d52c536c7eeda97c1d683acc6bd54756fdad		
Warnings:					
Information:					
Total Files Size (in bytes):			867676		
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. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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
15/010,629	01/29/2016	Seul Ki CHOI	P4101USC1C1

CONFIRMATION NO. 4818

POA ACCEPTANCE LETTER

58027
H.C. PARK & ASSOCIATES, PLC
1894 PRESTON WHITE DRIVE
RESTON, VA 20191



Date Mailed: 01/13/2017

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/09/2017.

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

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

/zabaha/



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.
15/010,629	02/21/2017	9575631	P4101USC1C1	4818

58027 7590 02/01/2017
H.C. PARK & ASSOCIATES, PLC
1894 PRESTON WHITE DRIVE
RESTON, VA 20191

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 0 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):

Seul Ki CHOI, Ansan-si, KOREA, REPUBLIC OF;
PANTECH CO., LTD., Seoul, KOREA, REPUBLIC OF;
Sang Jin Yoon, Anyang-si, 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.

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4338246

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
PANTECH INC		10/31/2016
RECEIVING PARTY DATA		
Name:	GOLDPEAK INNOVATIONS INC	
Street Address:	SUITE #806, DIGITAL-RO 34-GIL, 55, GURO-GU	
City:	SEOUL	
State/Country:	KOREA, REPUBLIC OF	
PROPERTY NUMBERS Total: 39		
Property Type	Number	
Patent Number:	8145252	
Patent Number:	8606284	
Patent Number:	9503559	
Patent Number:	9516614	
Patent Number:	9575631	
Patent Number:	9596352	
Patent Number:	7257410	
Patent Number:	7366222	
Patent Number:	7639991	
Patent Number:	7739190	
Patent Number:	7801074	
Patent Number:	7890130	
Patent Number:	7929924	
Patent Number:	8275328	
Patent Number:	8332706	
Patent Number:	8433350	
Patent Number:	8583098	
Patent Number:	8594740	
Patent Number:	9008637	
Patent Number:	9122518	
Patent Number:	9191932	

Property Type	Number
Patent Number:	9210594
Patent Number:	9363801
Patent Number:	8634818
Patent Number:	9100496
Application Number:	15457560
Application Number:	15338993
Application Number:	15173139
Application Number:	14589971
Application Number:	14754045
Application Number:	15167518
Application Number:	15017133
Application Number:	15436299
Application Number:	13466042
Application Number:	15354691
Application Number:	14921414
Application Number:	14179976
Application Number:	12958749
Application Number:	15212562

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.

Email: edward.park@fidelis-laws.com
Correspondent Name: FIDELIS LAW GROUP, PLLC
Address Line 1: 444 W BROAD ST UNIT 426
Address Line 4: FALLS CHURCH, VIRGINIA 22046

NAME OF SUBMITTER:	EDWARD PARK
SIGNATURE:	/sjp/
DATE SIGNED:	03/27/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

source=Second Patent Assignment_Signed by Pantech_GP_Redacted#page1.tif
source=Second Patent Assignment_Signed by Pantech_GP_Redacted#page2.tif
source=Second Patent Assignment_Signed by Pantech_GP_Redacted#page3.tif
source=Second Patent Assignment_Signed by Pantech_GP_Redacted#page4.tif

PATENT ASSIGNMENT (SECOND)

This Patent Assignment (the "Assignment") is made from **PANTECH INC** ("Assignor"), a corporation organized and existing under the laws of Korea with its principal place at Pantech Building, 179 Seongam-ro Mapo-go, Seoul, Korea, to **GoldPeak Innovations Inc** ("Assignee"), a corporation organized under the laws of the Republic of Korea, having an address at suite # 806, Digital-ro 34-gil, 55, Guro-gu, Seoul, Korea.

WHEREAS, Assignor and Assignee have entered into that certain Patent Assignment Agreement dated as of October 31, 2016 (the "Agreement"), whereby, among other things, Assignor has agreed to assign, and Assignee has agreed to accept, all of those patents and patent applications listed on Annex A hereto, and all existing and any future Patents that may be granted therefore throughout the world, all of their foreign counterparts, reissues, re-examinations, renewals, extensions, provisional, divisional and continuation applications including continuation in part, and any United States and foreign applications and patents that claimed, claim and will claim priorities to those listed above, as well as all patents and applications from which those listed above derive, relate, or claim priority (collectively, the "Patent Rights").

NOW THEREFORE, in exchange for good and valuable consideration under the Agreement, the receipt and sufficiency of which Assignor hereby acknowledges, and as a condition to Assignee entering into the Agreement, Assignor hereby assigns and transfers to Assignee and Assignee accepts, all of the right, title and interest of Assignor throughout the world in and to any and all inventions claimed or disclosed in the Patent Rights.

This Assignment includes all of Assignor's right, title and interest in, to and under each of the Patent Rights (including without limitation, rights to damages and payments for past, present and future infringements or misappropriations, including the right to collect and receive any royalties, or settlements for such infringements, all rights to sue for injunctive or other equitable relief, and any and all causes of action relating to any of the inventions or discoveries thereof), and, as agreed to between the parties, all continuations, continuations-in-part, divisionals, substitutes, reexaminations, post-opposition foreign counterpart patents and applications, reissues and extensions thereof, if any; and, Assignor requests the Commissioner of Patents of the United States (and all foreign officials, whose duty it is to issue patents and applications as aforesaid) to record Assignee as the owner of such Patent Rights, to the same extent as held by Assignor, and to issue the Letters Patent for such Patent Rights in the name of Assignee, as assignee of the Patent Rights.

This instrument shall inure to the benefit of Assignee and its successors and assigns, and shall be binding upon Assignor and its successors and assigns.

Assignor hereby covenants that it has full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict with this Assignment. Assignor hereby further covenants and agrees that it will communicate to Assignee any and all facts known to it respecting the Patent Rights, including the existing licenses, encumbrances or other restrictions that are expressly binding on successors to the Patent Rights, and testify in any



BJ

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legal proceeding, sign all lawful papers, execute and deliver all papers and take any actions that may be necessary or desirable to perfect the title to any aforementioned patents and inventions, execute all divisional, continuation, reexamination, reissue, substitute applications, and any similar and equivalent procedure under current and future legislations and regulations throughout the world, and make all rightful oaths to aid Assignee to obtain and enforce proper patent protection for said inventions in all countries.

Date of: Dec 14, 2016

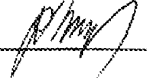
PANTECH INC.


