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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.
16/516,892	03/22/2022	11281370	2191-92 CON	1223

66547 7590 03/02/2022
THE FARRELL LAW FIRM, P.C.
Paul J Farrell
290 Broadhollow Road
Suite 210E
Melville, NY 11747

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.

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

Jae Wook LEE, Gyeonggi-do, KOREA, REPUBLIC OF;
An Ki CHO, Gyeonggi-do, KOREA, REPUBLIC OF;
Jun Hyung CHO, Gyeonggi-do, KOREA, REPUBLIC OF;

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

Samsung Electronics Co., Ltd., Gyeonggi-do, 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.

IR 103 (Rev. 10/09)

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

66547 7590 11/15/2021
THE FARRELL LAW FIRM, P.C.
Paul J Farrell
290 Broadhollow Road
Suite 210E
Melville, NY 11747

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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

Paul J. Farrell (Typed or printed name)
(Signature)
Feb 9, 2022 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/516,892	07/19/2019	Jae Wook LEE	2191-92 CON	1223

TITLE OF INVENTION: ELECTRONIC DEVICE AND TOUCH GESTURE CONTROL METHOD THEREOF

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	02/15/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEE, GENE W	2692	345-156000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

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

1 The Farrell Law Firm, P.C.

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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Samsung Electronics Co., Ltd

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

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. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies

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

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

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-4053

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 February 9, 2022

Typed or printed name Paul J. Farrell

Registration No. 33,494

Electronic Patent Application Fee Transmittal				
Application Number:		16516892		
Filing Date:		19-Jul-2019		
Title of Invention:		ELECTRONIC DEVICE AND TOUCH GESTURE CONTROL METHOD THEREOF		
First Named Inventor/Applicant Name:		Jae Wook LEE		
Filer:		Paul J. Farrell/Deanna Marman		
Attorney Docket Number:		2191-92 CON		
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	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1200

Electronic Acknowledgement Receipt	
EFS ID:	44956462
Application Number:	16516892
International Application Number:	
Confirmation Number:	1223
Title of Invention:	ELECTRONIC DEVICE AND TOUCH GESTURE CONTROL METHOD THEREOF
First Named Inventor/Applicant Name:	Jae Wook LEE
Customer Number:	66547
Filer:	Paul J. Farrell/Deanna Marman
Filer Authorized By:	Paul J. Farrell
Attorney Docket Number:	2191-92 CON
Receipt Date:	09-FEB-2022
Filing Date:	19-JUL-2019
Time Stamp:	15:36:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1200
RAM confirmation Number	E202229F36211525
Deposit Account	504053
Authorized User	Deanna Marman
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees) 37 CFR 1.20 (Post Issuance fees) 37 CFR 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Issue_Fee_Transmittal.pdf	111521	no	1
			33698d80acd80dd78eb1dddfbac37dd2191f5f2b		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37828	no	2
			f6cfdff3bb4baed21ce9b388de21a897d4cca7b4		
Warnings:					
Information:					
Total Files Size (in bytes):			149349		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. New Applications Under 35 U.S.C. 111 If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. National Stage of an International Application under 35 U.S.C. 371 If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. New International Application Filed with the USPTO as a Receiving Office If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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NOTICE OF ALLOWANCE AND FEE(S) DUE

66547 7590 11/15/2021
THE FARRELL LAW FIRM, P.C.
Paul J Farrell
290 Broadhollow Road
Suite 210E
Melville, NY 11747

EXAMINER

LEE, GENE W

ART UNIT

PAPER NUMBER

2692

DATE MAILED: 11/15/2021

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/516,892	07/19/2019	Jae Wook LEE	2191-92 CON	1223

TITLE OF INVENTION: ELECTRONIC DEVICE AND TOUCH GESTURE CONTROL METHOD THEREOF

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	02/15/2022

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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66547 7590 11/15/2021
THE FARRELL LAW FIRM, P.C.
Paul J Farrell
290 Broadhollow Road
Suite 210E
Melville, NY 11747

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Certificate of Mailing or Transmission

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/516,892	07/19/2019	Jae Wook LEE	2191-92 CON	1223

TITLE OF INVENTION: ELECTRONIC DEVICE AND TOUCH GESTURE CONTROL METHOD THEREOF

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nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	02/15/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEE, GENE W	2692	345-156000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

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

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

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

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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NOTE: 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.
16/516,892	07/19/2019	Jae Wook LEE	2191-92 CON	1223
66547 7590 11/15/2021 THE FARRELL LAW FIRM, P.C. Paul J Farrell 290 Broadhollow Road Suite 210E Melville, NY 11747			EXAMINER LEE, GENE W	
			ART UNIT	PAPER NUMBER
			2692	
DATE MAILED: 11/15/2021				

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.** Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 16/516,892	Applicant(s) LEE et al.	
	Examiner GENE W LEE	Art Unit 2692	AIA (FITF) Status Yes

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

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

1. ☒ This communication is responsive to RCE filed 19 Oct 2021.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

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

3. ☒ The allowed claim(s) is/are 1,3-4,6-8,10,12-13 and 15-17. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

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

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

* Certified copies not received: ____.

