

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 10,562,077 B2
APPLICATION NO. : 16/460770
DATED : February 18, 2020
INVENTOR(S) : Walter G. Mayfield and Daniel Martin Valdez

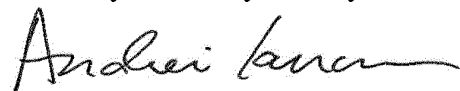
Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims

At Claim 1, Column 22, Line 5, delete “complimentary” and substitute therefor --complementary--

Signed and Sealed this
Twenty-first Day of July, 2020



Andrei Iancu
Director of the United States Patent and Trademark Office

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Mayfield <i>et al.</i>	§ § §	US Patent No. 10,562,077 Issued: February 18, 2020
Application No. 16/460,770	§	Examiner: Anthony M. Haughton
Filed: July 2, 2019	§	Confirmation No.: 9783
For: SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE	§ § § §	Attorney Docket No.: MAYG-1001-USC7

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313.1450

Attn: Certificate of Correction Branch

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT
(37 CFR 1.323)**

Applicants request that a Certificate of Correction be issued for the errors in the above-identified patent set forth on the attached form PTO/SB/44. The errors appear in the Claims and are clerical errors of a minor character on the part of the Applicants. It is certified that the errors occurred in good faith. The corrections do not involve such changes in the patent as would constitute new matter or would require reexamination.

The correction is being made to the following lines:

In the claims, at claim 1, column 22, line 5, delete “complimentary” and substitute therefor
--complementary--

The required fee of \$150.00 for filing a Certificate of Correction is being submitted herewith. The Commissioner is hereby authorized to charge any additional fees associated with any of the papers submitted herewith or to credit any overpayment to Deposit Account No. 50-4920 (MAYG-1001-USC7).

Respectfully submitted,

Dated: June 22, 2020

/Gene L. Tyler/
Gene L. Tyler
Registration No. 35,395
Mossman Kumar & Tyler, PC
P.O. Box 421239
Houston, TX 77242
Telephone: (281) 404-4851
Facsimile: (281) 404-4468

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 10,562,077

APPLICATION NO.: 16/460,770

ISSUE DATE : February 18, 2020

INVENTOR(S) : Walter G. Mayfield; Daniel Martin Valdez

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the claims, at claim 1, column 22, line 5, delete "complimentary" and substitute therefor
--complementary--

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):

Mossman, Kumar, and Tyler, PC
P.O. Box 421239
Houston, Texas 77242

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. 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 1.0 hour 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: Attention Certificate of Corrections Branch, 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.

Electronic Patent Application Fee Transmittal

Application Number:	16460770			
Filing Date:	02-Jul-2019			
Title of Invention:	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE			
First Named Inventor/Applicant Name:	Walter G. Mayfield			
Filer:	Gene Tyler			
Attorney Docket Number:	MAYG-1001-WO-USC7			
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:				
CERTIFICATE OF CORRECTION	1811	1	150	150

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				150

Electronic Acknowledgement Receipt

EFS ID:	39791540
Application Number:	16460770
International Application Number:	
Confirmation Number:	9783
Title of Invention:	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE
First Named Inventor/Applicant Name:	Walter G. Mayfield
Customer Number:	87627
Filer:	Gene Tyler
Filer Authorized By:	
Attorney Docket Number:	MAYG-1001-WO-USC7
Receipt Date:	22-JUN-2020
Filing Date:	02-JUL-2019
Time Stamp:	17:01:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$150
RAM confirmation Number	E20206LH02550649
Deposit Account	
Authorized User	

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

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	US10562077_request_for_COC.pdf	69528	no	2
			4a153b30e85aefb3ebffd25c0848e708ee98c96f		

Warnings:

Information:

2	Request for Certificate of Correction	10562077_COC.pdf	173827	no	2
			6cf0a5c171d336e58c0f329ef2802fae4fad95c46		

Warnings:

Information:

3	Fee Worksheet (SB06)	fee-info.pdf	30272	no	2
			f7157631b53e63e48449d1575126a7a82e7d6090		

Warnings:

Information:

Total Files Size (in bytes):	273627
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

Table with 5 columns: APPLICATION NO., ISSUE DATE, PATENT NO., ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 16/460,770, 02/18/2020, 10562077, MAYG-1001-WO-USC7, 9783

87627 7590 01/29/2020
Mossman, Kumar & Tyler PC
P.O. Box 421239
Houston, TX 77242

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):

Walter G. Mayfield, Houston, TX;
GUI GLOBAL PRODUCTS, LTD., Houston, TX;
Daniel Martin Valdez, Kingwood, TX;

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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), 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)

87627 7590 10/29/2019
 Mossman, Kumar & Tyler PC
 P.O. Box 421239
 Houston, TX 77242

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.

Margaret A. Pruitt-Johns	(Typed or printed name)
/Margaret A. Pruitt-Johns/	(Signature)
January 13, 2020	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/460,770	07/02/2019	Walter G. Mayfield	MAYG-1001-WO-USC7	9783

TITLE OF INVENTION: SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	01/29/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
HAUGHTON, ANTHONY MICHAEL	2835	361-679000

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

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

(A) NAME OF ASSIGNEE: **GUI GLOBAL PRODUCTS, LTD.**

(B) RESIDENCE: (CITY AND STATE OR COUNTRY) **Houston, Texas**

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. **50-4920**

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 /Gene L. Tyler/ Date January 13, 2020

Typed or printed name Gene L. Tyler Registration No. 35,395

Electronic Patent Application Fee Transmittal

Application Number:	16460770			
Filing Date:	02-Jul-2019			
Title of Invention:	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE			
First Named Inventor/Applicant Name:	Walter G. Mayfield			
Filer:	Gene Tyler/Margaret Pruitt-Johns			
Attorney Docket Number:	MAYG-1001-WO-USC7			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

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

Electronic Acknowledgement Receipt

EFS ID:	38279681
Application Number:	16460770
International Application Number:	
Confirmation Number:	9783
Title of Invention:	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE
First Named Inventor/Applicant Name:	Walter G. Mayfield
Customer Number:	87627
Filer:	Gene Tyler/Margaret Pruitt-Johns
Filer Authorized By:	Gene Tyler
Attorney Docket Number:	MAYG-1001-WO-USC7
Receipt Date:	13-JAN-2020
Filing Date:	02-JUL-2019
Time Stamp:	15:42:24
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1000
RAM confirmation Number	E20201CG00572349
Deposit Account	504920
Authorized User	Margaret Pruitt-Johns

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)	MAYG_1001USC7_IssueFee_pt o.pdf	184105 2ac24feab052eb3d7209190f08db413b440 16977	no	1

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30305 a750154325a06a366039d8fd606a0dc1296 370b9	no	2
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Warnings:

Information:

Total Files Size (in bytes):	214410
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
16/460,770 07/02/2019 Walter G. Mayfield MAYG-1001-WO-USC7 9783

87627 7590 01/10/2020
Mossman, Kumar & Tyler PC
P.O. Box 421239
Houston, TX 77242

Table with 1 column: EXAMINER

HAUGHTON, ANTHONY MICHAEL

Table with 2 columns: ART UNIT, PAPER NUMBER

2835

Table with 2 columns: NOTIFICATION DATE, DELIVERY MODE

01/10/2020

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):

docket@mktlaw.com
tthigpen@mktlaw.com

Corrected Notice of Allowability	Application No. 16/460,770	Applicant(s) Mayfield et al.	
	Examiner ANTHONY M HAUGHTON	Art Unit 2835	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 the claim amendments submitted on 10/22/2019.
 - 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 1-13. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
- 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

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

- 1. Certified copies of the priority documents have been received.
- 2. Certified copies of the priority documents have been received in Application No. _____.
- 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

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

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

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

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

Attachment(s)

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

/ANTHONY M HAUGHTON/
Primary Examiner, Art Unit 2835

DETAILED ACTION

Allowable Subject Matter

Claims 1-13 are allowed.

The following is an examiner's statement of reasons for allowance: **Claims 1-13** are considered to be allowable because the prior art of record neither anticipates nor renders obvious the limitations of the base claim 1. **Claim 1** includes a system comprising: a portable switching device coupled to a portable electronic device; wherein: the switching device and the electronic device are configured to selectively couple to each other employing magnetic force from a first magnet disposed within the switching device; the switching device comprises a first case; the electronic device comprises a second case and an electronic circuit that is responsive to the switching device; the portable switching device is configured to activate, deactivate, or send into hibernation the portable electronic device; the switching device plays, pauses and/or changes the volume of a remote device; the lid is recessed to configure to the switching device; and when coupled, the second case functions to protect the first case in combination with all other elements of the base claim. **Claims 2-13** are all dependent upon claim 1 and are considered to be allowable at least for the same reasons as claim 1.

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 ANTHONY MICHAEL HAUGHTON whose telephone number is (571)272-9087. The examiner can normally be reached on M-F 8a-4p.

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, Jinhee Lee can be reached on 571-272-1977. 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.


/ANTHONY M HAUGHTON/
Primary Examiner, Art Unit 2835

Issue Classification 	Application/Control No. 16/460,770	Applicant(s)/Patent Under Reexamination Mayfield et al.
	Examiner ANTHONY M HAUGHTON	Art Unit 2835

CPC						
Symbol				Type	Version	
B08B	/	1	/	006	F	2013-01-01
A45C	/	11	/	00	I	2013-01-01
G06F	/	1	/	32	I	2013-01-01
B08B	/	1	/	002	I	2013-01-01
B08B	/	11	/	04	I	2013-01-01
H04M	/	1	/	21	I	2013-01-01
H04B	/	1	/	3816	A	2013-01-01
H04M	/	1	/	0266	A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
/	/			

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	13	
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	07 January 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	4

Issue Classification 	Application/Control No. 16/460,770	Applicant(s)/Patent Under Reexamination Mayfield et al.
	Examiner ANTHONY M HAUGHTON	Art Unit 2835


INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F	1	16	
H05K	5	00	
H05K	7	00	

NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
361	679.01

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


NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	13	
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	07 January 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	4

Issue Classification 	Application/Control No. 16/460,770	Applicant(s)/Patent Under Reexamination Mayfield et al.
	Examiner ANTHONY M HAUGHTON	Art Unit 2835

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

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	10	10												
2	2	11	11												
3	3	12	12												
4	4	13	13												
5	5														
6	6														
7	7														
8	8														
9	9														

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	13	
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	07 January 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	4

<i>Search Notes</i> 	Application/Control No. 16/460,770	Applicant(s)/Patent Under Reexamination Mayfield et al.
	Examiner ANTHONY M HAUGHTON	Art Unit 2835

CPC - Searched*		
Symbol	Date	Examiner
g06f1/32,16,1601,1603,1605,1607,1609,1611	10/15/2019	AMH
B08B1/006,002	10/15/2019	AMH


CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
361	679.01, 679.02	10/15/2019	AMH

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

Search Notes		
Search Notes	Date	Examiner
EAST SEARCH (SEE SEARCH NOTES)	10/15/2019	AMH
INVENTOR SEARCH	10/15/2019	AMH
CLASSIFICATION SEARCH IN COMBINATION WITH TEXT SEARCH	10/15/2019	AMH
IP.COM SEARCH	10/15/2019	AMH

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	
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<i>Search Notes</i> 	Application/Control No. 16/460,770	Applicant(s)/Patent Under Reexamination Mayfield et al.
	Examiner ANTHONY M HAUGHTON	Art Unit 2835

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	PG-PUB CLAIM TEXT SEARCH	10/15/2019	AMH
361	679.01, 679.02	10/15/2019	AMH
G06F1	32, 16, 1601, 1607	10/15/2019	AMH
B08B1	006, 002	10/15/2019	AMH

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	
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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

87627 7590 10/29/2019
Mossman, Kumar & Tyler PC
P.O. Box 421239
Houston, TX 77242

EXAMINER
HAUGHTON, ANTHONY MICHAEL

ART UNIT PAPER NUMBER

2835

DATE MAILED: 10/29/2019

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
16/460,770 07/02/2019 Walter G. Mayfield MAYG-1001-WO-USC7 9783

TITLE OF INVENTION: SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional UNDISCOUNTED \$1000 \$0.00 \$0.00 \$1000 01/29/2020

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

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)

87627 7590 10/29/2019
 Mossman, Kumar & Tyler PC
 P.O. Box 421239
 Houston, TX 77242

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.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/460,770	07/02/2019	Walter G. Mayfield	MAYG-1001-WO-USC7	9783

TITLE OF INVENTION: SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	01/29/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
HAUGHTON, ANTHONY MICHAEL	2835	361-679000

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

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.

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
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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

87627 7590 10/29/2019
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P.O. Box 421239
Houston, TX 77242

EXAMINER

HAUGHTON, ANTHONY MICHAEL

ART UNIT PAPER NUMBER
2835

DATE MAILED: 10/29/2019

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. 16/460,770	Applicant(s) Mayfield et al.	
	Examiner ANTHONY M HAUGHTON	Art Unit 2835	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 the application submitted on 7/2/2019.
 A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
2. An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
3. The allowed claim(s) is/are 1-11. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) All b) Some *c) None of the:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: ____.

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

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

Attachment(s)

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

/ANTHONY M HAUGHTON/
Primary Examiner, Art Unit 2835

DETAILED ACTION

Allowable Subject Matter

Claims 1-11 are allowed.

The following is an examiner's statement of reasons for allowance: **Claims 1-11** are considered to be allowable because the prior art of record neither anticipates nor renders obvious the limitations of the base claim 1. **Claim 1** includes a system comprising: a portable switching device coupled to a portable electronic device; wherein: the switching device and the electronic device are configured to selectively couple to each other employing magnetic force from a first magnet disposed within the switching device; the switching device comprises a first case; the electronic device comprises a second case and an electronic circuit that is responsive to the switching device; the portable switching device is configured to activate, deactivate, or send into hibernation the portable electronic device; the switching device plays, pauses and/or changes the volume of a remote device; the lid is recessed to configure to the switching device; and when coupled, the second case functions to protect the first case in combination with all other elements of the base claim. **Claims 2-11** are all dependent upon claim 1 and are considered to be allowable at least for the same reasons as claim 1.

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 ANTHONY MICHAEL HAUGHTON whose telephone number is (571)272-9087. The examiner can normally be reached on M-F 8a-4p.

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, Jinhee Lee can be reached on 571-272-1977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/ANTHONY M HAUGHTON/
Primary Examiner, Art Unit 2835

Notice of References Cited	Application/Control No. 16/460,770	Applicant(s)/Patent Under Reexamination Mayfield et al.	
	Examiner ANTHONY M HAUGHTON	Art Unit 2835	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-20050107131-A1	05-2005	Abramov, Igor	H04M1/0258	455/569.1
*	B	US-20050284904-A1	12-2005	Knapp, Christopher J.	A45F5/02	224/269
*	C	US-20080103637-A1	05-2008	Bliven; Robert P.	F16B2/20	701/1
*	D	US-20100011524-A1	01-2010	Roebach; Gerald Oliver	B08B1/00	15/105
*	E	US-20110192857-A1	08-2011	Rothbaum; Wayne Philip	B25F1/00	220/694
	F					
	G					
	H					
	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.

Issue Classification 	Application/Control No. 16/460,770	Applicant(s)/Patent Under Reexamination Mayfield et al.
	Examiner ANTHONY M HAUGHTON	Art Unit 2835

CPC						
Symbol					Type	Version
B08B	/	1	/	006	F	2013-01-01
G06F	/	1	/	32	I	2013-01-01
A45C	/	11	/	00	I	2013-01-01
B08B	/	1	/	002	I	2013-01-01
H04M	/	1	/	21	I	2013-01-01
B08B	/	11	/	04	I	2013-01-01
H04B	/	1	/	3816	A	2013-01-01
H04M	/	1	/	0266	A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
/		/		

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	11	
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	15 October 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	4

Issue Classification 	Application/Control No. 16/460,770	Applicant(s)/Patent Under Reexamination Mayfield et al.
	Examiner ANTHONY M HAUGHTON	Art Unit 2835


INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F	1	16	
H05K	5	00	
H05K	7	00	

NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
361	679.01

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


NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	11	
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	15 October 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	4

Issue Classification 	Application/Control No. 16/460,770	Applicant(s)/Patent Under Reexamination Mayfield et al.
	Examiner ANTHONY M HAUGHTON	Art Unit 2835

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

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	10	10												
2	2	11	11												
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4	4														
5	5														
6	6														
7	7														
8	8														
9	9														

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	11	
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	15 October 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	4

<i>Search Notes</i> 	Application/Control No. 16/460,770	Applicant(s)/Patent Under Reexamination Mayfield et al.
	Examiner ANTHONY M HAUGHTON	Art Unit 2835

CPC - Searched*		
Symbol	Date	Examiner
g06f1/32,16,1601,1603,1605,1607,1609,1611	10/15/2019	AMH
B08B1/006,002	10/15/2019	AMH


CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
361	679.01, 679.02	10/15/2019	AMH

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

Search Notes		
Search Notes	Date	Examiner
EAST SEARCH (SEE SEARCH NOTES)	10/15/2019	AMH
INVENTOR SEARCH	10/15/2019	AMH
CLASSIFICATION SEARCH IN COMBINATION WITH TEXT SEARCH	10/15/2019	AMH
IP.COM SEARCH	10/15/2019	AMH

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	
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<i>Search Notes</i> 	Application/Control No. 16/460,770	Applicant(s)/Patent Under Reexamination Mayfield et al.
	Examiner ANTHONY M HAUGHTON	Art Unit 2835

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	PG-PUB CLAIM TEXT SEARCH	10/15/2019	AMH
361	679.01, 679.02	10/15/2019	AMH
G06F1	32, 16, 1601, 1607	10/15/2019	AMH
B08B1	006, 002	10/15/2019	AMH

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	
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EAST Search History

EAST Search History (Prior Art)

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L2	14999	G06F1/20,203,206.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/15 11:00
L3	13960	G06F1/18-189.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/15 11:00
L4	861	361/679.33-679.39, "679.54", "679"."."46".CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/15 11:01
L5	5402	361/679.33-679.39,679.54,679.46.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/15 11:01
L6	14344	361/679.33-679.39,679.54,679.46,704,707,708,724-727.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/15 11:04
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			USPAT; USOCR			10:30
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S4	25	S1 and (eject\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/19 10:30
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S13	8	((YUUSUKE) near2 (ITOH)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/19 10:56
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S21	166	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/22 12:58
S22	48	S21 and portable	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/22 12:59
S23	29	("20020086703" "20020169001" "20040171346" "20040193765" "20040224638" "20050014536" "4533791" "5528667" "5537343" "6035214" "6049453" "6102476" "6144549" "6231145" "6231371" "6330151" "6388878" "6538880" "6591085" "6626686" "6654251" "6693586" "6760600" "6763252" "6961237" "7110574" "D440542" "D472900" "D495336").PN. OR ("7580254").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/22 13:00
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S28	1300	361/679.01.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/23 17:35
S29	9	((YUUSUKE) near2 (ITOH)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/23 17:35
S30	538	381/361.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/23 17:36
S59	1	"7365966".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:08
S60	1	"7355845".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:08
S61	3	"385352".apn.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:08
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S66	805	361/679.41.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:14
S67	241	S66 and wireless	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:14
S68	105	S66 and (wireless with dock\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:14
S69	24	S68 and (car or automobile)	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:14
S70	17	S64 and (wireless with dock\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:15
S71	1	S70 and (car or automobile)	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:15
S72	21	S68 and (power near connector\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:24
S73	40	S69 S70 S71	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:24
S74	15	S72 not S73	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:24
S75	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:28
S76	165	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:28
S77	432	S75 S76	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:28
S78	239	S77 and (hing\$3 or rotat\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:28
S79	84	S78 and ((laptop or (lap near top) or ((portable or notebook) near computer))	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:28
S80	155	S78 not S79	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:31
S81	36	S80 and (phone or telephone or cell)	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:31
S82	39	S80 and (phone or telephone or cell or cellular)	US-PGPUB; USPAT; USOCR	OR	OFF	2013/10/21 10:31
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S92	17	S90 and (power)	US-PGPUB; USPAT; USOCR	OR	OFF	2013/11/27 17:27
S93	6	S92 and guid\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2013/11/27 17:28
S94	18	(US-20090257177-\$ or US-20110103003-\$ or US-20120092377-\$ or US-20100177476-\$ or US-20130163187-\$ or US-20120250246-\$).did. or (US-6798647-\$ or US-7068499-\$ or US-6309230-\$ or US-6445579-\$ or US-6961237-\$ or US-7618065-\$ or US-7580254-\$ or US-7365966-\$ or US-7355845-\$ or US-7236863-\$ or US-6937468-\$ or US-6856506-\$).did.	US-PGPUB; USPAT	OR	OFF	2013/11/27 23:08
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S98	10	S97 and VESA	US-PGPUB; USPAT; USOCR	OR	OFF	2013/11/27 23:10
S99	18	S97 and water	US-PGPUB; USPAT; USOCR	OR	OFF	2013/11/27 23:13
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S106	56	S96 and (water)	US-PGPUB;	OR	OFF	2013/11/27

			USPAT; USOCR			23:30
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S108	27	S107 not12	US-PGPUB; USPAT; USOCR	OR	OFF	2013/11/27 23:30
S109	6	S107 not S105	US-PGPUB; USPAT; USOCR	OR	OFF	2013/11/27 23:30
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S116	3	("20110062304" "20110279962" "6462942").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/11/28 00:21
S117	2	"20100177476"	US-PGPUB; USPAT; USOCR	OR	OFF	2013/11/28 07:22
S118	1	"7236863".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/11/28 07:22
S119	1	"20100195279"	US-PGPUB;	OR	OFF	2013/11/28

			USPAT; USOCR			07:23
S120	1	"6504710".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/11/28 07:23
S121	1	"7742289".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/11/28 07:23
S122	6	S117 S118 S119 S120 S121	US-PGPUB; USPAT; USOCR	OR	OFF	2013/11/28 07:23
S123	2	"20050231364"	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/01 18:58
S124	1	"5930110".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/01 19:01
S125	1	"8089759".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/01 19:13
S126	1048	361/679.31.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/01 21:15
S127	267	HAUGHTON.XA.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/01 21:15
S128	180	HAUGHTON.XP.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/01 21:15
S129	447	S127 S128	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/01 21:16
S130	27	S126 and S129	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/01 21:16
S131	1	"7742289".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/02 00:18
S132	3	("20110062304" "20110279962" "6462942").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/02 01:25
S133	1436	361/679.21.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/02 01:25
S134	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/02 01:25
S135	180	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/02 01:25
S136	447	S134 S135	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/02 01:25
S137	76	S133 and S136	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/02 01:25
S138	16	S137 and spring	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/02 01:26
S139	4572	361/679.21-679.3.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/02 01:26
S140	148	S136 and S139	US-PGPUB; USPAT;	OR	OFF	2013/12/02 01:26

			USOCR			
S141	3416	361/679.22-679.3.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/02 01:26
S142	130	S136 and S141	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/02 01:27
S143	46	S142 and spring	US-PGPUB; USPAT; USOCR	OR	OFF	2013/12/02 01:27
S144	883	361/679.41.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/06/26 14:44
S145	40	361/679.42.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/06/26 14:44
S146	252	361/679.43.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/06/26 14:44
S147	111	361/679.44.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/06/26 14:44
S148	4569	361/679.01.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/06/26 14:44
S149	3	("20070120752" "20100081473" "6282082").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/06/26 14:45
S150	9	((David) near2 (Reber)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/06/27 09:48
S151	6	((Bryan) near2 (Bell)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/06/27 09:48
S152	4569	361/679.01.ccls.	US-PGPUB; USPAT; USOCR	AND	OFF	2014/06/27 09:52
S153	883	361/679.41.ccls.	US-PGPUB; USPAT; USOCR	AND	OFF	2014/06/27 09:52
S154	40	361/679.42.ccls.	US-PGPUB; USPAT; USOCR	AND	OFF	2014/06/27 09:52
S155	252	361/679.43.ccls.	US-PGPUB; USPAT; USOCR	AND	OFF	2014/06/27 09:52
S156	111	361/679.44.ccls.	US-PGPUB; USPAT; USOCR	AND	OFF	2014/06/27 09:52
S200	1	"8873233".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:00
S201	1	"7580254".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:00
S202	2	S200 S201	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:00
S203	223	361/679.29.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:10
S204	114	S203 and slid\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:10

S205	24	S203 and (slid\$4 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:11
S206	141	("4089045" "4330776" "4415983" "4730186" "4884068" "4885482" "4899137" "4916441" "4926010" "5018076" "5048210" "5103376" "5115374").PN. OR ("5233502").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:21
S207	40	("4672501" "4794381" "4870531" "4939652" "4980678" "5138305" "5138565" "5166893").PN. OR ("5262759").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:21
S208	40	("5144290" "5195213" "5229920" "5262759" "5507072" "5724704" "5745340" "6006243" "6016171" "6128184" "6141208").PN. OR ("6317315").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:23
S209	8	("20020032048" "5637928" "5805415" "6140934" "6268997" "6411502" "6816366").PN. OR ("7119790").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:25
S210	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:27
S211	841	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:27
S212	1108	S210 S211	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:27
S213	337	S212 and (vehicle\$1 or automobile\$1 or car\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:27
S214	14	S213 and (slid\$4 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:28
S215	14	S214 not S205	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:28
S216	23	("20040228077" "20070058329" "20070206349" "20080076347" "20090174658" "20100046149" "20100053878" "20100087232" "6006243" "6158359" "7342777").PN. OR ("8259437").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:34
S217	23	("20040228077" "20070058329" "20070206349" "20080076347" "20090174658" "20100046149" "20100053878" "20100087232" "6006243" "6158359" "7342777").PN. OR ("8259437").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:38
S218	2	"20110199726"	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:39
S219	15	("20010011993" "20020109662" "20040190234" "20080062625" "20110063785" "20110199319" "20120293942" "5062806" "5193069" "5233502" "6512670" "7379292" "7656652").PN. OR ("8422210").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:39
S220	2	"20100039764"	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:40
S221	5	("20070076362" "20080062625" "20080203817" "6421235").PN. OR ("8730669").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:40
S222	9	"20090201637"	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:40
S223	41	("20050011920" "20050103815" "20060113213" "20060163303" "20070199844" "20070201201" "20080192421" "20080273298" "20090009476" "20090009938" "20090046416" "20090107877" "20090107878" "20090141446" "20090185342" "20090190296" "20090225508" "20090225509" "20090236247" "20090284908" "5445266" "5887723" "6167413" "6269948" "6283299" "6763942" "6956614"	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:40

		"6962277" "7265970").PN. OR ("7889496").URPN.				
S224	44	("20020086703" "20020169001" "20040171346" "20040193765" "20040224638" "20050014536" "4533791" "5528667" "5537343" "6035214" "6049453" "6102476" "6144549" "6231145" "6231371" "6330151" "6388878" "6538880" "6591085" "6626686" "6654251" "6693586" "6760600" "6763252" "6961237" "7110574" "D440542" "D472900" "D495336").PN. OR ("7580254").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:43
S225	1368	361/679.41-679.44.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:45
S226	348	S225 and tablet\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:46
S227	4	S226 and (slid\$4 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:50
S228	2	"20150362953"	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:51
S229	2	("20120092822" "8550343").PN. OR ("9568949").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:52
S230	2	"20150055289"	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:57
S231	18	("20110075349" "20130107126" "20140133080" "20140177162" "20150036283" "5619397" "5627727" "7014486" "7381075" "8077454" "8199476" "8325476" "8608123" "8644018" "8654522" "8705231" "9047049").PN. OR ("9256255").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 15:57
S232	96	S226 and (horizontal and vertical)	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:04
S233	2494	G06F1/16.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:13
S234	3574	G06F1/1601.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:13
S235	9347	G06F1/1616.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:13
S236	1139	G06F1/1635.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:13
S237	2751	G06F1/1637.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:13
S238	1026	G06F1/1641.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:13
S239	2353	G06F1/1643.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:13
S240	1666	G06F1/1652.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:13
S241	1278	G06F1/1683.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:14
S242	5598	361/679.21-679.3.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:14

S243	2237	361/679.55.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:14
S244	1034	361/679.56.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:14
S245	8284	345/690.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:14
S246	2214	349/62.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:14
S247	1127	248/917.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:14
S248	9135	(("YAMAZAKI") near3 ("Shunpei")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:15
S249	133	(("ISHIKAWA") near3 ("Jun")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:15
S250	10550	455/575.1-575.9.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:16
S251	4600	312/223.1-223.3.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:16
S252	287	312/334.46.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:18
S253	23062	345/173.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:18
S254	7916	345/174.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:18
S255	763	345/177.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:18
S256	1275	345/531.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:19
S257	597	345/537.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:19
S258	4456	345/589.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:19
S259	933	206/425.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/03/06 16:19
S269	20	(US-20060194619-\$ or US-20060146488-\$ or US-20010003450-\$ or US-20100164837-\$ or US-20110043976-\$).did. or (US-7667962-\$ or US-7558057-\$ or US-7440265-\$ or US-8270159-\$ or US-8035577-\$ or US-7180665-\$ or US-8385055-\$ or US-8369075-\$ or US-7095387-\$ or US-6577496-\$ or US-6377324-\$ or US-6016176-\$ or US-7714801-\$ or US-8605421-\$ or US-8380327-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 20:54
S270	81	(US-20090257177-\$ or US-20110103003-\$ or US-20120092377-\$ or US-20100177476-\$ or US-20130163187-\$ or US-20120250246-\$ or US-20100195279-\$ or US-20110199726-\$ or US-20060113213-\$ or US-20090107878-\$ or US-20150362953-\$ or US-20150277491-\$ or US-20150116925-\$ or US-20150055290-\$ or US-20150055289-\$ or US-20140133080-\$ or US-20150029657-\$ or US-20130107136-\$ or US-20120162891-\$ or US-20010000447-\$ or US-20140376173-\$ or US-20140285963-\$ or US-20110043976-\$ or US-20100164837-\$	US-PGPUB; USPAT	OR	OFF	2017/09/20 20:54

		or US-20060194619-\$ or US-20060146488-\$.did. or (US-20010003450-\$.did. or (US-6798647-\$ or US-7068499-\$ or US-6309230-\$ or US-6445579-\$ or US-6961237-\$ or US-7618065-\$ or US-7580254-\$ or US-7365966-\$ or US-7355845-\$ or US-7236863-\$ or US-6937468-\$ or US-6856506-\$ or US-6504710-\$ or US-8199490-\$ or US-6049813-\$ or US-7742289-\$ or US-7119790-\$ or US-5262759-\$ or US-5233502-\$ or US-9229484-\$ or US-6317315-\$ or US-5796576-\$ or US-5619397-\$ or US-7660103-\$ or US-6816366-\$ or US-7102592-\$.did. or (US-6757551-\$ or US-9451822-\$ or US-9060445-\$ or US-8422210-\$ or US-8730669-\$ or US-8792651-\$ or US-8737053-\$ or US-6231371-\$ or US-9047049-\$ or US-8654522-\$ or US-8644018-\$ or US-8199476-\$ or US-5825617-\$ or US-8605421-\$ or US-8380327-\$ or US-8369075-\$ or US-8270159-\$ or US-8035577-\$ or US-7667962-\$ or US-7558057-\$ or US-7440265-\$ or US-7180665-\$ or US-7095387-\$ or US-6577496-\$ or US-6377324-\$ or US-6016176-\$ or US-7714801-\$.did. or (US-8385055-\$.did.				
S271	267	haughton.xa.	US-PGPUB; USPAT	OR	OFF	2017/09/20 20:55
S272	1019	haughton.xp.	US-PGPUB; USPAT	OR	OFF	2017/09/20 20:55
S273	1286	S271 S272	US-PGPUB; USPAT	OR	OFF	2017/09/20 20:55
S274	37	S273 and (display\$1 near flex\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/20 20:55
S275	2	("20120314400" "20140355195").PN.	US-PGPUB; USPAT	OR	OFF	2017/09/20 21:00
S276	16	S270 and (display\$1 near flex\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/20 21:25
S277	18	S270 and (display\$1 near2 flex\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/20 21:25
S278	170	("3662807" "3748971" "5049862" "5189632" "5467102" "5534888" "5646649" "5734513" "5768812" "5896575" "6047196" "6057814" "6107988" "6259932" "6297945" "6317108" "6331840" "6356443" "6377324").PN. OR ("6577496").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 21:31
S279	80	S278 and (display\$1 near2 flex\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/20 21:32
S280	72	S278 and (display\$1 near flex\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/20 21:32
S281	38	S278 and (display\$1 near fold\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/20 21:33
S282	20	S280 and (display\$1 near fold\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/20 21:33
S283	23	S279 and (display\$1 near fold\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/20 21:33
S284	2	"20140355195"	US-PGPUB; USPAT	OR	OFF	2017/09/20 21:53
S285	20	("20020067339" "20020149571" "20020175836" "20060050169" "20060146488" "20080079656" "20090104949" "20110148797" "20110227822" "20120002360" "20120033354" "20120257368" "20130010405" "6377324" "6577496" "7379128" "7714801" "7834451" "8144453").PN. OR ("9348369").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 21:53
S286	22	("20080140868" "20080232043" "20100067181" "20100120470" "20110279352" "20130109438" "20130114193" "20130205142" "20140042293" "20140198036" "20140320396" "20140380186" "20150382447" "20160062412" "5719799" "6496369" "6510636" "7871319" "8654095" "9213374" "9348369" "9395070").PN. OR ("9720455").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 21:57
S287	10	((("SUN") near3 ("Yanliu")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 22:15
S288	5605	361/679.21-679.3.ccls.	US-PGPUB;	OR	OFF	2017/09/20

			USPAT; USOCR			22:16
S289	1987	G06F1/1652.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 22:16
S290	501	S289 and (display\$1 near fold\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/20 22:16
S291	92	(US-20090257177-\$ or US-20110103003-\$ or US-20120092377-\$ or US-20100177476-\$ or US-20130163187-\$ or US-20120250246-\$ or US-20100195279-\$ or US-20110199726-\$ or US-20060113213-\$ or US-20090107878-\$ or US-20150362953-\$ or US-20150277491-\$ or US-20150116925-\$ or US-20150055290-\$ or US-20150055289-\$ or US-20140133080-\$ or US-20150029657-\$ or US-20130107136-\$ or US-20120162891-\$ or US-20010000447-\$ or US-20140376173-\$ or US-20140285963-\$ or US-20110043976-\$ or US-20100164837-\$ or US-20060194619-\$ or US-20060146488-).did. or (US-20010003450-\$ or US-20140355195-\$ or US-20120314400-\$ or US-20140042293-).did. or (US-6798647-\$ or US-7068499-\$ or US-6309230-\$ or US-6445579-\$ or US-6961237-\$ or US-7618065-\$ or US-7580254-\$ or US-7365966-\$ or US-7355845-\$ or US-7236863-\$ or US-6937468-\$ or US-6856506-\$ or US-6504710-\$ or US-8199490-\$ or US-6049813-\$ or US-7742289-\$ or US-7119790-\$ or US-5262759-\$ or US-5233502-\$ or US-9229484-\$ or US-6317315-\$ or US-5796576-\$ or US-5619397-\$ or US-7660103-\$ or US-6816366-\$ or US-7102592-).did. or (US-6757551-\$ or US-9451822-\$ or US-9060445-\$ or US-8422210-\$ or US-8730669-\$ or US-8792651-\$ or US-8737053-\$ or US-6231371-\$ or US-9047049-\$ or US-8654522-\$ or US-8644018-\$ or US-8199476-\$ or US-5825617-\$ or US-8605421-\$ or US-8380327-\$ or US-8369075-\$ or US-8270159-\$ or US-8035577-\$ or US-7667962-\$ or US-7558057-\$ or US-7440265-\$ or US-7180665-\$ or US-7095387-\$ or US-6577496-\$ or US-6377324-\$ or US-6016176-\$ or US-7714801-).did. or (US-8385055-\$ or US-9760126-\$ or US-9733744-\$ or US-8971031-\$ or US-9557771-\$ or US-9504170-\$ or US-9348450-\$ or US-9013864-\$ or US-9720455-).did.	US-PGPUB; USPAT	OR	OFF	2017/09/20 23:23
S292	47	S291 and spring	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 23:33
S293	45	S291 not S292	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 23:42
S294	12	S293 and wind\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 23:43
S295	12	S293 and wind\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 23:43
S296	33	S293 not S295	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 23:43
S297	1	"9504170".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 23:56
S298	60	("20020067339" "20060026521" "20060029218" "20060034601" "20060050169" "20060107566" "20060146488" "20060197753" "20070097014" "20070117600" "20080158795" "20090103261" "20090137171" "20090256471" "20100026952" "20100207844" "20100246103" "20100315399" "20110086680" "20110210937" "20110241998" "20120127087" "20120218219" "20120262870" "20120307423" "20130037228" "20130083496" "20130180882" "4066855" "4085302" "5483261" "5488204" "5825352" "5835079" "5880411" "5898600" "6107988" "6188391" "6310610" "6323846" "6421235" "6510325" "6577496" "6690387" "6697045" "6803245" "7015894" "7032984" "7034913" "7184064" "7345872" "7446757" "7483723" "7541671" "7565720" "7663607" "7714801"	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 23:56

		"7834451" "8170631" "8873225").PN. OR ("9504170").URPN.				
S299	1	"7180665".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/20 23:56
S300	57	("20010003450" "2350200" "2404257" "2611427" "2862552" "4110003" "5442470" "5982537" "6124851" "6249377" "6311076" "RE26156").PN. OR ("7180665").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/21 00:07
S301	7	S300 and (display\$1 near fold\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/21 00:07
S302	96	(US-20090257177-\$ or US-20110103003-\$ or US-20120092377-\$ or US-20100177476-\$ or US-20130163187-\$ or US-20120250246-\$ or US-20100195279-\$ or US-20110199726-\$ or US-20060113213-\$ or US-20090107878-\$ or US-20150362953-\$ or US-20150277491-\$ or US-20150116925-\$ or US-20150055290-\$ or US-20150055289-\$ or US-20140133080-\$ or US-20150029657-\$ or US-20130107136-\$ or US-20120162891-\$ or US-20010000447-\$ or US-20140376173-\$ or US-20140285963-\$ or US-20110043976-\$ or US-20100164837-\$ or US-20060194619-\$ or US-20060146488-\$.did. or (US-20010003450-\$ or US-20140355195-\$ or US-20120314400-\$ or US-20140042293-\$ or US-20130037228-\$ or US-20100246103-\$ or US-20060107566-\$.did. or (US-6798647-\$ or US-7068499-\$ or US-6309230-\$ or US-6445579-\$ or US-6961237-\$ or US-7618065-\$ or US-7580254-\$ or US-7365966-\$ or US-7355845-\$ or US-7236863-\$ or US-6937468-\$ or US-6856506-\$ or US-6504710-\$ or US-8199490-\$ or US-6049813-\$ or US-7742289-\$ or US-7119790-\$ or US-5262759-\$ or US-5233502-\$ or US-9229484-\$ or US-6317315-\$ or US-5796576-\$ or US-5619397-\$ or US-7660103-\$ or US-6816366-\$ or US-7102592-\$.did. or (US-6757551-\$ or US-9451822-\$ or US-9060445-\$ or US-8422210-\$ or US-8730669-\$ or US-8792651-\$ or US-8737053-\$ or US-6231371-\$ or US-9047049-\$ or US-8654522-\$ or US-8644018-\$ or US-8199476-\$ or US-5825617-\$ or US-8605421-\$ or US-8380327-\$ or US-8369075-\$ or US-8270159-\$ or US-8035577-\$ or US-7667962-\$ or US-7558057-\$ or US-7440265-\$ or US-7180665-\$ or US-7095387-\$ or US-6577496-\$ or US-6377324-\$ or US-6016176-\$ or US-7714801-\$.did. or (US-8385055-\$ or US-9760126-\$ or US-9733744-\$ or US-8971031-\$ or US-9557771-\$ or US-9504170-\$ or US-9348450-\$ or US-9013864-\$ or US-9720455-\$ or US-8873225-\$.did.	US-PGPUB; USPAT	OR	OFF	2017/09/21 00:08
S303	16	S302 and (display\$1 near fold\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/21 00:08
S304	27	S302 and (display\$1 near3 fold\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/21 00:08
S305	44	S302 and (display\$1 near3 (fold\$4 or rotat\$4 or hing\$4))	US-PGPUB; USPAT	OR	OFF	2017/09/21 00:08
S306	25	S305 and (display\$1 near flex\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/21 00:09
S307	9	S306 and tension\$3	US-PGPUB; USPAT	OR	OFF	2017/09/21 00:09
S308	4	S307 and spring\$1	US-PGPUB; USPAT	OR	OFF	2017/09/21 00:09
S309	1	S308 and wind\$3	US-PGPUB; USPAT	OR	OFF	2017/09/21 00:09
S310	7	S307 and roll\$3	US-PGPUB; USPAT	OR	OFF	2017/09/21 00:13
S311	2	S307 not S310	US-PGPUB; USPAT	OR	OFF	2017/09/21 00:20
S312	5	("9504170" "7180665" "9013864" "20130037228" "8369075").pn.	US-PGPUB; USPAT	OR	OFF	2017/09/21 00:24
S313	20	("20010043188" "20060146488" "4919259" "6016176" "6380921").PN. OR ("8873225").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/21 01:19
S314	49	("20060146488" "20090262079" "20100164837" "6016176" "6377324" "6577496" "7440265" "7558057" "7667962" "8035577" "8369075" "8385055").PN. OR ("8605421").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/21 01:24
S315	1	"6016176".pn.	US-PGPUB;	OR	OFF	2017/09/21