Signature

KIM, BYEONG JIN
Name

C.F.O
Title

GoldPeak Innovations Inc.:


Signature

Youngjoon Rhee
Name

CEO
Title





Confidential / 10/1/18

Annex A

Patents and/or Patent Applications

NO	Category	Application No	Filing Date	Patent No	Issued Date
1		14/685,143	4/13/2015	9300805	3/29/2016
2		13/849,296	3/22/2013	8964645	2/24/2015
3		13/888,891	5/7/2013	9030973	5/12/2015
4		13/978,524	7/5/2013	8834440	1/13/2015
5		13/590,779	8/23/2012	9071486	6/30/2015
6		14/816,736	8/3/2015	9357363	5/31/2016
7		13/758,444	2/4/2013	9256747	2/9/2016
8		14/840,844	8/31/2015	9250957	2/2/2016
9		12/777,006	5/10/2010	8341079	12/25/2012
10		14/152,152	1/10/2014	9113312	8/18/2015
11		14/058,901	10/21/2013	9172906	10/27/2015
12		12/556,331	9/9/2009	8332706	12/11/2012
13		12/599,463	5/9/2008	8278744	10/2/2012
14		11/285,960	11/23/2005	7881723	2/1/2011
15		KR 2012-0023831	3/8/2012	KR 1314472	9/26/2013
16		KR 2010-0084319	8/30/2010	KR 1318013	10/7/2013
17		13/857,294	4/5/2013	9072108	6/30/2015
18		13/412,933	3/6/2012	9167534	10/20/2015
19		13/594,539	8/24/2012	8489036	7/16/2013
20		11/285,943	11/23/2005	7577115	8/18/2009
21		12/904,777	10/14/2010	8682319	3/25/2013
22		10/330,737	12/27/2002	7167716	1/23/2007
23		13/875,808	5/2/2013	9392582	7/12/2016
24		13/143,688	7/7/2011	8559480	10/15/2013
25		12/629,570	12/2/2009	8345867	1/1/2013
26		14/464,041	8/20/2014	9380581	6/28/2016
27		13/383,821	1/12/2012	9009207	4/14/2015
28		12/546,363	8/24/2009	8144815	3/27/2012
29		12/582,164	10/20/2009	8675510	10/31/2013
30		11/532,284	9/13/2006	7853289	12/14/2010
31		13/653,969	10/17/2012	9398499	7/19/2016
32		13/177,761	7/7/2011	8929223	12/17/2014

Continued on Page 239

33		12/832,885	7/8/2010	8301151	6/29/2012
34		12/539,364	10/12/2008	RE43930	8/30/2012
35		12/759,574	4/14/2010	RE43059	1/3/2012
36		11/263,858	11/2/2005	7904025	3/8/2011
37		12/861,637	8/23/2010	8098624	1/17/2012
38		10/744,321	12/22/2003	7333828	2/19/2008
39		10/749,456	12/31/2003	7123912	10/17/2008

B)

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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:



Practitioners associated with Customer Number:

146410

OR



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

Name	Registration Number

Name	Registration Number

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

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



The address associated with Customer Number:

146410

OR

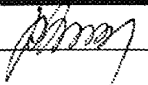
☐	Firm or Individual Name	Fidelis Law Group, PLLC		
	Address	444 W Broad St unit 426		
	City	Falls Church	State VA	Zip 22046
	Country	USA		
	Telephone	571.730.4572	Email	edward.park@fidelis-laws.com

Assignee Name and Address: GOLDPEAK INNOVATIONS INC
SUITE #806, DIGITAL-RO 34-GIL, 55, GURO-GU
SEOUL, REPUBLIC OF KOREA

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

SIGNATURE of Assignee of Record

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

Signature		Date	27 / Mar / 2017
Name	Youngjoon Rhee	Telephone	+82.10.8929.1905
Title	CEO		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

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.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: GOLDPEAK INNOVATIONS INC

Application No./Patent No.: 15010629 Filed/Issue Date: 01/29/2016

Titled: METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL

GOLDPEAK INNOVATIONS INC, a Corporation

(Name of Assignee)

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

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

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

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

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

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

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

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

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

1. From: PANTECH CO., LTD. To: PANTECH INC.

The document was recorded in the United States Patent and Trademark Office at
Reel 040005, Frame 0257, or for which a copy thereof is attached.

2. From: PANTECH INC. To: GOLDPEAK INNOVATIONS INC

The document was recorded in the United States Patent and Trademark Office at
Reel 041752, Frame 0983, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

4. From: _____ To: _____

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

5. From: _____ To: _____

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

6. From: _____ To: _____

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

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

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

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

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

/sjp/

Signature

Seong Jun PARK

Printed or Typed Name

4/4/2017

Date

73,534

Title or Registration Number

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt	
EFS ID:	28833445
Application Number:	15010629
International Application Number:	
Confirmation Number:	4818
Title of Invention:	METHOD FOR SELECTING AND CONTROLLING SECOND WORK PROCESS DURING FIRST WORK PROCESS IN MULTITASKING MOBILE TERMINAL
First Named Inventor/Applicant Name:	Seul Ki CHOI
Customer Number:	58027
Filer:	Seong Jun Park
Filer Authorized By:	
Attorney Docket Number:	P4101USC1C1
Receipt Date:	04-APR-2017
Filing Date:	29-JAN-2016
Time Stamp:	19:50:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no				
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA.pdf	1045958	no	2
			a87949d5c25ca9a30afe1aff1de0bb07b1b67cde		
Warnings:					

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	15010629.pdf	122035	no	3
			8f4bf2dd4c57daacf0bc801af27341372fcbb ea8		
Warnings:					
Information:					
Total Files Size (in bytes):			1167993		
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. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/010,629	01/29/2016	Seul Ki CHOI	P4101USC1C1

58027
H.C. PARK & ASSOCIATES, PLC
1894 PRESTON WHITE DRIVE
RESTON, VA 20191

CONFIRMATION NO. 4818
POWER OF ATTORNEY NOTICE



Date Mailed: 04/11/2017

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/04/2017.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

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

/sphouminh/



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/010,629	01/29/2016	Seul Ki CHOI	P4101USC1C1

CONFIRMATION NO. 4818

POA ACCEPTANCE LETTER

146410
Fidelis Law Group , PLLC
444 W Broad ST UNIT 426
Falls Church, VA 22046



Date Mailed: 04/11/2017

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/04/2017.