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

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

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

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

Attachment(s)

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

/Gene W Lee/ Primary Examiner, Art Unit 2692	
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EXAMINER'S AMENDMENT

1. 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.
2. Authorization for this examiner's amendment was given in an interview with John Gallagher (#47234) on 29 October 2021.
3. The application has been amended as follows:

IN THE CLAIMS

1. (Currently Amended) An electronic device, comprising:
 - a display;
 - a sensor configured to detect a gesture including a first input and a second input;
 - a memory configured to store information regarding at least one direction combination; and
 - a processor configured to:
 - activate selectively a region of the display for receiving the gesture according to left hand operation or right hand operation,
 - detect the first input touched on the region of the display,
 - display, upon detecting the first input, a guide comprising a plurality of direction guides, wherein a center of the guide is positioned at a same position of the first input,
 - detect the second input drawing a plurality of lines originating from the first input,
 - based on whether a user input from the first input passes on at least two direction

guides of the plurality of direction guides, wherein the plurality of lines comprises at least two different directions, ~~a different direction~~,

compare information regarding directions of the second input corresponding to the gesture on the display in a lock state of the electronic device with the information regarding the at least one direction combination, which is stored in the memory, and

change a state of the electronic device from the lock state to an unlock state according to a result of comparing the information regarding the directions of the second input corresponding to the gesture with the information regarding the at least one direction combination, which is stored in the memory, wherein the result is independent of a position of the first input,

wherein the processor is further configured to:

control at least one of an audio module to output an audio signal having directionality according to each direction of the directions of the second input, or a motor to generate a vibration having directionality according to each direction of the directions of the second input.

10. (Currently Amended) A control method of an electronic device, the method comprising:

activating selectively a region of a display of the electronic device for receiving a gesture including a first input and a second input according to left hand operation or right hand operation of the electronic device,

detecting the first input touched on the region of the display,

displaying, upon detecting the first input, a guide comprising a plurality of direction guides, wherein a center of the guide is positioned at a same position of the first input,

detecting the second input drawing a plurality of lines originating from the first input, based on whether a user input from the first input passes on at least two direction guides of the plurality of direction guides, wherein the plurality of lines comprises at least two different directions, ~~a different direction~~,

comparing information regarding directions of the second input corresponding to the gesture on the display in a lock state of the electronic device with information regarding at least one direction combination, which is stored in a memory of the electronic device; and

changing a state of the electronic device from the lock state to an unlock state, using at least one processor of the electronic device, according to a result of comparing the information regarding the directions of the second input corresponding to the gesture with the information regarding the at least one direction combination, which is stored in the memory, wherein the result is independent of a position of the first input,

wherein the at least one processor is configured to control at least one of an audio module to output an audio signal having directionality according to each direction of the directions of the second input, or a motor to generate a vibration having directionality according to each direction of the directions of the second input.

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance.

5. Applicant's amendment successfully addressed the rejections of the claims under 35 USC 112(a) and 35 USC 112(b) in the previous Office Action. Those rejections have been withdrawn.
6. Applicant filed a terminal disclaimer on 20 October 2021 with respect to US Patent No. 10,365,820.
7. Regarding independent claim 1, the cited prior art does not teach or render obvious, in the context of the claim, the limitations to display, upon detecting the first input, a guide comprising a plurality of direction guides, wherein a center of the guide is positioned at a same position of the first input, and detect the second input drawing a plurality of lines originating from the first input, based on whether a user input from the first input passes on at least two direction guides of the plurality of direction guides, wherein the plurality of lines comprises at least two different directions.
8. Regarding independent claim 10, the cited prior art does not teach or render obvious, in the context of the claim, the limitations of displaying, upon detecting the first input, a guide comprising a plurality of direction guides, wherein a center of the guide is positioned at a same position of the first input, and detecting the second input drawing a plurality of lines originating from the first input, based on whether a user input from the first input passes on at least two direction guides of the plurality of direction guides, wherein the plurality of lines comprises at least two different directions.
9. An updated search was conducted, and no prior art was identified that would anticipate or render obvious the current claims.
10. 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

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to GENE W LEE whose telephone number is (571)270-7148. The examiner can normally be reached M-F 9:45am-6:15pm.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, LunYi Lao can be reached on 571-272-7671. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit: 2692

Page 7

/Gene W Lee/
Primary Examiner, Art Unit 2692

<i>Examiner-Initiated Interview Summary</i>	Application No. 16/516,892	Applicant(s) LEE et al.		
	Examiner GENE W LEE	Art Unit 2692	AIA (First Inventor to File) Status Yes	Page 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	Title	Type
GENE W LEE	Primary Examiner	Telephonic
John Gallagher (#47234)	Attorney of Record	

Date of Interview: 29 October 2021

Issues Discussed:

Proposed Amendment(s)

Applicant accepted proposed Examiner Amendment.

/Gene W Lee/ Primary Examiner, Art Unit 2692	
Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04 Please further see: MPEP 713.04 Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b) 37 CFR § 1.2 Business to be transacted in writing	

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.

<i>Notice of References Cited</i>	Application/Control No. 16/516,892	Applicant(s)/Patent Under Reexamination LEE et al.	
	Examiner GENE W LEE	Art Unit 2692	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-9891822-B2	02-2018	Cho; Hyeon Joong	G06F3/0236	1/1
*	B	US-20120019465-A1	01-2012	Chen; Charles L.	G06F3/04883	345/173
*	C	US-9304602-B2	04-2016	Ghassabian; Benjamin Firooz	G06F3/04883	1/1
*	D	US-9584849-B2	02-2017	Choi; Kyung Soon	H04N21/4828	1/1
*	E	US-20140283009-A1	09-2014	HSUEH; Ching-Teng	G06F3/0488	726/18
*	F	US-6094506-A	07-2000	Hullender; Gregory N.	G06K9/6256	382/185
*	G	US-10503376-B2	12-2019	Yang; Hui Chul	G06F3/0488	1/1
*	H	US-20090179867-A1	07-2009	SHIM; Jung-hyun	G06F3/04883	345/173
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

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

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20211029

<i>Search Notes</i> 	Application/Control No. 16/516,892	Applicant(s)/Patent Under Reexamination LEE et al.
	Examiner GENE W LEE	Art Unit 2692

CPC - Searched*		
Symbol	Date	Examiner
G06F3/041-047,0488-04886	10/15/2019; 7/17/2020; 12/25/2020;3/13/2021; 8/15/2021; 10/29/2021	GWL
G06F3/17	12/25/2020;3/13/2021; 8/15/2021; 10/29/2021	GWL
G06F21/31	12/25/2020;3/13/2021; 8/15/2021; 10/29/2021	GWL