			USPAT; USOCR			01:25
S316	71	("5905550").PN. OR ("6016176").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/21 01:25
S317	25	("20020187818" "20030215582" "20040052044" "20040109076" "20040116167" "20040145653" "20040174452" "20060146514" "3792921" "4493542" "5436686" "5796854" "5903706" "6016176" "6459857" "6671462" "7184086").PN. OR ("7808550").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/21 01:43
S318	1993	G06F1/1652.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/21 01:52
S319	1599	S318 and (display\$1 near flex\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/21 01:53
S320	455	S319 and (display\$1 near fold\$4)	US-PGPUB; USPAT	OR	OFF	2017/09/21 01:53
S321	1037	S319 and (display\$1 near3 (fold\$4 or rotat\$4 or hing\$4))	US-PGPUB; USPAT	OR	OFF	2017/09/21 01:54
S322	10546	455/575.1-575.9.ccls.	US-PGPUB; USPAT	OR	OFF	2017/09/21 01:54
S323	7	S320 and S322	US-PGPUB; USPAT	OR	OFF	2017/09/21 01:54
S324	20	S321 and S322	US-PGPUB; USPAT	OR	OFF	2017/09/21 01:54
S325	20	S323 S324	US-PGPUB; USPAT	OR	OFF	2017/09/21 01:54
S326	224	S320 and hing\$3	US-PGPUB; USPAT	OR	OFF	2017/09/21 01:58
S327	2	("20130328792" "8787016").PN.	US-PGPUB; USPAT	OR	OFF	2017/09/21 02:01
S328	2	"20140213324"	US-PGPUB; USPAT	OR	OFF	2017/09/21 02:10
S329	7	("20040244146" "20070019804" "20100275413" "20110179864" "20130010405").PN. OR ("9294597").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/21 02:11
S330	1	"20040074082"	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/29 23:59
S331	1	"8807488".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/29 23:59
S332	109	(US-20090257177-\$ or US-20110103003-\$ or US-20120092377-\$ or US-20100177476-\$ or US-20130163187-\$ or US-20120250246-\$ or US-20100195279-\$ or US-20110199726-\$ or US-20060113213-\$ or US-20090107878-\$ or US-20150362953-\$ or US-20150277491-\$ or US-20150116925-\$ or US-20150055290-\$ or US-20150055289-\$ or US-20140133080-\$ or US-20150029657-\$ or US-20130107136-\$ or US-20120162891-\$ or US-20010000447-\$ or US-20140376173-\$ or US-20140285963-\$ or US-20110043976-\$ or US-20100164837-\$ or US-20060194619-\$ or US-20060146488-).did. or (US- 20010003450-\$ or US-20140355195-\$ or US-20120314400-\$ or US-20140042293-\$ or US-20130037228-\$ or US-20100246103-\$ or US-20060107566-\$ or US-20170169741-\$ or US-20140213324- \$).did. or (US-6798647-\$ or US-7068499-\$ or US-6309230-\$ or US-6445579-\$ or US-6961237-\$ or US-7618065-\$ or US-7580254-\$ or US-7365966-\$ or US-7355845-\$ or US-7236863-\$ or US- 6937468-\$ or US-6856506-\$ or US-6504710-\$ or US-8199490-\$ or US-6049813-\$ or US-7742289-\$ or US-7119790-\$ or US-5262759-\$ or US-5233502-\$ or US-9229484-\$ or US-6317315-\$ or US- 5796576-\$ or US-5619397-\$ or US-7660103-\$ or US-6816366-\$ or US-7102592-).did. or (US-6757551-\$ or US-9451822-\$ or US- 9060445-\$ or US-8422210-\$ or US-8730669-\$ or US-8792651-\$ or US-8737053-\$ or US-6231371-\$ or US-9047049-\$ or US-8654522-\$ or US-8644018-\$ or US-8199476-\$ or US-5825617-\$ or US-	US-PGPUB; USPAT	OR	OFF	2017/09/29 23:59

		8605421-\$ or US-8380327-\$ or US-8369075-\$ or US-8270159-\$ or US-8035577-\$ or US-7667962-\$ or US-7558057-\$ or US-7440265-\$ or US-7180665-\$ or US-7095387-\$ or US-6577496-\$ or US-6377324-\$ or US-6016176-\$ or US-7714801-\$).did. or (US-8385055-\$ or US-9760126-\$ or US-9733744-\$ or US-8971031-\$ or US-9557771-\$ or US-9504170-\$ or US-9348450-\$ or US-9013864-\$ or US-9720455-\$ or US-8873225-\$ or US-8947868-\$ or US-9176535-\$ or US-8867200-\$ or US-8379377-\$ or US-8662731-\$ or US-8493726-\$ or US-8300416-\$ or US-7808550-\$ or US-8842425-\$ or US-9294597-\$ or US-9603271-\$).did.				
S333	2	S330 S331	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/29 23:59
S334	0	S332 and S333	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/29 23:59
S335	2	"20110085301"	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/30 02:06
S336	2	"20120106081"	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/30 02:06
S337	4	S335 S336	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/30 02:06
S338	109	(US-20090257177-\$ or US-20110103003-\$ or US-20120092377-\$ or US-20100177476-\$ or US-20130163187-\$ or US-20120250246-\$ or US-20100195279-\$ or US-20110199726-\$ or US-20060113213-\$ or US-20090107878-\$ or US-20150362953-\$ or US-20150277491-\$ or US-20150116925-\$ or US-20150055290-\$ or US-20150055289-\$ or US-20140133080-\$ or US-20150029657-\$ or US-20130107136-\$ or US-20120162891-\$ or US-20010000447-\$ or US-20140376173-\$ or US-20140285963-\$ or US-20110043976-\$ or US-20100164837-\$ or US-20060194619-\$ or US-20060146488-\$).did. or (US-20010003450-\$ or US-20140355195-\$ or US-20120314400-\$ or US-20140042293-\$ or US-20130037228-\$ or US-20100246103-\$ or US-20060107566-\$ or US-20170169741-\$ or US-20140213324-\$).did. or (US-6798647-\$ or US-7068499-\$ or US-6309230-\$ or US-6445579-\$ or US-6961237-\$ or US-7618065-\$ or US-7580254-\$ or US-7365966-\$ or US-7355845-\$ or US-7236863-\$ or US-6937468-\$ or US-6856506-\$ or US-6504710-\$ or US-8199490-\$ or US-6049813-\$ or US-7742289-\$ or US-7119790-\$ or US-5262759-\$ or US-5233502-\$ or US-9229484-\$ or US-6317315-\$ or US-5796576-\$ or US-5619397-\$ or US-7660103-\$ or US-6816366-\$ or US-7102592-\$).did. or (US-6757551-\$ or US-9451822-\$ or US-9060445-\$ or US-8422210-\$ or US-8730669-\$ or US-8792651-\$ or US-8737053-\$ or US-6231371-\$ or US-9047049-\$ or US-8654522-\$ or US-8644018-\$ or US-8199476-\$ or US-5825617-\$ or US-8605421-\$ or US-8380327-\$ or US-8369075-\$ or US-8270159-\$ or US-8035577-\$ or US-7667962-\$ or US-7558057-\$ or US-7440265-\$ or US-7180665-\$ or US-7095387-\$ or US-6577496-\$ or US-6377324-\$ or US-6016176-\$ or US-7714801-\$).did. or (US-8385055-\$ or US-9760126-\$ or US-9733744-\$ or US-8971031-\$ or US-9557771-\$ or US-9504170-\$ or US-9348450-\$ or US-9013864-\$ or US-9720455-\$ or US-8873225-\$ or US-8947868-\$ or US-9176535-\$ or US-8867200-\$ or US-8379377-\$ or US-8662731-\$ or US-8493726-\$ or US-8300416-\$ or US-7808550-\$ or US-8842425-\$ or US-9294597-\$ or US-9603271-\$).did.	US-PGPUB; USPAT	OR	OFF	2017/09/30 02:06
S339	0	S337 and S338	US-PGPUB; USPAT; USOCR	OR	OFF	2017/09/30 02:06
S340	109	(US-20090257177-\$ or US-20110103003-\$ or US-20120092377-\$ or US-20100177476-\$ or US-20130163187-\$ or US-20120250246-\$ or US-20100195279-\$ or US-20110199726-\$ or US-20060113213-\$ or US-20090107878-\$ or US-20150362953-\$ or US-20150277491-\$ or US-20150116925-\$ or US-20150055290-\$ or US-20150055289-\$ or US-20140133080-\$ or US-20150029657-\$ or US-20130107136-\$ or US-20120162891-\$ or US-20010000447-\$ or US-20140376173-\$ or US-20140285963-\$ or US-20110043976-\$ or US-20100164837-\$	US-PGPUB; USPAT	OR	OFF	2018/05/18 13:24

		or US-20060194619-\$ or US-20060146488-\$.did. or (US-20010003450-\$ or US-20140355195-\$ or US-20120314400-\$ or US-20140042293-\$ or US-20130037228-\$ or US-20100246103-\$ or US-20060107566-\$ or US-20170169741-\$ or US-20140213324-\$.did. or (US-6798647-\$ or US-7068499-\$ or US-6309230-\$ or US-6445579-\$ or US-6961237-\$ or US-7618065-\$ or US-7580254-\$ or US-7365966-\$ or US-7355845-\$ or US-7236863-\$ or US-6937468-\$ or US-6856506-\$ or US-6504710-\$ or US-8199490-\$ or US-6049813-\$ or US-7742289-\$ or US-7119790-\$ or US-5262759-\$ or US-5233502-\$ or US-9229484-\$ or US-6317315-\$ or US-5796576-\$ or US-5619397-\$ or US-7660103-\$ or US-6816366-\$ or US-7102592-\$.did. or (US-6757551-\$ or US-9451822-\$ or US-9060445-\$ or US-8422210-\$ or US-8730669-\$ or US-8792651-\$ or US-8737053-\$ or US-6231371-\$ or US-9047049-\$ or US-8654522-\$ or US-8644018-\$ or US-8199476-\$ or US-5825617-\$ or US-8605421-\$ or US-8380327-\$ or US-8369075-\$ or US-8270159-\$ or US-8035577-\$ or US-7667962-\$ or US-7558057-\$ or US-7440265-\$ or US-7180665-\$ or US-7095387-\$ or US-6577496-\$ or US-6377324-\$ or US-6016176-\$ or US-7714801-\$.did. or (US-8385055-\$ or US-9760126-\$ or US-9733744-\$ or US-8971031-\$ or US-9557771-\$ or US-9504170-\$ or US-9348450-\$ or US-9013864-\$ or US-9720455-\$ or US-8873225-\$ or US-8947868-\$ or US-9176535-\$ or US-8867200-\$ or US-8379377-\$ or US-8662731-\$ or US-8493726-\$ or US-8300416-\$ or US-7808550-\$ or US-8842425-\$ or US-9294597-\$ or US-9603271-\$.did.				
S341	33	S340 and wind\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 13:24
S342	1	"9013864".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 13:26
S343	1	"7558057".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 13:43
S344	2	"20060194619"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 13:43
S345	2	"20060107566"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 13:43
S346	5	S343 S344 S345	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 13:43
S347	1	"20120243718"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 13:50
S348	1	"20170118850"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 13:50
S349	2	S347 S348	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 13:50
S350	5	("20120243718" "20150286253" "20150378391" "20170118850" "5627727").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:10
S351	2	"20150286253"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:11
S352	1	"20170118850"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:12
S353	5	("20040070633" "20070146307" "20110227822" "20130169515" "7249324").PN. OR ("9513669").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:12
S354	3	("2017/0118850").URPN.	USPAT	OR	OFF	2018/05/18 14:12

S355	3	("20060250764" "20130107137" "20160249471").PN.	US-PGPUB; USPAT	OR	OFF	2018/05/18 14:14
S356	1	"20160249471"	USPAT	OR	OFF	2018/05/18 14:14
S357	0	("2016/0249471").URPN.	USPAT	OR	OFF	2018/05/18 14:14
S358	0	("20130155655" "20130207946" "20140118910").PN.	USPAT	OR	OFF	2018/05/18 14:15
S359	3	("20130155655" "20130207946" "20140118910").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:15
S360	2	"20140118910"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:16
S361	6	("20080303782" "20100188422" "20120281367" "20140004906" "20150009635" "9116662").PN. OR ("9746701").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:16
S362	2	"20130207946"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:16
S363	16	("20020084891" "20060213281" "20080018631" "20080055831" "20080216585" "20100188422" "20110007042" "20110095975" "20110095999" "20110115887" "20110187681" "20110273906" "20120235894" "4601514" "5174526").PN. OR ("9390642").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:17
S364	21	S361 S363	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:17
S365	2	"20130155655"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:17
S366	53	("20020003591" "20020071066" "20030174259" "20050088839" "20050180098" "20050184631" "20050194913" "20050258726" "20050264985" "20060038745" "20060044746" "20060133017" "20070085961" "20070127198" "20070195221" "20080204621" "20080212270" "20090059563" "20090086119" "20090096965" "20090161048" "20090201443" "20100059647" "20100073593" "20100195040" "20110084898" "20110096262" "20110116219" "20110140995" "20110155868" "20110222220" "20110249425" "20120281367" "20120320509" "20130044411" "20130107159" "20130114193" "20130114196" "20130128544" "20130265765" "20130329162" "20130329422" "20140226266" "5020765" "6332690" "6364260" "7542286" "7551432" "7567436" "7791279" "D497166").PN. OR ("9711752").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:17
S367	3947	G06F1/1601.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:26
S368	926	361/679.04-679.07.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:26
S369	100	S367 and (curved near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:27
S370	100	S369 and (curved near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:27
S371	3	S368 and (curved near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:27
S372	3	S368 and (curv\$3 near display)	US-PGPUB;	OR	OFF	2018/05/18

			USPAT; USOCR			14:27
S373	104	S367 and (curv\$3 near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:27
S374	3	S368 and (curv\$4 near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:27
S375	104	S367 and (curv\$4 near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:28
S376	11	S375 and (groove near3 (curv\$3 or arc\$3 or concave or convex))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:28
S377	2901	G06F1/16.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:29
S378	33	S377 and (curved near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:29
S379	676	G06F1/1607.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:29
S380	2	S379 and (curved near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:29
S381	33	S377 and (curv\$4 near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:29
S382	2	S379 and (curv\$4 near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:30
S383	0	S381 and (groove near3 (curv\$3 or arc\$3 or concave or convex))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:30
S384	31	S377 and (groove near3 (curv\$3 or arc\$3 or concave or convex))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:30
S385	863	"419" and (groove near3 (curv\$3 or arc\$3 or concave or convex))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:30
S386	14	S379 and (groove near3 (curv\$3 or arc\$3 or concave or convex))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:30
S387	24	S384 and display\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:30
S388	10	S386 and display\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:30
S389	8067	(curv\$4 near display)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:33
S390	101	S389 and (groove near3 (curv\$3 or arc\$3 or concave or convex))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:33
S391	4	S390 and (dock\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:33
S392	1439	361/679.41-679.45.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:34
S393	1	S392 and (curv\$4 near display)	US-PGPUB; USPAT;	OR	OFF	2018/05/18 14:34

			USOCR			
S394	9	S392 and (groove near3 (curv\$3 or arc\$3 or concave or convex))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:34
S395	9	("1681586" "20040052037" "20040061683" "20110084183" "20130170126" "20130242483" "6762929" "D741835").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:37
S396	4	("20110188189" "20130335929" "20140009914" "20150286253").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:37
S397	13	S395 S396	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:37
S398	1	"20040052037"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/18 14:43
S399	18	("2004/0052037").URPN.	USPAT	OR	OFF	2018/05/18 14:43
S400	20352	(H05k7/2\$).cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 09:33
S401	66239	(H05k7/2\$).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/24 09:33
S402	17523	S400 and (high frequency line converter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/24 09:33
S403	1	S400 and (high frequency line converter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2018/05/24 09:33
S404	547	S400 and (high frequency line converter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2018/05/24 09:34
S405	555	S401 and (high frequency line converter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2018/05/24 09:34
S406	2	S401 and (high frequency line converter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2018/05/24 09:34
S407	2	"8638549".pn.	US-PGPUB; USPAT; USOCR;	ADJ	OFF	2018/05/24 11:31

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S408	6	"20060107566"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2018/05/24 11:45
S409	2	"20060107566"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2018/05/24 11:45
S410	1	"9504170".pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2018/05/24 13:21
S411	1	"9013864".pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2018/05/24 13:21
S412	0	S410 S411	US-PGPUB; USPAT; USOCR	ADJ	OFF	2018/05/24 13:21
S413	2	S410 S411	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 13:22
S414	2	"20060107566"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2018/05/24 13:22
S415	4	S410 S411 S414	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 13:22
S416	2	"20120264489"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 13:44
S417	1	"9557771".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 13:44
S418	3	S416 S417	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 13:44
S419	1	"20040052037"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:00
S420	8	("20130328741" "20130329359" "20130329450" "7582500" "8138869" "8143983" "8223489" "8638549").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:20
S421	0	S420 and (diffusion near bond\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:21
S422	0	S420 and (diffusion\$1 near bond\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:21
S423	0	S420 and (diffusion\$1 near weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:23
S424	1	S420 and (weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:23
S425	3	("20130255875" "20130329396" "8797721").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:25
S426	3	S425 and (weld\$3)	US-PGPUB; USPAT;	OR	OFF	2018/05/24 14:25

			USOCR			
S427	0	S425 and (diffusion\$1 near bond\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:26
S428	0	S425 and (diffusion\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:26
S429	0	S420 and (diffusion\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:26
S430	0	S420 and (diffusion\$1 near (bond\$3 or weld\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:26
S431	18372	(diffusion\$1 near (bond\$3 or weld\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:26
S432	40	S431 and ((electronic near device) with (laptop or (lap near top) or (portable near computer) or clamshell or (clam near shell) or (notebook near computer)))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:27
S433	1	S432 and magnet\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:28
S434	10	S432 and magnet\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:28
S435	30	S432 not S434	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:30
S436	29	S432 and metal\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:32
S437	10	S434 and S436	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:32
S438	19	S436 not S434	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:32
S439	0	S420 and brazing	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:34
S440	0	S425 and brazing	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:34
S441	183	((electronic near device) with (laptop or (lap near top) or (portable near computer) or clamshell or (clam near shell) or (notebook near computer))) and brazing	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:34
S442	0	((electronic near device) with (laptop or (lap near top) or (portable near computer) or clamshell or (clam near shell) or (notebook near computer))) and (brazing near2 magnet\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:34
S443	0	((electronic near device) with (laptop or (lap near top) or (portable near computer) or clamshell or (clam near shell) or (notebook near computer))) and (brazing near3 magnet\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:34
S444	54	((electronic near device) with (laptop or (lap near top) or (portable near computer) or clamshell or (clam near shell) or (notebook near computer))) and (brazing near3 metal\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:35
S445	53	S441 and magnet\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:35
S446	4	S444 and magnet\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:35
S447	49	S445 not S446	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:35

S448	48	S447 not S432	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:35
S449	2	S420 and solder	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:44
S450	2	S449 and magnet\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:44
S451	1	"7583500".pn..PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:45
S452	3	S450 S451	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/24 14:45
S453	1910	361/679.27.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:00
S454	2240	361/679.55.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:00
S455	9898	g06f1/1616.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:00
S456	3307	g06f1/203.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:00
S457	1150	361/679.54.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:00
S458	20	S453 and S457	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:00
S459	77	S454 and S457	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:00
S460	93	S458 S459	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:00
S461	383	S455 and S456	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:00
S462	10	(("20100053885") or ("7746631") or ("5880929") or ("5718282") or ("6392883") or ("5646822") or ("20030086477") or ("7017433") or ("20060116846") or ("7300203")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:02
S463	10	S462 and (heat\$3 or temp or temperature\$1 or exchang\$3 or dissipat\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:02
S464	93	S460 and (heat\$3 or temp or temperature\$1 or exchang\$3 or dissipat\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:02
S465	342	S461 and (heat\$3 or temp or temperature\$1 or exchang\$3 or dissipat\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:03
S466	1	S464 and graphene	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:06
S467	1	S465 and graphene	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:06
S468	2	S466 S467	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:06

S469	11	S464 and vapor	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:09
S470	18	S465 and vapor	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:09
S471	27	S469 S470	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:09
S472	32	S464 and spread\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:30
S473	96	S465 and spread\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:30
S474	118	S472 S473	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:30
S475	105	S474 not S471	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:30
S476	59	S475 and ((thermal or heat) near2 spread\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 00:31
S477	48	("4551787" "4712158" "5513070" "5588483" "5606341" "5621613" "5634351" "5646822" "5764483" "5781409" "5822187" "5847925" "5966286").PN. OR ("6097597").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:07
S478	2	"20050111183"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:14
S479	175	("20020012231" "20020087901" "20020087903" "20020141152" "20030043544" "20030062149" "20030075311" "20030109967" "20030120960" "20030178178" "20030209343" "20040045749" "20040095721" "20040123977" "20040128101" "20040182099" "20040223299" "20040246247" "20050172650" "3394736" "3456319" "4063823" "4084213" "4171015" "4302793" "4350026" "4498851" "4688147" "4694659" "4765395" "4780062" "4834619" "4881376" "4923000" "4966226" "4976117" "4980848" "5008582" "5021679" "5095404" "5104626" "5119215" "5146354" "5153535" "5161389" "5247374" "5255109" "5255351" "5255526" "5263537" "5285351" "5294831" "5304846" "5307003" "5311402" "5313362" "5325265" "5329993" "5331508" "5383340" "5394936" "5396775" "5441576" "5456081" "5463879" "5477706" "5502582" "5552960" "5556377" "5606341" "5612852" "5613523" "5627412" "5641424" "5646820" "5704212" "5718282" "5724818" "5742341" "5752011" "5763951" "5774331" "5781409" "5822187" "5832987" "5847925" "5855119" "5910883" "5914856" "5966286" "5969939" "5974557" "6008986" "6028768" "6038128" "6043978" "6058009" "6082623" "6105662" "6109039" "6111749" "6118654" "6123145" "6133631" "6134104" "6134667" "6141214" "6155073" "6181554" "6181555" "6191943" "6216235" "6226178" "6252769" "6255622" "6263689" "6269865" "6275945").PN. OR ("6288895" "6288896" "6304450" "6310436" "6316872" "6338257" "6347034" "6349553" "6357515" "6397931" "6397932" "6397935" "6408937" "6415612" "6432320" "6441874" "6447692" "6453378" "6463396" "6487668" "6493440" "6501654" "6504720" "6510052" "6525935" "6529377" "6535266" "6535798" "6567269" "6588497" "6595006" "6606251" "6611425" "6625028" "6629425" "6631077" "6650542" "6657121" "6669451" "6727824" "6729383" "6729480" "6746212" "6795311" "6819566" "6900990" "6903929").PN. OR ("7269005").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:14
S480	70	("4962416" "5069274" "5111874" "5168919" "5179043" "5205348" "5383340" "5646822" "5646824" "5704416"	US-PGPUB; USPAT;	OR	OFF	2018/05/25 01:21

		"5769154" "5899265" "5947183" "6097597" "6164368" "6167948" "6269865").PN. OR ("6474074").URPN.	USOCR			
S481	148	(US-20090257177-\$ or US-20110103003-\$ or US-20120092377-\$ or US-20100177476-\$ or US-20130163187-\$ or US-20120250246-\$ or US-20100195279-\$ or US-20110199726-\$ or US-20060113213-\$ or US-20090107878-\$ or US-20150362953-\$ or US-20150277491-\$ or US-20150116925-\$ or US-20150055290-\$ or US-20150055289-\$ or US-20140133080-\$ or US-20150029657-\$ or US-20130107136-\$ or US-20120162891-\$ or US-20010000447-\$ or US-20140376173-\$ or US-20140285963-\$ or US-20110043976-\$ or US-20100164837-\$ or US-20060194619-\$ or US-20060146488-\$).did. or (US-20010003450-\$ or US-20140355195-\$ or US-20120314400-\$ or US-20140042293-\$ or US-20130037228-\$ or US-20100246103-\$ or US-20060107566-\$ or US-20170169741-\$ or US-20140213324-\$ or US-20090091881-\$ or US-20060117623-\$ or US-20140333831-\$ or US-20150192958-\$ or US-20150124401-\$ or US-20140352926-\$ or US-20160341486-\$ or US-20160236445-\$ or US-20180103557-\$ or US-20100053885-\$ or US-20150092343-\$ or US-20050111183-\$ or US-20020075643-\$ or US-20010046119-\$).did. or (US-6798647-\$ or US-7068499-\$ or US-6309230-\$ or US-6445579-\$ or US-6961237-\$ or US-7618065-\$ or US-7580254-\$ or US-7365966-\$ or US-7355845-\$ or US-7236863-\$ or US-6937468-\$ or US-6856506-\$ or US-6504710-\$ or US-8199490-\$ or US-6049813-\$ or US-7742289-\$ or US-7119790-\$ or US-5262759-\$ or US-5233502-\$ or US-9229484-\$ or US-6317315-\$ or US-5796576-\$ or US-5619397-\$ or US-7660103-\$ or US-6816366-\$ or US-7102592-\$).did. or (US-6757551-\$ or US-9451822-\$ or US-9060445-\$ or US-8422210-\$ or US-8730669-\$ or US-8792651-\$ or US-8737053-\$ or US-6231371-\$ or US-9047049-\$ or US-8654522-\$ or US-8644018-\$ or US-8199476-\$ or US-5825617-\$ or US-8605421-\$ or US-8380327-\$ or US-8369075-\$ or US-8270159-\$ or US-8035577-\$ or US-7667962-\$ or US-7558057-\$ or US-7440265-\$ or US-7180665-\$ or US-7095387-\$ or US-6577496-\$ or US-6377324-\$ or US-6016176-\$ or US-7714801-\$).did. or (US-8385055-\$ or US-9760126-\$ or US-9733744-\$ or US-8971031-\$ or US-9557771-\$ or US-9504170-\$ or US-9348450-\$ or US-9013864-\$ or US-9720455-\$ or US-8873225-\$ or US-8947868-\$ or US-9176535-\$ or US-8867200-\$ or US-8379377-\$ or US-8662731-\$ or US-8493726-\$ or US-8300416-\$ or US-7808550-\$ or US-8842425-\$ or US-9294597-\$ or US-9603271-\$ or US-7551432-\$ or US-9760117-\$ or US-6392883-\$ or US-5880929-\$ or US-5646822-\$ or US-6447945-\$).did. or (US-6097597-\$ or US-6069791-\$ or US-8405975-\$ or US-7086452-\$ or US-6816371-\$ or US-6324055-\$ or US-6266241-\$ or US-6078499-\$ or US-6031716-\$ or US-5910883-\$ or US-6987668-\$ or US-6833992-\$ or US-6474074-\$ or US-7552759-\$ or US-5383340-\$ or US-6377454-\$ or US-5847925-\$ or US-5634351-\$ or US-5606341-\$).did.	US-PGPUB; USPAT	OR	OFF	2018/05/25 01:39
S482	1	S481 and graphene	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:39
S483	384	S479 S480 S481	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:40
S484	460	S476 S477 S483	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:40
S485	514	S474 S475 S484	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:40
S486	3	S485 and graphene	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:40
S487	424	S462 S464 S465	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:41
S488	2	S487 and graphene	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:41

S489	813	g06f1/1618.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:44
S490	235	S489 and (dual near2 display\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:45
S491	14	S490 and gpu	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:45
S492	3	S491 and port\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 01:45
S493	1	"6822635".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 13:04
S494	1	"8081433".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 13:04
S495	2	S493 S494	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/25 13:04
S496	1	"8333355".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 00:13
S497	2	"20060238967"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 00:14
S498	3	S496 S497	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 00:14
S499	92	("0496739" "1839309" "20020020329" "20020080921" "20040010328" "20040195471" "20040203379" "20040211343" "20050017842" "20050088814" "20050268825" "20050268826" "20060061185" "20070131835" "2065952" "3896744" "3908565" "4046419" "4062156" "4456212" "4619208" "4651652" "4667605" "4711184" "4714025" "4747353" "4793197" "4844387" "4920458" "5022327" "5056278" "5088421" "5101736" "5174223" "5224429" "5234187" "5243921" "5259326" "5282593" "5285733" "5289782" "5319248" "5405117" "5450800" "5475624" "5495811" "5537127" "5579033" "5765910" "5857415" "6194853" "6264146" "6343006" "6422399" "6505780" "6644745" "6665600" "6675082" "6685033" "6741920" "6748797" "6814410" "6827409" "6831993" "6923502" "6956735" "6964370" "7100052" "7198241" "7316378").PN. OR ("7878476").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 00:22
S500	62	("3909525" "4725106" "4920458" "5134390").PN. OR ("5537127").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 00:30
S501	57	S500 not S499	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 00:31
S502	1	("20110198460").PN.	US-PGPUB; USPAT	OR	OFF	2018/05/26 00:39
S503	1	"20090034181"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:02
S504	11	("20060044766" "20080144293" "3170092" "5745338" "6424525" "6473294" "6751048" "7005996" "7043647" "7196900").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:13
S505	10	("20030002204" "20040228087" "20060146581" "20060203433" "20070015288" "6421215" "6463495" "6498716" "6882530" "7043647").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:13
S506	20	S504 S505	US-PGPUB; USPAT;	OR	OFF	2018/05/26 01:19

			USOCR			
S507	14	S506 and cabl\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:19
S508	12	S507 and rail	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:19
S509	13	S507 and rail\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:19
S510	11	S509 and slid\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:20
S511	12	("20160266611" "7440265" "7558057" "7667962" "8380327" "8385059" "8605421" "8654519" "8724297" "9558685" "9760129" "9848502").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:25
S512	5	S511 and slid\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:25
S513	0	S512 and rail\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:26
S514	1	S511 and rail\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:26
S515	0	S514 and cabl\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:26
S516	2	S511 and cabl\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:26
S517	2	S512 and cabl\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:26
S518	2	S516 S517	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:26
S519	9	("20020181197" "20030002261" "20090034181" "20100172087" "20130077900" "20140204537" "9232678" "9681576" "9832912").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:27
S520	9	S519 and slid\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:27
S521	9	S520 and rail\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:27
S522	6	S521 and cabl\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 01:27
S523	7	("20140146486" "20140192455" "4772999" "5563493" "7304852" "7388348" "6844865").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 10:47
S524	53	("4542903" "4884068" "4920458" "5122941" "5128662" "5161028" "5467102" "5523769" "5537127" "5612741" "5654776" "5673170" "5687939" "5890603" "6061104" "6222507" "6295038" "6343006" "D391251" "D408029" "D409597").PN. OR ("6844865").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:15
S525	2	"20140192455"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:17
S526	12	("20060092611" "20090015190" "20110194249" "20110261506" "20120087051" "20140160686" "4772999" "7724503" "8223476" "8659881" "8908354" "9042112").PN. OR ("9318882").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:17

S527	2	S526 and (caster\$1 or wheel\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:17
S528	2	S526 and (caster\$1 or wheel\$1 or roller\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:17
S529	16	("20040223301" "20050036248" "2885502" "3229058" "4482936" "4772999" "5481075" "6687970" "7023712" "7486499").PN. OR ("7724503").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:18
S530	7	S529 and (caster\$1 or wheel\$1 or roller\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:18
S531	19	("3288956" "3440371" "3474201" "4002864" "4002865" "4017698" "7019229").PN. OR ("7486499").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:24
S532	14	S531 and (caster\$1 or wheel\$1 or roller\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:26
S533	16	("20040223301" "20050036248" "2885502" "3229058" "4482936" "4772999" "5481075" "6687970" "7023712" "7486499").PN. OR ("7724503").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:27
S534	7	S533 and (caster\$1 or wheel\$1 or roller\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:27
S535	7	S530 S534	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:27
S536	12	("20040029617" "20070115616" "20140146486" "20140192455" "4772999" "4994940" "5563493" "5748464" "7304852" "7388348" "7511451" "8681479").PN.	US-PGPUB; USPAT	OR	OFF	2018/05/26 11:28
S537	2	"20140160686"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:38
S538	227	("20020035853" "20020105793" "20020155302" "20020157199" "20030024274" "20030057183" "20030077453" "20030234771" "20040051944" "20040119701" "20040137828" "20040142118" "20040163414" "20050058423" "20050105071" "20050135724" "20050193772" "20050245165" "20050259438" "20050285991" "20060026521" "20060055936" "20060063351" "20060070694" "20060097991" "20060197753" "20060227331" "20060238695" "20060250559" "20060268528" "20060292822" "20070003796" "20070013822" "20070029519" "20070030436" "20070039353" "20070046200" "20070063876" "20070089827" "20070122542" "20070132737" "20070196578" "20070236618" "20080026260" "20080074028" "20080094716" "20080135175" "20080158181" "20080202167" "20080230177" "20080243321" "20080261057" "20080264176" "20080286548" "20090046240" "20090067141" "20090091551" "20090096937" "20090153729" "20090162703" "20090197048" "20090202808" "20090220761" "20090257189" "20090294420" "20090324899" "20090324939" "20100009154" "20100028607" "20100035038" "20100053632" "20100062284" "20100119846" "20100137031" "20100154992" "20100167059" "20100171920" "20100179044" "20100206008" "20100215862" "20100216514" "20100224767" "20100265188" "20100279067" "20100285275" "20100296027" "20100315570" "20100321305" "20110003619" "20110012873" "20110019123" "20110019354" "20110030209" "20110063550" "20110067447" "20110072856" "20110102346" "20110159321" "20110164372" "20110182084" "20110186345" "20110188846" "20110199687" "20110248152" "20110255000")	US-PGPUB; USPAT	OR	OFF	2018/05/26 11:44

		"20110255250" "20110267833" "20110279383" "20110300908" "20120018323" "20120020002" "20120027399" "20120069517" "20120099113" "20120105400" "20120118628" "20120135195" "20120136259" "20120151760" "20120188743" "20120196071" "20120202040" "20120236477" "20120236526" "20120281381" "20120328843" "20130071601" "20130083506" "20130182259" "20130213565" "20140176779" "20150077624" "20150331444" "3415637" "3441398" "3467508" "3498773" "3558415" "3607172" "3619240" "3626723" "3652244" "3753840" "3798013" "3843472" "3857689" "3951707" "4015045" "4119760" "4156755" "4165228" "4178082" "4212919" "4346601" "4353649" "4425810" "4646722" "4733973" "4842629" "4844724" "4846868" "4849002" "4872896" "4911743" "4937129" "4957364" "4959548" "4983197" "4986130" "5041173" "5104435" "5129934" "5157746" "5160523" "5254149" "5269888" "5281303" "5369267" "5411563" "5437193" "5445871" "5483261" "5488204" "5525138" "5625154" "5654057" "5725625" "5733622" "5766493" "5780371" "5816225" "5825352" "5826601" "5835079" "5880411" "5930047" "5953094" "5985014" "6050870" "6114039" "6120908" "6166915" "6188391" "6245313" "6287674" "6307590" "6310610" "6323846" "6325704" "6327011" "6350664" "6393180" "6429840" "6437867" "6516634" "6521862" "6621542" "6690387" "6718612" "6769274" "6810688" "6936741" "6955971" "6996324" "7012700" "7013709" "7015894").PN.				
S539	21	("7070837" "7166531" "7184064" "7461564" "7558054" "7626807" "7663607" "7810355" "7872644" "7918019" "8013834" "8110268" "8111248" "8312743" "8393175" "8551283" "8611077" "8673163" "8684613" "8824140" "9125298").PN.	US-PGPUB; USPAT	OR	OFF	2018/05/26 11:44
S540	2	"20120020002"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:46
S541	4	("20120020002" "20120069517" "8551283" "8611077").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:47
S542	3	("20150077624" "20150331444" "9125298").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:47
S543	7	S541 S542	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:47
S544	72	("20040042168" "20050083308" "20050286214" "20060132644" "20060158839" "20070025072" "20070173299" "20080131683" "20080146293" "20080239647" "20080266766" "20080316117" "20090002930" "20090046072" "20090046240" "20090059485" "20090059502" "20090065136" "20090245564" "20090257207" "20100091442" "20100120480" "20100149410" "20100190530" "20100203924" "20110096483" "20110164365" "20110187245" "20110188180" "20110215685" "20120113611" "20120118628" "20120275088" "4403224" "4995941" "6058293" "6229993" "6266685" "6796708" "6876543" "6965789" "7236588" "7636244" "7697281" "7711256" "7872861" "7933123" "8004835" "D606539").PN. OR ("8551283").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/26 11:50
S545	2	"20140160686"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 11:31
S546	1	"20040029617"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:02
S547	3	S545 S546	US-PGPUB; USPAT;	OR	OFF	2018/05/27 12:02

			USOCR			
S548	1	"7724503".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:02
S549	2	"20140104759"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:04
S550	3	S546 S549	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:04
S551	1474	h05k5/0217.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:25
S552	1509	h05k5/0247.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:25
S553	503	h05k5/0234.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:25
S554	210	h02m7/42.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:25
S555	3749	h05k7/02,14,1401,1438,18,183,186.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:26
S556	675	361/601-603.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:26
S557	3	((("BIALEK") near3 ("THOMAS") near3 ("OWEN"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:26
S558	2	"20050111183"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:28
S559	2	"20170063102"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:28
S560	2	"20140101576"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:28
S561	6	S558 S559 S560	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:28
S562	834	((("NORTH") near3 ("Travis")) OR (("TORRES") near3 ("Christopher")) OR (("MORRISON") near3 ("John"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/05/27 12:29
S563	22544	G06F1/20,203,206,1616.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:32
S564	6013	361/679.26,679.27,679.46,679.47,679.52,679.53,679.54.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/27 12:32
S565	6440	G06F1/16,1601.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:00
S566	2745	h05k5/0017.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:00
S567	314	a47b81/061,062,064,065.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:00
S568	5194	361/679.55,679.56,679.02,679.04.ccls.	US-PGPUB;	OR	OFF	2018/05/28

			USPAT; USOCR			02:00
S569	3006	248/917-924.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:00
S570	8986	S565 S566 S567	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:00
S571	7951	S568 S569	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:00
S572	826	S570 and (wall near mount\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:02
S573	521	S571 and (wall near mount\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:02
S574	476	S572 and (adjust\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:02
S575	349	S573 and (adjust\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:02
S576	17	S574 and (horizontal\$2 near4 guid\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:03
S577	10	S575 and (horizontal\$2 near4 guid\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:03
S578	24	S576 S577	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:03
S579	33	((("BRANDT") near3 ("Jamie")) OR (("SCHUH") near3 ("Mathew"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/05/28 02:03
S580	4545	361/679.26,679.27,679.55.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:08
S581	3486	g06f1/16,1633.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:08
S582	7816	361/679.21-679.3,679.55,679.56.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:08
S583	0	S581 and (magnet\$1 near3 solder\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:09
S584	0	S582 and (magnet\$1 near3 solder\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:09
S585	1	S582 and (magnet\$1 near5 solder\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:09
S586	0	S581 and (magnet\$1 near5 solder\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:09
S587	328	S581 and ((hous\$3 or cas\$3 or enclosure or chassis) near2 (rotat\$4 or pivot\$4))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:10
S588	1404	S582 and ((hous\$3 or cas\$3 or enclosure or chassis) near2 (rotat\$4 or pivot\$4))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:10

S589	4	S587 and ((diffusion near bond\$3) or braz\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:11
S590	5	S588 and ((diffusion near bond\$3) or braz\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:11
S591	9	S589 S590	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:11
S592	4	S591 and solder\$	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:11
S593	21447	g06f1/1616,1618,162,1622,1624,1628,163,1633,169,1643.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:15
S594	13044	g06f1/20,203,206.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:15
S595	12966	361/679.4-679.44,679.37,679.21- 679.3,679.55,679.56,692,679.48,679.51.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:16
S596	191	((("OSBORNE") near3 ("Steven")) OR ((("GIDDINGS") near3 ("Joss")) OR ((("GARELLI") near3 ("Adam")) OR ((("LEGGETT") near3 ("William")) OR ((("MONTPLAISIR") near3 ("Sarah")) OR ((("CORRIVEAU") near3 ("Eric")) OR ((("EWING") near3 ("Tyler")))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/05/28 02:16
S597	33935	S593 S594	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:16
S598	17	S597 and (figure near eight)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:16
S599	8	S595 and (figure near eight)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:17
S600	0	S597 and ((first and second) near3 subchannels)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:17
S601	0	S595 and ((first and second) near3 subchannels)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:17
S602	4072170	S597 ad display	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:18
S603	24039	S597 and display	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:18
S604	8539	S595 and display	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:18
S605	7	S603 and (front near channel)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:18
S606	9	S604 and (front near channel)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:18
S607	14	S605 S606	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:19
S608	1	S607 and (center near channel)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:19
S609	22	S603 and (center near channel)	US-PGPUB; USPAT;	OR	OFF	2018/05/28 02:19