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

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

/sphouminh/

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6105570

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
GOLDPEAK INNOVATIONS INC		05/07/2020
RECEIVING PARTY DATA		
Name:	PANTECH CORPORATION	
Street Address:	8 YANGJAECHONRO-21GIL, SUITE 402, SEOCHO-GU,	
City:	SEOUL	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	06748	
PROPERTY NUMBERS Total: 234		
Property Type	Number	
Patent Number:	10014988	
Patent Number:	9548839	
Patent Number:	9048991	
Patent Number:	8631297	
Patent Number:	8631298	
Patent Number:	8681599	
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Application Number:	16392323
Application Number:	15820980
Application Number:	16418708
Application Number:	16272473
Application Number:	16387174
Application Number:	15911518
Application Number:	16203319
Application Number:	16275039
Application Number:	16288278

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Application Number:	16685738
Application Number:	15017133
Application Number:	16405803
Application Number:	16290914
Application Number:	12958749
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Application Number:	16806830
Application Number:	16730711
Application Number:	16711269
Application Number:	16806665
Application Number:	16826054
Application Number:	16037067
Application Number:	16184560
Application Number:	16694830

CORRESPONDENCE DATA

Fax Number: (703)643-9789

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: 4349062975

Email: yoon@capitoliplaw.com

Correspondent Name: YEASUN YOON

Address Line 1: 20319 KIAWAH ISLAND DR

Address Line 4: ASHBURN, VIRGINIA 20147

ATTORNEY DOCKET NUMBER:	PA01GOLDPEAKTOPANTECHCORP
NAME OF SUBMITTER:	YEASUN YOON
SIGNATURE:	/yoon/
DATE SIGNED:	05/13/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 17

source=Goldpeak Patent Assignment_20200507_actual sign#page1.tif
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CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS

This CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS (this "Assignment") is made this ____ day of April 2020, by **GoldPeak Innovations Inc.**, a Korean company ("Assignor"), in favor of **Pantech Corporation.**, a Korean company ("Assignee").

WHEREAS, Assignor and Assignee are party to that certain Patent Sale and Purchase Agreement of even date herewith (as in effect from time to time, the "**Patent Sale and Purchase Agreement**"); capitalized terms used but not otherwise defined in this Assignment shall have the respective meaning assigned thereto in the Patent Sale and Purchase Agreement; and

WHEREAS, pursuant to the Patent Sale and Purchase Agreement, Assignor has agreed to sell, convey, transfer, assign and deliver to Assignee all right, title and interest, including, without limitation, Patent Rights, in and to the patents, provisional patent applications, and patent applications listed on listed on Schedule A hereto (collectively, the "**Patents**").

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor hereby sells, conveys, transfers, and assigns to Assignee, its successors, legal representatives and assigns all right, title and interest in the United States and throughout the world in and to:

The Patents and any and all letters patent that are or may be granted thereon, and any legal equivalent and counterpart thereof that may be granted in any country or countries foreign to the United States, in each case including without limitation any extensions, substitutes, continuations, continuations-in-part, divisions, reissues, reexaminations, and renewals thereof, or other equivalents thereof, and further, all rights and privileges pertaining to the Patents and any and all letters patent that are or may be granted thereon, and any legal equivalent thereof that may be granted in any country or countries foreign to the United States as well as all inventions, invention disclosures, and discoveries described in any of the foregoing and including, without limitation, the right, if any, to petition, sue or otherwise seek and recover damages, profits and any other remedy (monetary, injunctive, declaratory or other relief or remedy of any kind) in the United States and anywhere throughout the world for any past, present and future infringement thereof, conversion or misappropriation of, or other injury, offense, violation, breach of duty or wrong relating to, any of the Patents, or any license, agreement, contract or other matter relating thereto.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States of America and the appropriate officers of all other jurisdictions in which the Patents are or may be registered or in which applications included among the Patents are pending, to record the title of Assignee, its successors, legal representatives and assigns, as owner of all right, title and interest in and to the Patents, and to issue to Assignee, its successors, legal representatives and assigns, all letters patent and any legal equivalent thereof that may be granted in any country or countries foreign to the United States and recordings of patent rights resulting from any application included among the Patents, according to this instrument.

Except to the extent that federal law preempts state law with respect to the matters covered hereby, this Assignment shall be governed by and construed in accordance with the laws of the State of Delaware, without giving effect to any of the principles of conflicts of laws thereof that would result in the application of the laws of another jurisdiction to this Assignment.

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.

Assignor has the full power and authority, and has obtained all Third Party consents, approvals and/or other authorizations required to enter into this Assignment and to carry out its obligations hereunder.

If Assignee is unable for any reason to secure Assignor's or its affiliates or their respective successors' or assigns' signature to any document it is entitled to under this Assignment, Assignor and its affiliates hereby irrevocably designate and appoint Assignee, and Assignee's duly authorized officers, agents and representatives, as its agents and attorneys-in-fact, coupled with an interest, with full power of substitution to act for and on the behalf and instead of Assignor, to execute and file any such document or documents and to do all other lawfully permitted acts to further the purposes of this Assignment with the same legal force and effect as if executed by Assignor.

IN WITNESS WHEREOF, Assignor has caused this Assignment to be executed by its duly authorized officer, as of the date first written above.

ASSIGNOR:

GoldPeak Innovations Inc.