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
See EAST; Inventor Search	10/15/2019; 1/25/2020; 7/17/2020; 12/25/2020; 3/13/2021; 8/15/2021; 10/29/2021	GWL

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<i>Search Notes</i> 	Application/Control No. 16/516,892	Applicant(s)/Patent Under Reexamination LEE et al.
	Examiner GENE W LEE	Art Unit 2692

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	See EAST	10/29/2021	GWL

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Issue Classification 	Application/Control No. 16/516,892	Applicant(s)/Patent Under Reexamination LEE et al.
	Examiner GENE W LEE	Art Unit 2692

CPC						
Symbol					Type	Version
G06F	/	3	/	04883	F	2013-01-01
G06F	/	3	/	0488	I	2013-01-01
G06F	/	1	/	1694	I	2013-01-01
G06F	/	21	/	31	I	2013-01-01
G06F	/	3	/	017	I	2013-01-01

CPC Combination Sets							
Symbol				Type	Set	Ranking	Version
	/		/				

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	12	
/Gene W Lee/ Primary Examiner, Art Unit 2692	29 October 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	10	12D

U.S. Patent and Trademark Office

Part of Paper No.: 20211029

Issue Classification 	Application/Control No. 16/516,892	Applicant(s)/Patent Under Reexamination LEE et al.
	Examiner GENE W LEE	Art Unit 2692

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F	/	3	/ 0488
NON-CLAIMED			
/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	12	
/Gene W Lee/ Primary Examiner, Art Unit 2692	29 October 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	10	12D

U.S. Patent and Trademark Office

Part of Paper No.: 20211029

Issue Classification 	Application/Control No. 16/516,892	Applicant(s)/Patent Under Reexamination LEE et al.
	Examiner GENE W LEE	Art Unit 2692

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

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 12	
/Gene W Lee/ Primary Examiner, Art Unit 2692 (Primary Examiner) _____ (Date) 29 October 2021		O.G. Print Claim(s) 10	O.G. Print Figure 12D

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	123,849	G06F3/041-047,0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2021/10/29 16:41
L2	16,445	G06F21/31.cpc.	US-PGPUB; USPAT	ADJ	ON	2021/10/29 16:41
L3	26,697	G06F3/017.cpc.	US-PGPUB; USPAT	ADJ	ON	2021/10/29 16:41
L4	32	(L1 or L2 or L3) and (combination or plurality) near4 direction with gesture and gesture same start with end with direction	US-PGPUB; USPAT	ADJ	ON	2021/10/29 16:41
L5	26	(I1 or I2 or I3) and (touch\$3 or gesture or trace) with direction guide	US-PGPUB; USPAT	ADJ	ON	2021/10/29 16:43
L6	93	(I1 or I2 or I3) and (initial or first or detect\$3 or sens\$3) near4 (touch\$3 or input or gesture or trace) same (touch\$3 or gesture or trace) with guide near4 direction same (display or screen or touchscreen or panel)	US-PGPUB; USPAT	ADJ	ON	2021/10/29 16:43
L8	286	lee.in. jae.in. wook.in.	US-PGPUB; USPAT	ADJ	ON	2021/10/29 16:52
L9	10	cho.in. an.in. ki.in.	US-PGPUB; USPAT	ADJ	ON	2021/10/29 16:52
L10	4	cho.in. jun.in. hyung.in.	US-PGPUB; USPAT	ADJ	ON	2021/10/29 16:52
L11	2	(L8 or L9 or L10) and (gesture same compar\$3 same direction).clm.	US-PGPUB; USPAT	ADJ	ON	2021/10/29 16:52
S1	1	15/056119.app.	US-PGPUB; USPAT	ADJ	ON	2017/10/17 16:52
S2	2	("20140282047" "20150133199").PN.	US-PGPUB; USPAT	ADJ	ON	2017/10/17 16:53

S3	14	("20050212760" "20080046425" "20100162182" "20100328201" "20110316797" "20130159939" "20140137234" "20140176448" "20140191954" "20150227282" "20150324110" "8692764" "8913028" "9063575").PN.	US- PGPUB; USPAT	ADJ	ON	2017/10/17 16:55
S4	2	"8504842".pn. or "9032508".pn.	US- PGPUB; USPAT	ADJ	ON	2017/10/17 17:57
S5	124	("20020032043" "20040034801" "20040155909" "20040204123" "20040212617" "20050111736" "20050212760" "20050212911" "20050253817" "20050274796" "20060075250" "20060129832" "20060174339" "20060206717" "20060233464" "20060242607" "20060267967" "20060288313" "20070150826" "20070150842" "20070177803" "20070268268" "20070273674" "20070283292" "20070288868" "20080094370" "20080137971" "20080191905" "20080220752" "20080287169" "20080310602" "20090003658" "20090040215" "20090061837" "20090064055" "20090094562" "20090164467" "20090174677" "20090207184" "20090265627" "20090265666" "20090288032" "20090289916" "20100001967" "20100099394" "20100127998" "20100146384" "20100146437" "20100159995" "20100162169" "20100162182" "20100227640" "20100248689" "20100257490" "20100262905" "20100269040" "20100306705" "20110087970" "20110163972" "20110271181" "20110279384" "20120036556" "20120054057" "4972496" "4988981" "5252951" "5500937" "5864635" "5923793" "6057845" "6407679" "6493464" "6573883" "6791537" "6983061" "7002560" "7219368" "7315944" "7322524" "7372993" "7484106" "7657849" "7940250" "7953983" "8036433" "8046721" "8402533").PN. OR ("8504842").URPN.	US- PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 17:57