			USOCR			
S610	13	S604 and (center near channel)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:19
S611	32	S609 S610	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:19
S612	0	S611 and subchannels	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:19
S613	17384	g06f1/1652,1626,1622,1681.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:20
S614	7816	361/679.21-679.3,679.55,679.56.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:20
S615	10560	455/575.1-575.9.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:20
S616	5974	349/56-60.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:20
S617	23359	S614 S615 S616	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:21
S618	3705	S613 and ((first and second) near3 (hous\$3 or cas\$3 or enclosure\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:22
S619	5272	S617 and ((first and second) near3 (hous\$3 or cas\$3 or enclosure\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:22
S620	2975	S618 and (hing\$4 or pivot\$4 or rotat\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:22
S621	3831	S619 and (hing\$4 or pivot\$4 or rotat\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:22
S622	763	S620 and ((flex\$4 or roll\$4 or bend\$4) near3 display\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:23
S623	252	S621 and ((flex\$4 or roll\$4 or bend\$4) near3 display\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:23
S624	619	S622 and coupl\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:25
S625	187	S623 and coupl\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:25
S626	31	S624 and ((plural\$3 or multiple\$1) near3 link\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:25
S627	5	S625 and ((plural\$3 or multiple\$1) near3 link\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:25
S628	56011	((plural\$3 or multiple\$1) near3 link\$4).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:26
S629	34	S626 S627	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:27
S630	34	S626 S627	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:27

S631	462505	"129" "130"	US-PGPUB; USPAT; USOCR	AND	OFF	2018/05/28 02:28
S632	744	((("TURCHIN") near3 ("Kevin")) OR (("PELISSIER") near3 ("Gerald")) OR (("MORRISON") near3 ("John"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/05/28 02:29
S633	29244	g06f1/1616,1637,1679,1681,1626,1632,1654,1669,1662,1618.cpc.	US-PGPUB; USPAT; USOCR	AND	OFF	2018/05/28 02:31
S634	75	e05b65/0067.cpc.	US-PGPUB; USPAT; USOCR	AND	OFF	2018/05/28 02:31
S635	10636	361/679.27,679.29,679.3,679.32-679.39,679.55,679.56,679.57,679.58.ccls.	US-PGPUB; USPAT; USOCR	AND	OFF	2018/05/28 02:32
S636	552	"150151"	US-PGPUB; USPAT; USOCR	AND	OFF	2018/05/28 02:32
S637	50	S633 S634	US-PGPUB; USPAT; USOCR	AND	OFF	2018/05/28 02:32
S638	29269	S633 S634	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:32
S639	3407	S635 and ((display\$4) and (input\$4))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:33
S640	18882	S638 and ((display\$4) and (input\$4))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:33
S641	495	S639 and socket\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:33
S642	2095	S640 and socket\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:34
S643	469	S641 and (coupl\$3 or latch\$3 or lock\$3 or attach\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:34
S644	2000	S642 and (coupl\$3 or latch\$3 or lock\$3 or attach\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:34
S645	361	S643 and (rotat\$4 or hing\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:34
S646	1432	S644 and (rotat\$4 or hing\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:34
S647	107	S645 and dock\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:34
S648	544	S646 and dock\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:34
S649	5	S647 and ((first and second) near3 (operat\$3 near portion))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:35
S650	0	S648 and ((first and second) near3 (operat\$3 near portion))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:35
S651	3	S646 and ((first and second) near3 (operat\$3 near portion))	US-PGPUB; USPAT;	OR	OFF	2018/05/28 02:35

			USOCR			
S652	19	S645 and ((first and second) near3 (operat\$3 near portion))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:35
S653	3	S644 and ((first and second) near3 (operat\$3 near portion))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:35
S654	19	S643 and ((first and second) near3 (operat\$3 near portion))	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:36
S655	1828515	(rotat\$4 or hing\$4 or pivot\$4).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:36
S656	369065	((display\$4) and (input\$4)).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/28 02:37
S744	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 07:22
S745	1328	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 07:23
S746	1595	S744 S745	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 07:23
S747	17	S746 and (ultrasonic near weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 07:23
S748	3	S746 and (ultrasonic near weld\$3).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 07:23
S749	14	("20100270052" "20130255875" "20130328741" "20130329359" "20130329396" "20130329450" "20140049911" "7582500" "7583500" "8138869" "8143983" "8223489" "8638549" "8797721").PN. OR ("10120409").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 07:23
S750	1	S749 and (ultrasonic\$4 near weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 07:24
S751	18	S746 and (ultrasonic\$4 near weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 07:33
S752	0	S751 not S746	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 07:33
S753	1	S751 not S747	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 07:33
S754	18	("20040018767" "20050041404" "20060067066" "20070134473" "20100099276" "3629787" "4695258" "4850883" "5920465" "6093054" "6690185" "6785144" "6835071" "7292459" "7371978" "7405867" "7525816").PN. OR ("8923003").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 07:33
S755	18	("20040018767" "20050041404" "20060067066" "20070134473" "20100099276" "3629787" "4695258" "4850883" "5920465" "6093054" "6690185" "6785144" "6835071" "7292459" "7371978" "7405867" "7525816").PN. OR ("8923003").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 08:58
S756	0	S755 and (ultrasonic\$4 near weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 08:58
S757	169	(US-20090257177-\$ or US-20110103003-\$ or US-20120092377-\$ or US-20100177476-\$ or US-20130163187-\$ or US-20120250246-\$ or US-20100195279-\$ or US-20110199726-\$ or US-20060113213-\$	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 08:59

		or US-20090107878-\$ or US-20150362953-\$ or US-20150277491-\$ or US-20150116925-\$ or US-20150055290-\$ or US-20150055289-\$ or US-20140133080-\$ or US-20150029657-\$ or US-20130107136-\$ or US-20120162891-\$ or US-20010000447-\$ or US-20140376173-\$ or US-20140285963-\$ or US-20110043976-\$ or US-20100164837-\$ or US-20060194619-\$ or US-20060146488-\$.did. or (US-20010003450-\$ or US-20140355195-\$ or US-20120314400-\$ or US-20140042293-\$ or US-20130037228-\$ or US-20100246103-\$ or US-20060107566-\$ or US-20170169741-\$ or US-20140213324-\$ or US-20090091881-\$ or US-20060117623-\$ or US-20140333831-\$ or US-20150192958-\$ or US-20150124401-\$ or US-20140352926-\$ or US-20160341486-\$ or US-20160236445-\$ or US-20180103557-\$ or US-20100053885-\$ or US-20150092343-\$ or US-20050111183-\$ or US-20020075643-\$ or US-20010046119-\$ or US-20140101576-\$ or US-20110198460-\$ or US-20040029617-\$ or US-20120118628-\$.did. or (US-20110188180-\$ or US-20090002930-\$.did. or (US-6798647-\$ or US-7068499-\$ or US-6309230-\$ or US-6445579-\$ or US-6961237-\$ or US-7618065-\$ or US-7580254-\$ or US-7365966-\$ or US-7355845-\$ or US-7236863-\$ or US-6937468-\$ or US-6856506-\$ or US-6504710-\$ or US-8199490-\$ or US-6049813-\$ or US-7742289-\$ or US-7119790-\$ or US-5262759-\$ or US-5233502-\$ or US-9229484-\$ or US-6317315-\$ or US-5796576-\$ or US-5619397-\$ or US-7660103-\$ or US-6816366-\$ or US-7102592-\$.did. or (US-6757551-\$ or US-9451822-\$ or US-9060445-\$ or US-8422210-\$ or US-8730669-\$ or US-8792651-\$ or US-8737053-\$ or US-6231371-\$ or US-9047049-\$ or US-8654522-\$ or US-8644018-\$ or US-8199476-\$ or US-5825617-\$ or US-8605421-\$ or US-8380327-\$ or US-8369075-\$ or US-8270159-\$ or US-8035577-\$ or US-7667962-\$ or US-7558057-\$ or US-7440265-\$ or US-7180665-\$ or US-7095387-\$ or US-6577496-\$ or US-6377324-\$ or US-6016176-\$ or US-7714801-\$.did. or (US-8385055-\$ or US-9760126-\$ or US-9733744-\$ or US-8971031-\$ or US-9557771-\$ or US-9504170-\$ or US-9348450-\$ or US-9013864-\$ or US-9720455-\$ or US-8873225-\$ or US-8947868-\$ or US-9176535-\$ or US-8867200-\$ or US-8379377-\$ or US-8662731-\$ or US-8493726-\$ or US-8300416-\$ or US-7808550-\$ or US-8842425-\$ or US-9294597-\$ or US-9603271-\$ or US-7551432-\$ or US-9760117-\$ or US-6392883-\$ or US-5880929-\$ or US-5646822-\$ or US-6447945-\$.did. or (US-6097597-\$ or US-6069791-\$ or US-8405975-\$ or US-7086452-\$ or US-6816371-\$ or US-6324055-\$ or US-6266241-\$ or US-6078499-\$ or US-6031716-\$ or US-5910883-\$ or US-6987668-\$ or US-6833992-\$ or US-6474074-\$ or US-7552759-\$ or US-5383340-\$ or US-6377454-\$ or US-5847925-\$ or US-5634351-\$ or US-5606341-\$ or US-8893628-\$ or US-8596599-\$ or US-5537127-\$ or US-8665583-\$ or US-RE42091-\$ or US-7878476-\$ or US-6844865-\$ or US-7724503-\$.did. or (US-9318882-\$ or US-9203217-\$ or US-7486499-\$ or US-5481075-\$ or US-8551283-\$.did. or (US-3229058-\$ or US-2885502-\$.did.				
S758	0	S757 and (ultrasonic\$4 near weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:00
S759	0	S757 and (ultrasonic\$4 near4 weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:01
S760	1769	(snap\$4 near fit\$4) near4 (ultrasonic\$4 near weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:02
S761	1621	S760 and (hous\$3 or cas\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:02
S762	42	S761 and toe	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:02
S763	1325	(snap near fit) near4 (ultrasonic\$4 near weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:06
S764	886	(snap near fit) near2 (ultrasonic\$4 near weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:06

S765	1203	S763 and (hous\$3 or cas\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:06
S766	822	S764 and (hous\$3 or cas\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:06
S767	88	S765 and (electronic near device)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:07
S768	64	S766 and (electronic near device)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:07
S769	506	(snap near fit) near (ultrasonic\$4 near weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:07
S770	455	S769 and (hous\$3 or cas\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:07
S771	15	S770 and (electronic near device)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:07
S772	88	S767 S768 S771	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:07
S773	88	S767 S768	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:08
S774	73	S773 not S771	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:12
S775	1	"20160043357"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:17
S776	4	("2016/0043357").URPN.	USPAT	OR	OFF	2019/09/02 09:17
S777	0	S776 and (ultrasonic\$4 near4 weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:17
S778	0	S776 and (snap\$4 near fit\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:17
S779	2	"20100155490"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:25
S780	3	S767 and ((blood near sugar\$1) or diabet\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:43
S781	590	((("10067537") or ("20150169007") or ("8995125") or ("20140043744") or ("8971026") or ("20140016257") or ("20150153769") or ("10108223") or ("8730656") or ("20120120562") or ("20140218850") or ("9095044") or ("20150305175") or ("9313906") or ("20160200257") or ("20190135188") or ("10118560") or ("20020061736") or ("20110249856") or ("8594359") or ("7353003") or ("20050215907") or ("5536917") or ("5591364") or ("9229486") or ("20140254078") or ("20150059206") or ("10283898") or ("20190081431") or ("9700101") or ("8341832") or ("20180064212") or ("3934953") or ("8687359") or ("20190064877") or ("7517252") or ("20100091442") or ("6290551") or ("20140168877") or ("20080192425") or ("20160116947") or ("10152081") or ("20120030930") or ("20140140533") or ("20090247237") or ("8546702") or ("20160100887") or ("20180198895") or ("20120063115") or ("20130237289") or ("9756895") or ("10357078") or ("8049120") or ("20130213147") or ("20150313308") or ("9917934") or ("5712766") or ("20100079970") or ("20170340049") or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:46

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 ("20170232177") or ("5115129") or ("20190124780") or
 ("20170340277") or ("9908156") or ("5846092") or

("20190090589") or ("20140217862") or ("10103423") or ("8915361") or ("20050145330") or ("20160303614") or ("20110002106") or ("20190097306") or ("20020001171") or ("20180292862") or ("20060283050") or ("7607243") or ("20190209087") or ("8015732") or ("8619067") or ("20110239488") or ("10092065") or ("20140218874") or ("20130286582") or ("20080019502") or ("20150289594") or ("20090313857") or ("20130247423") or ("9730338") or ("20130255875") or ("20130312291") or ("9215826") or ("8499476") or ("20180154404") or ("20170354292") or ("20080045065") or ("20150043141") or ("9274568") or ("9044898") or ("20140091336") or ("20150011914") or ("6422261") or ("20180139522") or ("7537461") or ("7568932") or ("20150077909") or ("20150201723") or ("9223345") or ("20150280312") or ("20120050958") or ("7596891") or ("20040075989") or ("20140049376") or ("20120176277") or ("10251601") or ("5045971") or ("20140265765") or ("9509813") or ("20170216668") or ("7535799") or ("20060163269") or ("8982547") or ("6124886") or ("20170035170") or ("7442048") or ("20070086273") or ("9680975") or ("6503585") or ("20050004603") or ("20040145904") or ("20110007468") or ("9782125") or ("9611881") or ("6509820") or ("20020191409") or ("8857078") or ("10219055") or ("8611077") or ("20150091418") or ("8637781") or ("20150289595") or ("5380226") or ("7407390") or ("9629418") or ("9032647") or ("8458929") or ("6587332") or ("20190083862") or ("7980009") or ("20140030476") or ("7829786") or ("6386742") or ("10053808") or ("8620162") or ("20110235281") or ("20040000838") or ("20170265583") or ("20080045050") or ("20180117296") or ("20130110017") or ("6800987") or ("20130104982") or ("8693204") or ("7326064") or ("20090250906") or ("8811003") or ("20080182436") or ("20170215524") or ("20140152890") or ("20070280053") or ("5669698") or ("20130343015") or ("20170152624") or ("20030040780").PN. or ("20160069507") or ("4245280") or ("20170352503") or ("20150129401") or ("20050141230") or ("6398446") or ("6877888") or ("20130105288") or ("20050221675") or ("20180237214") or ("10376018") or ("20150093924") or ("6314610") or ("9466927") or ("9042105") or ("4326242") or ("8226109") or ("7755975") or ("8926151") or ("20170346166") or ("20160312756") or ("20140302961") or ("20120087531") or ("7187974") or ("20030082441") or ("20070107733") or ("20050092877") or ("20090071748") or ("20190020102") or ("9779893") or ("20050254778") or ("20110237099") or ("9649733") or ("20100146766") or ("6803144") or ("20140274544") or ("10294016") or ("5320564") or ("20100061040") or ("9651999") or ("20090313853") or ("20070076387") or ("8506327") or ("7259967") or ("9469469") or ("20090241621") or ("20090260871") or ("8500467") or ("20180213310") or ("5165775") or ("20060079305") or ("20100061055") or ("20080118823") or ("20170152621") or ("20150246278") or ("20170152622") or ("5061209") or ("20080100521") or ("20140015976") or ("9166382") or ("20110076883") or ("20120050975") or ("7697281") or ("20180138004") or ("7869206") or ("20160198824") or ("8051855") or ("10341780") or ("7524206") or ("10129619") or ("9157515") or ("6751327") or ("20150283332") or ("5298347") or ("20140126118") or ("7347731") or ("20160079722") or ("9486956") or ("20180277936") or ("20180192202") or ("20190220065") or ("5186644") or ("20040127104") or ("7278445") or ("9867951") or ("20080115344") or ("9554639") or ("20160250713") or ("20180234594") or ("20160043357") or ("10325746") or ("20170152623") or ("20100126042") or ("20120256395") or ("20100061039") or ("10005611") or ("20050028404") or ("6199264") or ("20180085283") or ("6793537") or ("20160320658") or ("20190121391") or ("20190259556") or ("8250724") or ("20130021280") or ("10306114") or ("9751155") or ("8023261") or ("7513067") or ("20090067141") or ("20060091849") or ("20120031515") or ("20170070796") or ("20190268513") or ("9103427") or ("7523522") or ("20080089081") or ("20070015416") or ("5356316") or ("20150346782") or ("9022412") or ("20160270272") or ("20080076299") or ("20110050508") or

		("8638549") or ("9526287") or ("20160004951") or ("3998505") or ("20060130370") or ("8534887").PN. or (("20190257019") or ("20080078051") or ("20100053907") or ("20040092203") or ("20020093830") or ("20160175550") or ("9454188") or ("8517186") or ("10036114") or ("7108409") or ("5008943") or ("9855474") or ("20150070219") or ("7838780") or ("8269677") or ("9607259") or ("9759937") or ("8472203") or ("9718357") or ("20160354658") or ("7255465") or ("20140268683") or ("20160363958") or ("6467942") or ("10120414") or ("20140063716") or ("10372166") or ("10162392") or ("20140028902") or ("7463734") or ("20140016303") or ("20170104901") or ("20110305875") or ("20150334860") or ("7914188") or ("20130329460") or ("20170027287") or ("9622556") or ("10070695") or ("5938478") or ("7320450") or ("20050078920") or ("7311428") or ("9421438") or ("20130016217") or ("20150167813") or ("9964266") or ("7842890") or ("5520775") or ("20060268561") or ("8047984") or ("20160096042") or ("20090141459") or ("7658521") or ("20170265584") or ("5432017") or ("9781846") or ("20180193577") or ("20100073851") or ("20090306468") or ("20110255850") or ("9506629") or ("9007748") or ("20140262848") or ("20130189024") or ("8267559") or ("8564961") or ("20140126117").PN.				
S782	19	S781 and ((blood near sugar\$1) or diabet\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:55
S783	18	S782 and (ultrasonic\$4 near4 weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:56
S784	18	S783 and (snap\$4 near fit\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:56
S785	0	S784 and cgm	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:58
S786	0	S784 and tcgm	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:58
S787	0	S781 and tcgm	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:59
S788	0	S781 and cgm	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:59
S789	2	S763 and (cgm or tcgm)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:59
S790	2	S764 and (cgm or tcgm)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:59
S791	2	S789 S790	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:59
S792	2	S760 and (cgm or tcgm)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:59
S793	2	S789 S790 S791 S792	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 09:59
S794	5595	(continuous near glucose) near3 monitor\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 10:01
S795	145	S794 and (ultrasonic\$4 near4 weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 10:04
S796	38	S795 and (snap\$4 near fit\$4)	US-PGPUB;	OR	OFF	2019/09/02

			USPAT; USOCR			10:04
S797	5595	(continuous near glucose) near3 monitor\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 12:49
S798	145	S797 and (ultrasonic\$4 near4 weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 12:49
S799	82	S798 and ((first or second or top or bottom) near4 (hous\$3 or cas\$3 or enclosure or compartment))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 12:49
S800	49	S798 and (((first and second) or (top and bottom)) near4 (hous\$3 or cas\$3 or enclosure or compartment))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 12:50
S801	29	S798 and (((first and second) or (top and bottom)) near2 (hous\$3 or cas\$3 or enclosure or compartment))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 12:50
S802	18	S798 and (((first and second) or (top and bottom)) near (hous\$3 or cas\$3 or enclosure or compartment))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 12:50
S803	11	S801 not S802	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 13:03
S804	20	S800 not S801	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 13:03
S805	2	"20140194818"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 13:04
S806	22	("20010034502" "20030110595" "20040004680" "20040183511" "20070106218" "20070191702" "20080215035" "20090143735" "3631847" "3771694" "4498843" "4544369" "4657486" "5370622" "5472317" "5704223" "5957895" "6485461" "6589229" "6723072" "6740059" "7736344").PN. OR ("9669157").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 13:11
S807	2	S806 and (ultrasonic\$4 near4 weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 13:12
S808	9	S806 and (snap or (snap near fit))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 13:15
S809	0	S798 and (force\$1 with (ultrasonic\$4 near4 weld\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 13:22
S810	0	S798 and (forc\$3 with (ultrasonic\$4 near4 weld\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 13:23
S811	105	S798 and (forc\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 13:23
S812	0	S798 and ((forc\$3) with weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 13:23
S813	17	S798 and ((forc\$3) same weld\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 13:23
S814	5	S798 and (forc\$3 same (ultrasonic\$4 near4 weld\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 13:23
S815	117	((("LIN") near3 ("Arthur")) OR (("FRICK") near3 ("Sean"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/09/02 14:34

S816	814	h05k5/0086.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 14:35
S817	775	h05k5/0004.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 14:35
S818	726	h05k5/069.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 14:35
S819	14689	a61b5/14532.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 14:36
S820	5	("20130128445" "5666261" "7582250" "20120327325" "5666261" "7580250").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/02 15:12
S821	3	("20090303322" "9397745" "9592895").PN.	US-PGPUB; USPAT	OR	OFF	2019/09/03 01:26
S822	2	S821 and float\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:27
S823	2	S821 and float\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:27
S824	519	((("ALLEN") near3 ("Peter"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/09/03 01:31
S825	11644	g06f1/1681,1656.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:33
S826	4449	g06f21/86,88.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:33
S827	2143	e05b73/0082,00,0005.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:35
S828	1078	e05b65/006,0067.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:35
S829	503	e05b27/00.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:35
S830	0	a47f3/0002.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:35
S831	0	a47f7/025.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:35
S832	537	a47f7/024.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:35
S833	378	a47f3/002.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:36
S834	96	((("7315443") or ("20050248914") or ("7324333") or ("20060291158") or ("20060176661") or ("7724520") or ("20080232059") or ("7443665") or ("20040177658") or ("7499269") or ("20060291156") or ("7499270") or ("20060291157") or ("20060226742") or ("7578243") or ("5168427") or ("5924807") or ("5857568") or ("8250993") or ("20110146541") or ("6606241") or ("20030011978") or ("20120234055") or ("20120307448") or ("10125523") or ("8223488") or ("8677911") or ("6012788") or ("9562375") or ("20120236496") or ("8717758") or ("7658363") or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:37

		("20190078355" or ("20170145719" or ("8837144" or ("9206626" or ("20120272693" or ("20150052957" or ("20160076276" or ("7506592" or ("20140238091" or ("8456836" or ("20050045072" or ("20120260698" or ("7828253" or ("20080001043" or ("20110170257" or ("20020157431" or ("20120201000" or ("7748667" or ("4978949" or ("5539615" or ("5629832" or ("20070290115" or ("8701452" or ("5196993" or ("20100326144" or ("20100079285" or ("6212921" or ("8139356" or ("20070159035" or ("20100284144" or ("6742366" or ("6626686" or ("20080035029" or ("6216499" or ("8459191" or ("20120127651" or ("8649169" or ("8025016" or ("20110297050" or ("5490036" or ("10303216" or ("20130148289" or ("8929065" or ("9310841" or ("20140168885" or ("6752477" or ("20150077928" or ("9098239" or ("5281958" or ("20150301562" or ("7360379" or ("7174752" or ("20030080655" or ("10067533" or ("20040261474" or ("20100012796" or ("5402150" or ("6298695" or ("9625081" or ("20100090075" or ("8783500" or ("20030057340" or ("20060285304" or ("6418759").PN.				
S835	2115	361/679.57-679.58.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:52
S836	11280	((("IN" near3 ("Woo")) OR (("PARK" near3 ("Doo")) OR (("LEE" near3 ("Woong")) OR (("LEE" near3 ("Jeong")) OR (("JUNG" near3 ("Sung")))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/09/03 01:56
S837	2095	H05K7/14,16,17,1427.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:57
S838	0	G02F1/13308.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:57
S839	5613	361/679.21-679.3.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:57
S840	2995	361/679.55-679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:57
S841	7309	361/679.01-679.02.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 01:57
S842	593	H05K7/00.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:10
S843	7543	G02F1/133308.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:10
S844	19914	G02F1/133308,133512,133528.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:11
S845	115	((("20130170115" or ("20190056606" or ("10151938" or ("20190155061" or ("9398711" or ("20160291392" or ("20140139771" or ("20160093685" or ("9425418" or ("20180062094" or ("20160336523" or ("9812659" or ("20180219165" or ("20170194411" or ("9847506" or ("20160268546" or ("20180090713" or ("20160172623" or ("9379355" or ("20130170116" or ("9793334" or ("20160240602" or ("9748322" or ("20160093644" or ("9349758" or ("20170323934" or ("10068960" or ("20160181346" or ("9780157" or ("8717513" or ("20120327325" or ("9627463" or ("9985086" or ("20180233552" or ("20170179215" or ("20160155788" or ("9356087" or ("20160240605" or ("20160172427" or ("20170290106" or ("20180210279" or ("9980326" or ("10182474" or ("20160174304" or ("20180092166" or ("9706607" or ("20060077544" or ("10268065" or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:12

		("20170237027") or ("10038154") or ("20160172428") or ("9287329") or ("20160190522") or ("9673423") or ("20190094603") or ("9690129") or ("20170192290") or ("10261353") or ("20180113353") or ("10206276") or ("9804430") or ("20180139838") or ("10121988") or ("20170248815") or ("20170162821") or ("9894755") or ("20160374191") or ("20150168767") or ("20160179257") or ("20180031898") or ("10036909") or ("20170192289") or ("9419065") or ("9991465") or ("20150055053") or ("20140042406") or ("20160315284") or ("20170289324") or ("10338423") or ("10171636") or ("20170344053") or ("20190018274") or ("20180123060") or ("9983714") or ("20110222220") or ("9535522") or ("20170371465") or ("20160179229") or ("8559192") or ("10304359") or ("20170075464") or ("9766737") or ("20160183399") or ("20190018275") or ("20180351117") or ("9276055") or ("9224793") or ("20160064466") or ("9818764") or ("20180097199") or ("9515099") or ("10381597") or ("20180331322") or ("20180151838") or ("20170077147") or ("20070195220") or ("9385175") or ("9999152") or ("9544994") or ("20170118859") or ("20140176850") or ("9768415") or ("20160087024") or ("20160035759") or ("20160285046").PN.				
S846	26	S845 AND (BLACK NEAR MATRI\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:12
S847	6	((("BHATTACHARYYA") near3 ("Sampriti"))).IN.V.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/09/03 02:52
S848	701	((("20190250672") or ("10316542") or ("20180340345") or ("20190169872") or ("10323433") or ("20190233060") or ("20190219026") or ("20180313109") or ("10094138") or ("20180187447") or ("20140071167") or ("9135731") or ("20190016419") or ("20120094561") or ("20180275313") or ("20110212691") or ("20160347426") or ("20060223394") or ("7247069") or ("20160257421") or ("20160257415") or ("9440749") or ("9452844") or ("20170251096") or ("20170029128") or ("8813669") or ("10384749") or ("20110162573") or ("9771160") or ("9746367") or ("20160097672") or ("9781248") or ("9881479") or ("20160012708") or ("7131876") or ("20180130333") or ("10242551") or ("20050254778") or ("20160114887") or ("7755975") or ("10321674") or ("9493235") or ("20080174478") or ("20170233043") or ("20180011390") or ("20130107031") or ("20160337618") or ("7298320") or ("9738355") or ("20130059489") or ("6844845") or ("20180091236") or ("20130187787") or ("20180013229") or ("20070076527") or ("20150011133") or ("20150353167") or ("20160207602") or ("9853744") or ("8851947") or ("9882305") or ("20020097157") or ("9120547") or ("9032891") or ("20140216325") or ("9162740") or ("10110323") or ("20130255560") or ("6545606") or ("20160325814") or ("20180013934") or ("20190230259") or ("20180013271") or ("10250783") or ("5283767") or ("20150116496") or ("20190135381") or ("20180186433") or ("20130005199") or ("8870614") or ("20150086337") or ("20180013272") or ("20180321033") or ("10118671") or ("20040092181") or ("7089876") or ("20050123161") or ("7187623") or ("20180206354") or ("20180072383") or ("20060026017") or ("20050213649") or ("9606220") or ("7263032") or ("20140266793") or ("20160041255") or ("20060206246") or ("20140044154") or ("10057676") or ("20170280228") or ("9037079") or ("10006897") or ("20190154439") or ("20050124234") or ("20190072951") or ("20190118588") or ("20140238762") or ("10281915") or ("20190135393") or ("4919637") or ("20150298783") or ("20110201238") or ("20190129426") or ("20120000409") or ("10107907") or ("20170227638") or ("20170205536") or ("9718528") or ("9352236") or ("8951079") or ("20050016430") or ("20120225598") or ("9729253") or ("20130128689") or ("20160119065") or ("20180222560") or ("20170297669") or ("8398446").PN. or ("20180335780") or ("20100041285") or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:53

("8104420") or ("20050208844") or ("20190064348") or
("20110095914") or ("20160075420") or ("20170168174") or
("20110011323") or ("20180154993") or ("20040015277") or
("20130201316") or ("8531316") or ("20170102450") or
("8123577") or ("20120214363") or ("20140273676") or
("10168701") or ("5806232") or ("9725149") or ("9180937") or
("6778388") or ("6854406") or ("7483337") or ("20080008045") or
("20130239863") or ("20170089768") or ("10011152") or
("20040083940") or ("20170016874") or ("20020083880") or
("20160246299") or ("20170038771") or ("8814616") or
("20170023676") or ("9891620") or ("20180034912") or
("10250337") or ("20120118213") or ("20170078400") or
("20180375940") or ("10054684") or ("10184928") or ("8443750")
or ("20130118550") or ("20180284762") or ("10386834") or
("20190069496") or ("20180343304") or ("10011352") or
("20190098090") or ("8627593") or ("20190109904") or
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("20170331899") or ("20180124181") or ("20130110329") or
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S849	7309	361/679.01,679.02.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:53
S850	5805	G06F1/165,181,182.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:53
S851	2611	H04W4/38.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:53
S852	414	B63B22/00.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:54
S853	1269	H02S20/00.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:54
S854	20616	H04L67/12.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:54
S855	386	S848 AND (WATERPROOF OR (WATER NEAR PROOF))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:56
S856	354	S848 AND (WATERPROOF OR (WATER NEAR P41 and float\$4ROOF))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:56
S857	241	S855 and float\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:57
S858	193	S857 and (wireless or (wire near less))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:57
S859	190	S858 and (radio\$1 or telecommunication\$1 or transceiver\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:58

S860	128	S859 and (memory and processor\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 02:58
S861	1440	361/679.41-679.45.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:25
S862	9627	G06F1/1632,1654.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:25
S863	9775	A61B5/002,7275,7445.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:26
S864	153	((("ESLAVA") near3 ("Juan")) OR ((("LUND") near3 ("Peter")))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/09/03 03:26
S865	1693	((("20190250664") or ("10271031") or ("20150288942") or ("20170222681") or ("9787346") or ("8041873") or ("20090157939") or ("20080244149") or ("8977797") or ("7676624") or ("20100174844") or ("7818487") or ("8234436") or ("20130024596") or ("8756359") or ("20130097352") or ("20130198430") or ("9703750") or ("8626977") or ("9529768") or ("20110208893") or ("20150026373") or ("20180248406") or ("20150296104") or ("9549478") or ("20140195713") or ("20160249468") or ("20100165188") or ("8525925") or ("8934226") or ("20130128110") or ("20140002725") or ("9712728") or ("20140270687") or ("8477238") or ("20160124569") or ("20140320696") or ("20170171371") or ("20180091707") or ("8773581") or ("9019397") or ("9681028") or ("9588550") or ("9619201") or ("20140253868") or ("6741287") or ("10116776") or ("20150092326") or ("20170251315") or ("20050195575") or ("20160202734") or ("20160320808") or ("7146446") or ("20190260862") or ("20120105740") or ("10120646") or ("20090167634") or ("7826205") or ("10033848") or ("20050246469") or ("20060249507") or ("7376779") or ("20100134964") or ("20070247800") or ("20060230296") or ("20160191682") or ("20180247582") or ("20120268878") or ("20060229740") or ("9591113") or ("7652888") or ("20060230297") or ("20120133591") or ("20190007816") or ("20180307333") or ("20170126268") or ("20150237750") or ("9838064") or ("20170272113") or ("20130194425") or ("20170214783") or ("8508593") or ("20160072327") or ("20190239769") or ("9819850") or ("20180112819") or ("10178462") or ("20160277649") or ("20180048953") or ("10333576") or ("20160373870") or ("20080030311") or ("20180159580") or ("20070088249") or ("7553291") or ("20160313764") or ("9529769") or ("20150353026") or ("20160104987") or ("20140063734") or ("20170047765") or ("9256254") or ("20130033599") or ("20190183435") or ("5941846") or ("9883273") or ("20170244822") or ("10340723") or ("9007447") or ("10268239") or ("20180059810") or ("20050116943") or ("8194132") or ("20060098403") or ("20120120581") or ("7074205") or ("9192084") or ("20160179744") or ("20170235341") or ("20050204083") or ("10324539") or ("9637051") or ("20170153672") or ("10289163") or ("20030214799") or ("20060230298") or ("20180297521") or ("20170011210")).PN. or ((("8262560") or ("8717755") or ("20090167632") or ("9600027") or ("20150309537") or ("7363416") or ("8044329") or ("5225816") or ("20170244823") or ("20170102767") or ("20030115591") or ("20140028841") or ("20190004764") or ("20160162241") or ("10015303") or ("20080117578") or ("10168772") or ("20050174729") or ("20170205854") or ("20150181772") or ("7027310") or ("20190018453") or ("20160098082") or ("8000090") or ("20080204359") or ("20160349800") or ("20190221144") or ("20170251561") or ("20170134653") or ("8405726") or ("10022272") or ("20080149796") or ("20130314300") or ("20120224065") or ("20160026423") or ("20180046422") or ("9880617") or ("20160097629") or ("20140253730") or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:27

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		("20150156379") or ("10157298") or ("20170080876") or ("20160066857") or ("20150349537") or ("5657004") or ("9373463") or ("20160275770") or ("20170238087") or ("9225813") or ("10215351") or ("20110267758") or ("20130168445") or ("20100145146").PN. or ("8289114") or ("5808289") or ("20170086747") or ("8364866") or ("9170625") or ("20130120106") or ("20030193562") or ("20090292851") or ("20170115713") or ("20170295347") or ("9101083") or ("10171976") or ("8688037") or ("20150268205") or ("9693024") or ("20030050654") or ("6062478") or ("20130176626") or ("20160021475") or ("20190029135") or ("20020122583") or ("20180296067") or ("7860643") or ("20170090514") or ("20130063873") or ("20180168763") or ("9294830") or ("20150257903") or ("10048088") or ("20160094051") or ("20160183768") or ("20140063821") or ("9372477") or ("20180239574") or ("8397982") or ("9475531") or ("20080146922") or ("20170293272") or ("20100081473") or ("20170294113") or ("9737212") or ("7204425") or ("8242868") or ("9442346") or ("20020033946") or ("7733633") or ("20030222848") or ("20190056047") or ("20070086153") or ("10178357") or ("20170205923") or ("5765565") or ("7777639") or ("7637674") or ("9918541") or ("20180341290") or ("20170038641") or ("20160126761") or ("20170337430") or ("20070188603") or ("10367270") or ("20160365064") or ("20080252798") or ("20190229771") or ("20180081370") or ("20180095299") or ("20070056781") or ("20140326497") or ("20170222459") or ("8185084") or ("9122456") or ("9928713") or ("20100090680") or ("8665045") or ("20080104716") or ("20180145485") or ("7976778") or ("20190130822") or ("10191289") or ("20180150032") or ("9726919") or ("20190026871") or ("20110077557") or ("10277785") or ("20070299350") or ("20180201190") or ("20180188543") or ("20070275783") or ("10051096") or ("20180267584") or ("8462103") or ("10039438") or ("20160110977") or ("9886832") or ("20090216105") or ("10180591") or ("20120068798") or ("20100142139") or ("20160216739") or ("20130232571") or ("7484702") or ("20190209080") or ("9116137") or ("20180123224") or ("9381099") or ("20190229650") or ("20170345536") or ("20150190094") or ("8494585") or ("20180343403") or ("20170118789") or ("20070184704") or ("20180012089") or ("10355415") or ("20130027404") or ("20150103018") or ("20140247152") or ("20140172245") or ("8203832") or ("8935774") or ("8086874") or ("20080266080") or ("20130232350") or ("20150227245") or ("20160134841") or ("9778235") or ("5949388") or ("20130061504").PN. or ("20190258291") or ("20130170013") or ("20180334216") or ("20170151071") or ("20120120239") or ("20150061589") or ("10289085") or ("8651368") or ("20180008016") or ("8385822") or ("10157538") or ("20160094700") or ("20070103835") or ("10101846") or ("20170098435") or ("20140069794") or ("9848756") or ("20120130590").PN.				
S866	309	S865 AND ((first and second) near (monitor\$1 or display\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:28
S867	0	S866 AND ((first and second and third) near (couplind))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:29
S868	0	S865 AND ((first and second and third) near (couplind))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:29
S869	52	S865 AND ((first and second and third) near (coupling))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:29
S870	7	S866 AND ((first and second and third) near (coupling))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:29
S871	3429	G06f1/1647,1654.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:31

S872	1282	G06f1/1654.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:31
S873	69	S866 AND ((first and second) near (coupling))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:31
S874	3802	"736" AND ((first and second) near (monitor\$1 or display\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:32
S875	69	S873 AND ((first and second) near (monitor\$1 or display\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 03:32
S876	424	((cold near plate\$1) with (plastic\$1 or polymer\$2))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 09:31
S877	502	((cold near plate\$1) with (plastic\$1 or polymer\$2 or resin\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 09:31
S878	122	S877 and ((metaliz\$3) or ((metal) near (plat\$3 or coat\$3 or layer\$3)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 09:32
S879	52	S878 and (fluid\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 09:33
S880	12	S879 and (inlet\$1 and outlet\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 09:33
S881	17	S878 and (inlet\$1 and outlet\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 09:33
S882	1	S881 and EMI	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 09:34
S883	7	S879 and EMI	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 09:34
S884	9	S878 and EMI	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 09:34
S885	20	S878 and (shield\$3 or EMI)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 09:52
S886	8	S879 and (shield\$3 or EMI)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 09:52
S887	1	S881 and (shield\$3 or EMI)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 09:52
S888	1	"4453911".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 10:01
S889	34	("4266604" "4420739" "4758926" "4939624" "4989070" "5005640" "5014904" "5043797" "5099311" "5111280" "5453911" "5636684" "5973261" "6039114").PN. OR ("6230791").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 10:04
S890	30	("20050104027" "20100302734" "20110103021" "20140347817" "20150007965" "20150022975" "20150208549" "20150289413" "20150348869" "5316075" "6064572" "6320257" "7360582" "7588074" "8006746" "8199505" "8232637" "8391008" "8413712" "8427832" "8659896" "8786078" "8981556" "8982558" "9099295" "9131631" "9313923" "9513675" "9646935" "9716018").PN.	US-PGPUB; USPAT	OR	OFF	2019/09/03 10:25
S891	13	S889 and (emi or interference)	US-PGPUB; USPAT;	OR	OFF	2019/09/03 10:26