By: Saekyung Park

Name: Saekyung Park

Title: CEO

Schedule A

Family	Country	Application #	Application Date	Issued #	Issued Date
1	U.S.A.	2017-406403	1/13/2017	10014988	7/3/2018
	U.S.A.	15/997,919	6/5/2018	Pending	
	U.S.A.	2015-726014	5/29/2015	9548839	1/17/2017
	U.S.A.	2014-184345	2/19/2014	9048991	6/2/2015
	U.S.A.	2013-750669	1/25/2013	8631297	1/14/2014
	U.S.A.	2012-750953	1/25/2013	8631298	1/14/2014
	U.S.A.	2011-012702	1/24/2011	8681599	3/25/2014
	U.S.A.	2009-388243	2/18/2009	7894330	2/22/2011
	TAIWAN	98105169	2/18/2009	1422201	1/1/2014
	SWEDEN	13170420.7	6/4/2013	2637348	6/24/2015
	NETHERLAND	13170420.7	2/18/2009	2637348	6/24/2015
	JAPAN	2016-215172	11/2/2016	6401224	9/14/2018
	JAPAN	2015-020714	2/4/2015	6038974	11/11/2016
	JAPAN	2013-221358	10/24/2013	5694479	2/13/2015
	JAPAN	2012-037585	2/23/2012	5400186	11/1/2013
	JAPAN	2009-554454	2/13/2009	4982653	5/11/2012
	ITALY	09 153 111.1	2/18/2009	2093924	8/14/2013
	U.K.	13170420.7	2/18/2009	2637348	6/24/2015
	E.P.O	09 153 111.1	2/18/2009	2093924	8/14/2013
	U.K.	09 153 111.1	2/18/2009	2093924	8/14/2013
	FRANCE	13170420.7	2/18/2009	2637348	6/24/2015
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	FINLAND	13170420.7	6/4/2013	2637348	6/24/2015
	E.P.O	15166204.6	5/4/2015	2922233	11/22/2017
	GERMANY	15166204.6	11/13/2017	2922233	11/22/2017
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	GERMANY	13170420.7	2/18/2009	2637348	6/24/2015
	CHINA	201310194226.5	5/23/2013	103354491	8/24/2016
	CHINA	200980000075.7	2/13/2009	101682489	7/24/2013
	CANADA	2715941	2/13/2009	2715941	4/11/2017
	AUSTRALIA	2009332929	2/13/2009	2009332929	11/14/2013
	KR	1020080124084	12/8/2008	925439	10/30/2009
2	U.S.A.	2016-069340	3/14/2016	9750054	8/29/2017

	U.S.A.	2013-960448	8/6/2013	9288824	3/15/2016
	U.S.A.	15/690,042	8/29/2017	10057925	8/21/2018
	U.S.A.	13/340447	12/29/2011	8611297	12/17/2013
	U.S.A.	2008-347352	12/31/2008	8102804	1/24/2012
	E.P.O	08866014	12/31/2008	2227923	7/29/2015
	SWEDEN	08866014	7/1/2010	2227923	7/29/2015
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	CHINA	201410265062.5	6/13/2014	103997794	1/15/2019
	CHINA	200880127735	8/31/2010	101960906	4/20/2016
	KR	1020150011228	1/23/2015	1540418	7/23/2015
	KR	1020080047656	5/22/2008	1519345	5/6/2015
3	U.S.A.	12/398084	3/4/2009	8380227	2/19/2013
	U.S.A.	12/398072	3/4/2009	8583147	11/12/2013
	U.S.A.	2013-091916	11/27/2013	9357486	5/31/2016
	U.S.A.	12/371526	2/13/2009	8606303	12/10/2013
	U.S.A.	11/691410	3/26/2007	7505776	3/17/2009
	U.S.A.	11/165744	6/24/2005	7505775	3/17/2009
	TURKEY	05756764.6	1/12/2007	1767036	10/31/2012
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	JAPAN	2007-517968	12/20/2006	4654241	12/24/2010
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	INDIA	0713/DELNP/2007	1/25/2007	296968	5/22/2018
	ISRAEL	180227	12/21/2006	180227	12/28/2011
	ICELAND	05756764.6	6/25/2005	1767036	10/31/2012
	IRELAND	05756764.6	1/12/2007	1767036	10/31/2012
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	CHINA	200910224551.5	11/17/2009	ZL200910224551.5	12/7/2016
	CHINA	200580020940.6	12/25/2006	ZL 2005 8 0020940.6	3/24/2010
	CANADA	2569425	12/1/2006	2569425	6/3/2014
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	KR	1020090013393	2/18/2009	935294	12/24/2009
	KR	1020040077649	9/25/2004	908260	7/10/2009
4	U.S.A.	12/684847	1/8/2010	7853852	12/14/2010
	U.S.A.	11/320374	12/27/2005	7725796	5/25/2010
	TAIWAN	94146828	12/27/2005	1416897	11/21/2013
	MEXICO	MX/a/2007/007796	6/25/2007	270303	9/23/2009
	JAPAN	2013-236045	11/14/2013	5619262	9/26/2014
	JAPAN	2012-142491	6/25/2012	5554375	6/6/2014
	JAPAN	2007-548094	6/26/2007	5055132	8/3/2012
	ISRAEL	183915	6/14/2007	183915	9/1/2011
	E.P.O	05 818 969.7	7/2/2007	1832024	6/6/2018
	U.K.	05 818 969.7	3/22/2018	1832024	6/6/2018
	GERMANY	05 818 969.7	3/22/2018	1832024	6/6/2018
	FRANCE	05 818 969.7	3/22/2018	1832024	6/6/2018
	CHINA	200580044699.0	6/25/2007	ZL200580044699.0	10/9/2012

5	AUSTRALIA	2005326877	6/13/2007	2005326877	2/4/2010
	KR	1020040112929	12/27/2004	1079095	10/27/2011
	KR	1020040112926	12/27/2004	1080964	11/1/2011
	U.S.A.	2016-014792	2/3/2016	9838194	12/5/2017
	U.S.A.	16/394,702	4/25/2019	Pending	
	U.S.A.	2014-513449	10/14/2014	9270365	2/23/2016
	U.S.A.	2012-715278	12/14/2012	8873519	10/28/2014
	JAPAN	2014-547111	6/12/2015	6212048	9/22/2017
	E.P.O	12857526.3	7/15/2014	2792093	7/11/2018
	GERMANY	12857526.3	5/30/2018	2792093	7/11/2018
	FRANCE	12857526.3	5/30/2018	2792093	7/11/2018
	U.K.	12857526.3	5/30/2018	2792093	7/11/2018
	CHINA	2012-80067029	12/14/2012	ZL201280067029.0	9/1/2017
	KR	1020200034567		Pending	
6	U.S.A.	2016-077466	3/22/2016	9713095	7/18/2017
	U.S.A.	15/653,355	7/18/2017	10045304	08/07/2018
	U.S.A.	2014-357557	5/9/2014	9313743	4/12/2016
	U.S.A.	16/293,321	5/5/2019	10609650	3/31/2020
	JAPAN	2014-540937	6/19/2014	5763845	6/19/2015
	E.P.O	12850075	6/4/2014	2782405	8/22/2018
	GERMANY	12850075	6/4/2014	2782405	8/22/2018
	FRANCE	12850075	6/4/2014	2782405	8/22/2018
	U.K.	12850075	6/4/2014	2782405	8/22/2018
	CHINA	201280056210.1	5/15/2014	ZL201280056210.1	5/15/2018
	KR	1020110119154	11/15/2011	10-1867314	6/7/2018
8	U.S.A.	2016-222068	7/28/2016	9680590	6/13/2017
	U.S.A.	2014-147295	1/3/2014	9419739	8/16/2016
	U.S.A.	2011-332089	12/20/2011	8649346	2/11/2014
	JAPAN	2014-134625	6/30/2014	6025783	10/21/2016
	JAPAN	2013-546010	6/14/2013	5575993	7/11/2014
	E.P.O	11850274.9	7/1/2013	Pending	
	CHINA	201180062059	6/21/2013	103270710	3/9/2016
	KR	1020100131864	12/21/2010	10-1867311	6/7/2018
9	U.S.A.	2016-335679	10/27/2016	9860046	1/2/2018
	U.S.A.	16/392,323	4/23/2019	Pending	
	U.S.A.	2016-992186	1/11/2016	9485072	11/1/2016
	U.S.A.	13/877,827	4/4/2013	9237566	1/12/2016
	JAPAN	2013-533775	5/31/2013	5766294	6/26/2015
	E.P.O	11832776.6	4/4/2013	Pending	
	CHINA	201610452850.4	6/21/2016	106059719	6/14/2019