S6	17	S5 and power same off same (gesture or input)	US-PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 17:58
S7	38	S5 and (power or off) with (gesture or input)	US-PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 17:59
S8	13	S5 and (power or off) with (gesture)	US-PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 17:59
S9	4	S5 and (power or off) with (gesture) same unlock\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 18:00
S10	14	("20050212760" "20080046425" "20100162182" "20100328201" "20110316797" "20130159939" "20140137234" "20140176448" "20140191954" "20150227282" "20150324110" "8692764" "8913028" "9063575").PN.	US-PGPUB; USPAT	ADJ	ON	2017/10/17 18:14
S11	10	S10 and unlock\$3	US-PGPUB; USPAT	ADJ	ON	2017/10/17 18:14
S12	16	S5 and gesture same second with (time or threshold)	US-PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 18:22
S13	16	S5 and gesture same second with (time or threshold or duration)	US-PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 18:58
S14	4	S5 and gravity	US-PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 19:02
S15	7	(touch or touchscreen) with gesture with direction with gravity	US-PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 19:03
S16	3	(touch or touchscreen) same gesture with relative with gravity	US-PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 19:06
S17	8	(touch or touchscreen) same gesture with direction with gravity	US-PGPUB;	ADJ	ON	2017/10/17 19:07

			USPAT; USOCR			
S18	135	(touch or touchscreen) same (gesture or touch) with relative with gravit\$7	US- PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 19:09
S19	242	(touch or touchscreen or gesture) with relative with gravit\$7	US- PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 19:10
S20	1	(touch or touchscreen) with gesture with relative with gravit\$7	US- PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 19:10
S21	3	(touch or touchscreen) same gesture with relative with gravit\$7	US- PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 19:10
S22	9	(touch or touchscreen) same gesture with direction with gravit\$7	US- PGPUB; USPAT; USOCR	ADJ	ON	2017/10/17 19:10
S23	28	(touch or touchscreen) same gesture with direction with (minimum or threshold) time	US- PGPUB; USPAT	ADJ	ON	2017/10/18 21:15
S24	118	(touch or touchscreen) same gesture with minimum near4 (time or duration)	US- PGPUB; USPAT	ADJ	ON	2017/10/18 21:45
S25	488	display with (power or activat\$3) with grip	US- PGPUB; USPAT	ADJ	ON	2017/10/18 22:56
S26	128	display with (activat\$3) with grip	US- PGPUB; USPAT	ADJ	ON	2017/10/18 22:56
S27	37	display with (activat\$3) with grip with (detect\$3 or sens\$3)	US- PGPUB; USPAT	ADJ	ON	2017/10/18 22:58
S28	99	display with (power) with grip with (detect\$3 or sens\$3)	US- PGPUB; USPAT	ADJ	ON	2017/10/18 22:58
S29	4	display near4 (activat\$3) with grip with (detect\$3 or sens\$3)	US- PGPUB; USPAT	ADJ	ON	2017/10/18 22:59
S30	36	display with (power) with grip with (detect\$3 or sens\$3) with device	US- PGPUB; USPAT	ADJ	ON	2017/10/18 23:00

S31	11	display with (power) with grip near4 (detect\$3 or sens\$3) with device	US-PGPUB; USPAT	ADJ	ON	2017/10/18 23:02
S32	35	display with (power) with grip near4 (detect\$3 or sens\$3)	US-PGPUB; USPAT	ADJ	ON	2017/10/18 23:02
S33	48,856	G06F3/041-047.cpc.	US-PGPUB; USPAT	ADJ	ON	2017/10/18 23:04
S34	29	(touchscreen or touch) near4 activat\$3 with grip near4 (detect\$3 or sens\$3)	US-PGPUB; USPAT	ADJ	ON	2017/10/18 23:06
S35	15	(touchscreen or touch (screen or sens\$3 or display or panel or pad)) near4 activat\$3 with grip near4 (detect\$3 or sens\$3)	US-PGPUB; USPAT	ADJ	ON	2017/10/18 23:07
S36	34	(touchscreen or touch (screen or sens\$3 or display or panel or pad)) near4 activat\$3 with grip	US-PGPUB; USPAT	ADJ	ON	2017/10/18 23:14
S37	19	S36 not S35	US-PGPUB; USPAT	ADJ	ON	2017/10/18 23:14
S38	28	(touchscreen or touch (screen or sens\$3 or display or panel or pad)) near4 activat\$3 with (hold\$3 or held) near4 (detect\$3 or sens\$3)	US-PGPUB; USPAT	ADJ	ON	2017/10/18 23:16
S39	128	(touchscreen or touch (screen or sens\$3 or display or panel or pad)) near4 activat\$3 with (hold\$3 or held) near4 (housing or device or phone)	US-PGPUB; USPAT	ADJ	ON	2017/10/18 23:52
S40	69	(touchscreen or touch (screen or sens\$3 or display or panel or pad)) near4 activat\$3 with hold\$3 near4 (housing or device or phone)	US-PGPUB; USPAT	ADJ	ON	2017/10/18 23:54
S41	0	(touchscreen or touch (screen or sens\$3 or display or panel or pad)) near4 turn on with (hold\$3 or grip\$4) near4 (housing or device or phone)	US-PGPUB; USPAT	ADJ	ON	2017/10/19 00:02
S42	0	(touchscreen or touch (screen or sens\$3 or display or panel or pad)) near4 turn on with (hold\$3 or grip\$4) near4 (detect\$3 or sens\$3)	US-PGPUB; USPAT	ADJ	ON	2017/10/19 00:03
S43	27	(touchscreen or touch (screen or sens\$3 or display or panel or pad)) near4 turn\$3 with (hold\$3 or grip\$4) near4 (housing or device or phone)	US-PGPUB; USPAT	ADJ	ON	2017/10/19 00:03