			USOCR			
S892	18	S889 and ((plastic\$1 and metal\$1) or (conductive and ((nonconductive or (non near conductive))))))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 10:27
S893	3	"20150138723"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 13:18
S894	701	((("20190250672") or ("10316542") or ("20180340345") or ("20190169872") or ("10323433") or ("20190233060") or ("20190219026") or ("20180313109") or ("10094138") or ("20180187447") or ("20140071167") or ("9135731") or ("20190016419") or ("20120094561") or ("20180275313") or ("20110212691") or ("20160347426") or ("20060223394") or ("7247069") or ("20160257421") or ("20160257415") or ("9440749") or ("9452844") or ("20170251096") or ("20170029128") or ("8813669") or ("10384749") or ("20110162573") or ("9771160") or ("9746367") or ("20160097672") or ("9781248") or ("9881479") or ("20160012708") or ("7131876") or ("20180130333") or ("10242551") or ("20050254778") or ("20160114887") or ("7755975") or ("10321674") or ("9493235") or ("20080174478") or ("20170233043") or ("20180011390") or ("20130107031") or ("20160337618") or ("7298320") or ("9738355") or ("20130059489") or ("6844845") or ("20180091236") or ("20130187787") or ("20180013229") or ("20070076527") or ("20150011133") or ("20150353167") or ("20160207602") or ("9853744") or ("8851947") or ("9882305") or ("20020097157") or ("9120547") or ("9032891") or ("20140216325") or ("9162740") or ("10110323") or ("20130255560") or ("6545606") or ("20160325814") or ("20180013934") or ("20190230259") or ("20180013271") or ("10250783") or ("5283767") or ("20150116496") or ("20190135381") or ("20180186433") or ("20130005199") or ("8870614") or ("20150086337") or ("20180013272") or ("20180321033") or ("10118671") or ("20040092181") or ("7089876") or ("20050123161") or ("7187623") or ("20180206354") or ("20180072383") or ("20060026017") or ("20050213649") or ("9606220") or ("7263032") or ("20140266793") or ("20160041255") or ("20060206246") or ("20140044154") or ("10057676") or ("20170280228") or ("9037079") or ("10006897") or ("20190154439") or ("20050124234") or ("20190072951") or ("20190118588") or ("20140238762") or ("10281915") or ("20190135393") or ("4919637") or ("20150298783") or ("20110201238") or ("20190129426") or ("20120000409") or ("10107907") or ("20170227638") or ("20170205536") or ("9718528") or ("9352236") or ("8951079") or ("20050016430") or ("20120225598") or ("9729253") or ("20130128689") or ("20160119065") or ("20180222560") or ("20170297669") or ("8398446").PN. or ("20180335780") or ("20100041285") or ("8104420") or ("20050208844") or ("20190064348") or ("20110095914") or ("20160075420") or ("20170168174") or ("20110011323") or ("20180154993") or ("20040015277") or ("20130201316") or ("8531316") or ("20170102450") or ("8123577") or ("20120214363") or ("20140273676") or ("10168701") or ("5806232") or ("9725149") or ("9180937") or ("6778388") or ("6854406") or ("7483337") or ("20080008045") or ("20130239863") or ("20170089768") or ("10011152") or ("20040083940") or ("20170016874") or ("20020083880") or ("20160246299") or ("20170038771") or ("8814616") or ("20170023676") or ("9891620") or ("20180034912") or ("10250337") or ("20120118213") or ("20170078400") or ("20180375940") or ("10054684") or ("10184928") or ("8443750") or ("20130118550") or ("20180284762") or ("10386834") or ("20190069496") or ("20180343304") or ("10011352") or ("20190098090") or ("8627593") or ("20190109904") or ("20180278694") or ("20180278693") or ("9730433") or ("20170331899") or ("20180124181") or ("20130110329") or ("20190052942") or ("20110138675") or ("20020122353") or ("6157621") or ("10195629") or ("6662742") or ("6684556") or ("6614722") or ("6986320") or ("20140059979") or ("20050204992") or ("9457900") or ("20040120219") or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:19

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S896	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:23
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S898	1601	S896 S897	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:23
S899	108	((("CHANG") near3 ("Cheng-Wen")) OR (("TSAI") near3 ("CHEN-YU")) OR (("WANG") near3 ("CHUN-YUAN")) OR (("LEE") near3 ("CHENG-YI"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/09/03 14:24
S900	3711	g06f1/1652.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:24
S901	13300	g06f1/1626.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:24
S902	707	S900 and S901	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:24
S903	140	S898 and ((display\$3) near2 (flex\$4 or bend\$4 or roll\$4 or	US-PGPUB;	OR	OFF	2019/09/03

		wind\$4))	USPAT; USOCR			14:25
S904	623	S902 and ((display\$3) near2 (flex\$4 or bend\$4 or roll\$4 or wind\$4))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:25
S905	1	("0000112").PN.	US-PGPUB; USPAT	OR	OFF	2019/09/03 14:26
S906	0	"2070013705"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:27
S907	2	"20170013705"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:27
S908	5118	h05k5/0017,0217.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:31
S909	1112	g09f9/301.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:31
S910	1192	h04m1/0268.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:31
S911	4	("20100182288" "20110132557" "20130234951" "20140247544").PN. OR ("10101019").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:32
S912	2	"20100182288"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:39
S913	1	"20110132557"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:39
S914	1	"20130234951"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:39
S915	23	("8009422").URPN.	USPAT	OR	OFF	2019/09/03 14:40
S916	37	("20010008582" "20030048256" "20030160892" "20040052044" "20040183958" "20060209218" "20070241002" "6016176" "6269225" "6424387" "6762929" "6873315" "7184086" "7667962").PN. OR ("8009422").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:40
S917	4	("20100182288" "20110132557" "20130234951" "20140247544").PN. OR ("10101019").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:40
S918	30	("2014/0247544").URPN.	USPAT	OR	OFF	2019/09/03 14:40
S919	11	("2013/0234951").URPN.	USPAT	OR	OFF	2019/09/03 14:40
S920	5	("2011/0132557").URPN.	USPAT	OR	OFF	2019/09/03 14:41
S921	5	("2011/0132557").URPN.	USPAT	OR	OFF	2019/09/03 14:41
S922	69	S915 S916 S917 S918 S919 S920 S921	USPAT	OR	OFF	2019/09/03 14:41
S923	80	S915 S916 S917 S918 S919 S920 S921	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:41
S924	15	("20070241002" "20080247126" "20100134873" "20100246113" "20110043976" "20120002357" "20130127799" "20140035869" "20140247544" "20160029474" "20170031387" "7710370" "8289232" "9766660" "9817443").PN. OR ("10390443").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:45
S925	93	S923 S924	US-PGPUB; USPAT;	OR	OFF	2019/09/03 14:49

			USOCR			
S926	133	S903 not S925	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:50
S927	9	S926 and gear\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 14:51
S928	2	"20050168935"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/09 14:16
S929	1	("20150223355").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/13 10:00
S930	25	("20070064542" "20120092822" "20040023556" "9367087" "D641349" "D752583" "D760717" "20160066859" "20110053666" "D755178" "20150126117" "5889737" "20150223033" "20150334772" "D733142" "D743278" "D745515" "D750625" "8787006" "20130040610" "20150212541" "20150223034" "D761262" "20150223355" "20150333302").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/13 10:00
S931	17	("20070064542" "20120092822" "20040023556" "D641349" "20110053666" "20150126117" "5889737" "20150223033" "20150334772" "D733142" "D743278" "D745515" "20150212541" "20130040610" "20150223034" "5008864" "20150333302").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/13 10:01
S932	26	S929 S930 S931	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/13 10:01
S933	10	"7656671"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/13 11:28
S934	1	"7656671".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/13 11:29
S935	1	"6654241".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/13 11:29
S936	2	S934 S935	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/13 11:29
S937	1	"20030063432"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/13 11:44
S938	1	"20170017273"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/13 11:55
S939	8779	g06f1/1632.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:01
S940	1898	g06f1/1613.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:01
S941	6154	S939 and (connector\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:01
S942	18	S941 and (float\$3 near state)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:02
S943	55	S939 and (float\$3 near3 connector\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:02
S944	55	S943 not S942	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:02

S945	2	((("10409328") or ("20180373290")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:07
S946	305	((("10409328") or ("20180373290") or ("20190011951") or ("20190094907") or ("20050018389") or ("6950301") or ("20130335914") or ("4137587") or ("20170344060") or ("10007298") or ("20180335799") or ("20190196544") or ("10386886") or ("10001811") or ("20190196543") or ("20180196469") or ("10082827") or ("20180196468") or ("10185355") or ("20180217636") or ("9763362") or ("20100265652") or ("6833988") or ("9778695") or ("20040061996") or ("20070043959") or ("10067536") or ("20190041916") or ("10289165") or ("7380143") or ("5396400") or ("20180307274") or ("10185359") or ("4978949") or ("20160261129") or ("10027149") or ("9509087") or ("20080153331") or ("20140106829") or ("20050111187") or ("20170168377") or ("5552959") or ("7435114") or ("10133160") or ("20180074548") or ("20040264123") or ("7364447") or ("9915977") or ("7079392") or ("20070025095") or ("20050020906") or ("7453707") or ("7180753") or ("5313596") or ("20110117833") or ("8634883") or ("6272005") or ("5030128") or ("5138529") or ("20160161026") or ("20070009345") or ("5218760") or ("20140369793") or ("6142593") or ("8821099") or ("20170344059") or ("9383038") or ("9798357") or ("20140092546") or ("20160124465") or ("6592041") or ("6447314") or ("20060256515") or ("5991838") or ("7466557") or ("9235237") or ("20080232057") or ("10401925") or ("5452180") or ("10037055") or ("20170147037") or ("20190009663") or ("20050026499") or ("20090247246") or ("20170118860") or ("20110286171") or ("20180052498") or ("9990007") or ("20120320514") or ("20180291580") or ("20190242084") or ("20040066620") or ("20060012965") or ("20180196467") or ("8068887") or ("6216999") or ("10228722") or ("20160278231") or ("20160231779") or ("9600031") or ("20080024975") or ("5199892") or ("8274784") or ("7551426") or ("8879250") or ("20170334279") or ("7203067") or ("20120194993") or ("9921621") or ("10264696") or ("20090047824") or ("20190146556") or ("20120293718") or ("6301116") or ("8498109") or ("10409332") or ("10112471") or ("20120182675") or ("20100014226") or ("4986763") or ("8475214") or ("20150129526") or ("20080245934") or ("5019465") or ("20170160773") or ("20120293716") or ("9904335") or ("20140160657") or ("9665125") or ("20140160656") or ("20170160772")).PN. or ((("20160109905") or ("9280179") or ("8752996") or ("9229477") or ("20150277491") or ("8811007") or ("7297015") or ("6049454") or ("9161625") or ("20060169961") or ("20060060688") or ("20160195898") or ("4958889") or ("7226041") or ("5267811") or ("20070168593") or ("7280854") or ("9588548") or ("20050287852") or ("7364110") or ("7697282") or ("5588782") or ("5978569") or ("10133313") or ("20060171791") or ("9422015") or ("20080014038") or ("7471511") or ("20190173067") or ("8688884") or ("20120173784") or ("20070277186") or ("20030199195") or ("20020089822") or ("20130016463") or ("6239969") or ("20120188691") or ("20100159743") or ("20120057286") or ("7779434") or ("7270508") or ("8625273") or ("20110005846") or ("20160268823") or ("20150271945") or ("20040212958") or ("5828341") or ("6773272") or ("6522532") or ("20140069710") or ("7012806") or ("8128431") or ("8413752") or ("20120169942") or ("20090296277") or ("5196993") or ("20060067044") or ("6693868") or ("6807055") or ("20080287005") or ("10054950") or ("20140268095") or ("9370121") or ("9450362") or ("20160357229") or ("20020048151") or ("20150288091") or ("4092755") or ("20080192435") or ("20110310582") or ("20180024589") or ("6229708") or ("6510051") or ("20020030970") or ("10133277") or ("10180701") or ("9463962") or ("3679074") or ("20010021155") or ("9680253") or ("20180049340") or ("8807805") or ("20130322011") or ("5997323") or ("20060265732") or ("8976513") or ("7928358") or ("5745341") or ("20080094809") or ("20020126589") or ("9152187") or ("10285293") or ("20120151098") or ("20180024590") or ("8986029") or ("7613006") or ("8043122") or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:07

		("10228724") or ("3735879") or ("5390104") or ("9886069") or ("20130050934") or ("20060236329") or ("8741472") or ("5028025") or ("20040165348") or ("7006410") or ("20050185555") or ("8508928") or ("20140277688") or ("20050185554") or ("20130271905") or ("10314754") or ("6493220") or ("20150185776") or ("20130340167") or ("8842428") or ("9663977") or ("9266690") or ("9385468") or ("7234149") or ("20150185777") or ("20160278232") or ("9593510") or ("20140168932") or ("20130134702") or ("20160057887") or ("7020059") or ("7597290") or ("20150185709") or ("20070132204") or ("20110069441") or ("20160057885").PN. or ("20080102907") or ("20050211869") or ("20120082876") or ("20100049152") or ("7012868") or ("8608207") or ("20130005161") or ("9435500") or ("6721178") or ("6119237") or ("8740866") or ("20050213298") or ("20160050795") or ("20010030851") or ("20080049389") or ("20170280584") or ("20150185774") or ("7092258") or ("20050057912") or ("5769646") or ("6574102") or ("20140124339") or ("20170047683") or ("8485287") or ("8800695") or ("10152092") or ("9807902") or ("20160145059") or ("20040233799") or ("6084747") or ("20130105233") or ("20150304599") or ("7360660") or ("9504181") or ("20100263948") or ("20150192957") or ("9736961") or ("8327960") or ("9656704") or ("20170102741") or ("20150360886").PN.				
S947	13	("10074935" "20020159231" "20110095724" "20160062399" "20160062400" "20160349793" "20170153667" "20170208697" "20170285689" "20180364756" "6280212" "6768637" "9915977").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:08
S948	16	("20090269977" "20130005179" "20130295796" "20160111804" "3573716" "5161997" "5366388" "5658154" "5876246" "6887098" "7303432" "8932071" "8968031" "9502827").PN. OR ("10074935").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:19
S949	16	("20040223293" "20060082965" "20060092605" "20060139875" "20070115628" "20070297130" "20120218722" "20140347815" "20150268695" "6069790" "7381079" "7633750" "8792234" "9003626" "9326397").PN. OR ("9915977").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:22
S950	0	"2070302024"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:27
S951	1	"20170302024"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:27
S952	12	("20100081377" "6549416").PN. OR ("9429994").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:33
S953	19	("20110164375" "20110278885" "20120229974" "20120293949" "20130050933" "20130058036" "20140073178" "20140118923" "20140223065" "20150137762" "20170153667" "20170208697" "20180152033" "20180229363" "20180364756" "5864294" "9420085" "9429994" "9740240").PN. OR ("10324495").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:37
S954	12	("20100081377" "6549416").PN. OR ("9429994").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:44
S955	216	S946 and (dock\$4 or expan\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:45
S956	17	S955 and ((float\$3 near3 connector\$1) or (float\$3 near state))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:46
S957	179	S955 and (connector\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 11:46
S958	215	S955 and (connect\$3)	US-PGPUB; USPAT;	OR	OFF	2019/09/15 11:46

			USOCR			
S959	26	("10007298" "20020105783" "20030128506" "20030202323" "20040080909" "20040120112" "20050047104" "20050128687" "20050146849" "20060126290" "20100002371" "20100265652" "20120218722" "20140153162" "20140285963" "20160209872" "20180373290" "20190011951" "5030128" "6115246" "6556436" "6898079" "6934151" "7038908" "7142421" "7381079").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 12:12
S960	10	("20120155014" "20120293949" "20130080713" "20140321049" "20160320801" "20170115695" "20170160772" "20170302024" "20180364756" "5829997").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 12:13
S961	36	S959 S960	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 12:13
S962	2	"20180373290"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 12:33
S963	1	"20170302024"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 12:35
S964	11	("20160069507" "20160072327" "8508932" "20120162902" "5862036" "20150331452" "20150043154" "20160091925" "20140223065" "20150043154" "20150331452" "20120045931" "20160072327" "8508932" "20160069507" "20150277491" "20160091925" "20140223065").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 12:35
S965	253	(US-20090257177-\$ or US-20110103003-\$ or US-20120092377-\$ or US-20100177476-\$ or US-20130163187-\$ or US-20120250246-\$ or US-20100195279-\$ or US-20110199726-\$ or US-20060113213-\$ or US-20090107878-\$ or US-20150362953-\$ or US-20150277491-\$ or US-20150116925-\$ or US-20150055290-\$ or US-20150055289-\$ or US-20140133080-\$ or US-20150029657-\$ or US-20130107136-\$ or US-20120162891-\$ or US-20010000447-\$ or US-20140376173-\$ or US-20140285963-\$ or US-20110043976-\$ or US-20100164837-\$ or US-20060194619-\$ or US-20060146488-\$).did. or (US-20010003450-\$ or US-20140355195-\$ or US-20120314400-\$ or US-20140042293-\$ or US-20130037228-\$ or US-20100246103-\$ or US-20060107566-\$ or US-20170169741-\$ or US-20140213324-\$ or US-20090091881-\$ or US-20060117623-\$ or US-20140333831-\$ or US-20150192958-\$ or US-20150124401-\$ or US-20140352926-\$ or US-20160341486-\$ or US-20160236445-\$ or US-20180103557-\$ or US-20100053885-\$ or US-20150092343-\$ or US-20050111183-\$ or US-20020075643-\$ or US-20010046119-\$ or US-20140101576-\$ or US-20110198460-\$ or US-20040029617-\$ or US-20120118628-\$).did. or (US-20110188180-\$ or US-20090002930-\$ or US-20140304891-\$ or US-20160043357-\$ or US-20150246176-\$ or US-20110169956-\$ or US-20140266760-\$ or US-20100155490-\$ or US-20100110274-\$ or US-20060047287-\$ or US-20180117296-\$ or US-20090275815-\$ or US-20140069432-\$ or US-20120092264-\$ or US-20120095398-\$ or US-20180093038-\$ or US-20170290534-\$ or US-20170290533-\$ or US-20160058380-\$ or US-20120277667-\$ or US-20110106126-\$ or US-20170290546-\$ or US-20140194818-\$ or US-20150138723-\$ or US-20110132557-\$ or US-20100182288-\$ or US-20120002357-\$).did. or (US-20130058021-\$ or US-20180364756-\$ or US-20170153667-\$ or US-20160062400-\$ or US-20160062399-\$ or US-20110095724-\$ or US-20130005179-\$ or US-20150268695-\$ or US-20170302024-\$ or US-20150103483-\$ or US-20130002193-\$ or US-20170208697-\$ or US-20140118923-\$ or US-20140073178-\$ or US-20130058036-\$ or US-20130050933-\$ or US-20190094907-\$ or US-20170344060-\$ or US-20170344059-\$ or US-20140092546-\$ or US-20150185777-\$ or US-20140069710-\$ or US-20130050934-\$ or US-20130016463-\$ or US-20160091925-\$ or US-20150331452-\$ or US-20170160772-\$).did. or (US-20170115695-\$ or US-20160320801-\$ or US-20140321049-\$).did. or (US-6798647-\$ or US-7068499-\$ or US-6309230-\$ or US-6445579-\$ or US-6961237-\$ or US-7618065-\$ or US-7580254-\$ or US-7365966-\$ or US-7355845-\$ or US-7236863-\$ or US-6937468-\$ or US-6856506-\$ or US-6504710-\$ or US-8199490-\$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 12:47

		6049813-\$ or US-7742289-\$ or US-7119790-\$ or US-5262759-\$ or US-5233502-\$ or US-9229484-\$ or US-6317315-\$ or US-5796576-\$ or US-5619397-\$ or US-7660103-\$ or US-6816366-\$ or US-7102592-\$).did. or (US-6757551-\$ or US-9451822-\$ or US-9060445-\$ or US-8422210-\$ or US-8730669-\$ or US-8792651-\$ or US-8737053-\$ or US-6231371-\$ or US-9047049-\$ or US-8654522-\$ or US-8644018-\$ or US-8199476-\$ or US-5825617-\$ or US-8605421-\$ or US-8380327-\$ or US-8369075-\$ or US-8270159-\$ or US-8035577-\$ or US-7667962-\$ or US-7558057-\$ or US-7440265-\$ or US-7180665-\$ or US-7095387-\$ or US-6577496-\$ or US-6377324-\$ or US-6016176-\$ or US-7714801-\$).did. or (US-8385055-\$ or US-9760126-\$ or US-9733744-\$ or US-8971031-\$ or US-9557771-\$ or US-9504170-\$ or US-9348450-\$ or US-9013864-\$ or US-9720455-\$ or US-8873225-\$ or US-8947868-\$ or US-9176535-\$ or US-8867200-\$ or US-8379377-\$ or US-8662731-\$ or US-8493726-\$ or US-8300416-\$ or US-7808550-\$ or US-8842425-\$ or US-9294597-\$ or US-9603271-\$ or US-7551432-\$ or US-9760117-\$ or US-6392883-\$ or US-5880929-\$ or US-5646822-\$ or US-6447945-\$).did. or (US-6097597-\$ or US-6069791-\$ or US-8405975-\$ or US-7086452-\$ or US-6816371-\$ or US-6324055-\$ or US-6266241-\$ or US-6078499-\$ or US-6031716-\$ or US-5910883-\$ or US-6987668-\$ or US-6833992-\$ or US-6474074-\$ or US-7552759-\$ or US-5383340-\$ or US-6377454-\$ or US-5847925-\$ or US-5634351-\$ or US-5606341-\$ or US-8893628-\$ or US-8596599-\$ or US-5537127-\$ or US-8665583-\$ or US-RE42091-\$ or US-7878476-\$ or US-6844865-\$ or US-7724503-\$).did. or (US-9318882-\$ or US-9203217-\$ or US-7486499-\$ or US-5481075-\$ or US-8551283-\$ or US-8792955-\$ or US-7946984-\$ or US-8277713-\$ or US-6589229-\$ or US-6196307-\$ or US-5349498-\$ or US-4930317-\$ or US-9901013-\$ or US-10390443-\$ or US-9743542-\$ or US-10101019-\$ or US-9911369-\$ or US-9629237-\$ or US-9756757-\$ or US-9519313-\$ or US-8654519-\$ or US-8526109-\$ or US-5504649-\$ or US-10074935-\$ or US-9915977-\$ or US-10348035-\$ or US-9429994-\$).did. or (US-5552959-\$ or US-5182698-\$ or US-5292267-\$ or US-10324495-\$ or US-5864294-\$ or US-5452180-\$ or US-5199892-\$).did. or (US-3229058-\$ or US-2885502-\$).did.				
S966	12	S965 and ((float\$3 near3 connector\$1) or (float\$3 near state))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 12:47
S967	2	"20180364756"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 14:52
S968	8779	g06f1/1632.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 14:56
S969	93	S968 and (adjust\$4 near3 connector\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 14:56
S970	0	"2018036756"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 15:20
S971	2	"20180364756"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 15:20
S972	440	439/136.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 15:30
S973	64	S972 and (dock\$4 or expan\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 15:30
S974	0	S973 and float\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 15:31
S975	3	S972 and float\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 15:31
S976	253	(US-20090257177-\$ or US-20110103003-\$ or US-20120092377-\$	US-PGPUB;	OR	OFF	2019/09/15

or US-20100177476-\$ or US-20130163187-\$ or US-20120250246-\$ USPAT;
 or US-20100195279-\$ or US-20110199726-\$ or US-20060113213-\$ USOCF
 or US-20090107878-\$ or US-20150362953-\$ or US-20150277491-\$
 or US-20150116925-\$ or US-20150055290-\$ or US-20150055289-\$
 or US-20140133080-\$ or US-20150029657-\$ or US-20130107136-\$
 or US-20120162891-\$ or US-20010000447-\$ or US-20140376173-\$
 or US-20140285963-\$ or US-20110043976-\$ or US-20100164837-\$
 or US-20060194619-\$ or US-20060146488-\$).did. or (US-
 20010003450-\$ or US-20140355195-\$ or US-20120314400-\$ or
 US-20140042293-\$ or US-20130037228-\$ or US-20100246103-\$ or
 US-20060107566-\$ or US-20170169741-\$ or US-20140213324-\$ or
 US-20090091881-\$ or US-20060117623-\$ or US-20140333831-\$ or
 US-20150192958-\$ or US-20150124401-\$ or US-20140352926-\$ or
 US-20160341486-\$ or US-20160236445-\$ or US-20180103557-\$ or
 US-20100053885-\$ or US-20150092343-\$ or US-20050111183-\$ or
 US-20020075643-\$ or US-20010046119-\$ or US-20140101576-\$ or
 US-20110198460-\$ or US-20040029617-\$ or US-20120118628-\$
).did. or (US-20110188180-\$ or US-20090002930-\$ or US-
 20140304891-\$ or US-20160043357-\$ or US-20150246176-\$ or
 US-20110169956-\$ or US-20140266760-\$ or US-20100155490-\$ or
 US-20100110274-\$ or US-20060047287-\$ or US-20180117296-\$ or
 US-20090275815-\$ or US-20140069432-\$ or US-20120092264-\$ or
 US-20120095398-\$ or US-20180093038-\$ or US-20170290534-\$ or
 US-20170290533-\$ or US-20160058380-\$ or US-20120277667-\$ or
 US-20110106126-\$ or US-20170290546-\$ or US-20140194818-\$ or
 US-20150138723-\$ or US-20110132557-\$ or US-20100182288-\$ or
 US-20120002357-\$).did. or (US-20130058021-\$ or US-
 20180364756-\$ or US-20170153667-\$ or US-20160062400-\$ or
 US-20160062399-\$ or US-20110095724-\$ or US-20130005179-\$ or
 US-20150268695-\$ or US-20170302024-\$ or US-20150103483-\$ or
 US-20130002193-\$ or US-20170208697-\$ or US-20140118923-\$ or
 US-20140073178-\$ or US-20130058036-\$ or US-20130050933-\$ or
 US-20190094907-\$ or US-20170344060-\$ or US-20170344059-\$ or
 US-20140092546-\$ or US-20150185777-\$ or US-20140069710-\$ or
 US-20130050934-\$ or US-20130016463-\$ or US-20160091925-\$ or
 US-20150331452-\$ or US-20170160772-\$).did. or (US-
 20170115695-\$ or US-20160320801-\$ or US-20140321049-\$).did.
 or (US-6798647-\$ or US-7068499-\$ or US-6309230-\$ or US-
 6445579-\$ or US-6961237-\$ or US-7618065-\$ or US-7580254-\$ or
 US-7365966-\$ or US-7355845-\$ or US-7236863-\$ or US-6937468-\$
 or US-6856506-\$ or US-6504710-\$ or US-8199490-\$ or US-
 6049813-\$ or US-7742289-\$ or US-7119790-\$ or US-5262759-\$ or
 US-5233502-\$ or US-9229484-\$ or US-6317315-\$ or US-5796576-\$
 or US-5619397-\$ or US-7660103-\$ or US-6816366-\$ or US-
 7102592-\$).did. or (US-6757551-\$ or US-9451822-\$ or US-
 9060445-\$ or US-8422210-\$ or US-8730669-\$ or US-8792651-\$ or
 US-8737053-\$ or US-6231371-\$ or US-9047049-\$ or US-8654522-\$
 or US-8644018-\$ or US-8199476-\$ or US-5825617-\$ or US-
 8605421-\$ or US-8380327-\$ or US-8369075-\$ or US-8270159-\$ or
 US-8035577-\$ or US-7667962-\$ or US-7558057-\$ or US-7440265-\$
 or US-7180665-\$ or US-7095387-\$ or US-6577496-\$ or US-
 6377324-\$ or US-6016176-\$ or US-7714801-\$).did. or (US-
 8385055-\$ or US-9760126-\$ or US-9733744-\$ or US-8971031-\$ or
 US-9557771-\$ or US-9504170-\$ or US-9348450-\$ or US-9013864-\$
 or US-9720455-\$ or US-8873225-\$ or US-8947868-\$ or US-
 9176535-\$ or US-8867200-\$ or US-8379377-\$ or US-8662731-\$ or
 US-8493726-\$ or US-8300416-\$ or US-7808550-\$ or US-8842425-\$
 or US-9294597-\$ or US-9603271-\$ or US-7551432-\$ or US-
 9760117-\$ or US-6392883-\$ or US-5880929-\$ or US-5646822-\$ or
 US-6447945-\$).did. or (US-6097597-\$ or US-6069791-\$ or US-
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 or US-10101019-\$ or US-9911369-\$ or US-9629237-\$ or US-

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S977	12	S976 and ((float\$4 near3 connector\$1) or (float\$3 near state))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 15:39
S978	12	S976 and ((float\$4 near3 connector\$1) or (float\$4 near state))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 15:39
S979	21	S976 and ((float\$4))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 15:39
S980	0	haughton.ap.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:43
S981	1336	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:43
S982	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:43
S983	1603	S981 S982	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:43
S984	13	S983 and ((flex\$3 or roll\$4) near display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:44
S985	4	S983 and ((flex\$3) near display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:44
S986	0	S985 and (roll\$4 or wind\$4 or wound\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:44
S987	72	S983 and (flex\$4 near display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:44
S988	50	S987 and (roll\$4 or wind\$4 or wound\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:45
S989	7	S988 and gear\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:45
S990	1	("0000112").PN.	US-PGPUB; USPAT	OR	OFF	2019/09/15 16:45
S991	3687	g06f1/1652.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:45
S992	2929	S991 and (flex\$4 near display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:45
S993	1986	S992 and (roll\$4 or wind\$4 or wound\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:46
S994	228	S993 and gear\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:46
S995	103	S994 and spring\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:46
S996	28	S994 and (coil\$3 near2 spring\$4)	US-PGPUB; USPAT;	OR	OFF	2019/09/15 16:47

			USOCR			
S997	75	S995 not S996	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:57
S998	125	S994 not S995	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 16:58
S999	2	"20160320804"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/15 17:04
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		("9700114") or ("5515237") or ("20090045037") or ("9481080") or ("8689450") or ("9498034") or ("20130037597") or ("20100062615") or ("20090137948") or ("20110194232") or ("20120272529") or ("7596976") or ("9022271") or ("20120288325") or ("20180232013") or ("20040223293") or ("8915105") or ("8931139") or ("9185953") or ("10182815") or ("6097810") or ("5764476") or ("6186821") or ("7331204") or ("20070158944") or ("20120156900") or ("8414315") or ("20150323954") or ("20040142753") or ("20150376872") or ("7341166") or ("10322239") or ("20140360893") or ("2907302") or ("20030170070") or ("20050041378") or ("20100301097") or ("20130276590") or ("7496990") or ("20060011352") or ("9817449") or ("20190117248") or ("20090324327") or ("20120103033") or ("7793528") or ("6572401") or ("20120121367") or ("9854694") or ("20030071471") or ("20190121400") or ("7434614") or ("20110213347") or ("9923297") or ("8308204") or ("9317077") or ("7101300") or ("4281722") or ("3525830") or ("6752562") or ("6209176") or ("7963134") or ("5823814") or ("4161637") or ("20120083853") or ("3968338") or ("8561870") or ("20130330959") or ("6510051") or ("20180301848") or ("5800216") or ("8235411") or ("20100227494") or ("20090084145") or ("20060117484") or ("7845721") or ("5851214") or ("8784127") or ("4225220") or ("8730667") or ("20050065410") or ("10363034") or ("4682483") or ("2238942") or ("20160216684") or ("8267210") or ("8933356") or ("20170183048") or ("20150090471") or ("3931723") or ("6108867") or ("20160270822") or ("20130340492") or ("20060282082") or ("20150227178") or ("20130287433") or ("10024154") or ("9606575") or ("8702336") or ("20180324964") or ("20090030457") or ("4972508") or ("20020030970") or ("8075597") or ("8474448") or ("9442458") or ("20100064738") or ("20140109730") or ("7125379") or ("20110024480") or ("8287292") or ("7431356") or ("20100242332") or ("20080015631") or ("20140217698").PN. or ("6934151") or ("5995366") or ("20120015547") or ("9795435") or ("8061673") or ("8033844") or ("8381556") or ("7841888") or ("8820194") or ("20100043502") or ("3791235") or ("20180099147") or ("20120175450") or ("8991811") or ("8047100") or ("20120172803") or ("20180311007") or ("20040214077") or ("20070175248") or ("6591709") or ("20120220988") or ("8997534") or ("20070260124") or ("8956360") or ("8707745") or ("20020001988") or ("20100109408") or ("8801752") or ("20060284467") or ("6830472") or ("9203938") or ("9914176") or ("20180074542") or ("7549887") or ("20070266747") or ("20160347276") or ("20100236304") or ("20150263464") or ("20060005658") or ("3832726") or ("20170265859") or ("6474119") or ("6598909") or ("8661864") or ("20010021599") or ("9457833") or ("5875524") or ("20120000259") or ("20190247261") or ("10061354") or ("20150327855") or ("8713758") or ("20150196125") or ("5496194") or ("7548761") or ("20120091182") or ("6972946") or ("20140014705") or ("9952623") or ("7682100") or ("4335286") or ("4776187") or ("20190249458") or ("7371102") or ("4772078") or ("20130153375") or ("9414860") or ("7815091") or ("8839650") or ("8925416") or ("7870764") or ("20080250826") or ("9751641") or ("9350095") or ("20170258466") or ("20150005788").PN.				
S1011	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 01:29
S1012	1336	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 01:29
S1013	1603	S1011 S1012	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 01:29
S1014	381	S1013 and ((portable or notbook or laptop or (lap near top) or clamshell) near3 (computer or (electronic near device)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 01:30
S1015	133	S1014 and (lock\$3)	US-PGPUB; USPAT;	OR	OFF	2019/09/16 01:30

			USOCR			
S1016	10805	g06f1/1616.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 01:31
S1017	2331	g06f1/1679.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 01:32
S1018	1347	S1016 and S1017	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 01:32
S1019	773	S1018 and ((portable or notbook or laptop or (lap near top) or clamshell) near3 (computer or (electronic near device)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 01:32
S1020	541	S1019 and (lock\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 01:32
S1021	525	S1020 not S1015	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 01:33
S1022	10	("20030089147" "20130180295" "20140085788" "20150059422" "6463770" "6578394" "6788216" "8833117" "9062476").PN. OR ("9784019").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 01:35
S1023	501	S1021 and (hing\$4 or rotat\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 01:45
S1024	66	((("AHN") near3 ("Sung-Ho")) OR (("WOO") near3 ("Sung-Gwan")) OR (("KWAK") near3 ("Ki-Ju"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/09/16 10:23
S1025	31228	G06F1/16,1601,1626,1616,1652.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 10:23
S1026	7826	361/679.21-679.3,679.55,679.56.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 10:23
S1027	7309	361/679.01-679.02.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 11:10
S1028	3432	G06F1/16.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 11:10
S1029	11573	G06F1/16,32,1601,1603,1605,1607,1609,1611.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 11:10
S1030	1240	B08B1/006,002.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 11:11
S1031	118	B08B11/04.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 11:11
S1032	3688	A45C11/00.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 11:11
S1033	1837	H04B1/3816.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 11:11
S1034	50	((("MAYFIELD") near3 ("Walter")) OR (("VALDEZ") near3 ("Daniel"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/09/16 11:12
S1035	2	"20130005179"	US-PGPUB; USPAT;	OR	OFF	2019/09/16 11:33

			USOCR			
S1036	11	((("20130058021") or ("5504649") or ("20180364756") or ("20170153667") or ("20160062400") or ("20160062399") or ("10074935") or ("9915977") or ("20130005179") or ("20150103483") or ("20140118923")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 12:05
S1037	8	((("20140092566") or ("20180376603") or ("20180114471") or ("20160320804") or ("20100177020") or ("10162387") or ("20170064847") or ("20160363960")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 12:19
S1038	8	S1037 and spring\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 12:33
S1039	4	S1037 and (magnet\$2 or magnetically)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 12:33
S1040	2	S1037 and (coil\$3 near3 spring\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 12:34
S1041	289	(US-20090257177-\$ or US-20110103003-\$ or US-20120092377-\$ or US-20100177476-\$ or US-20130163187-\$ or US-20120250246-\$ or US-20100195279-\$ or US-20110199726-\$ or US-20060113213-\$ or US-20090107878-\$ or US-20150362953-\$ or US-20150277491-\$ or US-20150116925-\$ or US-20150055290-\$ or US-20150055289-\$ or US-20140133080-\$ or US-20150029657-\$ or US-20130107136-\$ or US-20120162891-\$ or US-20010000447-\$ or US-20140376173-\$ or US-20140285963-\$ or US-20110043976-\$ or US-20100164837-\$ or US-20060194619-\$ or US-20060146488-\$).did. or (US-20010003450-\$ or US-20140355195-\$ or US-20120314400-\$ or US-20140042293-\$ or US-20130037228-\$ or US-20100246103-\$ or US-20060107566-\$ or US-20170169741-\$ or US-20140213324-\$ or US-20090091881-\$ or US-20060117623-\$ or US-20140333831-\$ or US-20150192958-\$ or US-20150124401-\$ or US-20140352926-\$ or US-20160341486-\$ or US-20160236445-\$ or US-20180103557-\$ or US-20100053885-\$ or US-20150092343-\$ or US-20050111183-\$ or US-20020075643-\$ or US-20010046119-\$ or US-20140101576-\$ or US-20110198460-\$ or US-20040029617-\$ or US-20120118628-\$).did. or (US-20110188180-\$ or US-20090002930-\$ or US-20140304891-\$ or US-20160043357-\$ or US-20150246176-\$ or US-20110169956-\$ or US-20140266760-\$ or US-20100155490-\$ or US-20100110274-\$ or US-20060047287-\$ or US-20180117296-\$ or US-20090275815-\$ or US-20140069432-\$ or US-20120092264-\$ or US-20120095398-\$ or US-20180093038-\$ or US-20170290534-\$ or US-20170290533-\$ or US-20160058380-\$ or US-20120277667-\$ or US-20110106126-\$ or US-20170290546-\$ or US-20140194818-\$ or US-20150138723-\$ or US-20110132557-\$ or US-20100182288-\$ or US-20120002357-\$).did. or (US-20130058021-\$ or US-20180364756-\$ or US-20170153667-\$ or US-20160062400-\$ or US-20160062399-\$ or US-20110095724-\$ or US-20130005179-\$ or US-20150268695-\$ or US-20170302024-\$ or US-20150103483-\$ or US-20130002193-\$ or US-20170208697-\$ or US-20140118923-\$ or US-20140073178-\$ or US-20130058036-\$ or US-20130050933-\$ or US-20190094907-\$ or US-20170344060-\$ or US-20170344059-\$ or US-20140092546-\$ or US-20150185777-\$ or US-20140069710-\$ or US-20130050934-\$ or US-20130016463-\$ or US-20160091925-\$ or US-20150331452-\$ or US-20170160772-\$).did. or (US-20170115695-\$ or US-20160320801-\$ or US-20140321049-\$ or US-20130163186-\$ or US-20110242754-\$ or US-20180160554-\$ or US-20140092566-\$ or US-20190150300-\$ or US-20180376603-\$ or US-20180114471-\$ or US-20160320804-\$ or US-20140247544-\$ or US-20140211399-\$ or US-20110018785-\$ or US-20100177020-\$ or US-20090302176-\$ or US-20170064847-\$ or US-20050041012-\$ or US-20170023978-\$ or US-20160363960-\$ or US-20160324021-\$ or US-20160143131-\$ or US-20130058063-\$ or US-20180046218-\$ or US-20180046216-\$ or US-20160252935-\$ or US-20150301564-\$).did. or (US-6798647-\$ or US-7068499-\$ or US-6309230-\$ or US-6445579-\$ or US-6961237-\$ or US-7618065-\$ or US-7580254-\$ or US-7365966-\$ or US-7355845-\$ or US-7236863-\$ or US-6937468-\$ or US-6856506-\$ or US-6504710-\$ or US-8199490-\$ or US-6049813-\$ or US-7742289-\$ or US-7119790-\$ or US-5262759-\$ or US-5233502-\$ or US-9229484-\$ or US-6317315-\$ or US-5796576-\$ or US-5619397-\$ or US-7660103-\$ or US-6816366-\$ or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 12:41

		US-7102592-\$).did. or (US-6757551-\$ or US-9451822-\$ or US-9060445-\$ or US-8422210-\$ or US-8730669-\$ or US-8792651-\$ or US-8737053-\$ or US-6231371-\$ or US-9047049-\$ or US-8654522-\$ or US-8644018-\$ or US-8199476-\$ or US-5825617-\$ or US-8605421-\$ or US-8380327-\$ or US-8369075-\$ or US-8270159-\$ or US-8035577-\$ or US-7667962-\$ or US-7558057-\$ or US-7440265-\$ or US-7180665-\$ or US-7095387-\$ or US-6577496-\$ or US-6377324-\$ or US-6016176-\$ or US-7714801-\$).did. or (US-8385055-\$ or US-9760126-\$ or US-9733744-\$ or US-8971031-\$ or US-9557771-\$ or US-9504170-\$ or US-9348450-\$ or US-9013864-\$ or US-9720455-\$ or US-8873225-\$ or US-8947868-\$ or US-9176535-\$ or US-8867200-\$ or US-8379377-\$ or US-8662731-\$ or US-8493726-\$ or US-8300416-\$ or US-7808550-\$ or US-8842425-\$ or US-9294597-\$ or US-9603271-\$ or US-7551432-\$ or US-9760117-\$ or US-6392883-\$ or US-5880929-\$ or US-5646822-\$ or US-6447945-\$).did. or (US-6097597-\$ or US-6069791-\$ or US-8405975-\$ or US-7086452-\$ or US-6816371-\$ or US-6324055-\$ or US-6266241-\$ or US-6078499-\$ or US-6031716-\$ or US-5910883-\$ or US-6987668-\$ or US-6833992-\$ or US-6474074-\$ or US-7552759-\$ or US-5383340-\$ or US-6377454-\$ or US-5847925-\$ or US-5634351-\$ or US-5606341-\$ or US-8893628-\$ or US-8596599-\$ or US-5537127-\$ or US-8665583-\$ or US-RE42091-\$ or US-7878476-\$ or US-6844865-\$ or US-7724503-\$).did. or (US-9318882-\$ or US-9203217-\$ or US-7486499-\$ or US-5481075-\$ or US-8551283-\$ or US-8792955-\$ or US-7946984-\$ or US-8277713-\$ or US-6589229-\$ or US-6196307-\$ or US-5349498-\$ or US-4930317-\$ or US-9901013-\$ or US-10390443-\$ or US-9743542-\$ or US-10101019-\$ or US-9911369-\$ or US-9629237-\$ or US-9756757-\$ or US-9519313-\$ or US-8654519-\$ or US-8526109-\$ or US-5504649-\$ or US-10074935-\$ or US-9915977-\$ or US-10348035-\$ or US-9429994-\$).did. or (US-5552959-\$ or US-5182698-\$ or US-5292267-\$ or US-10324495-\$ or US-5864294-\$ or US-5452180-\$ or US-5199892-\$ or US-9972930-\$ or US-10162387-\$ or US-9004138-\$ or US-8184369-\$ or US-7395850-\$ or US-9772657-\$ or US-9784019-\$ or US-8520377-\$ or US-8223486-\$ or US-8023252-\$ or US-7969731-\$ or US-7778027-\$).did. or (US-3229058-\$ or US-2885502-\$).did.				
S1042	7	("20080049560" "20130272103" "7126483" "4903253" "20130261405" "9721452" "20160069371").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 13:43
S1043	3	((("20160313700" or ("20160058375" or ("20110007468")))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 13:44
S1044	2	"20080049560"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 13:55
S1045	38	("20010004397" "20020101457" "20030043698" "20030174589" "20070008824" "2472351" "3675414" "4178751" "4194351" "4229936" "4462697" "4638409" "4704037" "4708492" "4727524" "4897826" "4958279" "5010532" "5500837" "5899370" "6224254" "6238083" "6556222" "6619836" "6728166" "6766182" "6775206" "6796708" "6857775" "6968508" "6971789" "7114845" "D474984").PN. OR ("7874722").JRP.N.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 13:55
S1046	7247	g06f1/163.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 13:57
S1047	9651	a61b5/681,0059.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 13:58
S1048	7577	361/679.01-679.03.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 13:58
S1049	22	((("20190076089" or ("10285643" or ("9730340" or ("10368457" or ("20180299834" or ("20160062398" or ("10222756" or ("20160054537" or ("20160313703" or ("20110187245" or ("9846452" or ("9232670" or ("20130328462" or ("10018966" or ("9606579" or ("20170196112" or ("20110186345" or ("8551283" or ("20120275100" or ("20110188180" or	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:01