	CHINA	201180049399	4/12/2013	103181109	8/3/2016
	KR	1020100100988	10/15/2010	10-1771550	8/21/2017
10	U.S.A.	14/056,474	10/17/2013	9008046	4/14/2015
	U.S.A.	2011-181456	7/12/2011	8588185	7/19/2013
	E.P.O	11807024.2	12/11/2012	Pending	
	KR	1020100068157	7/14/2010	10-1699023	1/17/2017
11	U.S.A.	2011-098056	4/29/2011	8780860	7/15/2014
12	U.S.A.	2015-733068	6/8/2015	9854545	12/26/2017
	U.S.A.	15/820,980	11/22/2017	Pending	
	U.S.A.	2012-578531	8/10/2012	9054835	6/9/2015
	JAPAN	2015-154385	8/4/2015	6175466	7/14/2017
	E.P.O	11742487.9	9/5/2012	2536227	5/8/2019
	GERMANY	11742487.9	9/5/2012	2536227	5/8/2019
	U.K.	11742487.9	9/5/2012	2536227	5/8/2019
	FRANCE	11742487.9	9/5/2012	2536227	5/8/2019
	SWITZERLAND	11742487.9	9/5/2012	2536227	5/8/2019
	IRELAND	11742487.9	9/5/2012	2536227	5/8/2019
	Luxembourg	11742487.9	9/5/2012	2536227	5/8/2019
	Monaco	11742487.9	9/5/2012	2536227	5/8/2019
	CHINA	201610908740.4	10/18/2016	Pending	
	CHINA	201180014458.7	9/18/2012	ZL201180014458.7	11/16/2016
	KR	1020110008683	1/28/2011	10-1803015	11/23/2017
14	U.S.A.	15/206,508	7/11/2016	10299251	5/21/2019
	U.S.A.	16/418,708	5/28/2019	Pending	
	U.S.A.	13/875,808	5/2/2013	9392582	7/12/2016
	U.S.A.	13/875,869	5/2/2013	9131482	9/8/2015
	U.S.A.	2013-965837	8/13/2013	9265034	2/16/2016
	U.S.A.	2010-916203	10/29/2010	8538411	9/17/2013
	JAPAN	2014-080506	4/9/2014	5788051	8/7/2015
	JAPAN	2012-536694	4/23/2012	5525055	4/18/2014
	E.P.O	10827139.6	5/23/2012	Pending	
	KR	1020170127789	9/29/2017	10-1828917	2/7/2018
	KR	1020100088151	9/8/2010	10-1785997	10/10/2017
15	U.S.A.	2015-703360	5/4/2015	9787514	10/10/2017
	U.S.A.	16/272,473	2/11/2019	Pending	
	U.S.A.	15/729,604	10/10/2017	10237104	3/19/2019
	U.S.A.	2013-891522	5/10/2013	9025485	5/5/2015
	JAPAN	2015-511380	11/10/2014	6200944	9/1/2017
	E.P.O	13787400.4	12/3/2014	2850757	10/17/2017
	GERMANY	13787400.4	12/3/2014	2850757	10/17/2017

	FRANCE	13787400.4	12/3/2014	2850757	10/17/2017
	U.K.	13787400.4	12/3/2014	2850757	10/17/2017
	CHINA	201380036116.4	1/6/2015	ZL201380036116.4	11/3/2017
	KR	1020120050406	5/11/2012	Pending	
16	U.S.A.	2016-180153	6/13/2016	9742542	8/22/2017
	U.S.A.	2015-801116	7/16/2015	9369251	6/14/2016
	U.S.A.	16/387,174	4/17/2019	Pending	
	U.S.A.	2014-547112	11/18/2014	9088396	7/21/2015
	U.S.A.	2011-816182	2/8/2013	8897182	11/25/2014
	JAPAN	2016-115490	6/9/2016	6185116	8/4/2017
	JAPAN	2015-053011	3/17/2015	5952449	6/17/2016
	JAPAN	2013-524046	2/8/2013	5718464	3/27/2015
	GERMANY	11816634.7	3/11/2013	2605433	2/27/2019
	FRANCE	11816634.7	3/11/2013	2605433	2/27/2019
	SWITZERLAND	11816634.7	3/11/2013	2605433	2/27/2019
	Luxembourg	11816634.7	3/11/2013	2605433	2/27/2019
	MONACO	11816634.7	3/11/2013	2605433	2/27/2019
	IRELAND	11816634.7	3/11/2013	2605433	2/27/2019
	Belgium	11816634.7	3/11/2013	2605433	2/27/2019
	U.K.	11816634.7	3/11/2013	2605433	2/27/2019
	E.P.O	11816634.7	3/11/2013	2605433	2/27/2019
	CHINA	201610412657.8	8/11/2011	ZL201610412657.8	9/24/2019
	CHINA	201180049114.X	4/11/2013	103155456	6/29/2016
	KR	1020100098006	10/7/2010	1719542	3/20/2017
	KR	1020170033713	3/17/2017	1810962	12/24/2017
	KR	1020100098005	10/7/2010	1790502	
17	U.S.A.	2012-807706	12/28/2012	9136924	9/15/2015
	JAPAN	2013-518260	1/4/2013	6293482	2/23/2018
	E.P.O	11803762	2/1/2013	2592763	5/23/2018
	GERMANY	11803762	2/1/2013	2592763	5/23/2018
	FRANCE	11803762	2/1/2013	2592763	5/23/2018
	U.K.	11803762	2/1/2013	2592763	5/23/2018
	CHINA	201180037814.7	1/31/2013	ZL201180037814.7	11/17/2017
	KR	1020160171540	12/15/2016	10-1771549	8/21/2017
18	U.S.A.	2016-151296	5/10/2016	9948440	4/17/2018
	U.S.A.	2014-299679	6/9/2014	9344245	5/17/2016
	U.S.A.	15/911,518	3/5/2018	Pending	
	U.S.A.	2011-149225	5/31/2011	8787216	7/22/2014
	JAPAN	2013-513109	11/27/2012	5931056	5/13/2016
	E.P.O	11790009	12/5/2012	Pending	