S44	15	(touchscreen or touch (screen or sens\$3 or display or panel or pad)) near4 turn\$3 with (hold\$3 or grip\$4) near4 (detect\$3 or sens\$3)	US-PGPUB; USPAT	ADJ	ON	2017/10/19 00:04
S45	3,569	G06F21/36,46.cpc.	US-PGPUB; USPAT	ADJ	ON	2017/10/20 17:23
S46	36,615	G06F3/0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2017/10/20 17:25
S47	227	lee.in. jae.in. wook.in.	US-PGPUB; USPAT	ADJ	ON	2017/10/20 17:27
S48	5	cho.in. an.in. ki.in.	US-PGPUB; USPAT	ADJ	ON	2017/10/20 17:27
S49	2	cho.in. jun.in. hyung.in.	US-PGPUB; USPAT	ADJ	ON	2017/10/20 17:27
S50	8	(S47 or S48 or S49) and (lock\$3 or unlock\$3).clm.	US-PGPUB; USPAT	ADJ	ON	2017/10/20 17:28
S51	1	(S47 or S48 or S49) and (gesture same compar\$3 same direction).clm.	US-PGPUB; USPAT	ADJ	ON	2017/10/20 17:29
S52	14	("20050212760" "20080046425" "20100162182" "20100328201" "20110316797" "20130159939" "20140137234" "20140176448" "20140191954" "20150227282" "20150324110" "8692764" "8913028" "9063575").PN.	US-PGPUB; USPAT	ADJ	ON	2017/10/20 17:41
S53	51,947	G06F3/041-047.cpc.	US-PGPUB; USPAT	ADJ	ON	2018/03/11 22:01
S54	0	S53 and (two or multiple or plurality) adj3 (touchscreen or touch (screen or panel or display)) with gesture with order with combination	US-PGPUB; USPAT	ADJ	ON	2018/03/11 22:01
S55	0	S53 and (two or multiple or plurality) adj3 (touchscreen or touch (screen or panel or display)) same gesture with order with combination	US-PGPUB; USPAT	ADJ	ON	2018/03/11 22:02
S56	0	(two or multiple or plurality) adj3 (touchscreen or touch (screen or panel or display)) same gesture with order with combination	US-PGPUB; USPAT	ADJ	ON	2018/03/11 22:02

S57	97	(two or multiple or plurality) adj3 (touchscreen or touch (screen or panel or display)) same gesture with (order or combination)	US-PGPUB; USPAT	ADJ	ON	2018/03/11 22:03
S58	37	(two or multiple or plurality) adj3 (touchscreen or touch (screen or panel or display)) same gesture with order	US-PGPUB; USPAT	ADJ	ON	2018/03/11 22:03
S59	27	(two or multiple or plurality) adj3 (touchscreen or touch (screen or panel or display)) with gesture with order	US-PGPUB; USPAT	ADJ	ON	2018/03/11 22:03
S60	10	S58 not S59	US-PGPUB; USPAT	ADJ	ON	2018/03/11 22:07
S61	24	(two or multiple or plurality) adj3 (touchscreen or touch (screen or panel or display)) with gesture with combination	US-PGPUB; USPAT	ADJ	ON	2018/03/11 22:08
S62	8	(touchscreen or touch (screen or panel or display)) same (two or multiple or plurality) adj2 (display or panel or screen) with gesture with combination	US-PGPUB; USPAT	ADJ	ON	2018/03/11 22:11
S63	108	(touch\$3 or touchscreen) same gesture with (timeout or time out)	US-PGPUB; USPAT	ADJ	ON	2018/03/12 20:27
S64	908	(two or multiple or plurality) adj3 (touchscreen or touch (screen or panel or display)) with gesture	US-PGPUB; USPAT	ADJ	ON	2018/03/12 21:27
S65	49	(two or multiple or plurality) adj3 (touchscreen or touch (screen or panel or display)) with gesture same (identif\$7 or determin\$5) near3 (touchscreen or touch (screen or panel or display))	US-PGPUB; USPAT	ADJ	ON	2018/03/12 21:29
S66	59	(two or multiple or plurality) adj3 (touchscreen or touch (screen or panel or display)) with gesture same (identif\$7 or determin\$5) near3 (device or screen or panel or display)	US-PGPUB; USPAT	ADJ	ON	2018/03/12 21:38
S67	24	S66 not S65	US-PGPUB; USPAT	ADJ	ON	2018/03/12 21:39
S68	230	lee.in. jae.in. wook.in.	US-PGPUB; USPAT	ADJ	ON	2018/03/12 22:22
S69	5	cho.in. an.in. ki.in.	US-PGPUB; USPAT	ADJ	ON	2018/03/12 22:22

S70	2	cho.in. jun.in. hyung.in.	US-PGPUB; USPAT	ADJ	ON	2018/03/12 22:22
S71	8	(S68 or S69 or S70) and (lock\$3 or unlock\$3).clm.	US-PGPUB; USPAT	ADJ	ON	2018/03/12 22:22
S72	1	(S68 or S69 or S70) and (gesture same compar\$3 same direction).clm.	US-PGPUB; USPAT	ADJ	ON	2018/03/12 22:22
S73	1	("8674900").PN.	US-PGPUB; USPAT	ADJ	ON	2018/06/12 19:49
S74	85,358	G06F3/041-047,0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2018/07/30 14:48
S75	219	S74 and gesture with plurality near3 direction	US-PGPUB; USPAT	ADJ	ON	2018/07/30 14:49
S76	100	S74 and plurality near3 gesture with plurality near3 direction	US-PGPUB; USPAT	ADJ	ON	2018/07/30 14:49
S77	61	("20020168107" "20030048948" "20030059115" "20030064686" "20050100214" "20050271279" "20060017702" "20060050962" "20080049986" "20080111710" "20080192005" "20080260252" "20080284620" "20090100383" "20090208107" "20110041100" "20110229038" "5781663" "5933149" "6334003" "6415256" "6647145" "6681044" "6694056" "7983478").PN. OR ("8327295").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2018/07/30 15:32
S78	240	lee.in. jae.in. wook.in.	US-PGPUB; USPAT	ADJ	ON	2018/08/04 13:07
S79	5	cho.in. an.in. ki.in.	US-PGPUB; USPAT	ADJ	ON	2018/08/04 13:07
S80	2	cho.in. jun.in. hyung.in.	US-PGPUB; USPAT	ADJ	ON	2018/08/04 13:07
S81	8	(S78 or S79 or S80) and (lock\$3 or unlock\$3).clm.	US-PGPUB; USPAT	ADJ	ON	2018/08/04 13:07