		("9185816") or ("8797721").PN.				
S1050	16	("2719403" "3727367" "4181317" "4205523" "4276630" "4970708" "5363350" "5657298" "6357908" "6575619" "6616329").PN. OR ("6971789").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:07
S1051	61	("1093257" "1797583" "2758763" "2791314" "3480432" "3492809" "3545199" "3677059" "4034433" "4060185" "4081815" "4101325" "4277842" "4334758" "4407850" "4588277" "4742503" "4759926").PN. OR ("4958279").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:11
S1052	4	S1051 and tension\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:12
S1053	1	S1050 and tension\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:13
S1054	0	S1046 and (tension\$3 near ring)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:15
S1055	0	S1047 and (tension\$3 near ring)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:15
S1056	0	S1046 and (tension\$3 near ring)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:15
S1057	597	S1046 and (tension\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:16
S1058	1154	S1047 and (tension\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:16
S1059	438	S1048 and (tension\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:16
S1060	122	S1057 and (wear\$4 near3 ((electronic near (device or watch or iwatch))))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:31
S1061	51	S1058 and (wear\$4 near3 ((electronic near (device or watch or iwatch))))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:35
S1062	8	S1059 and (wear\$4 near3 ((electronic near (device or watch or iwatch))))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:36
S1063	151	S1060 S1061	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:38
S1064	4	S1063 and ((tension\$3) with (cover or panel or door or closure))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:39
S1065	1	"20170017273"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/16 14:48
S1073	8166	G06F1/163,1633.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 15:41
S1074	7577	361/679.01-679.03.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 15:41
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S1082	1987	S1077 not S1076	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 16:03
S1083	32	S1078 S1081	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 16:03
S1084	2375	S1080 not S1079	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 16:04
S1085	8843	g06f1/1632.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:01
S1086	962	g06f1/1669.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:03
S1087	3480	S1085 and magnet\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:04
S1088	559	S1086 and magnet\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:04
S1089	2225	S1087 and ((tablet or portable) near (device or computer))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:06
S1090	435	S1088 and ((tablet or portable) near (device or computer))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:06
S1091	1609	S1089 and (keyboard or (key near (pad or board)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:07
S1092	424	S1090 and (keyboard or (key near (pad or board)))	US-PGPUB;	OR	OFF	2019/09/25

			USPAT; USOCR			17:07
S1093	1101	S1091 and (pivot\$4 or rotat\$4 or hing\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:07
S1094	404	S1092 and (pivot\$4 or rotat\$4 or hing\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:07
S1095	973	S1093 not S1094	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:09
S1096	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:26
S1097	1346	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:26
S1098	275	S1097 and ((tablet or portable) near (device or computer))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:26
S1099	1613	S1096 S1097	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:26
S1100	320	S1099 and ((tablet or portable) near (device or computer))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:27
S1101	59	S1100 and dock\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:27
S1102	36	S1101 and (keyboard or (key near (pad or board)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:27
S1103	13	("20050139740" "20080232061" "20100081473" "20110038105" "4571456" "6430038" "7059576" "7068496" "7280348" "7586743" "7922132").PN. OR ("8937803").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:30
S1104	2	"20050139740"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:32
S1105	18	("0681976" "20030019996" "20030213886" "4044980" "4440373" "4522364" "4886231" "6045108" "6216316" "6679468").PN. OR ("7059576").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:32
S1106	33	("20040114315" "20060261605" "20070035917" "20070121303" "20070217135" "20080232061" "20090103261" "20100123663" "20100176698" "20100238620" "20100321877" "20130027872" "20130031289" "20130094134" "20130128453" "20130162554" "20130242490" "20140313665" "4618119" "5085394" "6366440" "6922333" "7239505" "7907393" "8230992" "8693191" "8937803").PN. OR ("9072174").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:34
S1107	1	"20130242490"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:42
S1108	4	("20170351298" "9372511" "9778702" "9823701").PN.	US-PGPUB; USPAT	OR	OFF	2019/09/25 17:52
S1109	1	("20150041341").PN.	US-PGPUB; USPAT	OR	OFF	2019/09/25 17:52
S1110	4	("20130279096" "20170177037" "20170192455" "20180196473").PN.	US-PGPUB; USPAT	OR	OFF	2019/09/25 17:52
S1111	9	S1108 S1109 S1110	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 17:53
S1114	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 20:59

S1115	1346	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 20:59
S1116	1369	361/679.41-679.44.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 20:59
S1117	8843	g06f1/1632.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 20:59
S1118	962	g06f1/1669.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:00
S1119	191	361/679.17.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:00
S1120	1613	S1114 S1115	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:00
S1121	63	S1116 and S1120	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:00
S1122	87	S1117 and S1120	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:00
S1123	25	S1118 and S1120	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:00
S1124	7	S1119 and S1120	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:00
S1125	141	S1121 S1122 S1123 S1124	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:00
S1126	34	S1125 and magnet\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:00
S1127	15	("20060007645" "20100022719" "6700775" "6781823" "6882524" "6940713" "7002794" "7379382" "7916468" "8665589").PN. OR ("9025327").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:07
S1128	21	("20020159226" "20020171020" "20050073808" "20050135049" "20050139740" "20120229970" "20130015310" "20140139989" "20150153783" "6700775" "6986492" "7916468" "8253518" "8665589" "9019695" "9025327" "9081544" "9600034").PN. OR ("9996112").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:11
S1129	43	("20010027589" "20050057893" "20070279002" "20100123663" "20100238620" "20110096513" "20110182030" "20110241607" "20110255221" "20120057288" "20120087100" "20120170191" "20130039000" "20130070408" "20130163187" "20130279096" "20130279100" "20140139989" "20150185783" "6381808" "6937468" "7103698" "7327560" "7983035" "8129939" "8472168" "8526172" "8599542" "8699215" "8817457" "8929070" "8947867" "8995121" "9019695" "9218025" "9256256" "9268369" "9483076" "9489054").PN. OR ("9600034").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:17
S1130	2	"20110096513"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:25
S1131	19	("4730160" "5295089" "5859762" "6778196" "6922333" "7280348" "7586743").PN. OR ("8358513").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:25
S1132	232	S1121 S1122 S1123 S1124 S1125 S1126 S1127 S1128 S1129 S1130 S1131	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:53
S1133	39310	"1093"	US-PGPUB;	OR	OFF	2019/09/25

			USPAT; USOCR			21:54
S1134	8843	g06f1/1632.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:54
S1135	3480	S1134 and magnet\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:54
S1136	2225	S1135 and ((tablet or portable) near (device or computer))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:54
S1137	1609	S1136 and (keyboard or (key near (pad or board)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:54
S1138	1101	S1137 and (pivot\$4 or rotat\$4 or hing\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:54
S1139	1101	S1138	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:54
S1140	1072	S1139 not S1132	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 21:58
S1141	1072	S1140 and magnet\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 22:00
S1142	52	(US-20050139740-\$ or US-20130242490-\$ or US-20130128453-\$ or US-20130031289-\$ or US-20160179142-\$ or US-20160189328-\$ or US-20170364125-\$ or US-20170068281-\$ or US-20170192455-\$ or US-20170177037-\$ or US-20150041341-\$ or US-20150277499-\$ or US-20160357224-\$ or US-20180081402-\$ or US-20170351298-\$ or US-20170163304-\$ or US-20140347814-\$ or US-20160327994-\$ or US-20160282955-\$ or US-20160252971-\$ or US-20140043743-\$ or US-20150043155-\$ or US-20140362044-\$ or US-20140139989-\$ or US-20060007645-\$ or US-20120229970-\$.did. or (US-20130279096-\$ or US-20120057288-\$ or US-20110096513-\$ or US-20140104761-\$ or US-20140071654-\$ or US-20130088431-\$ or US-20130015310-\$ or US-20110317354-\$ or US-20180107253-\$ or US-20170191608-\$ or US-20170060180-\$.did. or (US-8937803-\$ or US-9072174-\$ or US-7280348-\$ or US-7586743-\$ or US-8988863-\$ or US-9778703-\$ or US-9372511-\$ or US-9618987-\$ or US-9025327-\$ or US-8913376-\$ or US-9996112-\$ or US-9600034-\$ or US-8995149-\$ or US-9019695-\$ or US-8472168-\$.did.	US-PGPUB; USPAT	OR	OFF	2019/09/25 23:49
S1143	1	S1142 and foam	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 23:50
S1144	47	S1142 and magnet\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/25 23:50
S1145	21	("20040160735" "20050111182" "20060007645" "20090263620" "20100238620" "5193069" "6937468").PN. OR ("8913376").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/26 00:07
S1146	10	S1132 and foam	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/26 00:20
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S1160	295	S1159 and (hing\$4 or rotat\$4 or pivot\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 17:47
S1161	109	S1160 and eject\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 17:48
S1162	378	("20010001083" "20010001319" "20010055071" "20020005917" "20020085129" "20020105507" "20020113451" "20020149708" "20020186531" "20030020840" "20030021086" "20030025367" "20030036357" "20030112585" "20030128183" "20030137584" "20030140352" "20030184137" "20030198008" "20030202005" "20030222848" "20040007906" "20040080213" "20040085337" "20040085485" "20040085718" "20040086259" "20040125549" "20040130616" "20040160096" "20040212957" "20040227372" "20040227695" "20040227696" "20040227861" "20040228622" "20040237111" "20050005298" "20050020320" "20050024356" "20050052046" "20050098593" "20050099042" "20050099495" "20050099547" "20050099548" "20050102697" "20050110313" "20050110913" "20050122670" "20050132407" "20050155068" "20050166238" "20050174498" "20050200697" "20050223406" "20050232585" "20050235326" "20050235327" "20050242636" "20050242637" "20050242638" "20050249357" "20050251833" "20060023412" "20060034040" "20060047426" "20060070102" "20060070103" "20060097537" "20060112144" "20060119151" "20060125295" "20060128303" "20060218595" "20060227212" "20060236345" "20060238529" "20060290835" "20070008094" "20070052618" "20070057541" "20070070259" "20070091015" "20070096517" "20070101372" "20070105444" "20070108788" "20070164609" "20080067842" "20080093956" "20080165293" "20080191505").PN. OR ("20080252118" "20090013357" "20090235513" "20090315368" "20100017827" "20100067884" "20100146563" "20100211708" "20100246155" "20110167460" "20110181796" "3019050" "3284041"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 17:53

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S1163	257	S1162 and (hing\$4 or rotat\$4 or pivot\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 17:54	
S1164	42	S1163 and eject\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 17:57	
S1165	8847	g06f1/1632.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 17:58	
S1166	5509	S1165 and (hing\$4 or rotat\$4 or pivot\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 17:58	
S1167	736	S1166 and eject\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:02	
S1168	48	("4969830" "5402310" "5805412" "5870283" "6072695"	US-PGPUB;	OR	OFF	2019/09/28	

		"6093039" "6135801" "6264488").PN. OR ("6549416").URPN.	USPAT; USOCR			18:08
S1169	132	S1167 and cam	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:20
S1170	22670	(hing\$4 or rotat\$4 or pivot\$4) near (display)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:29
S1171	7	S1163 and (eject\$3 near button\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:29
S1172	537	g11b33/025.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:32
S1173	1312	g11b33/10.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:33
S1174	51	S1172 and (eject\$3 near button\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:33
S1175	105	S1172 and (eject\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:33
S1176	51	S1173 and (eject\$3 near button\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:33
S1177	191	S1173 and (eject\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:33
S1178	286	S1174 S1175 S1176 S1177	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:33
S1179	225	S1178 and (hing\$4 or rotat\$4 or pivot\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:33
S1180	104	S1170 and (eject\$3 near button\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:34
S1181	4	S1179 and (slid\$4 near3 button\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:35
S1182	8	S1180 and (slid\$4 near3 button\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:35
S1183	12	S1181 S1182	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 18:35
S1184	1	("4810087" "D000es.").PN.	US-PGPUB; USPAT	OR	OFF	2019/09/28 19:36
S1185	0	361/681.cds.	US-PGPUB; USPAT	OR	OFF	2019/09/28 19:38
S1186	26	("20040005138" "20050025466" "20050213297" "20060130078" "4481382" "4633323" "5499221" "7184259").PN. OR ("7277272").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 19:43
S1187	2	"20060130078"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 19:47
S1188	15	("20040005138" "20050025466" "6006243" "6522368" "7277272" "D409608" "D466490" "D469419" "D478887" "D521964" "D532400").PN. OR ("7398535").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 19:47
S1189	1	"20050025466"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 19:48

S1190	1	"20050213297"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 19:48
S1191	21	("6178087" "6700775" "5436792" "6282082" "6882524" "5619397" "5668570" "6173933" "6594146" "6980420" "5133076" "5552957" "5329289" "5859762" "6494736" "6900980" "D439908" "5832080" "5899421" "5432720" "5915661").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 19:49
S1192	3	("20020034127" "6272575" "6813147").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 19:49
S1193	24	S1191 S1192	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 19:49
S1194	16	("0000006" "5265083").PN. OR ("6813147").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 19:54
S1195	364	("20010001083" "20010001319" "20010055071" "20020005917" "20020085129" "20020105507" "20020113451" "20020149708" "20020186531" "20030020840" "20030021086" "20030025367" "20030036357" "20030112585" "20030128183" "20030137584" "20030140352" "20030184137" "20030198008" "20030202005" "20030222848" "20040007906" "20040032543" "20040080213" "20040083491" "20040085337" "20040085485" "20040085718" "20040086259" "20040125549" "20040130616" "20040160096" "20040212745" "20040212957" "20040227372" "20040227695" "20040227696" "20040227861" "20040228622" "20050005298" "20050020320" "20050024356" "20050046756" "20050052046" "20050066369" "20050098593" "20050099042" "20050099495" "20050099547" "20050099548" "20050102697" "20050110313" "20050110913" "20050122670" "20050132407" "20050155068" "20050166238" "20050174498" "20050200697" "20050223406" "20050232585" "20050235326" "20050235327" "20050242636" "20050242637" "20050242638" "20050249357" "20050251833" "20060023412" "20060034040" "20060047426" "20060070102" "20060070103" "20060097537" "20060112144" "20060119151" "20060125295" "20060128303" "20060218595" "20060227212" "20060236345" "20060238529" "20070001492" "20070001493" "20070008094" "20070052618" "20070057541" "20070070259" "20070091015" "20070096517" "20070096518" "20070097210" "20070101372").PN. OR ("20070105444" "20070108788" "20070164609" "20080067842" "20080093956" "20080165293" "20080191505" "20080246319" "20080246320" "20080252118" "20090013357" "20090021036" "3019050" "3284041" "3737184" "3773378" "3944020" "4079987" "4100372" "4101159" "4241870" "4281577" "4352200" "4394055" "4440443" "4584603" "4630821" "4635110" "4647980" "4669694" "4681366" "4756528" "4758047" "4792183" "4797934" "4818010" "4824159" "4833727" "4843477" "4867498" "4870676" "4950842" "4982996" "4983951" "5040990" "5061996" "5096271" "5109572" "5145128" "5163870" "5177616" "5188421" "5192301" "5214514" "5255214" "5267775" "5303970" "5311302" "5338081" "5359349" "5396340" "5397160" "5410447" "5467106" "5469298" "5507556" "5522638" "5529265" "5547248" "5555466" "5583735" "5636891" "5705860" "5709360" "5713633" "5775762" "5808862" "5811791" "5822023" "5823599" "5831811" "5842715" "5847685" "5910882" "5927784" "5940120" "5946055" "5949345" "5959596" "5982429" "5984347" "5996954" "5997091" "6007036" "6045181" "6055478" "6056248" "6059255" "6081420" "6092705" "6093039" "6097448" "6102476"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 20:06

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S1196	93	("0893072" "1257998" "1872440" "1907625" "2153819" "2247937" "2718421" "3055204" "3077359" "3156493" "3737184" "5145128" "5583735" "D390143" "D390219" "D394432" "D398921" "D399200").PN. OR ("6059255").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 20:31
S1197	998	S1170 and ((hing\$4 or rotat\$4 or pivot\$4) near (slid\$4))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 21:00
S1198	2180	S1170 and ((hing\$4 or rotat\$4 or pivot\$4) near3 (slid\$4))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 21:00
S1199	198	S1197 and ((hing\$4 or rotat\$4 or pivot\$4) near3 (spring\$4 or bias\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 21:00
S1200	486	S1198 and ((hing\$4 or rotat\$4 or pivot\$4) near3 (spring\$4 or bias\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 21:00
S1201	0	S1199 and (eject\$4 near2 button\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 21:01
S1202	2	S1200 and (eject\$4 near2 button\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 21:01
S1203	50	S1200 and (eject\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 21:01
S1204	28	S1199 and (eject\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 21:01
S1205	50	S1203 S1204	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 21:02
S1206	0	"14667107".apn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 21:12
S1207	5	"667107".apn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 21:12
S1208	9	("20070296224" "20090213536" "5793614" "8098488").PN.	US-PGPUB;	OR	OFF	2019/09/28

		OR ("9535457").URPN.	USPAT; USOCR			21:55
S1209	1	"20170068276"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 22:16
S1210	2	"20160179142"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 22:17
S1211	73	("20060244870" "5863221" "6129321" "7532735" "7312984" "7688580" "20050288071" "4942356" "5201896" "5257164" "5588853" "6502265" "6987787" "7090534" "7509824" "8472186" "20070261978" "20070086273" "20060021154" "20110102995" "4732281" "5501607" "5626489" "6247965" "6446913" "20130044420" "5199888" "7563113" "20030137148" "20040143368" "20100170303" "5205524" "5320311" "5730409" "6481679" "7861992" "7263032" "20110211300" "9668370" "20080004904" "20090084601" "20100107076" "5420828" "5836563" "6171118" "7445490" "20040260427" "20090086459" "5016952" "6700773" "7688580" "20070115387" "20100006314" "20090219676" "20100070089" "5895022" "5980278" "6112224" "7118000" "20050254778" "20140368994" "4649453" "7611371" "20070014491" "20090101382" "4928914" "5262762" "6467745" "6504707" "6888067" "7401755" "7744411" "4584718" "6757160").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 22:57
S1212	58	("5863221" "7532735" "5262762" "5836563" "6504707" "6129321" "4942356" "5201896" "5588853" "7090534" "7509824" "6502265" "6987787" "4732281" "20060244870" "6446913" "20050288071" "5257164" "7997555" "5501607" "5626489" "6247965" "20060021154" "20100170303" "20110102995" "6700773" "6504717" "5205524" "5730409" "6481679" "7861992" "20040143368" "20030137148" "5320311" "20050288071" "8472186" "20090084601" "6171118" "7445490" "20080004904" "5420828" "7401755" "20100107076" "8050030" "5016952" "20090086459" "7688580" "20040260427" "5980278" "6112224" "7118000" "20100070089" "5895022" "20090101382" "4928914" "6467745" "6888067" "7744411" "20070014491").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 22:57
S1213	3	S1212 not S1211	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 23:01
S1214	0	S1213 and (waterproof\$4 or (water near2 proof\$4))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 23:04
S1215	12	((("20100006314") or ("20070261978") or ("20070086273") or ("20050254778") or ("7688580") or ("7312984") or ("7263032") or ("5980278") or ("5863221") or ("5588853") or ("4649453") or ("4584718")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/28 23:30
S1216	2	((("20050288071") or ("5836563")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 01:31
S1217	73	("20060244870" "5863221" "6129321" "7532735" "7312984" "7688580" "20050288071" "4942356" "5201896" "5257164" "5588853" "6502265" "6987787" "7090534" "7509824" "8472186" "20070261978" "20070086273" "20060021154" "20110102995" "4732281" "5501607" "5626489" "6247965" "6446913" "20130044420" "5199888" "7563113" "20030137148" "20040143368" "20100170303" "5205524" "5320311" "5730409" "6481679" "7861992" "7263032" "20110211300" "9668370" "20080004904" "20090084601" "20100107076" "5420828" "5836563" "6171118" "7445490" "20040260427" "20090086459" "5016952" "6700773" "7688580" "20070115387" "20100006314" "20090219676" "20100070089" "5895022" "5980278" "6112224" "7118000" "20050254778" "20140368994" "4649453" "7611371" "20070014491"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 01:33

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S1218	33	S1217 and water	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 01:33
S1219	35	S1217 and (water or waterproof or (water near proof))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 01:33
S1220	1	("6504707").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 01:47
S1221	2	((("20100320884") or ("20040184228")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:07
S1222	6	("6560612" "9015625" "20160370910" "20040145862" "20110193813" "20170068346").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:07
S1223	2	((("20150002398") or ("20170177030")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:17
S1224	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:19
S1225	1346	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:19
S1226	1613	S1224 S1225	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:19
S1227	90	S1226 and (touchpad or (touch near pad))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:19
S1228	52	S1227 and switch\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:19
S1229	15198	display near2 (touchpad or (touch near pad))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:24
S1230	7912	display near (touchpad or (touch near pad))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:24
S1231	6041	S1230 and switch\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:25
S1232	1928	S1231 and (hing\$4 or rotat\$4 or pivot\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:26
S1233	22	S1232 and (tactile near3 switch\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:27
S1234	61	S1229 and (tactile near3 switch\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:28
S1235	42	S1234 and (hing\$4 or rotat\$4 or pivot\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 02:30
S1236	9743	(display near (touchpad or (touch near pad) or trackpad or (track near pad)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:13
S1237	50	S1236 and (switch\$3 near3 tactile)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:14
S1238	3426	g06f1/169.cpc.	US-PGPUB;	OR	OFF	2019/09/29

			USPAT; USOCR			15:19
S1239	2379	g06f1/1662.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:20
S1240	10883	g06f1/1616.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:20
S1241	249397	((mousepad or (mouse near pad) or touchpad or (touch near pad) or trackpad or (track near pad)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:20
S1242	1751	S1238 and ((mousepad or (mouse near pad) or touchpad or (touch near pad) or trackpad or (track near pad)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:20
S1243	920	S1239 and ((mousepad or (mouse near pad) or touchpad or (touch near pad) or trackpad or (track near pad)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:20
S1244	2888	S1240 and ((mousepad or (mouse near pad) or touchpad or (touch near pad) or trackpad or (track near pad)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:20
S1245	47	S1242 and (switch\$3 near3 tactile)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:21
S1246	14	S1243 and (switch\$3 near3 tactile)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:21
S1247	19	S1244 and (switch\$3 near3 tactile)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:21
S1248	59	S1245 S1246 S1247	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:21
S1249	59	S1248 and (display\$3 or imag\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:21
S1250	19	S1248 and ((display\$3 or imag\$3) near4 ((mousepad or (mouse near pad) or touchpad or (touch near pad) or trackpad or (track near pad))))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:22
S1251	1	"20190073003"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:35
S1252	13	("20070013663" "20070014097" "20080180654" "20090128495" "20120050646" "20120103778" "20130113706" "20130215122" "20130335329" "20150370339" "20170017324" "20180196186" "7839379").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 15:35
S1253	2	"20100079404"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:00
S1254	60	("20030030627" "20050052425" "20060007167" "20060181515" "20060250377" "20070052691" "20070229467" "20080202824" "4587378" "5119258" "5245245" "5977867" "5977888" "6243080" "6271830" "6281887" "6661399" "6822635" "7850378" "7934292").PN. OR ("8441450").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:00
S1255	1	"20100320884"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:09
S1256	1	"20040184228"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:09
S1257	2	S1255 S1256	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:09

S1258	85542	allen.inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:22
S1259	267	haughton.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:22
S1260	1346	haughton.xp.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:22
S1261	1613	S1259 S1260	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:22
S1262	17	S1258 and S1261	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:22
S1263	149	("20010049949" "20030085125" "20040007651" "20050150263" "20050161557" "20050178173" "20050247584" "20060032877" "20060117814" "20060176661" "20070205125" "20070235493" "20080110217" "20100320884" "3181319" "3275160" "3410122" "3410580" "3535898" "3707860" "3945227" "3965705" "4009599" "4066231" "4418553" "4426863" "4696449" "4733840" "4738428" "4821538" "4856304" "4870842" "5052198" "5052199" "5076079" "5082232" "5085395" "5135197" "5154456" "5169114" "5265449" "5345219" "5351507" "5351508" "5361610" "5381685" "5406809" "5446618" "5469726" "5493878" "5502989" "5526226" "5531082" "5542723" "5560481" "5568359" "5582044" "5595074" "5608605" "5645261" "5675998" "5709110" "5760690" "5762306" "5787738" "5787739" "5794463" "5816076" "5836183" "5926092" "5927108" "6000252" "6006557" "6138483" "6155088" "6178089" "6182481" "6185964" "6212921" "6216499" "6237375" "6257542" "6275378" "6308928" "6317936" "6331934" "6427499" "6443417" "6477871" "6497125" "6560710" "6578394" "6581420" "6590767" "6612455" "6684548" "6689954" "6697252" "6705133" "6708966" "6711921" "6735990" "6755056" "6763690" "6788216" "6796536" "6810698" "6820362" "6865914" "6913238" "6920770" "6926141" "7007912" "7107054" "7255228" "7315443" "7409842" "7443665" "7499269" "7499270").PN. OR ("7647796" "7963132" "8107236" "8111511" "D405348" "D415950" "D425402" "D436310" "D485060" "D491009" "D499546" "D503532" "D519731" "D521232" "D533994" "D553352" "D559076" "D565839" "RE28187").PN. OR ("8837144").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:24
S1264	2348	g06f1/1679.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:30
S1265	1609	S1264 and ((clamshell or (clam near shell) or portable or notebook or laptop or (lap near top)) near2 (computer)) or (laptop or (lap near top)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:32
S1266	164	S1265 and (anchor\$3 or keylock or (key near lock))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:32
S1267	36	("5568359" "5692400" "5694292" "5805412" "6331934" "6424524").PN. OR ("6697252").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:37
S1268	59	("3707860" "4738428" "4821538" "4856304" "5345219" "5351508" "5361610" "5406809" "5608605").PN. OR ("5787738").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 16:53
S1269	11	("20050028571" "20050248914" "20120125057" "20120201000" "20120211377" "20130083466" "20130186682" "20130259564" "5531082" "5787738" "7415852").PN. OR ("10282566").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 17:00
S1270	75	("3596265" "3824540" "4211995" "4663611" "4698620" "4875350" "4896140" "4935725" "4992789" "5034723"	US-PGPUB; USPAT;	OR	OFF	2019/09/29 17:12

		"5142269" "5172098" "5190466" "5231375" "5254973" "5289559" "5381685" "5406260" "5493878" "5561417" "5570080" "5617073" "5675321" "5692400" "5727405" "5787738" "5912623" "5960651" "6037867" "6087939" "6100802").PN. OR ("6389853").URPN.	USOCR			
S1271	2	"20130259564"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 17:31
S1272	8	("20110026197" "6517129" "6927972" "7405927" "7637540" "7997631" "8009424").PN. OR ("9077095").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 17:33
S1273	31	("20040001049" "20060183505" "20090244016" "20100238620" "20100321275" "20150103014" "20170069299" "20170255320" "20170344120" "20180088632" "20180121012" "20180129391" "20180188774" "20180232010" "5739810" "5847698" "6510048" "6700773" "6922333" "7061472" "7551428" "7663602" "7990702" "7991442" "8310823" "8331098" "8803816" "8988876" "9684342" "9740237" "9874908").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 23:11
S1274	31	("20040001049" "20060183505" "20090244016" "20100238620" "20100321275" "20150103014" "20170069299" "20170255320" "20170344120" "20180088632" "20180121012" "20180129391" "20180188774" "20180232010" "5739810" "5847698" "6510048" "6700773" "6922333" "7061472" "7551428" "7663602" "7990702" "7991442" "8310823" "8331098" "8803816" "8988876" "9684342" "9740237" "9874908").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 23:11
S1275	31	S1273 S1274	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/29 23:12
S1276	7	((("8988876" or ("20180188774" or ("9740237" or ("8310823") or ("7991442" or ("7990702" or ("6700773")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 11:43
S1277	5	((("9874908" or ("8988876" or ("20170068299" or ("20100321275" or ("7991442")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 11:44
S1278	1	"20180188774"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 11:50
S1279	18	("20020039276" "20150116362" "20060176277" "20120327580" "20130027364" "20140310643" "20040069117" "20130050090" "20160091929" "20150277509" "20150370339" "20160259375" "20040264126" "20040061997" "20120092253" "20170358275" "20100039764" "20030201915").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 11:50
S1280	8850	g06f1/1632.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 11:55
S1281	1133	S1280 and (display\$1 near (first or second or dual or double))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 11:55
S1282	25	S1281 and ((hook or clasp or catch) with (magnetically or magnet\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 11:56
S1283	139	S1280 and ((hook or clasp or catch) with (magnetically or magnet\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 11:56
S1284	114	S1283 not S1282	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 11:56
S1285	0	g06f1/16162.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:07
S1286	10883	g06f1/1616.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:07

S1287	1068	S1280 and S1286	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:07
S1288	472	S1287 and ((magnetically or magnet\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:07
S1289	1634	S1280 and ((hook or clasp or catch))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:08
S1290	82	S1288 and ((hook or clasp or catch))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:08
S1291	230	S1287 and ((hook or clasp or catch))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:08
S1292	139	S1282 S1283	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:08
S1293	59	S1290 not S1292	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:08
S1294	198	S1290 S1292	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:08
S1295	148	S1291 not S1294	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:15
S1296	346	S1291 S1294	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:15
S1297	390	S1288 not S1296	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:15
S1298	962	g06f1/1669.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:23
S1299	33	S1298 and ((hook or clasp or catch) with (magnetically or magnet\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:23
S1300	569	S1298 and ((magnetically or magnet\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:23
S1301	209	S1298 and ((hook or clasp or catch))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:23
S1302	101	S1300 and S1301	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:24
S1303	68	S1302 not S1299	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:25
S1304	677	S1300 S1301	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:25
S1305	101	S1299 S1302	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:25
S1306	576	S1304 not S1305	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:25
S1307	2	"20130257733"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:30

S1308	14	("20060125796" "20060203437" "20070236464" "20100309143" "20110037701" "20110053651" "20110157804" "20110222238" "6922333" "7633745" "7768508" "7889483").PN. OR ("9740237").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:30
S1309	1	"20170282060"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:34
S1310	11	("20040095326" "20040145565" "20110216064" "20140211395" "20150092332" "20150358043" "20170038854" "20180188774" "5739810" "6700773" "7330923").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:35
S1311	7	("20110006992" "20100302168" "20130335327" "20120039023" "20060205438" "20140055363" "20120039023" "20140333542" "20130335327" "20140333542").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:39
S1312	2	("6542606" "20040023696").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:50
S1313	12	("6297752" "20030048595" "6594142" "6671170" "20020163778" "D454347" "20030078069" "5712760" "5982613" "5995025" "6628508" "20030103041").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 12:52
S1314	21	("20040001049" "20090244016" "20100238620" "20100321275" "20150103014" "5739810" "5847698" "6510048" "6700773" "6922333" "7061472" "7551428" "7663602" "7990702" "7991442" "8310823" "8331098" "8988876" "9684342" "9740237" "9874908").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 13:00
S1315	3	("20160132075" "20160187935" "6223393").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 13:15
S1316	36	S1298 and (keyboard\$1 near2 stow\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 13:21
S1317	4	("20050078444" "20040246667" "5283862" "5298681").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 13:32
S1318	100	("4926010" "4937563" "5049862" "5107402").PN. OR ("5241303").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 13:36
S1319	11	("20060183505" "20090244016" "20170069299" "20170255320" "20170344120" "20180088632" "20180121012" "20180129391" "20180188774" "20180232010" "8803816").PN. OR ("10254803").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 13:37
S1320	1	("5241303").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 13:48
S1321	16	("20020186206" "20040056843" "20040095326" "5241303" "5551497" "6700774" "7126588" "7505252" "7663602").PN. OR ("8009143").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 13:49
S1322	37	S1280 and (keyboard\$1 near2 stow\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 13:50
S1323	12	("20040056843" "20060152484" "20070178966" "20110230178" "20110260969" "20120062177" "20120229309" "20130068916" "7095387" "8009143").PN. OR ("9205340").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 13:57
S1324	44	("20020042853" "20040056843" "20040160738" "20040190239" "20050052831" "20050200608" "20060038795" "20060104013" "20080094792" "20100277858" "20120293953" "20130033807" "20130100027" "20130203473" "20130257733" "20130329375" "20140185218" "20140218855" "5440502" "5659307" "5754395" "5907615" "6028768" "6157958" "6282082" "6898073" "6989984" "7130669" "7342776" "7489503" "7567433" "8009143" "8023254" "8416559" "8451595" "8654520" "8724301" "8780544" "8971026" "8995125" "9047056" "D640686").PN. OR ("9164551").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 14:02

S1325	54	("20020024499" "20030006942" "20070227923" "20080158795" "6341061" "6643124" "7299523").PN. OR ("7489503").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 14:06
S1326	31	("20020024499" "20030026068" "20030142469" "20040108968" "20040136149" "20040233620" "20060104013" "20060126284" "20120162891" "5808862" "6229502" "6262785" "6341061" "6700773" "6747635" "6771493" "6862171" "7342776" "7352565" "7385811" "7453437" "7489503" "7705799" "7783986" "8208249" "8305293" "D511162").PN. OR ("8724301").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 14:10
S1327	1	"20170017273"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 14:29
S1328	1	"20030063432"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 14:54
S1329	4	((("20170177030") or ("7503808") or ("20150186685") or ("20160231789")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 16:15
S1330	0	S1329 and (wireless\$3 near3 charg\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 16:20
S1331	962	g06f1/1669.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 16:20
S1332	8850	g06f1/1632.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 16:20
S1333	626	S1332 and (wireless\$3 near3 charg\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 16:20
S1334	427	S1332 and (wireless\$3 near charg\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 16:20
S1335	4	"20140021909"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 16:35
S1336	5	("20050052156" "20090177908" "20100145236" "20130031377" "20140036437").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/30 16:37
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S1338	3318	361/679.33-679.39.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 10:49
S1339	3862	361/724-727.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 10:49
S1340	8189	G06F1/1656,1658.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 10:50
S1341	6467	G06F1/18,183,187.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 10:50
S1342	1	((("VANECEK") near3 ("Russell"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/10/01 10:55
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S1353	2	("20140239781" "20160227654").PN.	US-PGPUB; USPAT	OR	OFF	2019/10/01 11:37
S1354	61	((("LIN") near3 ("Yugui"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/10/01 11:37
S1355	9	((("20190294286") or ("20180196559") or ("20190227593") or ("20180197463") or ("20180196537") or ("10289155") or ("10248233") or ("20180199446") or ("20180196560"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:42
S1356	9	("20060060732" "20110005662" "20110006999" "20120135247" "20130222298" "20130329460" "20140265821" "20150331451" "20160234362").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:45
S1357	9	("20060060732" "20110005662" "20110006999" "20120135247" "20130222298" "20130329460" "20140265821" "20150331451" "20160234362").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:45
S1358	9	S1356 S1357	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:45
S1359	2	S1358 AND DECORATION	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:45
S1360	2	S1358 AND DECORATION\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:45
S1361	2	S1358 AND DECORATION\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:45
S1362	2	S1358 AND DECORAT\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:45
S1363	2	"20150331451"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:47
S1364	2	"20160234362"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:47
S1365	7	("20080223708" "20130063891" "20130178248" "20140104762" "D687800").PN. OR ("9513668").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:50
S1366	25	("20100315769" "20110241949" "20110287812" "20120178503" "20120229347" "20120314350" "20130300697" "20140080552" "20140111927" "20140198436" "20140228080" "20140233170" "20140234581" "20140267097" "20140307370" "20140323063" "20140368228" "20150070825" "5176733" "8737045" "9047044").PN. OR ("9578149").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:51
S1367	32	S1365 S1366	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:52

S1368	1	S1367 AND DECORAT\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:52
S1369	0	S1367 AND indicia\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:53
S1370	0	S1358 AND indicia\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:53
S1371	8	("20060132695" "20070052906" "20110165916" "20130017865" "20140125528" "20160134010" "9513668").PN. OR ("9794382").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:53
S1372	0	S1371 AND indicia\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:53
S1373	2	S1371 AND DECORAT\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:53
S1374	2	"20140125528"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:54
S1375	22	("20040246188" "20080316116" "20090153411" "20120009884" "20120009983" "20120229347" "20120268343" "20130257659" "20140015724" "6400571" "6686887" "7053848" "7903036" "8681056" "9166279").PN. OR ("9716307").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:55
S1376	2	S1375 AND DECORAT\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:55
S1377	0	S1375 AND indicia\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:55
S1378	14408	361/679.01,679.02,679.21-679.3,679.55,679.56.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:57
S1379	10563	455/575.1-575.9.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:57
S1380	419	S1379 AND DECORAT\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:57
S1381	305	S1379 AND indicia\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:57
S1382	50	S1379 AND (indicia\$1 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:57
S1383	23	S1379 AND (DECORAT\$4 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:57
S1384	14521	g06f3/0415,041.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:58
S1385	6033	h04m1/0266,0268,027,026,0295.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:59
S1386	6710	g02f1/13338.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:59
S1387	31248	g06f1/1626,1601,1613,1615,1616,1618,162,1622,1624,1605.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:59
S1388	72	S1382 S1383	US-PGPUB; USPAT;	OR	OFF	2019/10/01 11:59

			USOCR			
S1389	118	S1384 AND (DECORAT\$4 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:59
S1390	71	S1385 AND (DECORAT\$4 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:59
S1391	44	S1386 AND (DECORAT\$4 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:59
S1392	148	S1387 AND (DECORAT\$4 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 11:59
S1393	124	S1384 AND (indicia\$1 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:00
S1394	45	S1385 AND (indicia\$1 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:00
S1395	14	S1386 AND (indicia\$1 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:00
S1396	298	S1387 AND (indicia\$1 near3 display\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:00
S1397	726	S1388 S1389 S1390 S1391 S1392 S1393 S1394 S1395 S1396	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:02
S1398	206	((("RIVNAY") near3 ("Roey")) OR (("FRINK") near3 ("Darin"))) OR (("BEALL") near3 ("Christopher")) OR (("GUTIERREZ") near3 ("Felipe"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/10/01 12:04
S1399	75	((("20180084665") or ("20170290191") or ("9832905") or ("20170257972") or ("20160014936") or ("20150036284") or ("20150036287") or ("10222842") or ("9141156") or ("10130018") or ("9928203") or ("20060259796") or ("20070101173") or ("20060248324") or ("7721125") or ("20020062454") or ("7822967") or ("20160128221") or ("20090144568") or ("7134011") or ("20070245165") or ("20060248361") or ("20070240006") or ("20030196126") or ("7032119") or ("20060259797") or ("7562239") or ("20060248325") or ("8700923") or ("7272735") or ("20060253717") or ("7058826") or ("20060248359") or ("20100008038") or ("7552350") or ("20060248360") or ("20090235104") or ("20170018149") or ("20180367870") or ("7533283") or ("8074092") or ("7558976") or ("7237129") or ("7512822") or ("20020004913") or ("9713215") or ("9591784") or ("9804937") or ("20020007464") or ("20140108692") or ("20160070627") or ("20050108582") or ("20060248358") or ("20020004912") or ("7484111") or ("9483089") or ("20030200473") or ("6859882") or ("RE40866") or ("20060265609") or ("20060265608") or ("20020004915") or ("20030188208") or ("20170052919") or ("20160044819") or ("20030206398") or ("20160073542") or ("6906914") or ("20190121402") or ("20190171606") or ("20150058659") or ("9474181") or ("20130271904") or ("9750153") or ("6628513")),PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:05
S1400	7889	361/679.33-679.39,679.41-679.44,724-727.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:22
S1401	3578	H05K7/1485,1488,1489,1492.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:22
S1402	11137	S1400 S1401	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:23