	CHINA	201610951696.5	11/2/2016	Pending	
	CHINA	201180037855.6	1/31/2013	ZL201180037855.6	11/30/2016
	KR	1020100055073	6/10/2010	10-1790505	10/20/2017
19	U.S.A.	2016-192233	6/24/2016	9893866	2/13/2018
	U.S.A.	2014-464041	8/20/2014	9380581	6/28/2016
	U.S.A.	2013-043005	10/1/2013	8837452	9/16/2014
	U.S.A.	2011-008685	1/18/2011	8576822	11/5/2013
	JAPAN	2012-548900	7/11/2012	5855016	12/18/2015
	E.P.O	11733132	8/17/2012	Pending	
	U.S.A.	16/285,957	2/26/2019	10567140	2/18/2020
	U.S.A.	15/858,921	12/29/2017	10218485	2/26/2019
	CHINA	201180014290.X	9/17/2012	102804625	11/13/2018
	KR	1020100004219	1/18/2010	1740221	
20	U.S.A.	2009-505707	5/2/2012	8811518	8/19/2014
	KR	1020127011219	4/30/2012	1627393	5/30/2016
21	U.S.A.	2016-131725	4/18/2016	9825686	11/21/2017
	U.S.A.	2009-500288	4/4/2012	9319252	4/19/2016
	U.S.A.	16/203,319	11/28/2018	Pending	
	U.S.A.	15/814,605	11/16/2017	10153821	12/11/2018
	KR	1020127008173	3/29/2012	1621376	5/10/2016
22	U.S.A.	2015-279139	9/28/2016	10057940	8/21/2018
	U.S.A.	2015-801280	7/16/2015	9474025	10/18/2016
	U.S.A.	2013-847319	3/19/2013	9088992	7/21/2015
	KR	1020120027938	3/19/2012	10-1868865	6/12/2018
23	U.S.A.	2016-183158	6/15/2016	9730265	8/8/2017
	U.S.A.	16/275,039	2/13/2019	Pending	
	U.S.A.	2014-560838	12/4/2014	9374213	6/21/2016
	U.S.A.	2012-651034	10/12/2012	8917619	12/23/2014
	KR	1020110110798	10/27/2011	10-1841693	3/19/2018
24	U.S.A.	2016-341296	11/2/2016	9955376	4/24/2018
	U.S.A.	16/288,278	2/28/2019	Pending	
	U.S.A.	2015-937348	11/10/2015	9516538	12/6/2016
	U.S.A.	2013-984476	8/8/2013	9191833	11/17/2015
	E.P.O	12744486.3	8/9/2013	Notice of Allowance at 1/7/2020 (Issue fee due 5/7/2020)	
	CHINA	201610397886.7	6/7/2016	106060866B	1/7/2020
	CHINA	201280014327	9/22/2013	103444100	6/29/2016
	KR	1020170130604	10/11/2017	1860863	5/17/2018
27	U.S.A.	2014-191178	2/26/2014	9124688	9/1/2015
	U.S.A.	2009-553328	9/3/2009	8675844	3/18/2014

	U.S.A.	2003-730853	12/8/2003	7660404	2/9/2010
	HONG KONG	5101471	2/22/2005	1069062	2/12/2010
	E.P.O	06019434.7	12/5/2003	1727386	3/4/2009
	U.K.	06019434.7	9/18/2006	1727386	3/4/2009
	U.K.	03257661.3	12/5/2003	1427242	11/15/2006
	FRANCE	06019434.7	9/18/2006	1727386	3/4/2009
	E.P.O	03257661.3	12/5/2003	1427242	11/15/2006
	FRANCE	03257661.3	12/5/2003	1427242	11/15/2006
	GERMANY	06019434.7	9/18/2006	1727386	3/4/2009
	GERMANY	03257661.3	12/5/2003	1427242	11/15/2006
	CHINA	200310124920.6	12/7/2003	100558200	11/4/2009
	KR	1020020077576	12/7/2002	500670	7/1/2005
28	U.S.A.	2002-194038	7/11/2002	6809641	10/26/2004
	JAPAN	2002-196495	7/4/2002	3684373	6/10/2005
	CHINA	02140676.6	7/12/2002	101271871	8/23/2006
	KR	1020010041909	7/12/2001	420395	2/16/2004
29	U.S.A.	14/225,729	3/26/2014	8933955	12/23/2014
	U.S.A.	2013-035625	9/24/2013	8706168	4/22/2014
	U.S.A.	2012-654043	10/17/2012	8554185	10/8/2013
	U.S.A.	2009-412079	3/26/2009	8311519	11/13/2012
	JAPAN	2009-133842	6/4/2009	4764496	6/17/2011
	KR	1020080052642	6/4/2008	1481408	1/6/2015
30	U.S.A.	2004-007603	12/7/2004	7260419	8/21/2007
	KR	1020030088563	12/8/2003	603437	7/13/2006
31	U.S.A.	14/061316	10/23/2013	Pending	
	U.S.A.	2012-649539	10/11/2012	RE44620	7/9/2013
	U.S.A.	2011-300799	11/21/2011	RE43787	11/6/2012
	U.S.A.	2009-612327	11/4/2009	RE42996	12/6/2011
	U.S.A.	2004-882604	6/30/2004	7292561	11/6/2007
	KR	1020030087886	12/5/2003	633741	10/4/2006
32	U.S.A.	2013-861177	4/11/2013	9661113	5/23/2017
	U.S.A.	2010-716600	3/3/2010	8433379	4/30/2013
	U.S.A.	2005-106118	4/13/2005	7693558	4/6/2010
	KR	1020040025922	4/14/2004	598062	6/30/2006
33	U.S.A.	2011-171344	6/28/2011	8200899	6/12/2012
	U.S.A.	2009-362760	1/30/2009	7991958	8/2/2011
	KR	1020080046505	5/20/2008	985617	9/29/2010
34	U.S.A.	2005-295202	12/6/2005	7567530	7/28/2009
37	U.S.A.	2002-253256	9/24/2002	7136671	11/14/2006
38	U.S.A.	2015-929965	11/2/2015	9729699	8/8/2017