S82	1	(S78 or S79 or S80) and ((gesture or line or touch\$3) same compar\$3 same direction).clm.	US-PGPUB; USPAT	ADJ	ON	2018/08/04 13:08
S83	92,925	G06F3/041-047,0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2019/03/08 17:21
S84	3,881	S83 and (touch\$3 or gesture or trace) with guide	US-PGPUB; USPAT	ADJ	ON	2019/03/08 17:21
S85	473	S83 and (touch\$3 or gesture or trace) with guide with direction	US-PGPUB; USPAT	ADJ	ON	2019/03/08 17:21
S86	348	S83 and (touch\$3 or gesture or trace) with guide with direction same (display or screen or touchscreen or panel)	US-PGPUB; USPAT	ADJ	ON	2019/03/08 17:22
S87	54	S83 and (initial or first or detect\$3 or sens\$3) near4 (touch\$3 or input or gesture or trace) same (touch\$3 or gesture or trace) with guide near4 direction same (display or screen or touchscreen or panel)	US-PGPUB; USPAT	ADJ	ON	2019/03/08 17:23
S88	22	S83 and (touch\$3 or gesture or trace) with direction guide	US-PGPUB; USPAT	ADJ	ON	2019/03/08 17:31
S89	465	S83 and (touch\$3 or gesture) with guide with direction	US-PGPUB; USPAT	ADJ	ON	2019/03/08 17:35
S90	400	S89 not (S87 or S88)	US-PGPUB; USPAT	ADJ	ON	2019/03/08 17:56
S91	92,925	G06F3/041-047,0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2019/03/09 18:48
S92	19	S91 and (touch\$3 or gesture) with guide with direction with path	US-PGPUB; USPAT	ADJ	ON	2019/03/09 18:48
S93	134	S91 and (touch\$3 or gesture) with guide with path	US-PGPUB; USPAT	ADJ	ON	2019/03/09 18:49
S94	115	S93 not S92	US-PGPUB; USPAT	ADJ	ON	2019/03/09 18:49
S95	54	S91 and (initial or first or detect\$3 or sens\$3) near4 (touch\$3 or input or gesture or trace) same (touch\$3 or gesture or trace) with guide near4 direction same (display or screen or touchscreen or panel)	US-PGPUB; USPAT	ADJ	ON	2019/03/09 19:10

S96	22	S91 and (touch\$3 or gesture or trace) with direction guide	US-PGPUB; USPAT	ADJ	ON	2019/03/09 19:10
S97	465	S91 and (touch\$3 or gesture) with guide with direction	US-PGPUB; USPAT	ADJ	ON	2019/03/09 19:10
S98	400	S97 not (S95 or S96)	US-PGPUB; USPAT	ADJ	ON	2019/03/09 19:10
S99	373	S98 not S93	US-PGPUB; USPAT	ADJ	ON	2019/03/09 19:10
S100	43	("20010052937" "20020015064" "20040140956" "20050190264" "20050193351" "20060066628" "20060072028" "20060098112" "20060197753" "20070008300" "20070150826" "20070172155" "20070188628" "20070195174" "20070291338" "20080052627" "20080130992" "20080252753" "20090027652" "20090037605" "20090046075" "20090153288" "20090256947" "20100130250" "20100220220" "20100284675" "20110085784" "5270806" "5745116" "5861871" "6310648" "6919927" "7212234" "7522195" "7593603" "7646400" "7777747" "7782384" "7853134" "7954067" "8212780" "8558801").PN. OR ("9250778").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2019/03/09 20:08
S101	2	("20140210754" "9032337").PN.	US-PGPUB; USPAT	ADJ	ON	2019/03/11 17:21
S102	254	lee.in. jae.in. wook.in.	US-PGPUB; USPAT	ADJ	ON	2019/03/11 17:50
S103	7	cho.in. an.in. ki.in.	US-PGPUB; USPAT	ADJ	ON	2019/03/11 17:50
S104	2	cho.in. jun.in. hyung.in.	US-PGPUB; USPAT	ADJ	ON	2019/03/11 17:50
S105	8	(S102 or S103 or S104) and (lock\$3 or unlock\$3).clm.	US-PGPUB; USPAT	ADJ	ON	2019/03/11 17:50

S110	1	(S102 or S103 or S104) and ((gesture or line or touch\$3) same compar\$3 same direction).clm.	US-PGPUB; USPAT	ADJ	ON	2019/03/11 17:51
S113	1	("8327295").PN.	US-PGPUB; USPAT	ADJ	ON	2019/06/24 15:01
S114	0	16/516892.app.	US-PGPUB; USPAT	ADJ	ON	2019/10/13 19:56
S115	100,900	G06F3/041-047,0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:37
S116	193	S115 and (touch\$3 or input or gesture) with eight adj2 direction\$2	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:37
S117	4	S115 and (touch\$3 or input or gesture) with eight adj2 direction\$2 same user near4 select\$4	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:37
S118	0	S115 and (touch\$3 or input or gesture) with eight adj2 direction\$2 and user near4 select\$4 with (touch\$3 or input or gesture) with number adj2 direction\$2	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:38
S119	1	S115 and (touch\$3 or input or gesture) with eight adj2 direction\$2 and user near4 select\$4 with (touch\$3 or input or gesture) with number near4 direction\$2	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:39
S120	1	S115 and (touch\$3 or input or gesture) with eight adj2 direction\$2 and user near4 select\$4 with number near4 direction\$2	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:39
S121	28	S115 and (touch\$3 or input or gesture) with user near4 select\$4 with number near4 direction\$2	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:40
S122	0	(touch\$3 or input or gesture) with eight adj2 direction\$2 and user near4 select\$4 with (touch\$3 or input or gesture) with number adj2 direction\$2	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:42
S123	0	(touch\$3 or input or gesture) with eight adj2 direction\$2 and user near4 select\$4 with number adj2 direction\$2	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:42
S124	57	(touch\$3 or input or gesture) same user near4 select\$4 with number adj2 direction\$2	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:42
S125	40	(touch\$3 or input or gesture) with user near4 select\$4 with number adj2 direction\$2	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:42