S1403	405	S1400 AND (SERVER\$1 NEAR2 RACK\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:23
S1404	1482	S1401 AND (SERVER\$1 NEAR2 RACK\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:23
S1405	5	S1403 AND (PLURALIT\$3 NEAR3 NODE\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:23
S1406	47	S1404 AND (PLURALIT\$3 NEAR3 NODE\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:23
S1407	52	S1405 S1406	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 12:24
S1408	2204	((("GAULT") near3 ("Joseph")) OR (("BOWERS") near3 ("Scott")) OR (("CAMPBELL") near3 ("John")) OR (("HILLYERD") near3 ("Anthony")) OR (("ALDEHAYAT") near3 ("Yazan")) OR (("AAGAARD") near3 ("Karsten")) OR (("WITT") near3 ("Eric"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/10/01 13:04
S1409	15	((("20180059733") or ("20170097663") or ("20170315592") or ("9740245") or ("10331175") or ("20170308127") or ("20190235573") or ("20190113950") or ("10303214") or ("20180046226") or ("9910463") or ("20180052495") or ("10088874") or ("9785196") or ("10025352"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:04
S1410	7725	361/679.21-679.29,679.55,679.41.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:04
S1411	13202	g06f1/1679,1615,1635,1637,1662,1624,1633,1654,1669.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:05
S1412	15	S1410 and (lock\$3 near3 wedg\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:07
S1413	45	S1411 and (lock\$3 near3 wedg\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:07
S1414	59	S1412 S1413	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:07
S1415	2	S1414 and (remov\$4 near3 (display\$3 or keyboard\$1 or keypad\$1 or (key near pad\$1) or (key near board\$1)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:08
S1416	13192	"71" and (remov\$4 near3 (display\$3 or keyboard\$1 or keypad\$1 or (key near pad\$1) or (key near board\$1)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:08
S1417	6	("20160141973" "6683801" "6700804" "7248483" "7768154" "9444361").PN.	US-PGPUB; USPAT	OR	OFF	2019/10/01 13:34
S1418	499	361/602,611.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:50
S1419	2258	361/637,648,707.CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:50
S1420	5351	H02M7/003,487.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:51
S1421	5072	H05K1/0231,144.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:51
S1422	1044	H05K7/209.CPC.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:51
S1423	71	S1418 AND (dc OR (DIRECT NEAR CURRENT))	US-PGPUB;	OR	OFF	2019/10/01

			USPAT; USOCR			13:51
S1424	316	S1419 AND (dc OR (DIRECT NEAR CURRENT))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:51
S1425	4568	S1420 AND (dc OR (DIRECT NEAR CURRENT))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:51
S1426	0	S1359 AND (dc OR (DIRECT NEAR CURRENT))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:52
S1427	1312	S1421 AND (dc OR (DIRECT NEAR CURRENT))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:52
S1428	596	S1422 AND (dc OR (DIRECT NEAR CURRENT))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:52
S1429	11	S1423 and ((circuit near board\$1) or PCB\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:52
S1430	166	S1424 and ((circuit near board\$1) or PCB\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:52
S1431	1514	S1425 and ((circuit near board\$1) or PCB\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:52
S1432	1041	S1427 and ((circuit near board\$1) or PCB\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:52
S1433	368	S1428 and ((circuit near board\$1) or PCB\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:52
S1434	1	S1429 and ((heat near (sink or dissipater or dissipator)) or (cold near plate))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:53
S1435	89	S1430 and ((heat near (sink or dissipater or dissipator)) or (cold near plate))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:53
S1436	439	S1431 and ((heat near (sink or dissipater or dissipator)) or (cold near plate))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:53
S1437	189	S1432 and ((heat near (sink or dissipater or dissipator)) or (cold near plate))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:54
S1438	211	S1433 and ((heat near (sink or dissipater or dissipator)) or (cold near plate))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:54
S1439	1	S1434 and (busbar\$1 or (bus near bar\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:55
S1440	14	S1435 and (busbar\$1 or (bus near bar\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:55
S1441	143	S1436 and (busbar\$1 or (bus near bar\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:55
S1442	16	S1437 and (busbar\$1 or (bus near bar\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:55
S1443	56	S1438 and (busbar\$1 or (bus near bar\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 13:55
S1444	85	S1439 S1440 S1442 S1443	US-PGPUB; USPAT	OR	OFF	2019/10/01 13:55

S1445	88	S1441 and (air or blower or (air near gap))	US-PGPUB; USPAT	OR	OFF	2019/10/01 13:57
S1446	1	S1439 and (air or blower or (air near gap))	US-PGPUB; USPAT	OR	OFF	2019/10/01 13:57
S1447	88	S1441 and (air or blower or (air near gap))	US-PGPUB; USPAT	OR	OFF	2019/10/01 13:57
S1448	81	S1447 and capacitor\$1	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:01
S1449	42	S1448 and laminat\$3	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:01
S1450	42	S1448 and laminat\$4	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:01
S1451	2	S1417 and laminat\$4	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:01
S1452	1	S1434 and (air or blower or (air near gap))	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:23
S1453	62	S1435 and (air or blower or (air near gap))	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:23
S1454	243	S1436 and (air or blower or (air near gap))	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:23
S1455	95	S1437 and (air or blower or (air near gap))	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:23
S1456	141	S1438 and (air or blower or (air near gap))	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:23
S1457	1	S1452 and (three near phase)	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:23
S1458	13	S1453 and (three near phase)	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:24
S1459	131	S1454 and (three near phase)	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:24
S1460	16	S1455 and (three near phase)	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:24
S1461	40	S1456 and (three near phase)	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:24
S1462	66	S1457 S1458 S1460 S1461	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:24
S1463	114	S1459 and terminal\$1	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:25
S1464	40	S1462 and terminal\$1	US-PGPUB; USPAT	OR	OFF	2019/10/01 14:25
S1465	84	S1463 and (busbar\$1 or (bus near bar\$1) or bus\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 14:25
S1466	23	S1464 and (busbar\$1 or (bus near bar\$1) or bus\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 14:25
S1467	6	S1466 and (multilayer or (multi near layer))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 14:38
S1468	6	S1467 and (multilayer or (multi near layer))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 14:38
S1469	6	S1467 S1468	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 14:39
S1470	12	S1465 and (multilayer or (multi near layer))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 14:39
S1471	16	S1469 S1470	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 14:39

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S1482	2083	361/734,746,750,751,763,766,781.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 21:44
S1483	770	S1482 and (multilayer or (multi near layer))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 21:44
S1484	203	S1483 and switch\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 21:44
S1485	168	S1484 and capacitor\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 21:44
S1486	2	S1485 and ((three near (phase or level)) with power)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 21:45
S1487	4	S1485 and ((three near (phase or level)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 21:45
S1488	30	S1485 and parasitic	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 22:02
S1489	0	S1485 and (parasitic near inductance)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 22:02
S1490	15	S1485 and (parasitic near inductance)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 22:03
S1491	22	S1485 and (ac)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 22:12
S1492	0	S1491 and (voltage near stress)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 22:13
S1493	0	S1485 and (voltage near stress)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 22:13
S1494	0	S1484 and (voltage near stress)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 22:13
S1495	1	S1483 and (voltage near stress)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 22:13
S1496	6	S1482 and (voltage near stress)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/01 22:13
S1497	3	"49324884".FMID.	US-PGPUB; USPAT; FPRS; JPO	OR	OFF	2019/10/01 22:15
S1498	1	("20170138576").PN.	US-PGPUB; USPAT	OR	OFF	2019/10/15 01:07
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EAST Search History

			USPAT; USOCR			01:18
S1502	31	("20060157264" "20140008095" "2730261" "3566194" "4021632" "4606156" "4650272" "4842156" "4945450" "5072071" "5134543" "5341273" "5463533" "5491901" "5579939" "5744753" "5861794" "5934115" "6274833" "6715625" "6756541" "6808079" "6979780" "7423215" "7554032" "7589277" "7935886" "8536452" "8710368").PN. OR ("8830657").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/15 01:26
S1503	19	S1502 and stud\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2019/10/15 01:27

10/ 15/ 2019 12:12:51 PM

C:\Users\ahaughton\Documents\EAST\Workspaces\16_\east search 9_28.wsp

Bibliographic Data

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Foreign Priority claimed: Yes No

35 USC 119 (a-d) conditions met: Yes No Met After Allowance

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Examiner's Signature

Initials

Title: SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/02/2019	361	2835	MAYG-1001-WO-USC7
RULE			

APPLICANTS

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CONTINUING DATA

This application is a CON of 16388691 04/18/2019ABN
 16388691 is a CON of 16041594 07/20/2018 PAT 10272474
 16041594 is a CON of 15852000 12/22/2017 PAT 10259021
 15852000 is a CON of 15597005 05/16/2017ABN
 15597005 is a CON of 14343665 07/14/2014ABN
 14343665 is a 371 of PCT/US2012/049562 08/03/2012
 PCT/US2012/049562 has PRO of 61661090 06/18/2012
 PCT/US2012/049562 has PRO of 61619229 04/02/2012
 PCT/US2012/049562 has PRO of 61592344 01/30/2012
 PCT/US2012/049562 has PRO of 61576834 12/16/2011
 PCT/US2012/049562 has PRO of 61569093 12/09/2011
 PCT/US2012/049562 has PRO of 61568031 12/07/2011
 PCT/US2012/049562 has PRO of 61561087 11/17/2011
 PCT/US2012/049562 has PRO of 61555310 11/03/2011
 PCT/US2012/049562 has PRO of 61515752 08/05/2011

FOREIGN APPLICATIONS

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Title: SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE

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Application Number:	16460770
International Application Number:	
Confirmation Number:	9783
Title of Invention:	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE
First Named Inventor/Applicant Name:	Walter G. Mayfield
Customer Number:	87627
Filer:	Gene Tyler/Margaret Pruitt-Johns
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Preliminary Amendment	MAYG_1001USC7_Preliminary Amendment_filed_10_2019.pdf	78423 ea62c94843ef61edc75e2cfb1b44af8b3b7e8304	no	5

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Information:	
Total Files Size (in bytes):	78423
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Walter G. Mayfield	§	
	§	
SERIAL NO.: 16/460770	§	
	§	
FILED: July 2, 2019	§	Atty. Docket: MAYG-1001-USC7
	§	
TITLE: "System Comprising a Portable Switching Device for Use with a Portable Electronic Device"	§	Confirmation No.: 9783
	§	
	§	

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

PRELIMINARY AMENDMENT

I. Introductory Comments

Prior to the additional Examination please amend the specification as follows:

Amendments to the Claims begin on page 2.

Remarks begin on page 3.

II. Amendments to the Claims

1. **(Currently Amended)** A system comprising:
a portable switching device coupled to a portable electronic device;
wherein:
the switching device and the electronic device are configured to selectively couple to each other employing magnetic force ~~from a first magnet disposed within the switching device;~~
the switching device comprises a first case;
the electronic device comprises a second case and an electronic circuit that is responsive to the switching device;
a first magnet is fully disposed within the electronic device;
the electronic device comprises at least one element selected from the group consisting of beveled edges, ridges, recessed areas, grooves, slots, indented shapes, bumps, raised shapes, and combinations thereof; configured to correspond to complimentary surface elements on the switching device;
the portable switching device is configured to activate, deactivate, or send into hibernation the portable electronic device;
the electronic switching device plays, pauses and/or changes the volume of a remote device;
the switching electronic device includes a lid and hinge attaching the lid to the switching electronic device;
the lid is recessed to configure to the electronic switching device; and
when coupled, the ~~second~~ first case functions to protect the second ~~first~~ case.
2. **(Currently Amended)** The system of Claim 1 wherein the switching electronic device has a first lens.

3. **(Currently Amended)** The system of Claim 1 wherein the electronic switching device has a second lens.
4. **(Original)** The system of Claim 1 wherein the lid has a second magnet disposed within it.
5. **(Original)** The system of Claim 4 wherein the lid is configured to employ the second magnet to secure the lid in a closed position.
6. **(Currently Amended)** The system of Claim 1 wherein the electronic switching device has a tab or knob configured to be manipulated by an external force.
7. **(Currently Amended)** The system of Claim ~~2~~ 3 wherein the first case is configured to be nonabrasive to the second lens.
8. **(Currently Amended)** The system of Claim ~~2~~ 3 wherein the second case is configured to be nonabrasive to the first lens.
9. **(Original)** The system of Claim 1 wherein the first magnet is employed in actuating the electronic circuit.
10. **(Original)** The system of Claim 4 wherein the second or a third magnet is employed in the lid to actuate the electronic circuit.
11. **(Currently Amended)** The system of Claim 1 wherein the electronic switching device is wireless earplugs.
12. **(New)** The system of Claim 1 wherein the system further comprises a sensor that can be activated using a magnet.
13. **(New)** The system of Claim 5 wherein the system further comprises a sensor that can be

actuated using a magnet.

V. Remarks

No fees, including extension of time fees, are believed necessary for consideration of the present paper. However, if any fees, including extension of time fees, are necessary, the extension of time is hereby requested, and the Commissioner is hereby authorized to charge any fees, including those for the extension of time, to Deposit Account No. **50-4920 (MAYG-1001-USC7)**.

Dated: October 22, 2019

Respectfully submitted,

/Gene L. Tyler/

Gene L. Tyler
Registration No. 35,395
MOSSMAN, KUMAR & TYLER, PC
P.O. Box 421239
Houston, Texas 77242
Direct: 281-404-4859
Facsimile: 281-404-4468

ATTORNEY FOR APPLICANTS

Doc Code: Oath

Document Description: Oath or declaration filed

Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input type="checkbox"/> Declaration Submitted With Initial Filing OR <input checked="" type="checkbox"/> Declaration Submitted After Initial Filing (surcharge (37 CFR 1.16(f)) required)	Attorney Docket Number	MAYG-1001-WO-USC7
	First Named Inventor	Walter G. Mayfield
	<i>COMPLETE IF KNOWN</i>	
	Application Number	16/460770
	Filing Date	July 2, 2019
	Art Unit	2835
	Examiner Name	

SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE

(Title of the Invention)

As a below named inventor, I hereby declare that:

This declaration is directed to:

The attached application,

OR

United States Application Number or PCT International application number 16/460770
filed on July 2, 2019.

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

I believe 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.

Authorization To Permit Access To Application by Participating Office

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified patent application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified patent application is filed to have access to the above-identified patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the above-identified patent application with respect to: 1) the above-identified patent application-as-filed; 2) any foreign application to which the above-identified patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application; and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

[Page 1 of 2]

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

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

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DECLARATION — Utility or Design Patent Application


Direct all correspondence to:	<input checked="" type="checkbox"/>	The address associated with Customer Number:	87627	OR	<input type="checkbox"/>	Correspondence address below
Name						
Address						
City			State		Zip	
Country		Telephone		Email		
WARNING:						
<p>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. Petitioner/applicant is advised that documents which form the record of a patent application (such as the PTO/SB/01) are placed into the Privacy Act system of records DEPARTMENT OF COMMERCE, COMMERCE-PAT-7, System name: <i>Patent Application Files</i>. Documents not retained in an application file (such as the PTO-2038) are placed into the Privacy Act system of COMMERCE/PAT-TM-10, System name: <i>Deposit Accounts and Electronic Funds Transfer Profiles</i>.</p>						
LEGAL NAME OF SOLE OR FIRST INVENTOR:						
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)						
Walter G. Mayfield						
Inventor's Signature				Date (Optional)		
<i>Walter G. Mayfield</i>				10-3-19		
Residence: City		State		Country		
Houston		TX		US		
Mailing Address						
801 Crestbend Drive						
City		State		Zip		Country
Houston		TX		77042		US
<input checked="" type="checkbox"/> Additional inventors are being named on the <u>1</u> supplemental sheet(s) PTO/AIA/10 attached hereto						

[Page 2 of 2]

SUPPLEMENTAL SHEET FOR DECLARATION**ADDITIONAL INVENTOR(S)**

Supplemental Sheet (for PTO/AIA/08,09)

Page 3 of 3

Legal Name of Additional Joint Inventor, if any:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Daniel Martin Valdez			
Inventor's Signature 		Date (Optional) <u>10-3-19</u>	
Residence: City Kingwood	State TX	Country US	
Mailing Address 4007 Brook Shadow Drive			
City Kingwood	State TX	Zip 77345	Country US
Legal Name of Additional Joint Inventor, if any:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Inventor's Signature		Date (Optional)	
Residence: City	State	Country	
Mailing Address			
City	State	Zip	Country
Legal Name of Additional Joint Inventor, if any:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Inventor's Signature		Date (Optional)	
Residence: City	State	Country	
Mailing Address			
City	State	Zip	Country

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.83. 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 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Electronic Acknowledgement Receipt

EFS ID:	37387034
Application Number:	16460770
International Application Number:	
Confirmation Number:	9783
Title of Invention:	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE
First Named Inventor/Applicant Name:	Walter G. Mayfield
Customer Number:	87627
Filer:	Gene Tyler/Margaret Pruitt-Johns
Filer Authorized By:	Gene Tyler
Attorney Docket Number:	MAYG-1001-WO-USC7
Receipt Date:	07-OCT-2019
Filing Date:	02-JUL-2019
Time Stamp:	17:24:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	MAYG_1001WOUSC7_Oath_filed.pdf	792082 <small>a64b5b5d82b243529839eb8799d6ee1b20c080a0</small>	no	3

Warnings:

Information:	
Total Files Size (in bytes):	792082
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/460,770	07/02/2019	Walter G. Mayfield	MAYG-1001-WO-USC7	9783

87627 7590 08/12/2019
Mossman, Kumar & Tyler PC
P.O. Box 421239
Houston, TX 77242

EXAMINER

ART UNIT	PAPER NUMBER
2835	

NOTIFICATION DATE	DELIVERY MODE
08/12/2019	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):

docket@mktlaw.com
tthigpen@mktlaw.com



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Commissioner for Patents
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In re Application of :
Mayfield et al. :
Application No. 16/460,770 :
Filed: 2 Jul 2019 : DECISION ON PETITION
For: SYSTEM COMPRISING A :
PORTABLE SWITCHING DEVICE FOR :
USE WITH A PORTABLE ELECTRONIC :
DEVICE :

This is a decision on the petition under 37 CFR 1.102(c)(1), filed July 2, 2019, to make the above-identified application special based on applicant's age, as set forth in MPEP § 708.02, Section II.

An application may be made special upon filing a petition including any evidence showing that the inventor or joint inventor is 65 years of age, or more, such as a statement by the inventor or joint inventor or a statement from a registered practitioner that he or she has evidence that the inventor or joint inventor is 65 years of age or older. No fee is required with such a petition. See 37 CFR 1.102(c).

Since the present petition includes a certification that the registered attorney or agent is in the possession of evidence showing that the inventor is 65 years of age or more, the petition to make special is **GRANTED**. Accordingly, the above-identified application has been accorded "special" status.

This application file is being referred to Technology Center Art Unit 2835 for action on the merits to commensurate with this decision.

Telephone inquiries concerning this decision only can be directed to Brian Brown at (571) 272-5338.

/Brian W. Brown/
Petitions Examiner
Office of Petitions



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Table with 7 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY.DOCKET.NO, TOT CLAIMS, IND CLAIMS. Row 1: 16/460,770, 07/02/2019, 2852, 1880, MAYG-1001-WO-USC7, 11, 1

CONFIRMATION NO. 9783

FILING RECEIPT



87627
Mossman, Kumar & Tyler PC
P.O. Box 421239
Houston, TX 77242

Date Mailed: 07/18/2019

Receipt is acknowledged of this non-provisional utility 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 FIRST INVENTOR, 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 corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction 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 provided that the request is grantable.

Inventor(s)

Walter G. Mayfield, Houston, TX;
Daniel Martin Valdez, Kingwood, TX;

Applicant(s)

GUI GLOBAL PRODUCTS, LTD., Houston, TX;

Assignment For Published Patent Application

GUI GLOBAL PRODUCTS, LTD., Houston, TX

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 16/388,691 04/18/2019
which is a CON of 16/041,594 07/20/2018 PAT 10272474
which is a CON of 15/852,000 12/22/2017 PAT 10259021
which is a CON of 15/597,005 05/16/2017 ABN
which is a CON of 14/343,665 07/14/2014 ABN
which is a 371 of PCT/US2012/049562 08/03/2012
which claims benefit of 61/661,090 06/18/2012
and claims benefit of 61/619,229 04/02/2012
and claims benefit of 61/592,344 01/30/2012
and claims benefit of 61/576,834 12/16/2011
and claims benefit of 61/569,093 12/09/2011
and claims benefit of 61/568,031 12/07/2011
and claims benefit of 61/561,087 11/17/2011

and claims benefit of 61/555,310 11/03/2011

and claims benefit of 61/515,752 08/05/2011

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: No

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

If Required, Foreign Filing License Granted: 07/16/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/460,770**

Projected Publication Date: 10/24/2019

Non-Publication Request: No

Early Publication Request: No

Title

SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE

Preliminary Class

399

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application

page 2 of 4

serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/460,770	07/02/2019	Walter G. Mayfield	MAYG-1001-WO-USC7

CONFIRMATION NO. 9783

87627
Mossman, Kumar & Tyler PC
P.O. Box 421239
Houston, TX 77242

INFORMAL NOTICE



Date Mailed: 07/18/2019

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
Walter G. Mayfield
Daniel Martin Valdez

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.

/mordonez/

APPLICATION AS FILED - PART I			SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
	(Column 1)	(Column 2)					
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	300
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	660
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	760
TOTAL CLAIMS (37 CFR 1.16(i))	11	minus 20 = *			OR	x 100 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	minus 3 = *			OR	x 460 =	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	1720

APPLICATION AS AMENDED - PART II					SMALL ENTITY		OR	OTHER THAN SMALL ENTITY		
	(Column 1)	(Column 2)	(Column 3)							
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=		OR	x	=	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE		
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE		

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
 The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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	MAYG-1001-WO-USC7
		Application Number	
Title of Invention	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE		
<p>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.</p>			

Secrecy Order 37 CFR 5.2

Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor	1				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Walter	G.	Mayfield			
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service						
City	Houston	State/Province	TX	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	301 Crestbend Dr.					
Address 2						
City	Houston	State/Province	TX			
Postal Code	77042	Country i	US			
Inventor	2				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Daniel	Martin	Valdez			
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service						
City	Kingwood	State/Province	TX	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	4007 Brook Shadow Dr.					
Address 2						
City	Kingwood	State/Province	TX			
Postal Code	77345-1268	Country i	US			
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).

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	MAYG-1001-WO-USC7
		Application Number	
Title of Invention	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE		

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

Customer Number	87627		
Email Address		<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE		
Attorney Docket Number	MAYG-1001-WO-USC7	Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	13	Suggested Figure for Publication (if any)	

Filing By Reference :

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

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

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

Publication Information:

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

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

Representative Information:

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

Please Select One:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	87627		

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	MAYG-1001-WO-USC7
		Application Number	
Title of Invention	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE		

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 this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

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

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	16/388691	2019-04-18
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
16/388691	Continuation of	16/041594	2018-07-20
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
16/041594	Continuation of	15/852000	2017-12-22
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
15/852000	Continuation of	15/597005	2017-05-16
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
15/597005	Continuation of	14/343665	2014-07-14
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
14/343665	a 371 of international	PCT/US2012/049562	2012-08-03
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/US2012/049562	Claims benefit of provisional	61/661090	2012-06-18
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/US2012/049562	Claims benefit of provisional	61/619229	2012-04-02
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/US2012/049562	Claims benefit of provisional	61/592344	2012-01-30
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/US2012/049562	Claims benefit of provisional	61/576834	2011-12-16
Prior Application Status	Expired		Remove

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	MAYG-1001-WO-USC7
		Application Number	
Title of Invention	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE		

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/US2012/049562	Claims benefit of provisional	61/569093	2011-12-09
Prior Application Status	Expired	<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/US2012/049562	Claims benefit of provisional	61/568031	2011-12-07
Prior Application Status	Expired	<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/US2012/049562	Claims benefit of provisional	61/561087	2011-11-17
Prior Application Status	Expired	<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/US2012/049562	Claims benefit of provisional	61/555310	2011-11-03
Prior Application Status	Expired	<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/US2012/049562	Claims benefit of provisional	61/515752	2011-08-05
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. 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).

Application Number	Country ^j	Filing Date (YYYY-MM-DD)	Access Code ^k (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	MAYG-1001-WO-USC7
		Application Number	
Title of Invention	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE		

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

<p><input type="checkbox"/> 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.</p> <p>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.</p>
--

Authorization to Permit Access:

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

Applicant Information:

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	MAYG-1001-WO-USC7
	Application Number	
Title of Invention	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE	

Applicant	1	<input type="button" value="Remove"/>
<p>If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.</p>		
<input type="button" value="Clear"/>		
<input checked="" type="radio"/> Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.		Person who shows sufficient proprietary interest
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:		
<div style="border: 1px solid black; height: 20px; width: 100%;"></div>		
Name of the Deceased or Legally Incapacitated Inventor : <input type="text"/>		
If the Applicant is an Organization check here. <input checked="" type="checkbox"/>		
Organization Name	GUI GLOBAL PRODUCTS, LTD.	
Mailing Address Information For Applicant:		
Address 1	1819 St. James Place	
Address 2		
City	Houston	State/Province TX
Country	US	Postal Code 77056
Phone Number		Fax Number
Email Address		
Additional Applicant Data may be generated within this form by selecting the Add button. <input type="button" value="Add"/>		

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.	
Assignee	1
<p>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.</p>	
<input type="button" value="Remove"/>	
If the Assignee or Non-Applicant Assignee is an Organization check here. <input checked="" type="checkbox"/>	

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	MAYG-1001-WO-USC7
		Application Number	
Title of Invention	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE		

Organization Name	GUI GLOBAL PRODUCTS, LTD.		
Mailing Address Information For Assignee including Non-Applicant Assignee:			
Address 1	1819 St. James Place		
Address 2			
City	Houston	State/Province	TX
Country ⁱ	US	Postal Code	77056
Phone Number		Fax Number	
Email Address			
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.					
Signature	/Gene L. Tyler/			Date (YYYY-MM-DD)	2019-07-02
First Name	Gene L.	Last Name	Tyler	Registration Number	35395
Additional Signature may be generated within this form by selecting the Add button.					<input type="button" value="Add"/>

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

Privacy Act Statement

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

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

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

U.S. NON-PROVISIONAL APPLICATION
FOR
SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE
WITH A PORTABLE ELECTRONIC DEVICE

INVENTOR(S): **Walter G. Mayfield**
 Daniel M. Valdez

Assignee: **GUI Global Products, Ltd.**
 1819 St. James Place
 Houston, Texas 77056
 United States of America

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. Patent Application Serial No.: 16/388,691, filed April 18, 2019, which is a continuation of U.S. Patent Application Serial No.: 16/041,594, filed July 20, 2018, which is a continuation of U.S. Patent Application Serial No.: 15/852,000, filed December 22, 2017, which is a continuation of U.S. Patent Application Serial No. 15/597005, filed May 16, 2017, which is a continuation of U.S. Application Serial No.: 14/343665, filed July 14, 2014, which is a national stage entry of PCT application No.: PCT/US2012/049562, filed, August 3, 2012, which claims priority from U.S. Provisional Application Serial No.: 61/661090, filed June 18, 2012, and U.S. Provisional Application Serial No.: 61/619,229, filed April 2, 2012; and U.S. Provisional Application Serial No.: 61/592344, filed January 30, 2012; and U.S. Provisional Application Serial No.: 61/576834, filed December 16, 2011; and U.S. Provisional Application Serial No.: 61/569093, filed December 9, 2011; and U.S. Provisional Application Serial No.: 61/568031, filed December 7, 2011; and U.S. Provisional Application Serial No.: 61/561087, filed November 17, 2011; and U.S. Provisional Application Serial No.: 61/555310, filed November 3, 2011; and U.S. Provisional Application Serial No.: 61/515752, filed August 5, 2011, the entire disclosure of which is incorporated herein by reference in its entirety.

BACKGROUND OF THE INVENTION**1. Field of the Invention**

[0002] The invention relates to an apparatus for cleaning view screens. The invention particularly relates to such an apparatus used with electrical devices.

2. Background of the Art

[0003] Cleaning lenses has long been an issue for the users of devices employing them. For example, telescopes, glasses, binoculars, and cameras have long been used and keeping the lenses of such devices clean has been the subject of many creative efforts.

[0004] More recently, there are new devices to clean. With the advent of portable electronic devices, it has become common to observe such devices being used in many public venues. Such venues include coffee shops, restaurants, shopping malls, and the like. These devices can be seen in just about any public setting.

[0005] Many of the portable electronic devices have a view screen for displaying text. Some of these devices also are used for displaying photographs and in some cases movies. The newest of these devices display photographs and movies in high definition.

[0006] While the view screens are usually rugged, and often covered with a protective film or screen, they are still subject to becoming dirty. Oils from human skin, environmental liquids and powders, and even airborne aerosols and dust can collect on a view screen and make it difficult to use.

[0007] Cleaning the view screen of a portable electronic device can be problematic. It is often not desirable to use materials that are readily available to clean the view screen. For example, paper towels and paper napkins or sometimes composed of materials that may scratch and thereby damage a view screen.

[0008] Carrying appropriate cleaning materials is sometimes a problem. Cleaning devices are sometimes too bulky to be comfortably carried. In their rush to get ready in the morning, it is easy for users of electronic devices to forget or overlook such preparations for their day.

[0009] It would be desirable in the art of manufacturing portable electronic devices to incorporate into such devices the cleaning apparatus. It would also be desirable in the art of providing accessories for portable electronic devices to provide a cleaning component that can be carried on an electronic device case.

SUMMARY OF THE INVENTION

[00010] In one aspect, the invention is a method of cleaning a view screen of an electronic device having at least one case comprising wiping the view screen with a cleaning component wherein the cleaning component is configured to selectively couple to the at least one case using a magnetic attractive force.

[00011] In another aspect, the invention is a cleaning component for use on an electronic device view screen comprising a cleaning material covering at least one surface of a ferromagnetic or ferrimagnetic substrate wherein the cleaning component has a maximum thickness of 1.5 cm.

[00012] In still another aspect, the invention is a small electronic device comprising a case, a view screen, and internal electronic components wherein the view screen and internal electronic components are mounted within the case and the view screen is externally visible in at least one configuration of the case. Also, the case has a surface that is substantially diamagnetic and at least a part of the surface of the case has been configured to receive a cleaning component wherein: the cleaning component is configured to selectively couple to the

at least one part of the surface of the case that has been configured to receive the cleaning component; the at least one part of the surface of the case that has been configured to receive the cleaning component is ferromagnetic or ferrimagnetic or overlays a ferromagnetic or ferrimagnetic material; and the cleaning component comprises a cleaning material covering at least one surface of a ferromagnetic or ferrimagnetic substrate.

[00013] Another aspect of the invention is a second case, that functions to protect an electronic device's primary case, and has a surface that is substantially diamagnetic and at least a part of the surface of the second case has been configured to receive a cleaning component wherein: the cleaning component is configured to selectively couple to the at least one part of the surface of the second case that has been configured to receive the cleaning component; the at least one part of the surface of the second case that has been configured to receive the cleaning component is ferromagnetic or ferrimagnetic or overlays a ferromagnetic or ferrimagnetic material; and the cleaning component comprises a cleaning material covering at least one surface of a ferromagnetic or ferrimagnetic substrate.

[00014] In still another aspect, the invention is a method of cleaning a view screen or a lens for use with a mechanical or non-electronic device having a view screen or a lens comprising wiping the view screen or lens with a cleaning component wherein the cleaning component is configured to selectively couple to the at least one part of the mechanical or non-electrical device using a magnetic attractive force.

[00015] In yet another aspect, the invention is a method of cleaning a view screen or a lens using a cleaning component wherein the cleaning component is configured to adhere to portable object different from the object having the view screen or lens.

[00016] Another aspect of the invention is employing a cleaning component having a magnet element to activate or deactivate a magnetic switch.

[00017] In still another aspect, the invention is a cleaning component having a cleaning surface that is replaceable and held in place within the cleaning component with a tacky adhesive wherein the tacky adhesive is directly on the surface of the non-cleaning surface or the tacky adhesive is in the form of a double sided tape.

[00018] In yet another aspect, the invention is a cleaning component having an external cover for protecting one both sides of a cleaning material wherein the external cover is reversible so that it may be folded over to expose the cleaning surface.

[00019] In still another aspect, the invention is a case for an electronic device having a magnetic switch, and in the area of the case over the magnetic switch, a recessed area that

functions to facilitate a cleaning component having a magnet moving past the switch in order to activate or deactivate the switch.

[00020] Another aspect of the invention is a cleaning system having at least one element being a piece of clothing selected from the group consisting of a hat, helmet, sweatband or other headgear; a jacket or coat; a shirt or top; a skirt or pants; and a shoe or boot, wherein the piece of clothing is configured to accept a cleaning component and the cleaning component is held in place, at least in part, using a magnet.

[00021] In yet another aspect, the invention may be cleaning system comprising a cleaning component and an area on a device case configured to receive the cleaning component wherein the area of the device case configured to receive the cleaning component and the cleaning component may be used as a game wherein the cleaning component is tossed at the device case configured to receive the cleaning component.

[00022] In still another aspect, the invention is a stylus configured to receive a cleaning component.

[00023] Another aspect of the invention is a cleaning system having at least one element being an accessory selected from the group consisting of a purse, wallet, computer case, gun case, glasses strap, gloves, backpack, and a belt, wherein the piece of clothing is configured to accept a cleaning component and the cleaning component is held in place, at least in part, using a magnet.

[00024] Yet another aspect of the invention is a cleaning component for use on an electronic device view screen comprising a cleaning material covering at least one surface of a ferromagnetic or ferrimagnetic substrate wherein the cleaning component also includes a tab. In one embodiment, the tab is elongated so that it can function as a stand to hold the electronic device upright.

[00025] Another aspect of the invention is a cleaning device having a hard surface and cleaning surface and including at least one ferromagnetic or ferrimagnetic material within the cleaning device wherein the at least one ferromagnetic or ferrimagnetic material may function to actuate a power switch or sensor that is capable of being actuated using a magnet.

[00026] Another aspect of the invention is a cleaning device having additional functionality such as a remote control, laser pointer or the like.

[00027] In one aspect, the invention is a switching device for use with a portable electronic device having a view screen and at least one switch that can be activated or de-activated by introducing a magnetic field to the at least one switch wherein the switching device has at least one magnet and at least one surface that is non-abrasive to the surface of the view screen.

[00028] In another aspect, the invention is a switching device for an electronic apparatus that can be activated or deactivated by employing a magnet, the switching device having (i) at least one magnet, (ii) a body surrounding the magnet, and (iii) at least one surface configured to contact any surface of the device, including the view screen; wherein the surface configured to contact the electronic apparatus is non-abrasive to the view screen of the apparatus.

[00029] In another aspect, the invention is a method of conserving power when using a portable electronic device having a view screen and at least one switch that can activated or de-activated by introducing a magnetic field to the at least one switch wherein the switching device has at least one magnet and at least one surface that is non-abrasive to the surface of the view screen, wherein the method includes using the switching device to tum the portable electronic device off when the portable electronic device is not in actual use and then on when the portable electronic device is needed.

BRIEF DESCRIPTION OF THE DRAWINGS

[00030] The above and other features and advantages of the present invention will become more apparent by describing in detail embodiments thereof with reference to the attached drawings in which:

FIG. 1A illustrates the top view of an embodiment of a cleaning component;

FIG. 1B illustrate the side view of an embodiment of a cleaning component;

FIG. 2A illustrates the top view of a second embodiment of a cleaning component;

FIG. 2B illustrate the side view of a second embodiment of a cleaning component; and

FIG. 2C illustrates an embodiment similar to that of **FIG. 2B**, but having a tab;

FIG. 3 illustrates a computer case configured to receive a cleaning component;

FIG. 4 illustrates a flip type phone case configured to receive a cleaning component;

FIG. 5A illustrates a lateral type phone case configured to receive a cleaning component;

FIG. 5B illustrates the interaction of two components of the lateral type phone case configured to receive a cleaning component;

FIG. 6 illustrates a cleaning component with a single offset magnet;

FIG. 7 illustrates a cleaning component having multiple layers;

FIG. 8 illustrates a cleaning component used with a set of binoculars;

FIG. 9 illustrates a cleaning component employing a structural feature to enhance adhesion;

FIG. 10A illustrates a cleaning component employing replaceable cleaning surface held in place with a tacky adhesive;

FIG. 10B illustrates the cleaning component of **FIG. 10B** wherein the tacky adhesive is in the form of a double sided tape;

FIG. 11A illustrates a cleaning component employing a revisable cover;

FIG. 11B illustrates a the cleaning component of **FIG. 11A** where the cleaning surface is not attached to the cover;

FIG. 11C illustrates a the cleaning component of **FIG. 11A** where the cleaning surface is detachable;

FIG. 12 illustrates a cleaning component including a brush;

FIG.13A illustrates a cap having a cleaning component located on the bill of the cap;

FIG.13B illustrates a bottom view of the bill of the cap having a cleaning component located on the bill of the cap;

FIG.13C illustrates a bottom view of the bill of the cap having a cleaning component located on the bill of the cap with the cleaning component in place;

FIG. 14A illustrates a cleaning component having a “quick release” capability;

FIG. 14B illustrates a cleaning component having a “quick release” capability with cleaning component in the released state;

FIG. 15 illustrates a stylus for use with a cleaning component;

FIG. 16A illustrates a purse having a cleaning component attached thereto;

FIG. 16B illustrates an alternative embodiment of the purse having a cleaning component attached thereto;

FIG. 17A illustrates a top view of a cleaning component having a tab and a magnetic tab hold-down;

FIG. 17B illustrates a side view of a cleaning component having a tab and a magnetic tab hold-down;

FIG. 17C illustrates a side view of a cleaning component having a tab and a magnetic tab hold-down with the tab in the raised position;

FIG. 18 illustrates a side view of a cleaning component having a tab wherein the tab is elongated and functions as a stand for an electronic device;

FIG. 19A illustrates a top view of a cleaning component which may also be a switch for electronic devices having a magnetically activated switch or sensor;

FIG. 19B illustrates a side view of a cleaning component which may also be a switch for electronic devices having a magnetically activated switch or sensor;

FIG. 20 illustrates a cleaning component which may also include a powered devices such as a remote control, laser pointer or the like;

FIG. 21 illustrates a combination cleaner and glasses holder that is also buoyant; and

FIG. 22 is a photograph illustrating an example of a device as illustrated in **FIG. 21** preventing a pair of glasses from sinking;

FIG. 23 is an illustration of an embodiment which may be used to affix objects to clothing.

FIG. 24 is an illustration of a tablet computer and a switching device of the application;

FIG. 25 illustrates a side view of a the switching device in **FIG. 24**; and

FIG. 26 is a photograph of a trademarked doll used as a component of the switching device of the disclosure, perched on an APPLE iPad.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

[00031] One embodiment of the invention is a method of cleaning a view screen of an electronic device having at least one case comprising wiping the view screen with a cleaning component wherein: the cleaning component is configured to selectively couple to the at least one case using a magnetic attractive force. For the purposes of this application, the term “at least one case” means the primary case used by a manufacturer to hold and protect the individual electronic components of which an electronic device is composed, but it can also mean a protective case that functions to protect the primary case. For example, a smartphone generally comprises electronics disposed within a rigid shell like case. This would be the primary case. There are available protective cases, often made of leather, rubber, and/or rigid are flexible plastic, that serve to prevent scratches and blemishes on the primary case and sometimes to impart a bit of shock resistance as well.

[00032] The term electronic device means such devices having a view screen including, but not limited to cell phones, smartphones, some cameras, some telescopes, some weapons scopes, tablet computers, laptop computers, DVD players, and the like. Other examples include computer monitors, televisions, laboratory apparatus (both portable and non portable), and the like. The method of this application may be used with any electronic device having a view screen.

[00033] The term “selectively couple” describes the process wherein a cleaning component of the disclosure is applied to an electronic device and adheres to it because of a magnetic force. In one embodiment of the disclosure, there is sufficient magnetic force to allow the cleaning component to remain in place despite casual movements of the electronic device, but to still be easily removed by a human operator.