	U.S.A.	2014-196273	3/4/2014	9178982	11/3/2015
	U.S.A.	2013-746125	1/21/2013	8699987	4/15/2014
	U.S.A.	2009-625191	11/24/2009	8374572	2/12/2013
	U.S.A.	15/672,018	8/8/2017	10158752	12/18/2018
	U.S.A.	2003-749788	12/30/2003	7643815	1/5/2010
40	U.S.A.	2010-944436	11/11/2010	8060114	11/15/2011
	U.S.A.	2010-693142	1/25/2010	7912482	3/22/2011
	KR	1020040088333	11/2/2004	0632467	9/28/2006
	U.S.A.	2004-021778	12/23/2004	7668553	2/23/2010
41	U.S.A.	2004-899638	7/26/2004	7151487	12/19/2006
	U.S.A.	2003-749598	12/30/2003	6784829	8/31/2004
	CHINA	200410064136.5	8/19/2004	ZL200410064136.5	4/20/2011
	KR	1020030057848	8/21/2003	540248	12/23/2005
42	U.S.A.	2003-750000	12/30/2003	7006037	2/28/2006
	KR	1020030033022	5/23/2003	543308	1/6/2006
43	U.S.A.	16/287,787	2/27/2019	Pending	
	U.S.A.	2014-307326	6/17/2014	9495730	11/15/2016
	U.S.A.	2012-669162	11/5/2012	8767018	7/1/2014
	U.S.A.	13/363,428	2/1/2012	8319799	11/27/2012
	U.S.A.	2010-814262	6/11/2010	8120626	2/21/2012
	U.S.A.	2006-453433	6/28/2006	7755647	7/13/2010
	CHINA	200610095738.6	6/28/2006	101982805	6/15/2011
	KR	1020050056173	6/28/2005	756129	8/30/2007
44	U.S.A.	2011-275103	10/17/2011	8446915	5/21/2013
	U.S.A.	2010-716575	3/3/2010	8054846	11/8/2011
	U.S.A.	2006-441981	5/26/2006	7693163	4/6/2010
	KR	1020050045625	5/30/2005	653527	11/27/2006
45	U.S.A.	2004-933670	9/3/2004	7102196	9/5/2006
	KR	1020030062570	9/8/2003	539960	12/22/2005
46	U.S.A.	2002-214430	8/8/2002	6801271	10/5/2004
	JAPAN	2002-214711	7/24/2002	3773472	2/24/2006
	E.P.O	02014550	7/1/2002	1 316 841	1/1/2014
	U.K.	02014550	7/1/2002	1 316 841	1/1/2014
	FRANCE	02014550	7/1/2002	1 316 841	1/1/2014
	GERMANY	02014550	7/1/2002	02 014 550 4	1/1/2014
	CHINA	02140295.7	7/4/2002	ZL02140295.7	2/2/2005
	KR	1020010075793	12/3/2001	432009	5/7/2004
47	U.S.A.	2002-071750	2/6/2002	6925313	8/2/2005
	JAPAN	2002-031225	2/7/2002	4034079	11/2/2007
	ITALY	02250854	2/7/2002	1231757	11/15/2006

	HONG KONG	02109172.9	12/18/2002	1047666	3/4/2005
	E.P.O	02250854	2/7/2002	1231757	11/15/2006
	U.K.	02250854	2/7/2002	1231757	11/15/2006
	FRANCE	02250854	2/7/2002	1231757	11/15/2006
	GERMANY	02250854	2/7/2002	1231757	11/15/2006
	CHINA	02106877.1	2/7/2002	ZL02106877.1	10/6/2004
48	U.S.A.	2009-645912	12/23/2009	8270999	9/18/2012
	U.S.A.	2006-647636	12/28/2006	7660592	2/9/2010
	KR	1020050133300	12/29/2005	651594	11/22/2006
49	U.S.A.	2013-860672	4/11/2013	9204118	8/14/2015
	U.S.A.	2010-686822	1/13/2010	8433367	4/30/2013
	U.S.A.	2008-217175	7/2/2008	7668569	2/23/2010
	U.S.A.	2005-255610	10/21/2005	7412262	8/12/2008
	JAPAN	2010-099211	4/22/2010	5210347	3/1/2013
	JAPAN	2005-309910	10/24/2005	4557864	7/30/2010
	GERMANY	102005053671.9	11/10/2005	102005053671	12/24/2008
	CHINA	200510120388.x	11/11/2005	ZL200510120388.X	4/1/2009
	KR	1020040101848	12/6/2004	620741	8/29/2006
50	U.S.A.	2005-106160	4/13/2005	7283839	10/16/2007
	HONG KONG	06103630.4	3/22/2006	1083574	10/15/2010
	E.P.O	05252337	4/14/2005	1587288	11/3/2010
	U.K.	05252337	4/14/2005	1587288	11/3/2010
	FRANCE	05252337	4/14/2005	1587288	11/3/2010
	GERMANY	05252337	4/14/2005	1587288	11/3/2010
	KR	1020040083073	10/18/2004	572464	4/18/2006
	CHINA	200510079253.3	4/14/2005	101694372	5/26/2010
51	U.S.A.	2000-655036	9/5/2000	6557010	4/29/2003
	JAPAN	2000-272619	9/8/2000	3638249	1/21/2005
52	U.S.A.	2002-185141	6/27/2002	7103387	9/5/2006
	JAPAN	2002-201859	7/10/2002	3917027	2/16/2007
	E.P.O	02254584	6/28/2002	1309157	8/17/2011
	U.K.	02254584	6/28/2002	1309157	8/17/2011
	FRANCE	02254584	6/28/2002	1309157	8/17/2011
	GERMANY	02254584	6/28/2002	1309157	8/17/2011
	CHINA	02140907.2	7/9/2002	ZL02140907.2	6/4/2008
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53	U.S.A.	15/131,746	4/18/2016	9839000	12/05/2017
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54	KR	1020050009451	2/2/2005	656670	12/5/2006
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55	U.S.A.	2012-676214	11/14/2012	8588755	6/17/2013
	U.S.A.	12/816,688	6/16/2010	8331920	12/11/2012
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56	U.S.A.	2006-580741	10/12/2006	7636845	12/22/2009
	KR	1020050123711	12/15/2005	755536	8/29/2007
57	U.S.A.	2011-311458	12/5/2011	8565724	10/22/2013
	U.S.A.	2008-150905	5/1/2008	8078145	12/13/2011
	U.S.A.	2003-602810	6/24/2003	7384297	6/10/2008
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	KR	1020020085938	12/28/2002	551421	2/3/2006
62	U.S.A.	2016-082832	3/28/2016	9596352	3/14/2017
	U.S.A.	14/685,143	4/13/2015	9300805	3/29/2016
	U.S.A.	2013-058968	10/21/2013	9008637	4/14/2015
	U.S.A.	2011-182024	7/13/2011	8583098	7/8/2013
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	U.S.A.	15/988,020	5/24/2018	10257359	4/9/2019
	KR	1020110000808	1/5/2011	1308192	9/6/2013
63	U.S.A.	15/338,993	10/31/2016	9769776	9/19/2017
	U.S.A.	15/709,185	9/20/2017	10015759	7/3/2018
	U.S.A.	16/424,258	5/28/2019	10582460	3/3/2020
	U.S.A.	14/626,047	2/19/2015	9516614	12/6/2016
	U.S.A.	13/849,296	3/22/2013	8964645	2/24/2015
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64	U.S.A.	2016-173139	6/3/2016	9794029	10/17/2017
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	U.S.A.	2015-942519	11/16/2015	9363801	6/7/2016
	U.S.A.	2015-707736	5/8/2015	9191932	11/17/2015
	U.S.A.	2013-888891	5/7/2013	9030973	5/12/2015
	JAPAN	2015-511358	11/7/2014	6132370	4/28/2017
	E.P.O	13788210.6	5/7/2013	2850758	9/5/2018
	GERMANY	13788210.6	5/7/2013	2850758	9/5/2018
	FRANCE	13788210.6	5/7/2013	2850758	9/5/2018
	U.K.	13788210.6	5/7/2013	2850758	9/5/2018