S126	34	S125 not S121	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:43
S127	17	S124 not S125	US-PGPUB; USPAT	ADJ	ON	2019/10/13 20:45
S128	100,900	G06F3/041-047,0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2019/10/14 19:25
S129	224	S128 and (touch\$3 or input or gesture) same ("8" or eight) near4 direction\$2 same (four or "4") near4 direction\$2	US-PGPUB; USPAT	ADJ	ON	2019/10/14 19:25
S130	7	S128 and (touch\$3 or input or gesture) same ("8" or eight) near4 direction\$2 same (four or "4") near4 direction\$2 same user near4 select\$4	US-PGPUB; USPAT	ADJ	ON	2019/10/14 19:26
S131	100	S128 and (touch\$3 or input or gesture) with ("8" or eight) near4 direction\$2 with (four or "4") near4 direction\$2	US-PGPUB; USPAT	ADJ	ON	2019/10/14 19:31
S132	33	("20050100214" "20050212760" "20050219211" "20080046425" "20100005428" "20100162182" "20100328201" "20110055753" "20110090155" "20110316797" "20120327009" "20130159939" "20130300687" "20140137234" "20140176448" "20140191954" "20140210754" "20140282047" "20150133199" "20150199125" "20150227282" "20150324110" "20160042172" "8327295" "8504842" "8674900" "8692764" "8913028" "9032337" "9032508" "9063575" "9239646" "9671952").PN.	US-PGPUB; USPAT	ADJ	ON	2019/10/14 21:10
S133	265	lee.in. jae.in. wook.in.	US-PGPUB; USPAT	ADJ	ON	2019/10/15 13:19
S134	8	cho.in. an.in. ki.in.	US-PGPUB; USPAT	ADJ	ON	2019/10/15 13:19
S135	3	cho.in. jun.in. hyung.in.	US-PGPUB; USPAT	ADJ	ON	2019/10/15 13:19
S136	1	(S133 or S134 or S135) and ((gesture or line or touch\$3) same compar\$3 same direction).clm.	US-PGPUB; USPAT	ADJ	ON	2019/10/15 13:19

S137	1	("20120212450").PN.	US-PGPUB; USPAT	ADJ	ON	2020/01/25 16:29
S138	267	lee.in. jae.in. wook.in.	US-PGPUB; USPAT	ADJ	ON	2020/01/25 18:56
S139	9	cho.in. an.in. ki.in.	US-PGPUB; USPAT	ADJ	ON	2020/01/25 18:56
S140	4	cho.in. jun.in. hyung.in.	US-PGPUB; USPAT	ADJ	ON	2020/01/25 18:56
S141	2	(S138 or S139 or S140) and ((gesture or line or touch\$3) same compar\$3 same direction).clm.	US-PGPUB; USPAT	ADJ	ON	2020/01/25 18:56
S142	1	"20140283009".pn.	US-PGPUB; USPAT	ADJ	ON	2020/02/18 18:17
S143	1	"6094506".pn.	US-PGPUB; USPAT	ADJ	ON	2020/04/07 14:19
S144	55,029	G06F3/0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2020/07/16 21:10
S145	7	S144 and gesture same direction with (audio or sound) with feedback	US-PGPUB; USPAT	ADJ	ON	2020/07/16 21:11
S146	110,888	G06F3/041-047,0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2020/07/16 23:00
S147	8	S146 and gesture same direction with (audio or sound) with feedback	US-PGPUB; USPAT	ADJ	ON	2020/07/16 23:00
S148	55,029	G06F3/0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2020/07/16 23:01
S149	89	S148 and gesture same direction same (audio or sound) same feedback	US-PGPUB; USPAT	ADJ	ON	2020/07/16 23:01
S150	1	S148 and gesture same direction same (unique or different) with (audio or sound) same feedback	US-PGPUB; USPAT	ADJ	ON	2020/07/16 23:02
S151	8	S148 and gesture same direction same (unique or different or individual or distinct) with (audio or sound) same feedback	US-PGPUB; USPAT	ADJ	ON	2020/07/16 23:02

S152	14	S148 and gesture same direction with (unique or different or individual or distinct) with (tactile or vibratory or vibrational or vibration or haptic or force) with feedback	US-PGPUB; USPAT	ADJ	ON	2020/07/16 23:03
S153	39	S148 and gesture same direction with (unique or different or individual or distinct) with (sound or audio)	US-PGPUB; USPAT	ADJ	ON	2020/07/16 23:06
S154	270	lee.in. jae.in. wook.in.	US-PGPUB; USPAT	ADJ	ON	2020/07/17 18:33
S155	10	cho.in. an.in. ki.in.	US-PGPUB; USPAT	ADJ	ON	2020/07/17 18:33
S156	4	cho.in. jun.in. hyung.in.	US-PGPUB; USPAT	ADJ	ON	2020/07/17 18:33
S157	2	(S154 or S155 or S156) and ((gesture or line or touch\$3) same compar\$3 same direction).clm.	US-PGPUB; USPAT	ADJ	ON	2020/07/17 18:33
S158	58,596	G06F3/0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2020/12/25 02:43
S159	63,236	G06F3/041-047.cpc.	US-PGPUB; USPAT	ADJ	ON	2020/12/25 02:43
S160	3	(S158 or S159) and audio with direction with feedback with gesture	US-PGPUB; USPAT	ADJ	ON	2020/12/25 02:43
S161	3	(S158 or S159) and (audio or sound) with direction with feedback with gesture	US-PGPUB; USPAT	ADJ	ON	2020/12/25 02:43
S162	253	(S158 or S159) and (audio or sound) with direction with gesture	US-PGPUB; USPAT	ADJ	ON	2020/12/25 02:43
S163	463	(S158 or S159) and (audio or sound) with feedback with (direction or gesture)	US-PGPUB; USPAT	ADJ	ON	2020/12/25 02:44
S164	58,596	G06F3/0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:11
S165	63,236	G06F3/041-047.cpc.	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:11
S166	1,236	(S164 or S165) and (tactile or haptic) with feedback with (direction or gesture)	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:11

S167	37	(S164 or S165) and (tactile or haptic) with feedback with (direction or directional or directionality) with gesture	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:11
S168	15,201	G06F21/31.cpc.	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:38
S169	24,472	G06F3/017.cpc.	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:38
S170	18	(S168 or S169) and (tactile or haptic) with feedback with (direction or directional or directionality) with gesture	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:39
S172	3	(S168 or S169) and gesture same direction with (unique or different or individual or distinct) with (tactile or vibratory or vibrational or vibration or haptic or force) with feedback	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:42
S173	1	(S168 or S169) and gesture same direction same (unique or different or individual or distinct) with (audio or sound) same feedback	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:42
S174	276	lee.in. jae.in. wook.in.	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:44
S175	10	cho.in. an.in. ki.in.	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:44
S176	4	cho.in. jun.in. hyung.in.	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:44
S177	2	(S174 or S175 or S176) and ((gesture or line or touch\$3) same compar\$3 same direction).clm.	US-PGPUB; USPAT	ADJ	ON	2020/12/25 23:44
S178	280	lee.in. jae.in. wook.in.	US-PGPUB; USPAT	ADJ	ON	2021/03/13 00:58
S179	10	cho.in. an.in. ki.in.	US-PGPUB; USPAT	ADJ	ON	2021/03/13 00:58
S180	4	cho.in. jun.in. hyung.in.	US-PGPUB; USPAT	ADJ	ON	2021/03/13 00:58
S181	2	(S178 or S179 or S180) and ((gesture or line or touch\$3) same compar\$3 same direction).clm.	US-PGPUB; USPAT	ADJ	ON	2021/03/13 00:58

S182	116,950	G06F3/041-047,0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2021/03/13 01:00
S183	15,328	G06F21/31.cpc.	US-PGPUB; USPAT	ADJ	ON	2021/03/13 01:00
S184	24,789	G06F3/017.cpc.	US-PGPUB; USPAT	ADJ	ON	2021/03/13 01:00
S185	27	(S182 or S183 or S184) and (combination or plurality) near4 direction with gesture and gesture same start with end with direction	US-PGPUB; USPAT	ADJ	ON	2021/03/13 01:11
S186	189	(S182 or S183 or S184) and (combination or plurality) near4 gesture and gesture same start with end with direction	US-PGPUB; USPAT	ADJ	ON	2021/03/13 01:49
S187	165	S186 not S185	US-PGPUB; USPAT	ADJ	ON	2021/03/13 01:49
S188	142	(S182 or S183 or S184) and (combination or plurality) adj4 gesture and gesture same start with end with direction	US-PGPUB; USPAT	ADJ	ON	2021/03/13 01:50
S189	94	(S182 or S183 or S184) and (combination or plurality) adj4 gesture and gesture with start with end with direction	US-PGPUB; USPAT	ADJ	ON	2021/03/13 01:50
S190	77	S189 not S185	US-PGPUB; USPAT	ADJ	ON	2021/03/13 01:50
S191	284	lee.in. jae.in. wook.in.	US-PGPUB; USPAT	ADJ	ON	2021/08/15 15:39
S192	10	cho.in. an.in. ki.in.	US-PGPUB; USPAT	ADJ	ON	2021/08/15 15:39
S193	4	cho.in. jun.in. hyung.in.	US-PGPUB; USPAT	ADJ	ON	2021/08/15 15:39
S194	2	(S191 or S192 or S193) and ((gesture or line or touch\$3) same compar\$3 same direction).clm.	US-PGPUB; USPAT	ADJ	ON	2021/08/15 15:39
S195	121,725	G06F3/041-047,0488-04886.cpc.	US-PGPUB; USPAT	ADJ	ON	2021/08/15 15:40
S196	16,048	G06F21/31.cpc.	US-PGPUB; USPAT	ADJ	ON	2021/08/15 15:40

S197	26,137	G06F3/017.cpc.	US-PGPUB; USPAT	ADJ	ON	2021/08/15 15:40
S198	32	(S195 or S196 or S197) and (combination or plurality) near4 direction with gesture and gesture same start with end with direction	US-PGPUB; USPAT	ADJ	ON	2021/08/15 15:40

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	22	((touch\$3 or gesture) with guide with (direction or path) same (lock\$4 or unlock\$4)).clm.	US-PGPUB; USPAT	ADJ	ON	2021/10/29 16:51
S111	0	((touch\$3 or gesture) with guide with (direction or path) same (lock\$4 or unlock\$4) same (touchscreen or touch (screen or panel or display))).clm.	US-PGPUB; USPAT	ADJ	ON	2019/03/11 17:53
S112	21	((touch\$3 or gesture) with guide with (direction or path) same (lock\$4 or unlock\$4)).clm.	US-PGPUB; USPAT	ADJ	ON	2019/03/11 17:54

10/29/2021 5:32:06 PM

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