[00034] Turning to **Figs. 1A** and **1B**, a top and side view of a round cleaning component (**100**) are shown. As can be observed, the cleaning component is covered with a cleaner material (**101**). Cleaner materials useful with the method and apparatus of the application include, but are not limited to fabrics. Exemplary fabrics include microfiber cloths, open-end weave microfiber cloths, double layer cloths wherein the outer layer which would make contact with a view screen is a microfiber cloth, and combinations thereof. For the purposes of this application, the term “fabrics” is defined to further include non-plant materials such as animal skins and/or cloth prepared using synthetic materials or animal materials. In at least one embodiment, the fabric may be a shammy (a.k.a. chamois). In another preferred embodiment, the cleaning material may be the material commonly known in the art as a Micro Shamois Cloth such as is available from iKlear. Any cleaning material that can be used to clean a view

screen that does not cause excessive wear or abrasions may be used with the method and apparatus of the application. A ferromagnetic or ferrimagnetic substrate (102) is also shown.

[00035] Turning to **Figs. 2A and 2B**, a side view of the cleaning component, it can be seen that disposed within the cleaner material (201) is a ferromagnetic or ferrimagnetic substrate (202). The ferromagnetic or ferrimagnetic substrate may be made of iron or other conventional ferrimagnetic and ferromagnetic materials. It may also be a composite. Exemplary composites include combinations of aluminum, nickel, and cobalt compound with iron. Such composites may be made by sintering metals or by mixing the metallic components with a resin and injection molding. Mixtures of iron oxide and ceramic components such as barium and strontium carbonate may be used to make ceramic magnets for use as the Ferromagnetic or ferrimagnetic substrates useful with the application. For the purposes of this application, rare earth magnets, such as but not limited to samarian and neodymium based magnets, are ferrimagnetic and ferromagnetic materials and may be used to prepare the Ferromagnetic or ferrimagnetic substrates useful with the application. Any magnetic material or material that is attracted to magnets may be used to prepare the Ferromagnetic or ferrimagnetic substrates useful with the application.

[00036] In another embodiment, the invention is a cleaning component for use on an electronic device view screen comprising a cleaning material covering at least one surface of a ferromagnetic or ferrimagnetic substrate wherein the cleaning component has a maximum thickness of 1.5 cm. Turning to **Figs. 2A and 2B**, a top and side view of a rectangular cleaning component is shown. In this embodiment, a cleaner material (201) is shown surrounding, on both sides, a ferromagnetic or ferrimagnetic substrate (202) that is rectangular in shape.

[00037] In some embodiments, the cleaning material is present only on one side of the substrate. On the other side of the substrate is a different material that is selected to facilitate movement of the cleaning component on a view screen or to protect from a hostile environment. This material may be textured or it may be one that has a higher coefficient of friction than the cleaning material. In a variation of this embodiment, the cleaning component may include a tab that can be pinched to facilitate moving the cleaning component. In still another variation, in this latter embodiment, the tab may be constructed such that it can lay down in order to lower the profile of the cleaning component. Turning to **Fig. 2C**, a cleaning component otherwise identical to that of **Figs. 2A and 2B** is shown, except that a tab (203) is shown in the raised position.

[00038] The dimensions of the cleaning component may vary according to its intended use. For example, one class of small electronic devices upon which the cleaning components may

be employed is cell phones. The cell phone class includes both cell phones and devices combining cell phone functionality with computing power such as the so called smart phones. When the cleaning component will be used with a cell phone, it may have dimensions ranging as follows. Length may range from about 2.1 cm to about 0.5 cm. In one embodiment, the length may be about 1.7 cm. Width may range from 1.9 cm to about 0.5 cm. In one embodiment, the width may be about 1.7 cm.

[00039] Another class of small electronic devices is the so-called tablet computers. When the cleaning component will be used with a tablet computer, it may have dimensions ranging as follows. Length may range from about 7.5 cm to about 0.6 cm. In one embodiment, the length may be about 2.5 cm. Width may range from 3 cm to about 0.5 cm. In one embodiment, the width may be about 2.5 cm.

[00040] In embodiments of the disclosure wherein the cleaning component will be employed on a cell phone or tablet computer, it may be desirable to make the cleaning component as thin as possible. This is of course the subject the caveat that the cleaning component is thick enough to be easily manipulated during the cleaning process. While in some embodiments the cleaning component may be as thin as a sheet of paper, but in most embodiments it will have a thickness of from about 0.5 cm to about 1 mm.

[00041] The overall shape of the cleaning component when used with cell phones and tablet computers may be round, oval, rectangular, or square. In some embodiments, in order to avoid overlapping with a view screen, the cleaning component may be shaped to fit available space.

[00042] The cleaning components of the disclosure may be used with another class of small electronic devices, commonly referred to as laptop computers. They may also be used with televisions, laboratory instruments, and the like. Because these devices are larger it may be desirable in some embodiments to increase the dimensions of the cleaning component. For example, the length of cleaning component used with these devices may range from about 10 cm to about 1 cm. The optimum length may range from about five cm to about 8 cm. The width may range from about 0.5 cm to about 5 cm. The optimum width may be from about 0.5 to about 5 cm. Similar to the other classes, the cleaning component may be as thin as a sheet of paper, but in most embodiments it will have a thickness of from about 0.5 cm to about 1 mm.

[00043] For the larger devices, shape is generally not as critical. There are often larger areas to which the cleaning component can be coupled. For these applications, it is often desirable to make the cleaning component rectangular in shape. Still, other shapes would be within the scope of the claims of this application.

[00044] Another embodiment of the application invention is a small electronic device comprising a case, a view screen, and internal electronic components wherein the view screen and internal electronic components are mounted within the case. In this embodiment, the view screen is externally visible in at least one configuration of the case and the case has a surface that is substantially diamagnetic. At least a part of the surface of the case has been configured to receive a cleaning component. Further, the cleaning component is configured to selectively couple to the at least one part of the surface of the case that has been configured to receive the cleaning component; the at least one part of the surface of the case that has been configured to receive the cleaning component is ferromagnetic or ferrimagnetic or overlays a ferromagnetic or ferrimagnetic material; and the cleaning component comprises a cleaning material covering at least one surface of a ferromagnetic or ferrimagnetic substrate.

[00045] It may be desirable, in some applications, to make the cleaning components such that they have beveled edges. Such components could be particularly useful when coupled with devices having a case configured to accept the cleaning component wherein there is a ridge configured to accept the beveled edge to more securely hold it in place.

[00046] Some electronic devices have view screens that are always visible. Exemplary of this are some cell phones and tablet computers that do not have covers. Other devices such as laptops have view screens that may be seen only when the cover is lifted.

[00047] In embodiments of the disclosure where a case has been configured to receive a cleaning component, it may be so configured in several ways. In one embodiment, such a case is configured by placing a ferromagnetic or ferrimagnetic material onto the surface of the case where the cleaning component is received. In another embodiment, the case is prepared such that the case itself is composed of a ferromagnetic or ferrimagnetic material at the point where the cleaning component is received. In still another embodiment, the case is prepared by placing a ferromagnetic or ferrimagnetic material underneath where the cleaning component is received. Additionally, the case may be fabricated such that the cleaning component is received into a groove, slot, or other indented geometrical shape to lower the profile of the cleaning component to facilitate closing a cover or prevent snagging a cleaning component. Another reason to lower the profile that the cleaning component may be to enhance the aesthetics of the device.

[00048] Turning to **Fig. 3**, the base of a laptop computer (**300**) is shown. Above and to the right of the keyboard (**301**) is a rectangular indentation (**302**) having dimensions and all three directions that are slightly larger than those of a cleaning component (**303**). In one embodiment of the disclosure, the cleaning component has a ferromagnetic or ferrimagnetic substrate that

is a permanent magnet. The case, at the base of the invention, is prepared using a ferromagnetic material.

[00049] In employing the method of the disclosure, the cleaning component is coupled to the base of the laptop computer by placing it within the invention. The magnetic attractive force between the permanent magnet and the ferromagnetic material holds the cleaning component in place as a laptop computer is moved. The cleaning component is decoupled from the laptop computer base by lifting it to overcome the magnetic force. The cleaning component is then placed on the view screen (not shown) and is then moved across the view screen using one or more fingers. After the view screen has been cleaned, the cleaning component may be recoupled to the computer base.

[00050] Similarly, the method and apparatus of this disclosure may apply to a second case. In this embodiment, a case constructed to protect the primary case of a small electronic device may be similarly configured to receive a cleaning component. Such cases which are sometime manufactured by 3rd party providers generally serve to protect the finish of the primary case and/or provide additional impact protection for the electrical components of the small electronic devices.

[00051] In practicing the method of the disclosure, there are three basic embodiments regarding the source of magnetic force used. In one embodiment, the cleaning component may include a magnet and the case may include an unmagnetized ferromagnetic or ferrimagnetic material. In a second embodiment, the cleaning device may have only an unmagnetized ferromagnetic or ferrimagnetic material and the magnet may be in or on the case. In the third embodiment, both the cleaning component and the case may include a magnet.

[00052] When a magnet or a ferromagnetic or ferrimagnetic material is applied to a case, in one embodiment, it may be adhered using a tacky adhesive. One such embodiment includes using double sided gaffer's tape as the source of the tacky adhesive. Any tacky adhesive can be used with the method of the application.

[00053] In one embodiment, the cleaning component of the application may be used as a source of advertising. For example, in one embodiment of the application, a cleaning component may have imprinted upon it a logo, trademark, slogan, or the like. In another embodiment, a pre-printed substrate having a logo or decorative side, and optionally, a second adhesive side may be used. In some of these embodiments where the substrate includes an adhesive, it may be used to secure a magnet to the cleaning component. In another embodiment, the substrate having an adhesive may be free of advertisements and/or decoration.

[00054] In this application, the term diamagnetic is used to delineate materials that are not ferromagnetic or ferrimagnetic. From a practical perspective, the materials that are paramagnetic have such a weak attraction to magnets that they would not be effective if utilized and thus are to be treated as if they are diamagnetic.

[00055] While, generally speaking, the cleaning components are meant to be unitary, in some embodiments, the cleaning material may be removed and replaced with new cleaning material. Also, the cleaning components may be configured such that they have a thinner center to allow a user to employ lateral force to the cleaning component to more easily slide it across the surface of a view screen. In some embodiments, the cleaning component may have a profile such that the cleaning component is thinner in the middle and near the edge of the cleaning component.

[00056] Other embodiments of the invention include those such as are illustrated in **Fig. 4**. In this embodiment, a flip case and a smart phone **400** is shown. The flip case includes a cover **401**, a hinge **403**, and a base **404** holding the smartphone **405**. The cleaning device **402** is held in place by means of a magnet (not shown). In one embodiment, the magnet is built into the cover. In another embodiment, the magnet is attached to the cover using an adhesive. In still another embodiment, the cover includes a ferromagnetic or ferrimagnetic material rather than a magnet.

[00057] While many of the cleaning components have a single magnet or ferromagnetic or ferrimagnetic substrate, this is not a limitation of the application. In some embodiments, it may be desirable to have multiple magnets in a cleaning component. For Example, at **Fig. 5**, a case having two magnets to hold it closed **500** is shown. This case consists of a body **504** which functions to hold a smartphone; and a lid having a top **501**, a side **502**, and a hinge **507**. Also shown is the cleaning component **503** adhering to the inside of the side of the lid. The side is shown again at **502a** from lateral perspective with the magnets visible **506**. The cleaning component **503a** is also shown from a lateral perspective, again showing two magnets **506**. The two magnets of the case line up with the two magnets of the cleaning component in some embodiments to allow for a more secure fit to the case.

[00058] Note that in the embodiments shown in **Fig. 5**, the magnets are offset from center. The magnets may be placed anywhere within the cleaning component as necessary to facilitate their use with a device. For example, in **Fig. 6**, a cleaning component **602** is shown with a magnet **601** offset near the edge of the component. In one example of a method of the application, the cleaning component is adhered to the top of a device having a case that closes, such as a laptop computer, with the body of the cleaning component rotated down when the

case is closed. When the laptop is opened for use, the body can be rotated up and away from the screen.

[00059] In some embodiments, the cleaning component of the application can be composed of multiple layers. For example, in one such embodiment illustrated in **Fig. 7**, a three layer cleaning component may be seen. Therein, a cleaning component having an offset magnet **702** and as described hereinabove is shown. It is sandwiched between two additional layers (**701** & **703**) that serve to protect the cleaning layer from ambient conditions that might shorten its useful life. One such environment could be one that is dusty such as in a production facility that employs saws or knives to cut dust generating objects. In an alternative embodiment, there may be multiple cleaning components so that dirty or worn components can be discarded.

[00060] In an alternative embodiment, the layers of the cleaning component may be stitched or otherwise joined with the caveat that at least one external layer will have a magnet or a ferromagnetic or ferrimagnetic substrate.

[00061] The cleaning components of the application may be used with mechanical and/or non-electrical devices having small view screens, windows, or lens. For example, in one embodiment, a cleaning component may be used with a site glass in a chemical manufacturing facility. In another embodiment, the cleaning component may be used with a pump to facilitate the cleaning a window used to make visual inspections of the material within the feed or flow lines. The cleaning components are particularly useful with devices having lens.

[00062] Devices that have lens include, but are not limited to telescopes, binoculars, eye glasses, and weapon scopes. Turning to **Fig. 8**, a pair of binoculars is shown having eye pieces **801**, a body **803**, and objective lens **804**. In one embodiment, a cleaning component for the lenses may be secured in place using a magnet directly upon the body of the binoculars. However, in a preferred embodiment, the cleaning component (**804** or **806**) is secured to the inside of a lens cap or an eyepiece cap (**805** or **807**). In such an embodiment, different sized cleaning components may be employed and by placing them under the lens cap, they are protected from the environment except when in use, thereby extending their use-life.

[00063] In one preferred embodiment, a lens cap may be prepared or even retrofitted to work with the cleaning components of the disclosure by deploying a magnet on the outside of the lens cap using an adhesive. In an especially useful embodiment, the magnet serves as the base for a tether that terminates in an element useful for attaching the lens cap to another object, such as the device to which it is employed to protect a lens.

[00064] In an alternative embodiment, the cleaning component may be configured to adhere to a case for the objects having lens.

[00065] While the adhesive may be a tacky adhesive such as already discussed hereinabove, it may also be a permanent adhesive. Such permanent adhesives may be selected from acrylic emulsion adhesives, rubber-based adhesives, or any other suitable material exhibiting durable bonding qualities.

[00066] In a related embodiment, a cleaning component of the invention may be secured to a portable object, such as, but not limited to, a set of keys, jacket, other clothing items, jewelry, belts, or other items worn or kept in a pocket, by employing a tether having a first end terminating in form suitable for connecting to, for example the key chain and a second end terminating in a magnet configured to secure a cleaning component as describe hereinabove. Two uses for this embodiment would be the cleaning of glasses and also the cleaning of goggles or other protective eyewear.

[00067] In an alternative embodiment, the magnet that was on the tether can attached a clip or other device suitable for affixing the cleaning component to the portable object.

[00068] In yet another alternative embodiment, the portable object may be modified to include a magnet so that the cleaning component can be secured directly to the portable object.

[00069] In still another related embodiment, a cleaning component of the application can be adhered to a personal accessory such as a wallet, change purse, purse or the like.

[00070] The cleaning components may be configured with sufficient structural integrity that they have constant or at least resilient shape at the magnet so that they may employed with devices having cases configured to utilize that dimensional stability to increase the security with which the cleaning components are adhered to the case. **Fig. 9** shows such a device case **901** having a raised section **902** configured to fit within a recess **904** of a cleaning component **903**. The magnets (not shown) are within the recessed and raised parts of the case and cleaning component. When joined, the fitting of the raised section and recessed sections add an additional level of security to the magnetic adhesion.

[00071] Another embodiment of the disclosure includes incorporating a magnet or ferromagnetic or ferrimagnetic material into a rigid or semi rigid construction configured to accept a cleaning material as defined hereinabove. In some applications of this embodiment the rigid or semi-rigid construction can be used to facilitate moving the cleaning material during the process of cleaning.

[00072] In addition to their cleaning functionality, the cleaning components of the application have a functionality of being able to active magnetic switches on devices having such switches. This is particularly useful in saving battery life as it does not require the cover of such devices to be closed (the normal mode for activation of such switches). In the use of

tablet devices having a magnetic switch, the cleaning components are particularly useful as the tablet can be put into hibernation mode with a single touch to the cleaning component as compared to the multiple touches required to do the same thing using the touch pad of the tablet.

[00073] In one embodiment where a cleaning component of the application is employed on a tablet using the Apple® Smart Cover, it may be employed on the outside of the smart cover to function as a handle for more easily manipulating the cover. Magnets at the bottom of the Smart Cover allow for a very efficient employment of the cleaning component.

[00074] Another embodiment of the cleaning components of the application is one where the cleaning component has a cleaning surface that is replaceable and held in place within the cleaning component with a tacky adhesive wherein the tacky adhesive is directly on the surface of the non-cleaning surface or the tacky adhesive is in the form of a double sided tape. Turning to **Fig. 10A**, there is an illustration of an enhancement to any of the other cleaning components discussed herein, wherein a cleaning surface **1001** is held in place on a non-cleaning surface **1002** using a tacky adhesive **1003**. In **Fig. 10B**, an alternative embodiment is shown wherein the tacky adhesive is in the form of a double sided tape **1004**.

[00075] In still another embodiment, the cleaning component is one having an external cover for protecting one or both sides of a cleaning material wherein the external cover is reversible so that it may be folded over to expose the cleaning surface. Turning to **Fig. 11A**, a configuration where single side of two cleaning surfaces **1102** is protected by an external cover **1101**. The external cover **1101** includes a hinge **1103** which may be a cloth hinge or a mechanical hinge or any other type of hinge known to those of ordinary skill in the art which would not interfere with the cleaning functionality of the cleaning component. In one embodiment, the configuration of **Fig. 11A** when not reversed is particularly useful for cleaning both sides of a lens such as in a pair of eyeglasses. In some embodiments, the cleaning surfaces may be specialized with one side of the cleaning surface being more useful removing oily materials while the other side is more useful for removing water based materials from a lens or view screen surface.

[00076] The cleaning component may be, in some embodiments, stored in an eyeglasses case configured to receive the cleaning component. In some embodiments, this case may include a magnet and in other embodiments, the case may be prepared using a ferromagnetic or ferrimagnetic substrate.

[00077] Turning to **Fig. 11B**, in this embodiment the same a single sheet of cleaning material **1102** is shown where the cleaning material hangs from the hinge area of the cleaning

component **1103**. In either of these embodiments, the external component may be fully opened and folded back upon itself to serve as a support of the cleaning surface.

[00078] Turning to **Fig. 11C**, still another useful configuration is shown where the cleaning material, **1102** is shown to be detachable. In some embodiments, the cleaning material is held in place with a magnet or ferromagnetic or ferrimagnetic substrate. If there is a magnet in both the cleaning material and the cover, in some embodiments, at least one of the magnets will be on a swivel to facilitate the easy replacement of the cleaning material within the cover.

[00079] In another embodiment, the cleaning component is configured to work with optical devices such as scopes and binoculars wherein the cleaning component includes at least one cleaning surface and brush. Such a cleaning component is illustrated in **Fig. 12**. The body of the cleaning component **1201** has at least one surface that is a cleaning surface and in some embodiments, the entire body is a cleaning surface. The body also acts as a support for a brush **1202**. The bristles of the brush may be employed to remove sand, dust or other materials from a lens or view screen. After this removal, the cleaning surfaces may be used to further clean the lens or view screen. In one particularly desirable embodiment, the cleaning component is sized to fit within a lens cap and may be held in place in the lens cap employing a magnet (not shown). In still another embodiment, the cleaning component has a cleaning only one side and the other side a tab or other construction to facilitate holding the component. And, yet another embodiment, there is no cleaning surface and this configuration functions only as a brush.

[00080] In another embodiment, a cleaning system having at least one element being a piece of clothing may be selected from the group consisting of a hat, helmet, sweatband or other headgear; a jacket or coat; a shirt or top; a skirt or pants; and a shoe or boot, wherein the piece of clothing is configured to accept a cleaning component and the cleaning component is held in place, at least in part, using a magnet. The magnet may be incorporated using any method known to those of ordinary skill in the art of preparing clothing. Turning to **Fig. 13A**, a cap **1300** having a bill **1301** is shown. In this embodiment, at **Fig. 13B**, a magnet **1303** is located on or in the bill of the hat. **Fig. 13C** illustrates a cleaning component **1304** in place on the bill.

[00081] The cleaning components of the application may be placed in any type of clothing. For example, the cleaning devices may be employed with a boot having an magnet located on the upper quadrant of the boot. In another example, the magnet may be incorporated into a pocket of a pair of trousers analogous to a watch pocket within a pocket of times past. Any employment of a magnet to secure the cleaning devices of the application within a piece of clothing is within the scope of the invention.

[00082] Turning to **Fig. 14**, an embodiment of the disclosure is illustrated that is a quick release cleaning component. In this embodiment, at **Fig. 14A**, a cleaning component which includes a flexible cover **1400** and a cleaning material **1402** within the flexible cover bends or folds such that two magnets **1401** at the ends may function to keep it folded when not in use. A third magnet in the middle of the cleaning component serves to secure it to the body of a holding component having index number **1403**. The holding component is composed of the same flexible cover material, at least in some embodiments, and usually will not include a cleaning material. The holding component will also have magnets **1401** at the ends. **Fig. 14B** shows this cleaning component engaged upon a substrate **1404**, often a key ring, a caribbeaner, or a ring on a jacket or other article of clothing.

[00083] When engaged with the cleaning component, the holding component wraps around the substrate and the magnets at the end of the holding component hold the cleaning component in place employing the magnet at the middle of the cleaning component. The cleaning component can be quickly removed by pulling it with a force sufficient to overcome the attraction of the magnets. As the cleaning component leaves the holding component, the magnets of the holding component will be attracted to each other thereby keeping the holding component wrapped around the substrate.

[00084] Turning to **Fig. 15**, a stylus **1500** is shown that is configured to accept a cleaning component of the disclosure (not shown). In this figure, the stylus may be prepared wherein the entire stylus exterior is a magnet or a substrate that would be attracted to a magnet. In an alternative embodiment, the stylus includes a clip **1501** or other decorative component which can serve as a substrate to accept and hold a cleaning component. Note that the stylus may also be a writing implement.

[00085] Another aspect of the invention is a cleaning system having at least one element being an accessory. The accessory may be selected from the group consisting of a purse, wallet, computer case, gun case, glasses strap, gloves, backpack, and a belt, wherein the accessory is configured to accept a cleaning component and the cleaning component is held in place, at least in part, using a magnet. In **Fig. 16A**, a purse **1600** is shown having attached thereto a cleaning component **1601** of the application. The cleaning component is shown attached to the handle **1602** of the purse. The cleaning component is shown in this illustration as being attached via a simple loop **1603** from the handle, but it can be attach using any means known to those of ordinary skill in the art or otherwise already disclosed herein. For example, the cleaning component may be attached to the pull tab of a zipper. It may also be attached to a decorative

ring. On a backpack, it may be attached to a ring which also allows for the attachment of a shoulder strap.

[00086] Also shown in **Fig. 16A** is the use of a logo for advertising purposes wherein the logo is clearly visible on the cleaning component.

[00087] In **Fig. 16B**, an alternative embodiment of the purse is shown wherein the cleaning component is attached to a purse having a flap **1604**. In this embodiment, the cleaning component, shown in a cut-away view, is protected from environmental damage by being between the flap and the side of the purse. In one embodiment, the purse includes a magnet that then couples with the magnet of the cleaning component to hold it in place.

[00088] The cleaning components may be enhanced by adding additional features. For example, the cleaning component having a tab illustrated in **Fig. 2C** may be further enhanced by employing a magnetic hold-down. Turning to **Fig. 17A**, a cleaning component **1700** having a tab **1701** is shown with the tab in the closed position. **Fig. 17B** is a side view of the same cleaning component. Also shown in this view are the magnet **1702** and cleaning material **1703**. It can be seen in this view that the tab has a hinge **1704** at its center. In **Fig. 17C**, the cleaning component is shown with the tab in the raised position and also showing a magnet **1705** within the raised portion of the tab. The magnet, when the tab is closed, functions to hold the tab down which may prevent the tab from being broken or the tab being caught by another object resulting in the cleaning component being unintentionally removed from its substrate.

[00089] In another embodiment featuring a tab, **Fig. 18** illustrates an electronic device **1801** having a cleaning component **1802** with an elongated tab **1803**. The tab is hinged (not shown) so that it may be positioned to act as a stand. **Fig. 18** illustrates a “portrait” configuration, but in another embodiment, the stand may be used to hold the device in a “landscape” configuration.

[00090] Any cleaning component useful with the application may be prepared using additives that may be applied to the cleaning material to make it more suitable to a specific cleaning job. For example, in some embodiments, the cleaning material may be treated to make it better at removing oily smudges from a lens while in other embodiments, the cleaning material may be modified to make it better for removing hydrophilic dirt or smudges. In still other embodiments, the cleaning material(s) in a cleaning component maybe selected to have part of the component be useful for oily smudges while another part of the cleaning component is more useful for hydrophilic dirt or smudges. In embodiments where the cleaning components have more than one cleaning surface, then the cleaning materials and/or additives may be selected so that they are useful for cleaning both types of smudges/dirt.

[00091] In some embodiments of the cleaning components of the application, the use of magnets or ferromagnetic or ferrimagnetic substrates is done with magnetic orientation utilized to facilitate the removal or replacement of the cleaning component to/or a case or other substrate. For example, when possible it is desirable to employ only a single magnet at a contact/adhesion point where the magnet is affixed using a ferromagnetic or ferrimagnetic substrate. This avoids entirely the problem of magnetic orientation when returning the cleaning component.

[00092] When the strength of two magnets is necessary, then the use of a swivel as described above may be desirable. Other means of mitigating the issues arising with magnetic orientation include but are not limited to printing a notice on the device (such as “this side up” or configuring the shape of the cleaning component such that it is obvious which side of the cleaning component will have an attraction to the magnet fixed on or within the case to which it is being applied.

[00093] Any cleaning device of the application may be prepared using an additional layer that functions to stiffen the cleaning device. As the objects to be cleaned, be they viewscreens or lens, get larger, it may be desirable to stiffen the cleaning device. Materials useful as a stiffening layer include, but are not limited to plastic, metal, wood and heavy fabrics.

[00094] The cleaning components of the disclosure, when prepared with especially strong magnets, can have a dual purpose of being a game component. For example, in an embodiment where a smart phone is within a case having a recessed area configured to receive a cleaning component, the recessed area and the cleaning component may be shaped to resemble a ball or other game object. If the cleaning component is tossed accurately, it will be attached into the recessed area and such a toss could be a goal or score. Any such game is within the scope of the invention.

[00095] In order to make the cleaning components more desirable to young users, they may be converted into or incorporated into dolls or toys with the caveat that the doll or toy is configured to be attached to or perched upon an electronic device and secured thereon using a magnet. While trademarked and/or copyrighted toys and dolls may be used (subject to proper licensing), even generic toys and dolls may be used, particularly if they will function to encourage proper maintenance of devices by, at least in some instances, young users. For example a Mini Beanie Baby™ from TY™ may be configured to sit upon a rectangular cleaning component wherein the cleaning component resembles a “rug.” In another embodiment, covers and cases for electronic devices may be configured to resemble a cage or a house and an appropriately selected figure prepared using a cleaning material on at least one

surface and at least one magnet. The figure/cleaning component could be adhered to the cover or case such that it appears to be using the cage/house. One example would be the use of a Snoopy™ shaped cleaning component on a case or cover having a doghouse design or shape. In another embodiment, an Angry Bird™ figure could be configured to sit upon (aka perch) upon the top of a case or cover being secured from falling by the magnet containing within the cleaning component.

[00096] In yet another example of employing the cleaning components of the application, a cleaning component may be used on the contact surface of interactive toys used with electronic devices. The advantage of this embodiment would be that the toy would simultaneously clean a view screen/monitor while providing entertainment. In still another embodiment, such devices may be employed for purposes of therapy rather than entertainment, or they may be used for both.

[00097] The cleaners of the application, in some embodiments, may be prepared from wood, plastic or even metal. Turning to **Fig. 19A&B**, a combination switch and cleaner for an electronic device is shown. The switch/cleaner may be made with, for example, acrylic plastic. In this embodiment, the switch is shown from above in **Fig. 19A** where the hard shell is **1901** and three magnets are enclosed within the shell and have the reference number **1902**. Figure **19B** is a side view that also shows the cleaning material, **1903**.

[00098] Cleaners such as those illustrated in **Fig. 19** may be employed with devices that have power switches or sensors that may be actuated using a magnet. In some embodiments, the magnets of these cleaners may serve a dual function of both actuating a sensor or switch and holding the cleaner in place when not in use. As devices change, the number and location of the magnets could be modified to fit new devices.

[00099] In addition to the shape shown in the drawing, the cleaner/switches may be further modified to facilitate use by incorporating recesses (not shown). In an alternative embodiment, the switch may also have a knob, or “bumps” or surface features that allow for an easier “grip” by the finger, two fingers, one or two fingers and thumb used to move the cleaner/switch. In some embodiments, a tacky adhesive may even be employed upon the surface.

[000100] Another embodiment of the application is a cleaning device having additional functionality such as a remote control, laser pointer or the like. Turning to **Fig. 20**, a device **2000** including both a laser pointer and a remote control is shown. This device includes a case, **2001**, a battery **2002**, a remote transmitter and/or receiver **2004** and a laser **2007**. Power is provided to the remote over circuit **2003** and to the laser over circuit **2008**. The remote device is controlled using the buttons shown at **2005**. An off/on switch is provided for the laser

at **2006** which actuates a switch on the top of the laser (not shown). This device may or may not include cleaning capabilities but will include a rare earth magnet or magnets such as are already disclosed. Ideally, the device may be deployed with an apparatus with which the additional functionality is complementary. For example, a laser pointer and a remote functionality for sending signals to a laptop computer to aid in providing visual aids during a conference presentation or lecture.

[000101] Capabilities that can be included with this embodiment include, but are not limited to: pointing devices such as a laser pointer; remote functionality such as a transmitter that can send mouse inputs to control a presentation; a wifi hotspot, and the like. The remote function can be particularly useful for volume control, off/on switching, pause/play, and next/previous slide functionality.

[000102] Still other functionality that may be incorporated into such a device may include, but not be limited to a flash drive or other solid-state recording device, earplugs, Bluetooth earplugs, credit card reader, microphone, and the like.

[000103] In some embodiments, the devices of the application may be held in place using both magnetic and frictional forces. For the purposes of this, the term frictional forces includes those such as are obtained by including a ridge on a cleaning device that fits into a slot on a case. For example, a smart phone case having a slot which is configured to receive a cleaning device of the application wherein the cleaning device has a ridge that fits into that slot. By having both magnetic and frictional forces in play, such a cleaning device could be employed where it would otherwise be likely that the cleaning device would be separated from the smart phone case.

[000104] Also within the scope of the application are embodiments wherein the cleaning material is replaceable. In these embodiments, the cleaning material may be such that it is held in place by an adhesive or the cleaning material may be rigid and fit within a slot configured to receive it. This is true of any of the previously disclosed embodiments.

[000105] The cleaning devices of the application may be prepared using material that is foamed or otherwise buoyant. For example, in one application, a glasses holder can be configured to prevent a pair of glasses from sinking if dropped into water. For Example, in **Fig. 21**, a cleaning device **2100** is shown that has an outside cover **2101** and two cleaning surfaces within **2104**. Within the outside cover are two foamed inserts **2103** and two magnets **2102** which function to hold the cover together when the cleaning device is not in use. **Fig. 22** is a photograph showing such a device in use. Note that the cleaning device prevents the glasses from sinking.

[000106] Embodiments of the disclosure that are hourglass in shape may be prepared using exceptionally strong magnets. Turning to **Fig. 23**, these embodiments, in addition to being useful for cleaning lenses, may also be employed to affix items such as glasses, golf tees, flies for fly-fishing and other fish hooks, and the like to clothing and hats. The device **2300** is employed by opening the device and then placing the magnets **2302** on either side of a substrate like the sleeve or pocket of a shirt. The body of the cleaner, which is flexible, then “snaps” shut as the magnets divided only the thin material of the shirt or hat. By inserting a pen, pair of glasses or the like before bringing the magnets together, the item can be held in place. In one particularly useful embodiment, two such devices can be applied to the lens of a pair of glasses thereby protecting the lens from scratches and other perils of the environment.

[000107] In another embodiment, the cleaners of the application can be applied to a non-magnetic surface using an adhesive, a clamp, an elastic snap on design or the like.

[000108] The previous embodiment is just one example of how to prepare a buoyant cleaner. Any buoyant material can be employed in the making such an apparatus. For example the cleaning material themselves can be encapsulated around the buoyant core.

[000109] Many the features of the illustrated devices of the application can be employed on other embodiments. For example, the use of buoyant materials may be employed with cleaning devices such as those illustrated in **Figs. 13 and 14**. Also, any of the embodiment of the application with sufficient internal volume, may include a reservoir for a cleaning fluid which may be dispensed as a spray or any other method known to those of ordinary skill in the art.

[000110] One embodiment of the invention is a switching device for use a portable electronic device having a view screen, a switch for turning the portable device off and on that can be activated or deactivated by the application of a magnetic field and at least one case. The term portable electronic device means such devices having a view screen including, but not limited to, tablet computers, laptop computers, portable DVD players, and the like.

[000111] The switching devices of the application selectively couple with the case or cases of the portable electronic devices. The term “selectively couple” describes the process wherein a switching device of the disclosure is applied to a portable electronic device and adheres to it because of a magnetic force. In one embodiment of the disclosure, there is sufficient magnetic force to allow the switching device to remain in place despite casual movements of the portable electronic device, but to still be easily removed by a human operator.

[000112] Turning to **Fig. 24**, a front view of a portable electronic device, in this case a table computer (**2400**) is shown. As can be observed, the switching device (**2401**) is selectively coupled to the front of the portable electronic device **2402** outside of the view screen **2403**.

The magnetic switch is normally disposed with the portable electronic device but is shown here for illustration purposes (2404).

[000113] In employing the method of the application, the switching component may be picked up and, depending upon the model and functionality of the magnetic switch, the switching device is either applied directly to the magnetic switch or applied to either side of the switch and then slid past it to activate or deactivate the portable electronic device.

[000114] Turning to **Fig 25**, a side view of the switching device **2401** of **Fig. 25** may be seen. The body of the switching device has a bottom surface (2501) and a top surface 2502. This particular embodiment has a tab (2503) on the top surface to facilitate its manipulation. Disposed within the switching device is a ferromagnetic or ferrimagnetic substrate (2504). In this embodiment, the bottom of the switching device is in contact with portable electronic device and is composed of a material that is not abrasive to the portable electronic device generally and the view screen in particular. Except for this limitation, the switching devices may be prepared with any material known to be useful to those of ordinary skill in the art for such applications.

[000115] In some embodiments, the switching device may include a tab that can be pinched to facilitate moving the switching device. In still another variation, in this latter embodiment, the tab may be constructed such that it can lie down in order to lower the profile of the switching device.

[000116] The dimensions of the switching device may vary according to its intended use. For some embodiments, length may range from about 12.5 cm to about 5 cm. In one embodiment, the length may be about 7 cm. Width may range from 1.5 cm to about 4 cm. In one embodiment, the width may be about 2cm.

[000117] The overall shape of the switching device may be round, oval, rectangular, or square. In some embodiments, in order to avoid overlapping with a view screen, the switching device may be shaped to fit available space.

[000118] Another embodiment of the application invention is a small electronic device comprising a case, a view screen, and internal electronic components wherein the view screen and internal electronic components are mounted within the case. In this embodiment, the view screen is externally visible in at least one configuration of the case and the case has a surface that is substantially diamagnetic. At least a part of the surface of the case has been configured to receive a switching device. Further, the switching device is configured to selectively couple to the at least one part of the surface of the case that has been configured to receive the switching device; the at least one part of the surface of the case that has been configured to

receive the switching device is ferromagnetic or ferrimagnetic or overlays a ferromagnetic or ferrimagnetic material.

[000119] It may be desirable, in some applications, to make the switching devices such that they have beveled edges. Such components could be particularly useful when coupled with devices having a case configured to accept the switching device wherein there is a ridge configured to accept the beveled edge to more securely hold it in place.

[000120] In embodiments of the disclosure where a case has been configured to receive a switching device, it may be so configured in several ways. In one embodiment, such a case is configured by placing a ferromagnetic or ferrimagnetic material onto the surface of the case where the switching device is received. In another embodiment, the case is prepared such that the case itself is composed of a ferromagnetic or ferrimagnetic material at the point where the switching device is received. In still another embodiment, the case is prepared by placing a ferromagnetic or ferrimagnetic material underneath where the switching device is received. Additionally, the case may be fabricated such that the switching device is received into a groove, slot, or other indented geometrical shape to lower the profile of the switching device to facilitate closing a cover or prevent snagging a switching device. Another reason to lower the profile that the switching device may be to enhance the aesthetics of the device.

[000121] In employing the method of the disclosure, the switching device is coupled to the base of, for example, a laptop computer by placing it within the invention. The magnetic attractive force between the permanent magnet and the ferromagnetic material holds the switching device in place as a laptop computer is moved. The switching device is decoupled from the laptop computer base by lifting it to overcome the magnetic force. The switching device is then placed on the view screen (not shown) and is then moved across the view screen using one or more fingers. After the device has been activated or deactivated, the switching device may be recoupled to the computer base.

[000122] Similarly, the method and apparatus of this disclosure may apply to a second case. In this embodiment, a case constructed to protect the primary case of a small electronic device may be similarly configured to receive a switching device. Such cases which are sometime manufactured by 3rd party providers generally serve to protect the finish of the primary case and/or provide additional impact protection for the electrical components of the small electronic devices.

[000123] In practicing the method of the disclosure, there are three basic embodiments regarding the source of magnetic force used. In one embodiment, the switching device may include a magnet and the case may include an unmagnetized ferromagnetic or ferrimagnetic

material. In a second embodiment, the switching device may have only an unmagnetized ferromagnetic or ferrimagnetic material and the magnet may be in or on the case. In the third embodiment, both the switching device and the case may include a magnet.

[000124] When a magnet or a ferromagnetic or ferrimagnetic material is applied to a case, in one embodiment, it may be adhered using a tacky adhesive. One such embodiment includes using double sided gaffer's tape as the source of the tacky adhesive. Any tacky adhesive can be used with the method of the application.

[000125] In one embodiment, the switching device of the application may be used as a source of advertising. For example, in one embodiment of the application, a switching device may have imprinted upon it a logo, trademark, slogan, or the like. In another embodiment, a pre-printed substrate having a logo or decorative side, and optionally, a second adhesive side may be used. In some of these embodiments where the substrate includes an adhesive, it may be used to secure a magnet to the switching device. In another embodiment, the substrate having an adhesive may be free of advertisements and/or decoration.

[000126] In this application, the term diamagnetic is used to delineate materials that are not ferromagnetic or ferrimagnetic. From a practical perspective, the materials that are paramagnetic have such a weak attraction to magnets that they would not be effective if utilized and thus are to be treated as if they are diamagnetic.

[000127] While many of the switching device have a single magnet or ferromagnetic or ferrimagnetic substrate, this is not a limitation of the application. In some embodiments, it may be desirable to have multiple magnets in a switching device. In one example of a method of the application, the switching device is adhered to the top of a device having a case that closes, such as a laptop computer, with the body of the switching device rotated down when the case is closed. When the laptop is opened for use, the body can be rotated up and away from the screen.

[000128] The switching devices have a functionality of being able to active magnetic switches on devices having such switches. This is particularly useful in saving battery life as it does not require the cover of such devices to be closed (the normal mode for activation of such switches). In the use of tablet devices having a magnetic switch, the switching devices are particularly useful as the tablet can be put into hibernation mode with a single touch to the switching device as compared to the multiple touches required to do the same thing using the touch pad of the tablet.

[000129] In one embodiment where a switching device of the application is employed on a tablet using the Apple® Smart Cover, it may be employed on the outside of the smart cover to

function as a handle for more easily manipulating the cover. Magnets at the bottom of the Smart Cover allow for a very efficient employment of the switching device.

[000130] The switching device of the disclosure, when prepared with especially strong magnets, can have a dual purpose of being a game component. For example, in an embodiment where a smart phone is within a case having a recessed area configured to receive a switching device, the recessed area and the switching device may be shaped to resemble a ball or other game object. If the switching device is tossed accurately, it will be attached into the recessed area and such a toss could be a goal or score. Any such game is within the scope of the invention.

[000131] In order to make the switching device more desirable to young users, they may be converted into or incorporated into dolls or toys with the caveat that the doll or toy is configured to be attached to or perched upon an electronic device and secured thereon using a magnet. While trademarked toys and dolls, such as Angry Birds™ doll in **Fig. 3** may be used, even generic toys and dolls may be used, particularly if they will function to encourage proper maintenance of devices by, at least in some instances, young users. For example a Mini Beanie Baby™ from TY™ may be configured to sit upon a rectangular switching device wherein the switching device resembles a “rug.” In another embodiment, covers and cases for electronic devices may be configured to resemble a cage or a house and an appropriately selected figure prepared using a nonabrasive material on at least one surface and at least one magnet. The figure/ switching device could be adhered to the cover or case such that it appears to be using the cage/house. One example would be the use of a Snoopy™ shaped switching device on a case or cover having a doghouse design or shape. In another embodiment, a cartoon figure could be configured to sit upon (aka perch) upon the top of a case or cover being secured from falling by the magnet containing within the switching device.

[000132] The switching devices of the application have many advantages as compared to the conventional switching devices which are generally fixed within the covers of cases. The conventional switches often cannot be moved from side to side and usually block the view screen when employed. The switching devices of the application do not have these limitations. In fact, the switching devices of the application may be perched or attached to the front of a portable electronic device whether the device is off or on.

[000133] The switching devices of the application do not server as a cover, but this allows them to be of very low weight compared to the conventional covers/switches. Where a conventional case lacks a handle, the switching devices of the application may do double duty as a handle when the case, such as the Apple® Smart Case, is in place.

[000134] The cleaning materials that are employed in some of the embodiments of the application may be removable. For example, the cleaning devices illustrated in **Figs. 19A and 19B** may be prepared with a cleaning material that 1903 that can be removed and replaced. While in some embodiment a tacky adhesive or other adhesive may be employed for the purpose of holding the cleaning material in place, because the device includes at least one magnet, a cleaning material that has been impregnated with iron particles (such as dust of filings) may be employed so that the magnet also serves to hold the cleaning material in place. In the alternative a metal foil could be used.

[000135] An adhesive can be selected to secure the impregnated metal particles of foil in place. The adhesive, in some embodiments, can function to protect the metal particles from corrosion as well as to prevent their escape. It would be desirable that especially metal particles such as iron dust or filings be secured and not escape onto surfaces being cleaned.

[000136] Some of the cleaning devices, such as those illustrated at **Fig. 23**, have secondary uses. For example, these devices may also be prepared with a surface made out a material suitable for holding fly fishing lures and other fishhooks. Where such a secondary use has been disclosed, then such devices, with or without the cleaning material are also within the scope of the application.

What Is Claimed Is:

1. A system comprising:
a portable switching device coupled to a portable electronic device;
wherein:
 - the switching device and the electronic device are configured to selectively couple to each other employing magnetic force from a first magnet disposed within the switching device;
 - the switching device comprises a first case;
 - the electronic device comprises a second case and an electronic circuit that is responsive to the switching device;
 - the electronic device comprises at least one element selected from the group consisting of beveled edges, ridges, recessed areas, grooves, slots, indented shapes, bumps, raised shapes, and combinations thereof; configured to correspond to complimentary surface elements on the switching device;
 - the portable switching device is configured to activate, deactivate, or send into hibernation the portable electronic device;
 - the switching device plays, pauses and/or changes the volume of a remote device;
 - the electronic device includes a lid and hinge attaching the lid to the electronic device;
 - the lid is recessed to configure to the switching device; and
 - when coupled, the second case functions to protect the first case.
2. The system of Claim 1 wherein the electronic device has a first lens.
3. The system of Claim 1 wherein the switching device has a second lens.
4. The system of Claim 1 wherein the lid has a second magnet disposed within it.
5. The system of Claim 4 wherein the lid is configured to employ the second magnet to secure the lid in a closed position.

6. The system of Claim 1 wherein the switching device has a tab or knob configured to be manipulated by an external force.
7. The system of Claim 2 wherein the first case is configured to be nonabrasive to the second lens.
8. The system of Claim 3 wherein the second case is configured to be nonabrasive to the first lens.
9. The system of Claim 1 wherein the first magnet is employed in actuating the electronic circuit.
10. The system of Claim 4 wherein the second or a third magnet is employed in the lid to actuate the electronic circuit.
11. The system of Claim 1 wherein the switching device is wireless earplugs.

ABSTRACT

A lens and/or a view screen of an electronic device having at least one case can be cleaned by wiping the view screen with a cleaning component wherein the cleaning component is configured to selectively couple to the at least one case or some other substrate using a magnetic attractive force. The cleaning devices may have secondary applications such as securing fly fishing lures, activating or deactivating a device having a magnetic switch, or preventing sunglasses from sinking. They may also be manufactured without a cleaning component for use with the secondary applications.

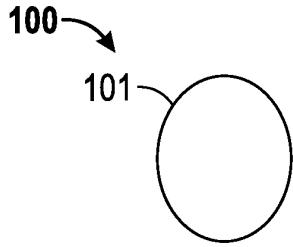


FIG. 1A

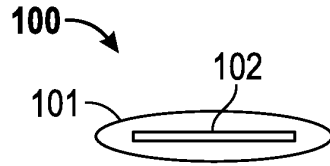


FIG. 1B

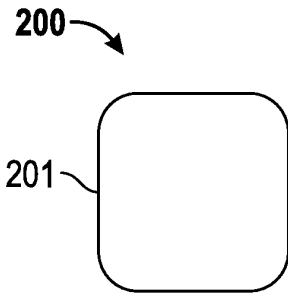


FIG. 2A

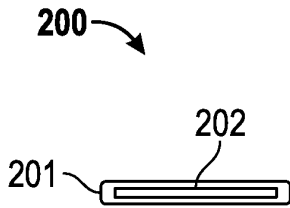


FIG. 2B

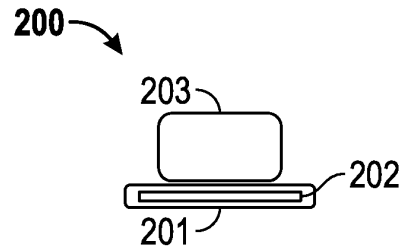


FIG. 2C

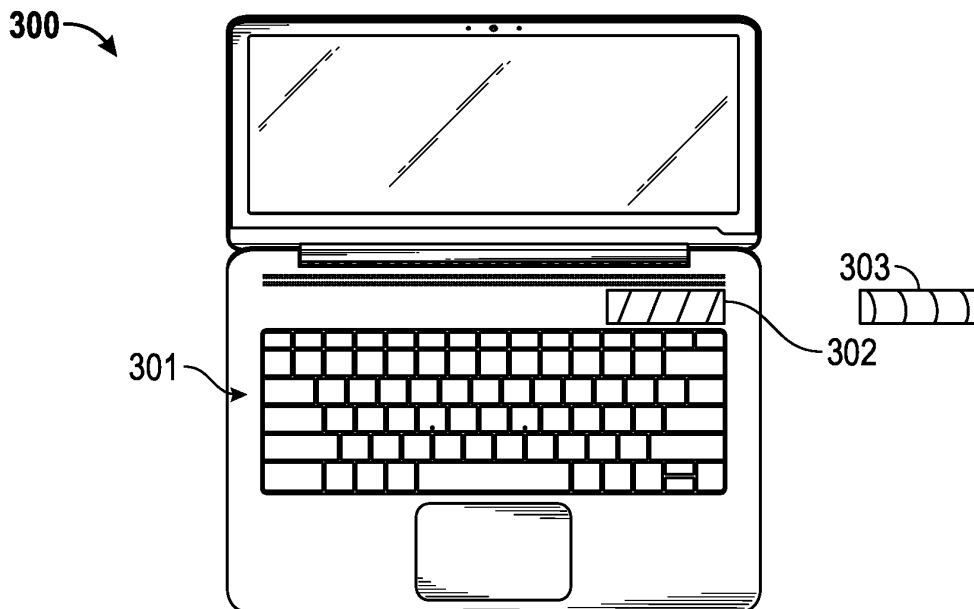


FIG. 3

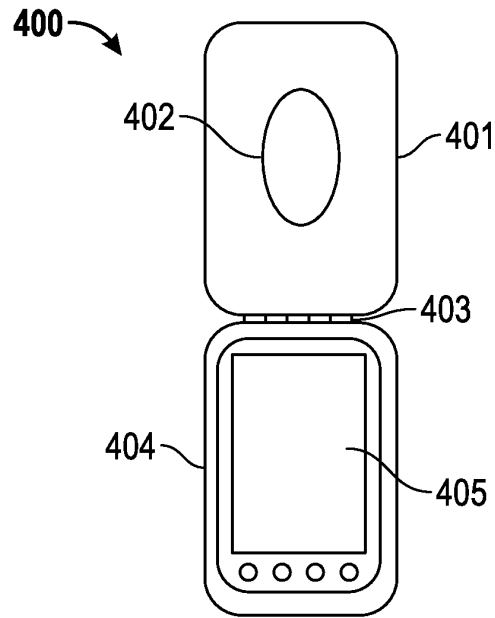


FIG. 4

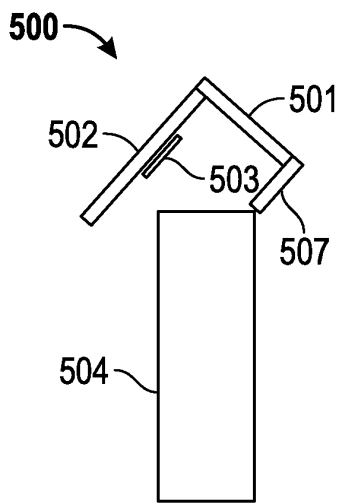


FIG. 5A

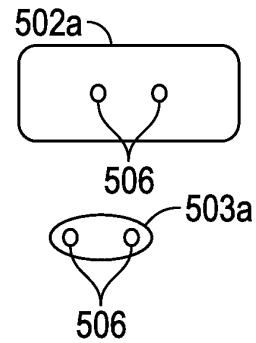


FIG. 5B

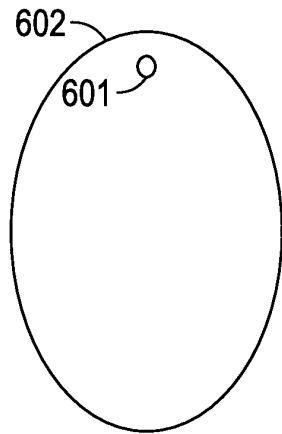


FIG. 6

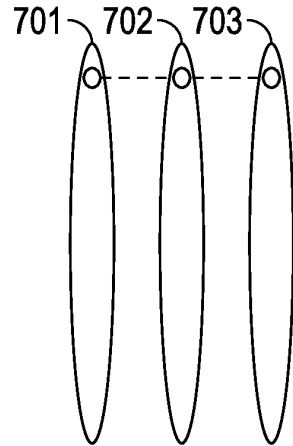


FIG. 7

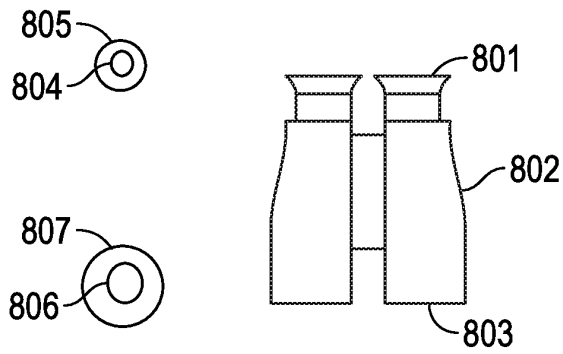


FIG. 8

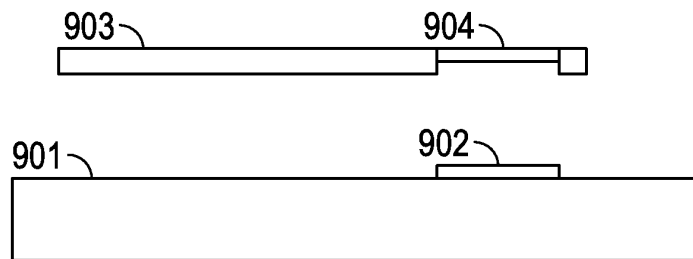


FIG. 9

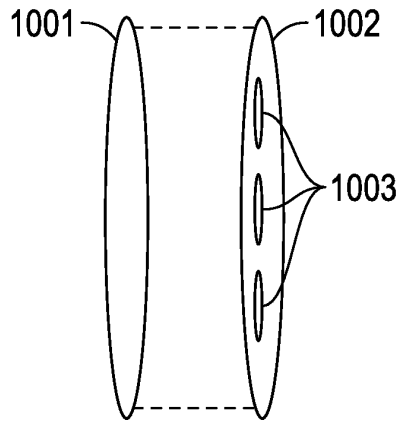


FIG. 10A

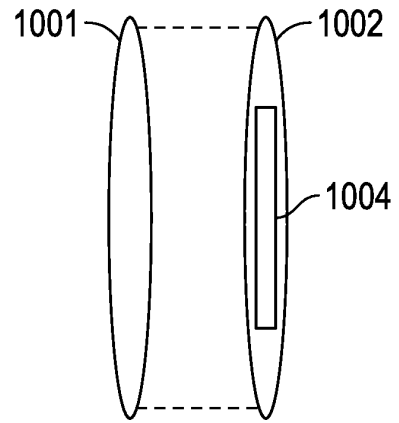


FIG. 10B

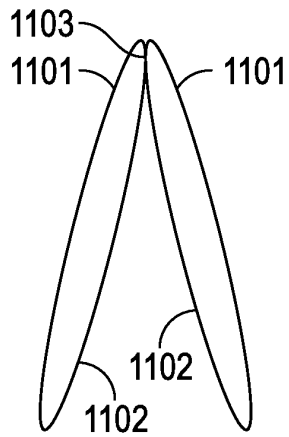


FIG. 11A

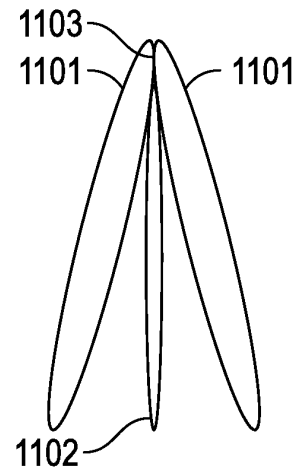


FIG. 11B

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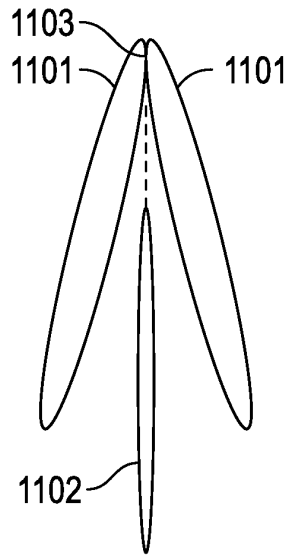


FIG. 11C

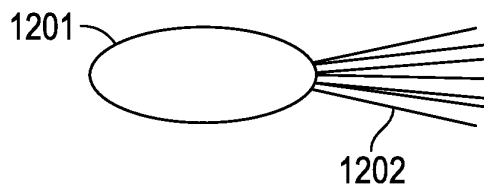


FIG. 12

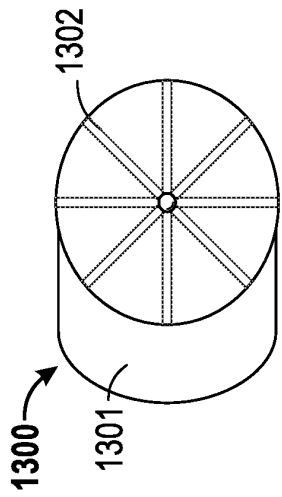


FIG. 13A

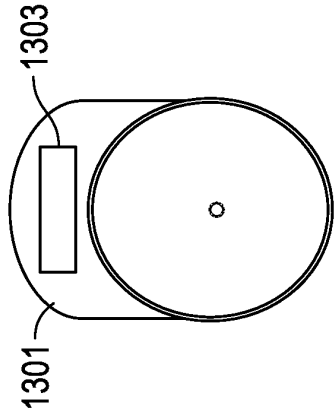


FIG. 13B

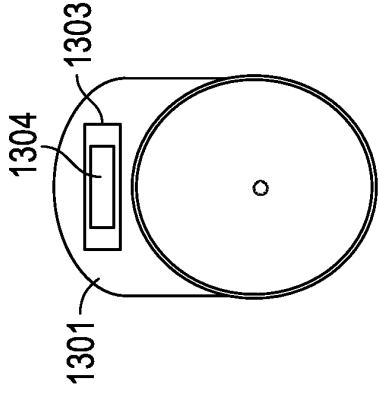


FIG. 13C

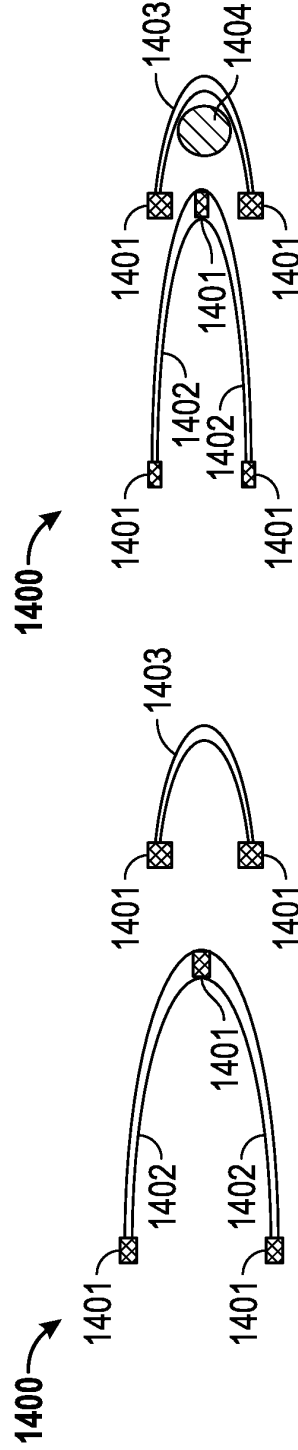


FIG. 14A

FIG. 14B

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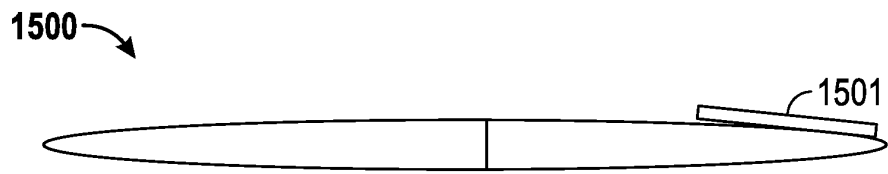


FIG. 15

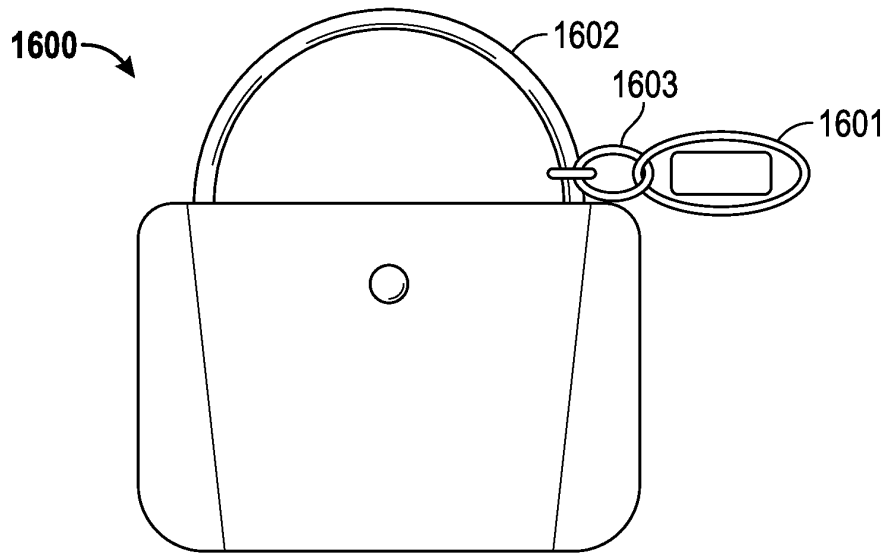


FIG. 16A

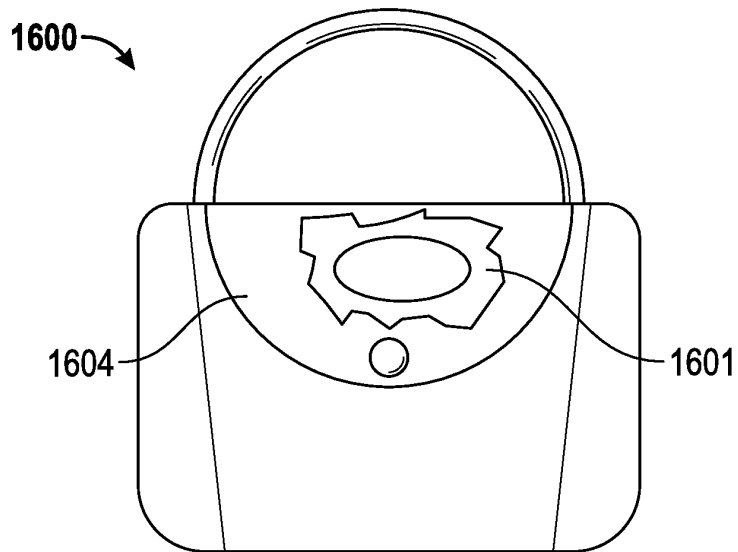


FIG. 16B

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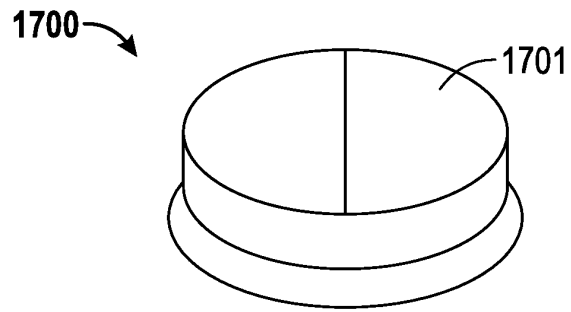


FIG. 17A

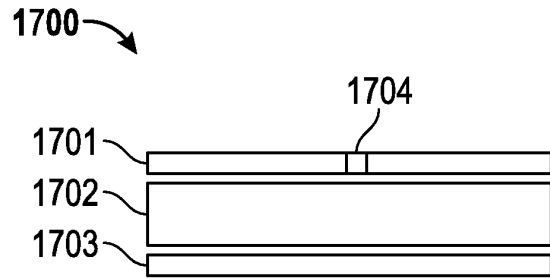


FIG. 17B

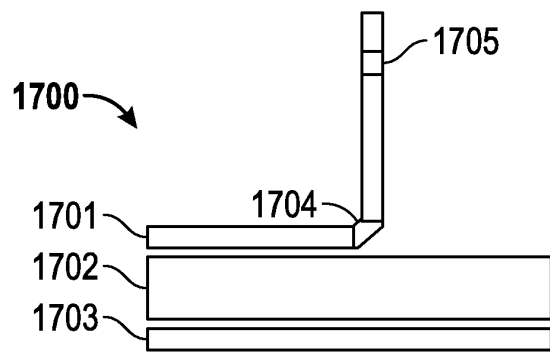


FIG. 17C

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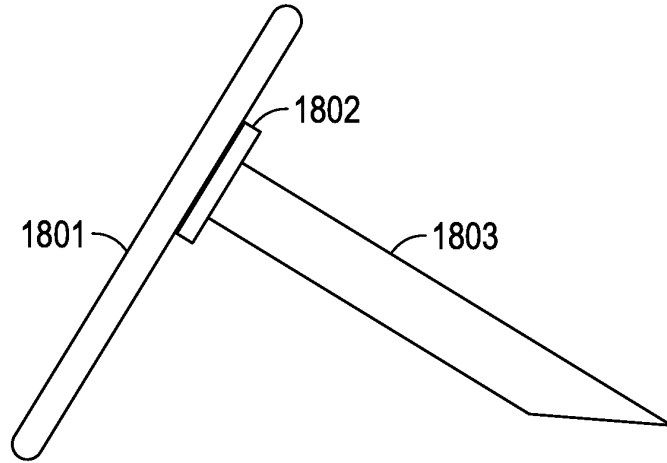


FIG. 18

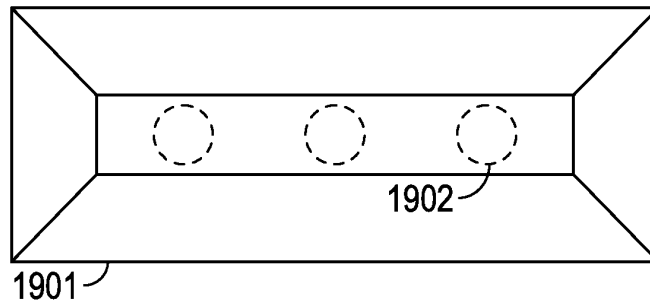


FIG. 19A

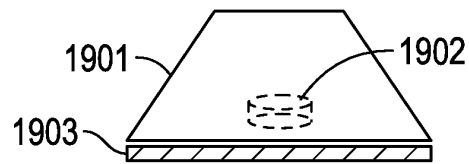


FIG. 19B

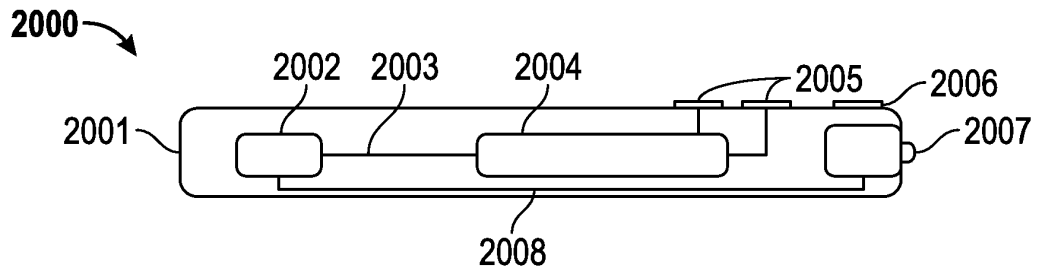


FIG. 20

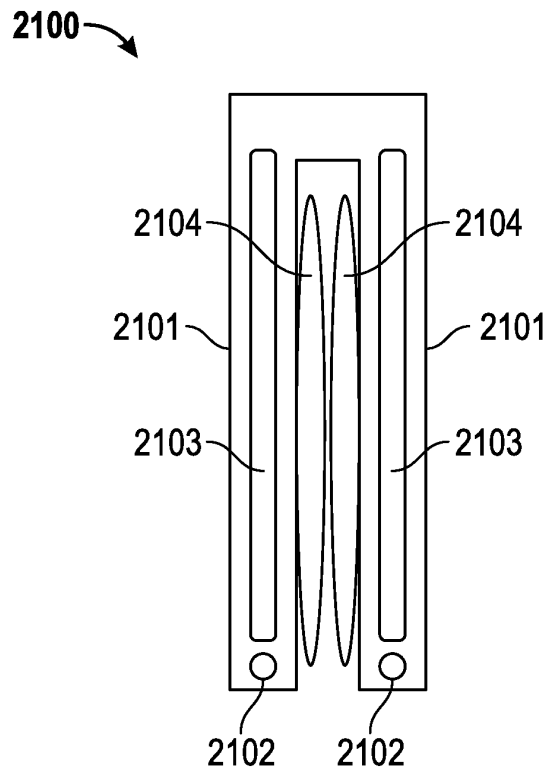


FIG. 21

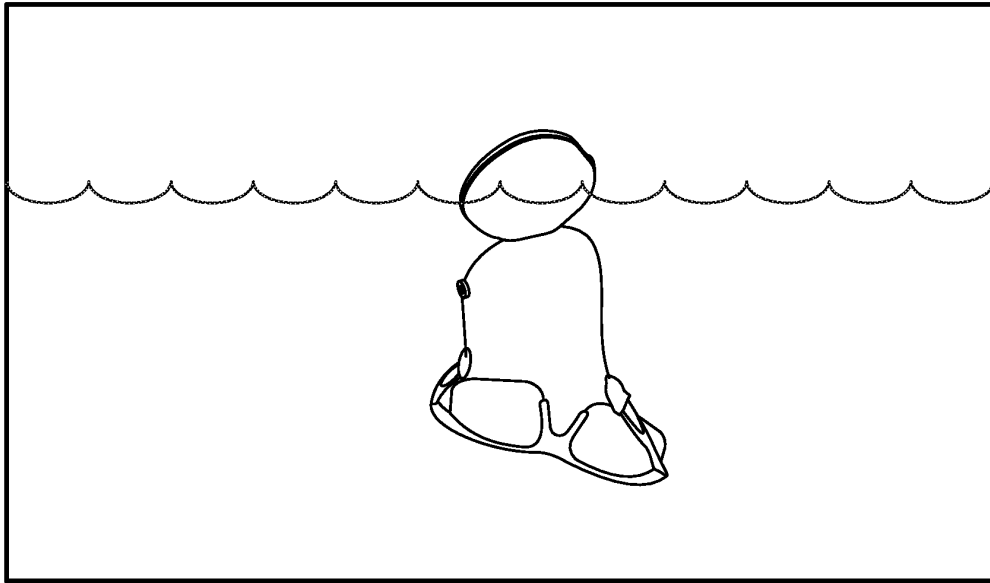


FIG. 22

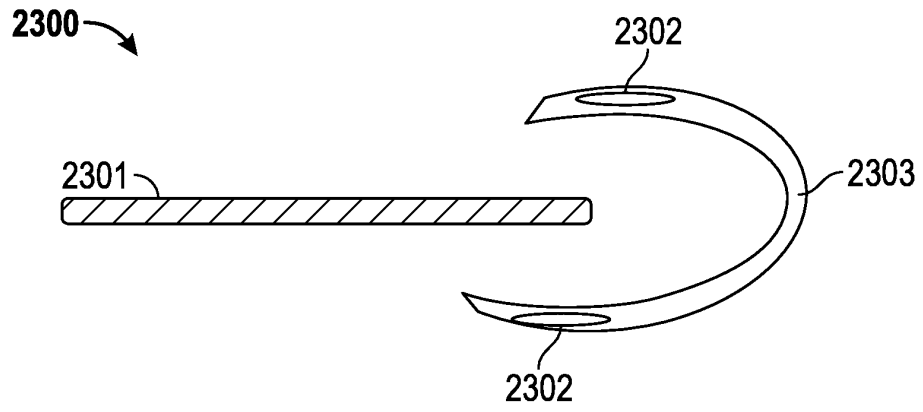


FIG. 23

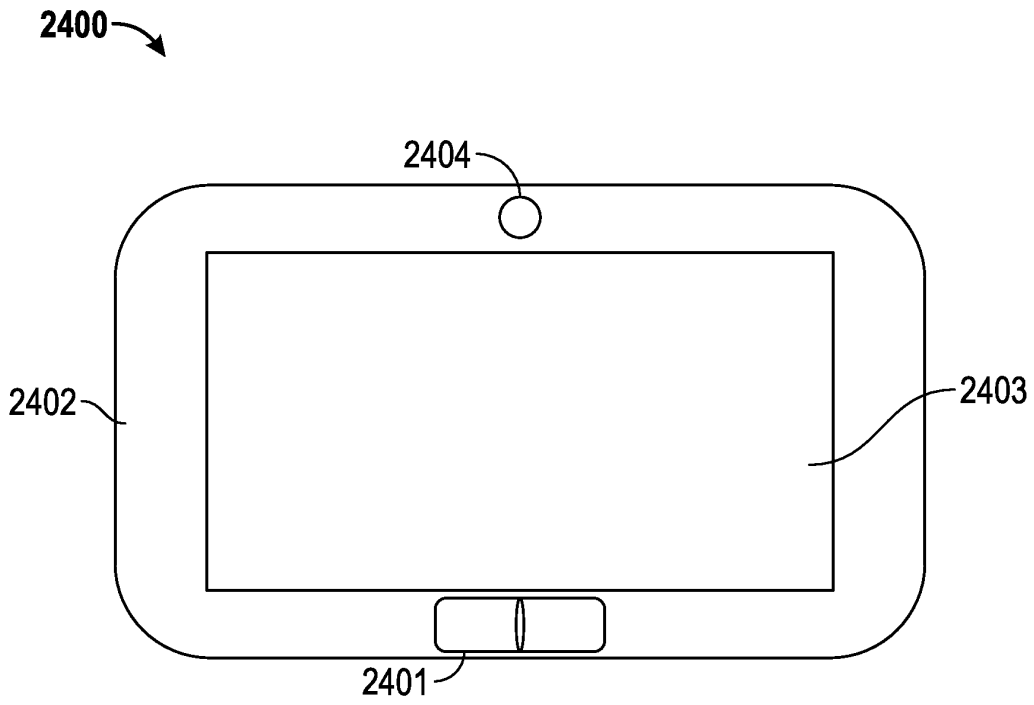


FIG. 24

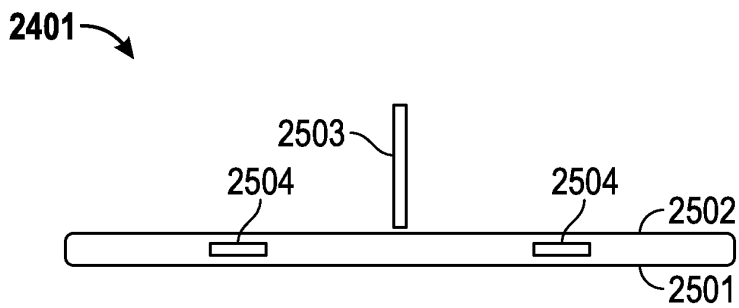


FIG. 25

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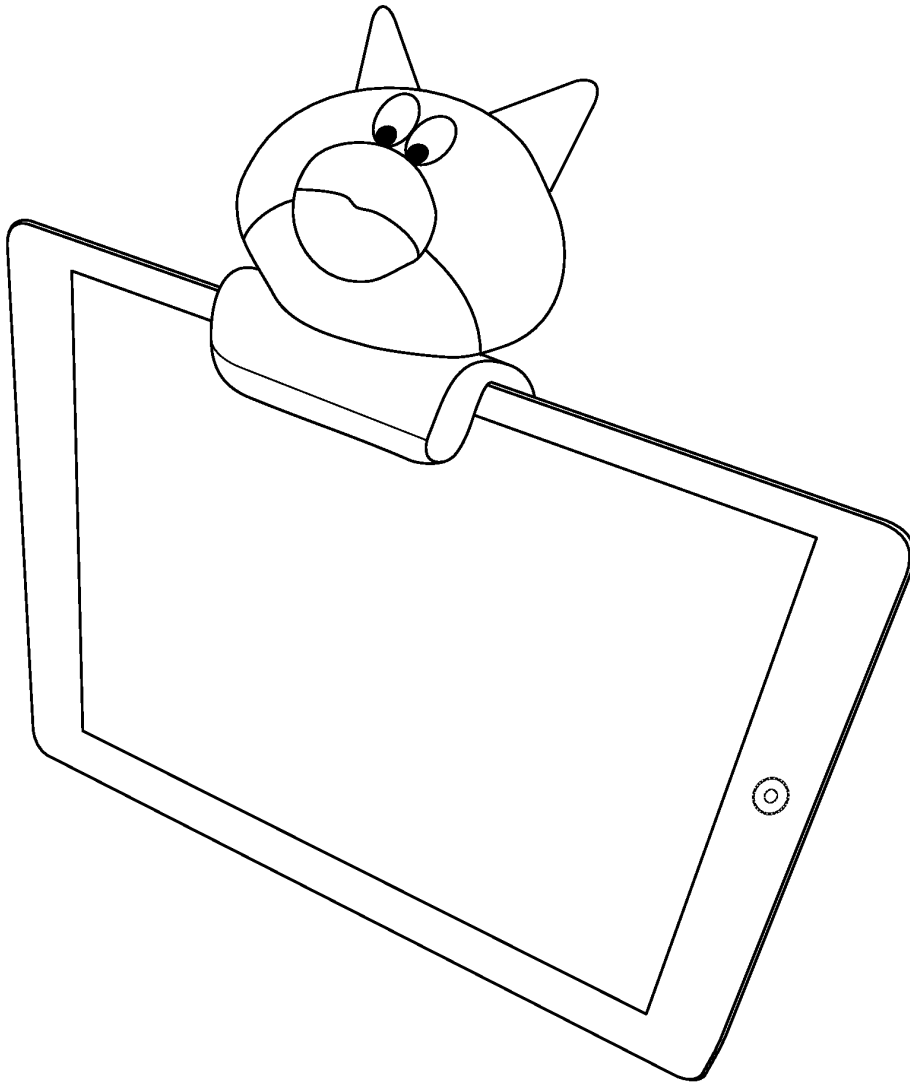


FIG. 26

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE			
First Named Inventor/Applicant Name:	Walter G. Mayfield			
Filer:	Gene Tyler/Margaret Pruitt-Johns			
Attorney Docket Number:	MAYG-1001-WO-US7			
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	300	300
UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
Pages:				
Claims:				
Miscellaneous-Filing:				
LATE FILING FEE FOR OATH OR DECLARATION	1051	1	160	160
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1880

Electronic Acknowledgement Receipt

EFS ID:	36484540
Application Number:	16460770
International Application Number:	
Confirmation Number:	9783
Title of Invention:	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE
First Named Inventor/Applicant Name:	Walter G. Mayfield
Customer Number:	87627
Filer:	Gene Tyler/Margaret Pruitt-Johns
Filer Authorized By:	Gene Tyler
Attorney Docket Number:	MAYG-1001-WO-US7
Receipt Date:	02-JUL-2019
Filing Date:	
Time Stamp:	18:14:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$1880
RAM confirmation Number	070319INTEFSW18150500
Deposit Account	504920
Authorized User	Margaret Pruitt-Johns

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	Application Data Sheet	MAYG_1001WOUSC7_ADS_pto.pdf	1819812 4843ae22172c2862e8ea5a99064a37b12a16b1aa	no	8

Warnings:

Information:

2		MAYG_1001WOUSC7_ContinuationApp_pto.pdf	258142 b52772790fe07c3364080c6f98afded4b1802e8e	yes	32
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Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	29
Claims	30	31
Abstract	32	32

Warnings:

Information:

3	Drawings-only black and white line drawings	MAYG_1001WOUSC7_Formals_pto.pdf	313005 1ee13175d5f4b7d467ceb18e3e51897231d38824	no	13
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Warnings:

Information:

4	Fee Worksheet (SB06)	fee-info.pdf	36582 e1cedc205a82d8cf686fd6bdf63c21c911925658	no	2
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Warnings:

Information:

Total Files Size (in bytes): 2427541

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.

PETITION TO MAKE SPECIAL BASED ON AGE FOR ADVANCEMENT OF EXAMINATION UNDER 37 CFR 1.102(c)(1)					
Application Information					
Application Number	16460770	Confirmation Number	9783	Filing Date	2019-07-02
Attorney Docket Number (optional)	MAYG-1001-WO-USC7	Art Unit		Examiner	
First Named Inventor	Walter G. Mayfield				
Title of Invention	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE				
<p>Attention: Office of Petitions An application may be made special for advancement of examination upon filing of a petition showing that the applicant is 65 years of age, or more. No fee is required with such a petition. See 37 CFR 1.102(c)(1) and MPEP 708.02 (IV).</p> <p>APPLICANT HEREBY PETITIONS TO MAKE SPECIAL FOR ADVANCEMENT OF EXAMINATION IN THIS APPLICATION UNDER 37 CFR 1.102(c)(1) and MPEP 708.02 (IV) ON THE BASIS OF THE APPLICANT'S AGE.</p> <p>A grantable petition requires one of the following items: (1) Statement by one named inventor in the application that he/she is 65 years of age, or more; or (2) Certification by a registered attorney/agent having evidence such as a birth certificate, passport, driver's license, etc. showing one named inventor in the application is 65 years of age, or more.</p>					
Name of Inventor who is 65 years of age, or older					
Given Name	Middle Name	Family Name	Suffix		
Daniel	M.	VALDEZ			
<p>A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the format of the signature.</p> <p>Select (1) or (2) :</p>					
<p><input type="radio"/> (1) I am an inventor in this application and I am 65 years of age, or more.</p> <p><input checked="" type="radio"/> (2) I am an attorney or agent registered to practice before the Patent and Trademark Office, and I certify that I am in possession of evidence, and will retain such in the application file record, showing that the inventor listed above is 65 years of age, or more.</p>					
Signature	/Gene L. Tyler/		Date (YYYY-MM-DD)	2019-07-02	
Name	Gene L. Tyler		Registration Number	35395	

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt

EFS ID:	36484734
Application Number:	16460770
International Application Number:	
Confirmation Number:	9783
Title of Invention:	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE
First Named Inventor/Applicant Name:	Walter G. Mayfield
Customer Number:	87627
Filer:	Gene Tyler/Margaret Pruitt-Johns
Filer Authorized By:	Gene Tyler
Attorney Docket Number:	MAYG-1001-WO-USC7
Receipt Date:	02-JUL-2019
Filing Date:	
Time Stamp:	18:28:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition to make special based on Age/ Health	MAYG_1001WOUSC7_Petition MakeSpecial_pto.pdf	71580 ded8b834885a1544b53fc454dabe7902787 2d33d	no	2

Warnings:

Information:	
Total Files Size (in bytes):	71580
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	