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65	U.S.A.	14/589971	1/5/2015	10004062	6/19/2018
	U.S.A.	16/685,738	11/15/2019	Pending	
	U.S.A.	13/978524	7/5/2013	8934440	1/13/2015
	KR	1020110001992	1/7/2011	10-1835023	2/27/2018
66	U.S.A.	2014-754045	6/29/2015	10103916	10/16/2018
	U.S.A.	2012-580779	8/23/2012	9071488	6/30/2015
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67	U.S.A.	15/167,518	5/27/2016	10162490	12/25/2018
	U.S.A.	14/816,736	8/3/2015	9357363	5/31/2016
	U.S.A.	2009-364085	2/2/2009	9100496	8/4/2015
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	FRANCE	09156335.3	3/26/2009	2117208	1/26/2011
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	NETHERLAND	09156335.3	3/26/2009	2117208	1/26/2011
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68	U.S.A.	15/017,133	2/5/2016	Pending	
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69	U.S.A.	2016-010629	1/29/2016	9575631	2/21/2017
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71	U.S.A.	2016-354691	11/17/2016	9930499	3/27/2018
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	GERMANY	11176526.9	11/29/2018	2424170	12/19/2018
	FRANCE	11176526.9	11/29/2018	2424170	12/19/2018
	U.K.	11176526.9	11/29/2018	2424170	12/19/2018
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76	KR	1020120023831	3/8/2012	1314472	9/26/2013
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77	E.P.O	11177039.2	8/10/2011	2424309	12/4/2013
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78	U.S.A.	2011-012753	1/24/2011	8433350	12/28/2012
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	FRANCE	07253403	5/29/2018	1895678	7/11/2018
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	NETHERLAND	05257261.7	11/25/2005	1662671	11/3/2010
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	FRANCE	05257261.7	11/25/2005	1662671	11/3/2010
	FINLAND	05257261.7	11/25/2005	1662671	11/3/2010
	GERMANY	05257261.7	11/25/2005	1662671	11/3/2010
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	U.K.	10733619.0	1/15/2010	2381584	8/8/2018
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85	KR	1020090004682	1/20/2009	991957	10/28/2010
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86	KR	1020080121495	12/2/2008	1037520	5/20/2011
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	GERMANY	10800014.2	2/10/2012	2456117	9/9/2015
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88	KR	1020090063719	7/13/2009	1685173	12/5/2016
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91	U.S.A.	2011-177761	7/7/2011	8929223	12/17/2014
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92	U.S.A.	12/832,665	7/8/2010	8301151	6/29/2012
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93	U.S.A.	2009-539364	10/12/2009	RE43930	8/30/2012
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94	U.S.A.	12/759,974	4/14/2010	RE43059	1/3/2012
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95	U.S.A.	2005-263858	11/2/2005	7904025	3/8/2011
	KR	1020040103715	12/9/2004	698665	3/15/2007
96	U.S.A.	12/861,637	8/23/2010	8098624	1/17/2012
	U.S.A.	2005-132400	5/19/2005	7801074	9/21/2010
	KR	1020040059401	7/28/2004	620713	8/29/2006
97	U.S.A.	2003-744321	12/22/2003	7333828	2/19/2008
	KR	2003-0098663	12/31/2002	598055	7/10/2006
98	U.S.A.	2003-749456	12/31/2003	7123912	10/17/2006
	KR	1020030026991	4/29/2003	0592885	6/16/2006

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Texarkana Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 5:22-CV-00113	DATE FILED 9/2/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Texarkana Division
PLAINTIFF PANTECH CORPORATION and PANTECH WIRELESS, LLC		DEFENDANT LG ELECTRONICS INC., and LG ELECTRONICS U.S.A., INC.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9,136,924	9/15/2015	Pantech Corporation
2 9,854,545	12/26/2017	Pantech Corporation
3 10,869,247	12/15/2020	Pantech Wireless
4 9,313,809	4/12/2016	Pantech Wireless
5 9,065,486	6/23/2015	Pantech Wireless

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY		
	☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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DOCKET NO. 5:22-CV-00113	DATE FILED 9/2/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Texarkana Division
PLAINTIFF PANTECH CORPORATION and PANTECH WIRELESS, LLC		DEFENDANT LG ELECTRONICS INC., and LG ELECTRONICS U.S.A., INC.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,283,839	10/16/2007	Pantech Corporation
2 9,575,631	2/21/2017	Pantech Corporation
3		
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY	
	☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy