UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 10,589,320 B1 Page 1 of 1

APPLICATION NO. : 16/698223
DATED : March 17, 2020
INVENTOR(S) : Mayfield et al.

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

Claim 1, Column 22, Line 5, delete "complimentary" and substitute therefor --complementary--

1

Signed and Sealed this

Twenty-first Day of July, 2020 Andrei Jana

Andrei Iancu

Director of the United States Patent and Trademark Office

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: US Patent No. 10,589,320 Mayfield et al. Issued: March 17, 2020

88888 Application No. 16/698,223 Examiner: Anthony M. Haughton

Filed: November 27, 2019 Confirmation No.: 3628

For: SYSTEM COMPRISING A Attorney Docket No.: MAYG-1001-USC9

§ § § § PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC

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

DEVICE

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 error in the aboveidentified patent set forth on the attached form PTO/SB/44. The error appears in the Claims and is a clerical error of a minor character on the part of the Applicants. It is certified that the error 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-USC9).

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

Approved for use through 01/31/2020. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION	
Pa	ge <u>1</u> of <u>1</u>
PATENT NO. : 10,589,320	
APPLICATION NO.: 16/698,223	
ISSUE DATE : March 17, 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 is hereby corrected as shown below:	said Letters Patent
In the claims, at claim 1, column 22, line 5, delete "complimentary" and substitute thereforcomplementary	

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:

- 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.
- 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 Paten	t App	lication Fee	e Transmi	ittal			
Application Number:	166	16698223					
Filing Date:	27-	27-Nov-2019					
Title of Invention:		SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE					
First Named Inventor/Applicant Name:	Wa	Walter G. Mayfield					
Filer:	Ge	ne Tyler					
Attorney Docket Number:	MA	YG-1001-WO-USC)				
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:				
	Tot	al in USD	(\$)	150

Electronic Acknowledgement Receipt				
EFS ID:	39792959			
Application Number:	16698223			
International Application Number:				
Confirmation Number:	3628			
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-USC9			
Receipt Date:	22-JUN-2020			
Filing Date:	27-NOV-2019			
Time Stamp:	18:13:48			
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	E20206LI16092091
Deposit Account	
Authorized User	

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

File Listing	j:				
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.
			69526		
1	Request for Certificate of Correction	US10589320_request_for_COC. pdf	8032c867ae0ce22b32d4cf01a74219eb4de 143dc	no	2
Warnings:					
Information:					
			186756		
2	Request for Certificate of Correction	10589320_COC.pdf	925753a54a1b2548ba5f63d5e1c8e473624 e8421	no	2
Warnings:		i———•			
Information:					
			30307		
3	Fee Worksheet (SB06)	fee-info.pdf	c6b329500f5aa03fc1261aeaf0bb21edb5d5 5bf8	no	2
Warnings:		<u> </u>	<u> </u>		
Information:					
		Total Files Size (in bytes):	28	36589	

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



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APPLICATION NUMBER 16/698,223

FILING OR 371(C) DATE

FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

MAYG-1001-WO-USC9

11/27/2019

Walter G. Mayfield

CONFIRMATION NO. 3628

PUBLICATION NOTICE

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



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

Publication No.US-2020-0094291-A1 Publication Date:03/26/2020

NOTICE OF PUBLICATION OF APPLICATION

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

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

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

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

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

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

page 1 of 1

United States Patent and Trademark Office



LINITED 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

ISSUE DATE PATENT NO ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. 16/698,223 03/17/2020 10589320 MAYG-1001-WO-USC9 3628

87627 7590 02/26/2020

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 <u>SelectUSA.gov</u>.

IR103 (Rev. 10/09)

PART R - FEE(S) TRANSMITTAL

Complete and send	this form together		b), by mail or fax, or v				
By mail, send to:	Mail Stop ISSUE Commissioner for P.O. Box 1450 Alexandria, Virgin	FEE Patents	y, of man or tan, or t	ALDEO WOO!		By fax, send to	o: (571)-273-2885
further correspondence i	including the Patent, adva	ince orders and notificatio		be mailed to the cu	rrent corresp	ondence address as	eted where appropriate. All s indicated unless corrected mance fee notifications.
CURRENT CORRESPOND	DENCE ADDRESS (Note: Use B	lock 1 for any change of address)	Fee pap	(s) Transmittal. Th	is certificate il paper, suc	e cannot be used fo ch as an assignmen	domestic mailings of the or any other accompanying it or formal drawing, must
87627 Mossman, Kur P.O. Box 42123 Houston, TX 77	mar & Tyler PC 19	9/2020	Sta add	ereby certify that the tes Postal Service values ressed to the Mail	nis Fee(s) Tr with sufficie Stop ISSUE	nt postage for first FEE address above	nission deposited with the United class mail in an envelope ve, or being transmitted to 3-2885, on the date below.
,			M	argaret A. Pru	itt-Johns	***************************************	(Typed or printed name)
				argaret A. Pru	************		(Signature)
			Ja	muary 31, 202	0	***************************************	(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	3	ATTORNE	Y DOCKET NO.	CONFIRMATION NO.
16/698,223	11/27/2019	***************************************	Walter G. Mayfield		MAYG-10	001-WO-USC9	3628
TITLE OF INVENTION	N: SYSTEM COMPRISE	NG A PORTABLE SWIT	CHING DEVICE FOR U	SE WITH A PORT	ABLE ELE	CTRONIC DEVIC	TE.
	y		·p······	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	JE FEE TO	OTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00		\$1000	04/29/2020
EXAN	MINER	ART UNIT	CLASS-SUBCLASS	1			
HAUGHTON, AN	THONY MICHAEL	2835	361-679020	~å			
1. Change of correspond	lence address or indicatio	n of "Fee Address" (37	2. For printing on the	patent front page. I	st		
CFR 1.363). Change of corresp	oondence address (or Cha		(1) The names of up t or agents OR, alternati (2) The name of a sing	o 3 registered paterively,	nt attorneys	Mossman,	, Kumar & Tyler, PC
Address form PTO/S "Fee Address" inc SB/47; Rev 03-09 or	dication (or "Fee Address more recent) attached. U	" Indication form PTO/ se of a Customer	registered attorney or 2 registered patent atto- listed, no name will be	agent) and the nan orneys or agents. If	ies of up to	3	
Number is required	, c	********************************	COTTO DA DESARON		*********	******************************	***************************************
			THE PATENT (print or ty	• /	dentified hel	low the document	must have been previously
recorded, or filed for	recordation, as set forth	in 37 CFR 3.11 and 37 CF	FR 3.81(a). Completion of	this form is NOT	a substitute f	for filing an assigni	ment.
(A) NAME OF ASSI	GNEE		(B) RESIDENCE: (CITY	Y and STATE OR (COUNTRY)	l	
GUI GLOBAL	PRODUCTS, LTD	,	Но	uston, Texas			
Please check the appropr	riate assignee category of	r categories (will not be pr	rinted on the patent): 🔲 I	ndividual 🔀 Corpe	oration or of	her private group e	ntity 🖵 Government
4a. Fees submitted:	***************************************	olication Fee (if required)	······		***************************************		
		previously paid fee show		or copies			
Electronic Payme			Non-electronic payment by	y credit card (Attac	h form PTO-	-2038)	
The Director is he	ereby authorized to charg	e the required fee(s), any	deficiency, or credit any o	verpayment to Dep	osit Accoun	t No. 50-4920	
CANCERRECTARIOS CONTRACTOR CONTRAC		***************************************	***************************************		***************	***************************************	***************************************
5. Change in Entity Sta	atus (from status indicate	ed above)					
	ng micro entity status. Se						/SB/15A and 15B), issue application abandonment.
Applicant asserting	ng small entity status. See	37 CFR 1.27	NOTE: If the application to be a notification of los	ı was previously un	der micro er	ntity status, checking	
Applicant changing	ng to regular undiscounte	d fee status.	NOTE: Checking this bo	x will be taken to b			lement to small or micro
			entity status, as applicable. 3. See 37 CFR 1.4 for sign	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and certific	ations	***************************************
***************************************	, /Gene L. Tyler/	marca of Sept. (1.71 ABS 11.3)	on one of the N C+100 SIGH	1	nuary 31,	*******************	
				DateJai			
Typed or printed new	Gene L. Tyler			Registration 1	_{να} 35	,395	

Electronic Patent A	App	lication Fee	Transmit	tal		
Application Number:	16	598223				
Filing Date:	27-	27-Nov-2019				
Title of Invention:		STEM COMPRISING A		ITCHING DEVICE F	FOR USE WITH A	
First Named Inventor/Applicant Name:	Walter G. Mayfield					
Filer:	Gene Tyler/Margaret Pruitt-Johns					
Attorney Docket Number:	MA	YG-1001-WO-USC9				
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:						

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
UTILITY APPL ISSUE FEE	1501	1	1000	1000
Extension-of-Time:				
Miscellaneous:				
	Tot	al in USD	(\$)	1000

Electronic Acknowledgement Receipt				
EFS ID:	38456717			
Application Number:	16698223			
International Application Number:				
Confirmation Number:	3628			
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-USC9			
Receipt Date:	31-JAN-2020			
Filing Date:	27-NOV-2019			
Time Stamp:	12:03:35			
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	E20201UC08114218
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	_	
			182710			
1	Issue Fee Payment (PTO-85B)	MAYG_1001WOUSC9_IssueFee _pto.pdf	ef606ef6e83efdcc3333576458fcf0f7cf5a9cf2 d	no	1	
Warnings:				•		
Information:						
			32160			
2	Fee Worksheet (SB06)	fee-info.pdf	b1c7ea3dace5e05e2dead31696cedbd071e 014fb	no	2	
Warnings:						
Information:						
		Total Files Size (in bytes)	2	14870		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

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

HAUGHTON, ANTHONY MICHAEL

ART UNIT PAPER NUMBER

2835

DATE MAILED: 01/29/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/698,223	11/27/2019	Walter G. Mayfield	MAYG-1001-WO-USC9	3628

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	04/29/2020

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.

Page 1 of 3

PART B - FEE(S) TRANSMITTAL

Complete and send	this form, together v	with applicable fee(s), by mail or fax, or v	ia EFS-Web.		
By mail, send to:	mail, send to: Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450				By fax, send t	o: (571)-273-2885
further correspondence	including the Patent, adva	nce orders and notification	n of maintenance fees will b	e mailed to the currer		leted where appropriate. All s indicated unless corrected enance fee notifications.
87627	DENCE ADDRESS (Note: Use BI 7590 01/29 mar & Tyler PC		Fee(pap have I he Stat	s) Transmittal. This of ers. Each additional p e its own certificate of Certif reby certify that this es Postal Service with	certificate cannot be used for aper, such as an assignment in mailing or transmission. Free(s) Transmittal is being a sufficient postage for firs	
Houston, TX 77	7242				or by facsimile to (571) 27	3-2885, on the date below.
			<u> </u>			(Typed or printed name)
						(Signature) (Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	. A	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/698,223	11/27/2019	•	Walter G. Mayfield	N	MAYG-1001-WO-USC9	3628
TITLE OF INVENTION	N: SYSTEM COMPRISI	NG A PORTABLE SWIT	CHING DEVICE FOR US	E WITH A PORTAE	BLE ELECTRONIC DEVI	CE
APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE I	FEE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	04/29/2020
nonprovisional	CNDISCOUNTED	\$1000	ψυ.υυ	ψ0.00	Ψ1000	04/2/12020
EYAN	MINER	ART UNIT	CLASS-SUBCLASS	1		
	THONY MICHAEL		361-679020	l		
		2835				
CFR 1.363). Change of correst Address form PTO/S "Fee Address" ind	dication (or "Fee Address more recent) attached. Us	nge of Correspondence "Indication form PTO/	2. For printing on the p (1) The names of up to or agents OR, alternation (2) The name of a singular registered attorney or a 2 registered patent attollisted, no name will be	o 3 registered patent a vely, le firm (having as a m agent) and the names rneys or agents. If no	1 nember a of up to 2	
		A TO BE PRINTED ON T	THE PATENT (print or typ	pe)		
PLEASE NOTE: Unl recorded, or filed for (A) NAME OF ASSI	recordation, as set forth i	ed below, no assignee dat n 37 CFR 3.11 and 37 CF	a will appear on the patent. FR 3.81(a). Completion of (B) RESIDENCE: (CITY	this form is NOT a su	bstitute for filing an assign	must have been previously ment.
					ion or other private group e	entity 🖵 Government
4a. Fees submitted:4b. Method of Payment:Electronic Payme	(Please first reapply any			-		
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5. Change in Entity Sta Applicant certifyi Applicant assertir	atus (from status indicate ng micro entity status. Se ng small entity status. See ng to regular undiscounte	ed above) e 37 CFR 1.29 37 CFR 1.27	NOTE: Absent a valid ce fee payment in the micro NOTE: If the application to be a notification of los:	rtification of Micro E entity amount will no was previously under s of entitlement to mic will be taken to be a	ntity Status (see forms PTC it be accepted at the risk of micro entity status, checki	application abandonment. ng this box will be taken
NOTE: This form must	be signed in accordance v	vith 37 CFR 1.31 and 1.33	3. See 37 CFR 1.4 for signs	nture requirements an	d certifications.	
Authorized Signature				Date		
Typed or printed nan	ne			Registration No.		

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/698,223	11/27/2019	Walter G. Mayfield	MAYG-1001-WO-USC9	3628
87627 75	90 01/29/2020		EXAM	IINER
Mossman, Kumar	r & Tyler PC		HAUGHTON, ANT	THONY MICHAEL
P.O. Box 421239			i na vivia	DADED MARDED
Houston, TX 77242	2		ART UNIT	PAPER NUMBER
			2835	
			DATE MAILED: 01/29/202	0

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:

- 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.

Application No. Applicant(s) 16/698,223 Mayfield et al.			
Notice of Allowability	Examiner ANTHONY M HAUGHTON	Art Unit 2835	AIA (FITF) Status Yes
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS (nerewith (or previously mailed), a Notice of Allowance (PTOL-85) (NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this or other appropriate communical GHTS. This application is subjec	application. If notion will be mailed	t included d in due course. THIS
1. This communication is responsive to the claims filed on 11/2 A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was/			
2. An election was made by the applicant in response to a rest restriction requirement and election have been incorporated		ng the interview o	on; the
3. ✓ The allowed claim(s) is/are 1-13. As a result of the allowed Highway program at a participating intellectual property offinhttp://www.uspto.gov/patents/init_events/pph/index.jsp	ce for the corresponding applica	tion. For more inf	formation, please see
4. Acknowledgment is made of a claim for foreign priority unde	er 35 U.S.C. § 119(a)-(d) or (f).		
Certified copies:			
a) ☐All b) ☐ Some *c) ☐ None of the:			
 Certified copies of the priority documents have Certified copies of the priority documents have 		o	
3. Copies of the certified copies of the priority do	cuments have been received in	this national stag	e application from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying w	ith the requirements
5. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.		
including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in th	e Office action of	·
Identifying indicia such as the application number (see 37 CFR 1, sheet. Replacement sheet(s) should be labeled as such in the heat			it (not the back) of each
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of B attached Examiner's comment regarding REQUIREMENT F			
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. 🗌 Examiner's Am	endment/Comme	ent
2. Information Disclosure Statements (PTO/SB/08),	6. 🗹 Examiner's Sta	tement of Reaso	ns for Allowance
Paper No./Mail Date 3. Examiner's Comment Regarding Requirement for Deposit	7. Other		
of Biological Material 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date	_		
/ANTHONY M HAUGHTON/			
Primary Examiner, Art Unit 2835			

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-13)

Notice of Allowability

Part of Paper No./Mail Date 20200121

Application/Control Number: 16/698,223 Page 2

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; 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; wherein the second case is decoupled from the first case by overcoming magnetic force the portable switching device is configured to activate, deactivate, or send into hibernation the portable electronic device; the electronic device plays or pauses a remote device; the switching device includes a lid and hinge attaching the lid to the switching device; the lid is recessed to configure to the electronic device; and when coupled, the first case functions to protect the second case in combination with all other elements of the 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."

Application/Control Number: 16/698,223

Art Unit: 2835

Conclusion

Page 3

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 https://ppair-

my.uspto.gov/pair/PrivatePair. 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

23

	Notice of References Cited			Application/ 16/698,223	Control No.	Applicant(s)/Patent Under Reexamination Mayfield et al.		
		Notice of neterence.	s Cheu		Examiner Art Unit 2835		Page 1 of 1	
				U.S. P.	ATENT DOCU	MENTS		
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY		Nam	e	CPC Classification	US Classification
*	Α	US-20050107131-A1	05-2005	Abramo			H04M1/0258	455/569.1
*	В	US-20050284904-A1	12-2005	Knapp,	Christopher J.		A45F5/02	224/269
*	С	US-20060238281-A1	10-2006	Steinbei	rg; Dan A.		H01H36/0013	335/207
*	D	US-20080103637-A1	05-2008	Bliven; F	Robert P.		F16B2/20	701/1
*	Е	US-20080244847-A1	10-2008	Richter;	Harald		A47L25/00	15/105
*	F	US-20090078478-A1	03-2009	Newmai	n; Jonathan		G06F3/03545	178/19.01
*	G	US-20100011524-A1	01-2010	Roebac	k; Gerald Oliv	er	B08B1/00	15/105
*	Н	US-20110192857-A1	08-2011	Rothbau	ım; Wayne Ph	nilip	B25F1/00	220/694
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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

Notice of References Cited

Part of Paper No. 20200121

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	16/698,223	Mayfield et al.
	Examiner	Art Unit
	ANTHONY M HAUGHTON	2835

CPC					
Symbol			Туре	Version	
B08B	/ 1	<i>I</i> 006	F	2013-01-01	
A45C	/ 11	/ 00	1	2013-01-01	
G06F	1	/ 32	I	2013-01-01	
B08B	/ 11	7 04	I	2013-01-01	
H04M	1	21	I	2013-01-01	
B08B	1	/ 002	I	2013-01-01	
H04M	1	7 0266	А	2013-01-01	
H04B	/ 1	3816	А	2013-01-01	

CPC Combination Sets				
Symbol	Туре	Set	Ranking	Version

NONE		Total Claims	s Allowed:
(Assistant Examiner)	(Date)	13	3
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	21 January 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office Part of Paper No.: 20200121

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	16/698,223	Mayfield et al.
	Examiner	Art Unit
	ANTHONY M HAUGHTON	2835

INTERNATIONAL CLASSIFICATION			
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NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE		Total Claims	s Allowed:
(Assistant Examiner)	(Date)	13	3
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	21 January 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office Part of Paper No.: 20200121

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	16/698,223	Mayfield et al.
	Examiner	Art Unit
	ANTHONY M HAUGHTON	2835

>	Claims r	enumb	ered in t	the sar	ne orde	r as pre	esented	by app	licant	□ C	PA (T.D	. 🗆	R.1.47	•
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NONE		Total Claims	s Allowed:
(Assistant Examiner)	(Date)	13	3
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	21 January 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office Part of Paper No.: 20200121



Application/Control No.	Applicant(s)/Patent Under Reexamination
16/698,223	Mayfield et al.
Examiner	Art Unit
ANTHONY M HAUGHTON	2835

CPC - Searched*						
Symbol	Date	Examiner				
g06f1/32,16,1601,1603,1605,1607,1609,1611	01/21/2020	AMH				
B08B1/002,006	01/21/2020	AMH				

CPC Combination Sets - Searched*				
Symbol	Date	Examiner		

US Classification - Searched*					
Class	Subclass	Date	Examiner		
361	679.01,679.02,679.21-679.3	01/21/2020	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)	01/21/2020	АМН			
INVENTOR SEARCH	01/21/2020	АМН			
CLASSIFICATION SEARCH IN COMBINATION WITH TEXT SEARCH	01/21/2020	AMH			
IP.COM SEARCH	01/21/2020	АМН			

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Search Notes	16/698,223	Mayfield et al.
	Examiner	Art Unit
	ANTHONY M HAUGHTON	2835

Interference Search						
US Class/CPC Symbol	Date	Examiner				
	PG-PUB CLAIM TEXT SEARCH	01/21/2020	АМН			
361	679.01,679.02,679.21-679.25	01/21/2020	АМН			
G06F1	32,16,1601,1607	01/21/2020	AMH			
B08B1	002,006	01/21/2020	АМН			

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	

Bibliographic Data

16/698,223 Application No: O Yes No Foreign Priority claimed: Yes **✓** No ☐ Met After Allowance 35 USC 119 (a-d) conditions met: Verified and Acknowledged: /ANTHONY M HAUGHTON/ Examiner's Signature Initials SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR Title: USE WITH A PORTABLE ELECTRONIC DEVICE

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/27/2019	361	2835	MAYG-1001-WO-USC9
RULE			

APPLICANTS

GUI GLOBAL PRODUCTS, LTD., Houston, TX,

INVENTORS

Walter G. Mayfield Houston, TX, UNITED STATES

Daniel Martin Valdez Kingwood, TX, UNITED STATES

CONTINUING DATA

This application is a CON of 16502935 07/03/2019 PAT 10493496

16502935 is a CON of 16460770 07/02/2019

16460770 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

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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

IF REQUIRED, FOREIGN LICENSE GRANTED**

12/17/2019

STATE OR COUNTRY

UNITED STATES

ADDRESS

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

FILING FEE RECEIVED

\$1,880

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	(("8300389") or ("20080062625") or ("20100039764")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:16
L2	9106	g06f1/1632.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:20
L3	1236	g06f1/1692.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:21
S1	1	"9635530".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:36
S2	1	"9870030".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:36
S3	2	S1 S2	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:36
S4	267	haughton.xa.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:40
S5	1363	haughton.xp.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:40
S6	1630	S4 S5	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:40
S7	988	g06f1/1669.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:40
S8	25	S6 and S7	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:40
S9	415	S7 and (laptop or (lap near top))	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:42

S10	219	S7 and (laptop or (lap near top))	USPAT	OR	OFF	2019/12/05 00:43
S11	1	"9632530".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 00:51
S12	4772	349/58.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 01:38
S13	23117	345/173.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 01:39
S14	15281	g06f1/20-206.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 01:43
S15	14127	g06f1/18-189.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 01:43
S16	203	S6 and S14	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 01:43
S17	248	S6 and S15	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 01:43
S18	1	"10372167".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 02:19
S19	1	"10095274".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 02:25
S20	1	"20040246666"	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 02:27
S21	3631	g06f1/187.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 02:55
S22	98	S6 and S21	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 02:55
S23	1	"10228734".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 03:08
S24	2	"20080278856"	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/05 03:14

S25	4	("20150169006" "20160370828" "20160164852"	US-	OR	OFF	2019/12/09
		"20160370828" "20160195901").PN.	PGPUB; USPAT; USOCR			09:00
S26	2	"20160370828"	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 09:01
S27	5	S25 S26	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 09:01
S28	2	"20180164852"	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 09:01
S29	7	S27 S28	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 09:01
S30	218	((("LARGE") near3 ("Timothy")) OR (("GHIONI") near3 ("Lincoln")) OR (("BABU") near3 ("Sarat")) OR (("LONGBOTTOM") near3 ("Matthew")) OR (("CARTER") near3 ("Duncan"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/09 09:07
S31	161	(("20190173041") or ("10143080") or ("9823693") or ("9560751") or ("20160065920") or ("20180052486") or ("20170238412") or ("20160037625") or ("10289163") or ("10201089") or ("20190305237") or ("20170235341") or ("7349203") or ("20150378391") or ("9971382") or ("9848494") or ("20180004252") or ("20170034918") or ("20180054897") or ("20160266672") or ("7136280") or ("6819550") or ("7773371") or ("20170060188") or ("10495941") or ("20180062094") or ("20190207130") or ("20160266758") or ("20190207130") or ("20180062094") or ("20180219165") or ("20180062094") or ("20180219165") or ("20180097199") or ("20170075464") or ("10418572") or ("20170162821") or ("10121988") or ("20160179229") or ("20170371465") or ("20170287385") or ("9756737") or ("9983714") or ("20160327987") or ("20170160769") or ("20160327987") or ("20170160769") or ("20160181345") or ("20150041048") or ("20160181345") or ("9874904") or ("20160039685") or ("9490312") or ("7209344") or ("20160093685") or ("9490312") or ("7209344") or ("20160093685") or ("918009713") or ("201600333659") or ("20170323934") or ("20160033364") or ("20170323934") or ("20160093644") or ("20160240602") or ("20160093644") or ("20170194411") or ("20160093644")	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 09:08

		("7046509") or ("10229963") or ("20160172623") or ("9349758") or ("20180062090") or ("9627463") or ("D487893") or ("7142415") or ("D489370") or ("9935281") or ("9379355") or ("20060176655") or ("20170179423") or ("20170179215") or ("20170263890") or ("20170179215") or ("20130279088") or ("20190296259") or ("20070046594") or ("20110018785") or ("20160099433") or ("20110018785") or ("20160099433") or ("D486486") or ("7289315") or ("9910458") or ("7042714") or ("20180092166") or ("8724304") or ("20170290106") or ("9698375") or ("20130169515") or ("20160048169") or ("20170301267") or ("20160048169") or ("20170192460") or ("10199445") or ("10154562") or ("9274559") or ("10199445") or ("101319265") or ("6755533") or ("201700315575") or ("20170062485") or ("20180076236") or ("9706607") or ("20160181346") or ("6710754") or ("20110121151") or ("20130081756") or ("20110121151") or ("9759420") or ("9780157") or ("9684339") or ("20190152129") or ("10304869") or ("10281956") or ("20190152129") or ("10304869") or ("10281956") or ("20160035759") or ("20160181572") or ("20160035759") or ("20160181572") or ("10245776")).PN.				
S32	1559	g06f1/182.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:31
S33	14173	g06f1/18-189.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:31
S34	1062	g11b33/14,022.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:32
S35	1744	h05k5/069,026,006,0047,0043,0039,0034.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:33
S36	11330	G06F1/169,1698,16847,1643,1662.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:39
S37	34285	G06F3/03547,044.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:39
S38	3747	H05K5/0226,0239,03.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:39
S39	13718	G06F1/169,1698,1684,1643,1662.CPC.	US-	OR	OFF	2019/12/09

			PGPUB; USPAT; USOCR			11:41
S40	3050	((("CHANG") near3 ("Ching")) OR (("MCKITTRICK") near3 ("Allen"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/09 11:41
S41	18	(("20110151780") or ("20170317709") or ("20160006488") or ("9231673") or ("20190369674") or ("20180210508") or ("10429901") or ("6967280") or ("20040105411") or ("7580395") or ("20170179996") or ("9692478") or ("20180210515") or ("20180210514") or ("20170310002") or ("10198044") or ("20190288388") or ("10156871")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 11:45
S42	9	("20020080297" "20140092532" "20140146452" "20150241916" "20150316090" "20160266619" "6744622" "8066308" "9461390").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:29
S43	31883	G06F1/1626,1656,1601,1633,1637,1656,163.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:33
S44	214	((("LARSEN") near3 ("Denica")) OR (("HO") near3 ("Wing"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/09 12:34
S45	268	3/// / / /	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/09 12:34
S46	0	g06f1/1626,1635,1658,1633	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:52
S47	16483	g06f1/1626,1635,1658,1633.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:52
S48	7826	361/679.21-679.3,679.55,679.56.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:52
S49	10564	455/575.1-575.9.COLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:53
S50	5977	349/56-60. CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 12:53
S51	1	("20170003716").PN.	US- PGPUB; USPAT;	OR	OFF	2019/12/09 12:56

	***************************************		USOCR			
S52	11	(("20190025880") or ("20100044553") or ("20100044815") or ("20130177302") or ("20180321571") or ("20140176779") or ("8684613") or ("10018891") or ("20180126704") or ("20190158641") or ("20190144332")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:00
S53	12	S51 S52	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:13
S54	12	S53 and camera	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:13
S55	11	S53 and (glass)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S56	10	S53 and (cover near2 glass)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S57	10	S53 and (cover\$3 near2 glass)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S58	11	S54 and S55	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S59	10	S54 and S56	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S60	10	S54 and S57	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S61	11	S58 S59 S60	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S62	1	S61 and (curv\$4 near2 display\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:14
S63	1	S61 and planarizat\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:16
S64	3	S61 and wavelength	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:18
S65	2	S61 and (refract\$3 near3 index)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:19

loss	310	No. 4 cos	36.10	100	10	1001011212
S66	3	S64 S65	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:19
S67	5	S61 and (glass near4 (coat\$3 or cur\$3 or polymer))	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:26
S68	4	S61 and (glass near3 (coat\$3 or cur\$3 or polymer))	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:26
S69	5	S67 S68	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:27
S70	17161	g06f1/1626,1643,1605.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:32
S71	17656	g06f3/0412.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:32
S72	209	S70 and planarizat\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:32
S73	1309	S71 and planarizat\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:32
S74	260	S73 and camera	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:33
S75	118	S72 and camera	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:33
S76	22	S74 and (cover near2 glass)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:33
S77	25	S75 and (cover near2 glass)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:33
S78	38	S76 S77	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:33
S79	7	S78 and (planarizat\$3 near3 material\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 13:33
S80	31	S78 not S79	US- PGPUB; USPAT;	OR	OFF	2019/12/09 13:37

			USOCR	***************************************		
S81	7	(US-20160370828-\$ or US-20190205596-\$ or US-20120242635-\$ or US-20110267298-\$ or US-20130177302-\$ or US-20180126704-\$).did. or (US-9632530-\$).did.	US- PGPUB; USPAT	OR	OFF	2019/12/09 14:07
S82	1	S81 and polishing	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:07
S83	2	S81 and curv\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:08
S84	51	S53 S54 S55 S56 S57 S58 S59 S60 S61 S62 S63 S64 S65 S66 S67 S68 S69 S76 S77 S78 S79 S80 S81 S82 S83	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:10
S85	2	S84 and (curv\$3 near display)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:11
S86	22595	G06F1/1626,1605,1613,1637,1643,1686.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:19
S87	17656	G06F3/0412.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:19
S88	13803	G06F1/1626.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:20
S89	602	S88 AND (COVER NEAR GLASS)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:20
S90	0	S89 AND (curved near dispay)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:20
S91	0	S88 AND (curved near dispay)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:20
S92	24	S89 AND (curved near display)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:21
S93	1	"20180126704"	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/09 14:30
S103	9044	g06f1/1632.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 20:54
S104	6987	h02j50/80.cpc.	US-	OR	OFF	2019/12/10

			PGPUB; USPAT; USOCR			20:55
S105	755	S104 and (dock\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 20:58
S106	755	S104 and (dock\$4)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 20:58
S107	719	S106 and (tablet or computer or ((notebook or portable or laptop or (lap near top) near computer) or laptop or (lap near top)))	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 20:58
S108	564	S107 and (charg\$3 near2 (wireless or (wire near less)))	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 20:59
S109	544	S108 and (ports or (input\$1 and output\$1) or peripheral\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:00
S110	0	S109 and (high near speeed)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:01
S111	204	S109 and (high near speed)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:01
S112	225	("20170070076") or ("9608475") or	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:02

("10256666") or ("10461581") or ("10122184") or	
("20180069423") or ("20130057078") or	
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("20140021909") or ("9793744") or	
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or ("20140266021") or ("20170201123") or	
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or ("20160241086") or ("20140242911") or	
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or ("10003880") or ("9692487") or	
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or ("10212506") or ("10397683") or	
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or ("20190165619") or ("20190289382") or	
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("9961431") or ("20170094381") or	
("20160181849") or ("9883276") or	
("20170094398") or ("20190289383") or	
("10333355") or ("9559754") or ("20180090998")	
or ("9379780") or ("10361591") or ("9413175") or	
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		("10003881") or ("20170094393") or ("8527688") or ("20170094395") or ("20190044388")).PN.		***************************************		
S113	186	S112 not S111	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:02
S114	6	(("20180107253") or ("20140021909") or ("20140036437") or ("20170090516") or ("20170063102") or ("20160320867")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:28
S115	1	"20170090516"	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:31
S116	71	("20070217135" "20130039000" "20130329360" "6612668" "6643124" "7471506" "9124105" "201002717771" "20040057204" "20060250764" "6421235" "6593859" "6707666" "6944012" "20070101039" "20090295328" "8593804" "20060056143" "6256192" "20090179501" "20140133080" "7916467" "20050168937" "20140273590" "5719799" "6093039" "6430038" "200800258679" "200800304688" "20100081473" "20120113576" "20150036275" "20140098485" "20140177162" "20140185220" "20140312202" "5317691" "5793606" "6654234" "20070035917" "20140355190" "20150198980" "20010022719" "7061472" "8995121" "9223344" "20110210617" "8688037" "20090141439" "20140334086" "20140347802" "9535456" "20140334086" "20140347802" "9535456" "20060013411" "20170060186" "5030128" "5175672" "6781823" "6989987" "7667959" "20100014235" "20120188687" "7667959" "20100014235" "20120188687" "20130170126" "7643283" "9041347").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:32
S117	43	S116 and wireless	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:33
S118	28	S116 not S117	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:39
S119	14	("6856506" "6952343" "5455466" "5864708" "5434964" "D321179" "20060159158" "20040233930" "7052296" "D322063" "20040145342" "20050047055" "20050083012" "7054145").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:46
S120	120	("4734874" "5127050" "5142446" "5209583" "5227953" "5237663" "5245169" "5283714" "5375226" "5430567" "5465038" "5493542" "5546211" "5559501" "5561446" "5598539" "5600471" "5617236" "5628055" "5632020" "5668566" "5668977" "5675524" "5682379" "5687717" "5699226" "5701302" "5724168" "5794164").PN. OR ("5864708").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 21:56
S121	94	S120 and wireless	US- PGPUB; USPAT;	OR	OFF	2019/12/10 21:59

			USOCR			
S122	26	S120 not S121	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:00
S123	2	"20180098366"	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:30
S124	27	("20020119800" "20040092249" "20110131358" "20110136550" "20130084800" "20130175986" "20130210347" "20130219098" "20130288600" "20130324035" "20140059263" "20140152235" "20140349578" "20150006395" "20150318898" "20160150354" "20160285299" "7825625" "8254992" "8255720" "8805456" "8825118" "8947042" "9020436" "9496925" "9627913" "9755437").PN. OR ("10039147").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:31
S125	27	("20020119800" "20040092249" "20110131358" "20110136550" "20130084800" "20130175986" "20130210347" "20130219098" "20130288600" "20130324035" "20140059263" "20140152235" "20140349578" "20150006395" "20150318898" "20160150354" "20160285299" "7825625" "8254992" "8255720" "8805456" "8825118" "8947042" "9020436" "9496925" "9627913" "9755437").PN. OR ("10039147").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:47
S126	1	"20180323636"	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:51
S127	1	"20180358826"	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:53
S128	8	("20120299966" "20090096413" "20130063873" "20130113421" "9531206" "10037057" "20060238164" "20130063084").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:54
S129	120	("4734874" "5127050" "5142446" "5209583" "5227953" "5237663" "5245169" "5283714" "5375226" "5430567" "5465038" "5493542" "5546211" "5559501" "5561446" "5598539" "5600471" "5617236" "5628055" "5632020" "5668566" "5668977" "5675524" "5682379" "5687717" "5699226" "5701302" "5724168" "5794164").PN. OR ("5864708").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:57
S130	71	"20100271771" "20040057204" "20060250764"	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:59

		"5793606" "6654234" "20070035917" "20140355190" "20150198980" "20010022719" "7061472" "8995121" "9223344" "20110210617" "8688037" "20090141439" "20140334086" "20140347802" "9535456" "20030128505" "20100277856" "20150277491" "6006243" "7349201" "8199476" "8937803" "20060013411" "20170060186" "5030128" "5175672" "6781823" "6989987" "7667959" "20100014235" "20120188687" "20130170126" "7643283" "9041347").PN.				
S131	14	("6856506" "6952343" "5455466" "5864708" "5434964" "D321179" "20060159158" "20040233930" "7052296" "D322063" "20040145342" "20050047055" "20050083012" "7054145").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:59
S132	120	("4734874" "5127050" "5142446" "5209583" "5227953" "5237663" "5245169" "5283714" "5375226" "5430567" "5465038" "5493542" "5546211" "5559501" "5561446" "5598539" "5600471" "5617236" "5628055" "5632020" "5668566" "5668977" "5675524" "5682379" "5687717" "5699226" "5701302" "5724168" "5794164").PN. OR ("5864708").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:59
S133	27	("20020119800" "20040092249" "20110131358" "20110136550" "20130084800" "20130175986" "20130210347" "20130219098" "20130288600" "20130324035" "20140059263" "20140152235" "20140349578" "20150006395" "20150318898" "20160150354" "20160285299" "7825625" "8254992" "8255720" "8805456" "8825118" "8947042" "9020436" "9496925" "9627913" "9755437").PN. OR ("10039147").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:59
S134	231	S133 S132 S131 S130 S130	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 22:59
S135	39	(US-20160370828-\$ or US-20190205596-\$ or US-20120242635-\$ or US-20110267298-\$ or US-20130177302-\$ or US-20180126704-\$ or US-20150362333-\$ or US-20140145515-\$ or US-20160141884-\$ or US-20160001663-\$ or US-20130281155-\$ or US-20130236192-\$ or US-20170063102-\$ or US-20170090516-\$ or US-20180107253-\$ or US-20140021909-\$ or US-20180107253-\$ or US-20100014235-\$ or US-20180107253-\$ or US-20100014235-\$ or US-2018010756-\$ or US-20100014235-\$ or US-20170060186-\$ or US-20070035917-\$ or US-20170060186-\$ or US-20050168937-\$ or US-201800258679-\$ or US-20180358826-\$ or US-20180013687-\$ or US-20180109148-\$).did. or (US-20180098366-\$ or US-20180109148-\$).did. or (US-20180098366-\$ or US-20140152235-\$ or US-20140059263-\$ or US-20130175986-\$).did. or (US-9632530-\$ or US-6593859-\$ or US-5864708-\$ or US-5793606-\$ or US-9442526-\$ or US-9107027-\$ or US-9436220-\$ or US-6151645-\$ or US-10039147-\$).did.	US- PGPUB; USPAT	OR	OFF	2019/12/10 22:59
S136	4340288	S135 and high speed	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 23:03
S137	12	S135 and (high near speed)		OR	OFF	2019/12/10

			PGPUB; USPAT; USOCR			23:03
S138	10	(("20180107253") or ("20140021909") or ("20140036437") or ("20170090516") or ("20170063102") or ("20160320867") or ("20130236192") or ("20170090516") or ("20080258679") or ("20070035917") or ("5864708")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 23:10
S139	8	S138 AND CONTROL\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 23:16
S140	4	(("5864708") or ("20140059263") or ("20170063102") or ("20170090516")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/10 23:24
S141	8	("20130287622" "20150220109" "20160058375" "20160116941" "20160139702" "20160274621" "20160287102" "6553667").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:11
S142	8	("20130287622" "6553667" "6553667" "20150220109" "20160058375" "20160116941" "20160287102" "20160274621" "20160139702" "20150220109" "20130287622").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:12
S143	8	S141 S142	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:12
S144	8	(("20180103902") or ("9861314") or ("20170042477") or ("20110186347") or ("5163499") or ("20130196169") or ("5526867") or ("4120930")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:13
S145	6	S143 and ceramic	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:13
S146	7	S144 and ceramic	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:13
S147	13	S145 S146	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:14
S148	3	S147 and (filler near3 ink\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:53
S149	3	S147 and (filler\$3 near3 ink\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:53
S150	0	S143 and (filler\$3 near3 ink\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:53
S151	3	S144 and (filler\$3 near3 ink\$3)	US-	OR	OFF	2019/12/11

			PGPUB; USPAT; USOCR			00:54
S152	8	S147 and (sticker or glue or tape)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 00:54
S153	8010	g06f1/163.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:22
S154	2490	S153 and ring	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:22
S155	44	S154 and filler	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:22
S156	3	S154 and (filler\$1 near3 ink\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:22
S157	3	S154 and (filler\$1 with ink\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:23
S158	9	S153 and (filler\$1 with ink\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:23
S159	3	S153 and (filler\$1 near3 ink\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:23
S160	1074	S154 and (sticker or tape or glue or adhesive)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:24
S161	37	S155 and (sticker or tape or glue or adhesive)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:24
S162	25	S154 and ((sticker or tape or glue or adhesive) near3 (electronic\$1))	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:25
S163	34	S161 not S162	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:28
S164	11	S147 and (sticker or tape or glue or adhesive)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:38
S165	4	S153 and (filler\$1 with color\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:42

<u> </u>		No.50	1110			Noncorre
S166	3	S153 and (filler\$1 near3 ink\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:43
S167	15603	A61b5/6801,01,681,6826.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:44
S168	3	S167 and (filler\$1 near3 ink\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:44
S169	25	S167 and (filler\$1 with color\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:44
S170	29	S167 and (filler\$1 with color\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:45
S171	5	S170 and ink\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:45
S172	1495	S167 and ink\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:45
S173	42	S172 and (filler\$1 and color\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 01:46
S174	4	(("20110101185") or ("20110228504") or ("20180130389") or ("8384616")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 14:01
S175	0	g06f9/33.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 14:12
S176	2539	g09f9/33.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 14:12
S177	2230	S176 and display\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 14:12
S178	1237	S176 and ((multiple or plurality) near3 display\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 14:12
S179	237	g09f9/3023.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/11 14:24
S180	9	("20050193930" "20090296321" "20140160636" "20150116911" "20160042896" "20160156163" "20160233651" "20160242315"	US- PGPUB; USPAT;	OR	OFF	2019/12/23 00:51

		"6149254").PN.	USOCR			
S181	15	("20030168433" "20050193930" "20090296321" "20120218067" "20130137358" "20140097734" "20140118887" "20140160636" "20150116911" "20150372463" "20160042896" "20160156163" "20160233651" "20160242315" "6149254").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 00:54
S182	15	S180 S181	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 00:54
S183	4965	h05k7/1498,1461,16,18,142,1417,14.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:35
S184	13545	361/679.01,679.02,724-727,679.33-679.39.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:36
S185	299	(((("CHEN") near3 ("Chao-Jung")) OR (("LIU") near3 ("Kun-Pei"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/23 11:36
S186	1	("20190098794").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:37
S187	1412	(("20190098794") or ("10250447") or ("9699933") or ("10146295") or ("20150256406") or ("9423854") or ("20150257302") or ("20160334860") or ("20150253821") or ("2958178") or ("20150257311") or ("2958178") or ("20150253829") or ("9430010") or ("20150253829") or ("10122585") or ("20150256386") or ("10122585") or ("20150256409") or ("20150256394") or ("20150256396") or ("20150256396") or ("20150256399") or ("20150256390") or ("20150256390") or ("20150256390") or ("20150256390") or ("20150253028") or ("10142822") or ("20150253029") or ("20180322376") or ("20070250410") or ("10187773") or ("10038992") or ("10049240") or ("10140820") or ("9894471") or ("20130027204") or ("8779922") or ("9911290") or ("20170215038") or ("20170213057") or ("20190262204") or ("20140253289") or ("9888337") or ("20140320288") or ("9888337") or ("20140320288") or ("20150325089") or ("20170315950") or ("10169965") or ("8264354") or ("20170315950") or ("10169965") or ("8264354") or ("20130150028") or ("20180024598") or ("9864417") or ("20140220175") or ("20160129960") or ("20140253093") or ("9786153") or ("20160240067") or ("20180096585") or ("9711046") or ("20180096585") or ("9711046") or ("20180096585") or ("9711046") or ("20180017997") or ("10510219") or	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23

	("20150074749") or ("20020111819") or			1
Cr (20190332838) or (2019030956) or (201903095) or (2019030956) or (20170116103) or (2019030956) or (20170116103) or (2019030956) or (20170116103) or (20190300956) or (20170116103) or (2019030956) or (20170116103) or (2019030956) or (20170116103) or (2019030046339) or (2019030956) or (20170116103) or (2019030046339) or (2019030956) or (2011011116196) or (2019030956) or (20110116196) or (2019030966) or (20110116196) or (2019030966) or (2011016196) or (2019030966) or (2011016196) or (2019030966) or (2019030966) or (2014007780) or (2019030966) or (2014007780) or (2019030966) or (2014007780) or (201903066) or (201903068) or (2014007784) or (201903068) or (2014007784) or (201903068) or (201903096) or (201903096) or (2019030996) or (201903096) or (20190306) or (20190306) or (20190306) or (20190306) or (2		11111		
("20190309560") or ("2016021834") or ("20190302764") or ("2010003749") or ("20190302764") or ("2010007498") or ("201000351") or ("20100007498") or ("201302221") or ("20190003236") or ("201302221") or ("20190003236") or ("201302221") or ("20190003236") or ("201302221") or ("20190003236") or ("2017017010") or ("2018072") or ("201307018769") or ("201872") or ("20130030565") or ("201900339") or ("201900309562") or ("20190339") or ("201900309562") or ("20190339") or ("201900339") or ("201900339") or ("20190234832") or ("20190339") or ("20190234832") or ("20100000452") or ("2014003399") or ("2019023805") or ("20100000452") or ("2014003399") or ("2019023815") or ("20100000452") or ("201400277807") or ("2017029870") or ("201402277807") or ("2017029870") or ("20120046982") or ("2014003839") or ("20190234159") or ("20120046982") or ("301109885") or ("20190234159") or ("2018036482") or ("20140036399") or ("301803687") or ("2018036482") or ("2018036482") or ("2018036482") or ("2018036482") or ("2018036482") or ("2018036982") or ("301803698") or ("3018026		***************************************		
"9337565" or ("20190309561") or ("773320") or ("20190302764") or ("20180024305") or ("201503942") or ("20190007498") or ("20130222117") or ("20190003236") or ("20130222117") or ("20190003236") or ("7386626") or ("719422") or ("10318789") or ("7398626") or ("20190303562") or ("3742897") or ("20190303562") or ("201903046339") or ("20190234832") or ("201903046339") or ("20190234832") or ("20190378104") or ("20190182009") or ("20110131268") or ("20190384382") or ("20110131268") or ("8594385") or ("201100060452") or ("8393952") or ("20140078092") or ("20140078092") or ("20140078092") or ("20140078092") or ("20140078092") or ("2014007807") or ("20140078092") or ("20140077807") or ("20140078087") or ("20140078087") or ("2014008845") or ("20190234159") or ("20120046882") or ("20140277784") or ("10226045882") or ("20140277784") or ("20120046882") or ("2017008037") or ("93540529") or ("20150309921") or ("20180133388")).PNL or (("8249910") or ("20170008739") or ("8393026") or ("2019039247") or ("20150309921") or ("20150309990") or ("2015030990")		***************************************		
"20190302764") or ("201008024306") or ("10503942") or ("3410935") or ("20100007498") or ("20130022117") or ("20100007498") or ("2013022217") or ("2013003056") or ("7298626") or ("7019422") or ("10318769") or ("1071942897") or ("10326596") or ("20170116103") or ("10318772") or ("20190039562") or ("20190978104") or ("2019003839") or ("201903839") or ("201903839") or ("201903839") or ("201901829339") or ("2019038104") or ("201901829332") or ("2010036452") or ("10218731289") or ("1021901829") or ("20110182189") or ("8239252") or ("20140363992") or ("10168331") or ("2014003692") or ("2014026825") or ("2017028870") or ("201402684") or ("2014003885") or ("20190234159") or ("20120046982") or ("201100884") or ("201100884") or ("10186331") or ("201400884") or ("10186037") or ("9545029") or ("20120046982") or ("3111098") or ("20120046982") or ("31109884") or ("10380007") or ("8393026") or ("1012003834") or ("10180007") or ("8393026") or ("20190393465") or ("2015039921") or ("20150399180") or ("8393026") or ("20100039924") or ("2015039931") or ("301503991") or ("2015039931") or ("301503993") or ("3015022845") or ("3015022845") or ("3015023955") or ("3015023955") or ("30150239		***************************************		
"10503942") or ("8471706") or ("20120133510") or ("341035") or ("2010007498") or ("1030007498") or ("10310222117") or ("201900003236") or ("7380826") or ("1031872") or ("1031872") or ("1031872") or ("1031872") or ("1031872") or ("1031872") or ("20190009562") or ("2019017872") or ("20190039562") or ("2019030046339") or ("20190234832") or ("201903046339") or ("20190234832") or ("20110131269") or ("8594385") or ("20110131269") or ("8594385") or ("20110036452") or ("8594385") or ("20140027807") or ("20140087807") or ("20140087807") or ("20140087807") or ("20140087807") or ("20140077807") or ("20190234159") or ("20120048882") or ("301400277784") or ("3018036482") or ("201400277784") or ("3018036482") or ("20180133583"), PN. or ("3018036482") or ("20170008739") or ("8393026") or ("30170003924") or ("20170003924") or ("20170039309") or ("20170003924") or ("20170039309") or ("20170003924") or ("2017003934") or ("2017003938") or		***************************************		
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		or ("9739763") or ("10351399") or ("20120169469") or ("20190272498") or ("20160147589") or ("20160364129") or ("10117059") or ("20080125965") or ("9530295") or ("8451120") or ("20120228243") or ("20190137988") or ("10204297") or ("20180263098") or ("20180161225") or ("20190280438") or ("20070055470") or ("7302320") or ("9543788") or ("20080084334") or ("8359248") or ("20140062730") or ("20080125964") or ("9857133") or ("20160132532") or ("20030191877") or ("9682598") or ("10154555") or ("20180131715") or ("8519566") or ("9730518") or ("20140058616") or ("6882917") or ("20190050784") or ("10284589") or ("20140196761") or ("8770140")).PN.				
S188	116	((("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	2019/12/23 11:41
S189	3	(("20190324502") or ("20170311461") or ("10045448")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:49
S190	114	(("20190324502") or ("20170311461") or ("10045448") or ("20160363960") or ("9864412") or ("9772657") or ("20160320804") or ("10162387") or ("20170329369") or ("20180235440") or ("20150366090") or ("9477267") or ("20090101405") or ("8153896") or ("20190141843") or ("20190261520") or ("4507769") or ("20060176655") or ("7289315") or ("20190339742") or ("20110042990") or ("20170280571") or ("10188002") or ("5926167") or ("6499788") or ("20190056768") or ("9603271") or ("20190387633") or ("20190098783") or ("20190387633") or ("201800225804") or ("20180011515") or ("20140197289") or ("2018011515") or ("20190087016") or ("20140197289") or ("20180160554") or ("20190087016") or ("20190087016") or ("20190374233") or ("20190087016") or ("8306575") or ("7196692") or ("20190371214") or ("20180032108") or ("20190371214") or ("20180032108") or ("20190371214") or ("20180032108") or ("20190079561") or ("20160324021") or ("4674859") or ("4426695") or ("10347160") or ("7949312") or ("20160293095") or ("20190079561") or ("20190075607") or ("20190079561") or ("20190079561") or ("36838321") or ("20130167600") or ("20140357954") or ("10400942") or ("20140357954") or ("1040343438") or ("8302925") or ("20140357954") or ("10433438") or ("781741") or ("20150116921") or ("20160216737") or ("20160179141") or ("20160374228") or ("4555173") or ("9992888") or ("20160374228") or ("20160179141") or	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23

		("20180077810") or ("20110182007") or ("20180188637") or ("9271634") or ("20090272870") or ("9836087") or ("9756757") or ("8456834") or ("20180270971") or ("20050088814") or ("20060162122") or ("20030209212") or ("20030086240") or ("4685792") or ("20150164514") or ("8052101") or ("20040228080") or ("9103349") or ("20190380218") or ("20190380218") or ("20040202316") or ("4668076") or ("20190098774") or ("20040218352") or ("7209344")).PN.				
S191	18778	G06F1/1652,1626,1613.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:50
S192	3149	G06F2203/04105.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 11:50
S193	1552	361/679.17,679.41-679.44.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:09
S194	6319	G06F1/1624,1633,1662,1667,1669,1671.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:09
S195	1132	(("20190215975") or ("8395465") or ("20130100055") or ("8665044") or ("20160226183") or ("20160226182") or ("9494980") or ("8988876") or ("8264310") or ("8390411") or ("20120068919") or ("8390412") or ("20120069503") or ("10037054") or ("1033215") or ("8289114") or ("20190064878") or ("20180012691") or ("10236106") or ("8928437") or ("20190180898") or ("20170010633") or ("201501633783") or ("2015016338") or ("20150160696") or ("20130162668") or ("20120194308") or ("20120068942") or ("20120194308") or ("20120068942") or ("20130162669") or ("20130162669") or ("2013016254") or ("8576031") or ("8143983") or ("9329630") or ("2013016254") or ("8648679") or ("9627803") or ("201400321040") or ("8648679") or ("8884730") or ("20120069540") or ("20120068798") or ("82120069540") or ("20120068798") or ("8138869") or ("20130142868") or ("8890413") or ("20120068799") or ("20170094391") or ("20120068799") or ("20120066873") or ("20120066873") or ("20120068739") or ("20120300383") or ("10003880") or ("10003881") or ("20170094397") or ("20170094398") or ("20170094399") or ("20170094398") or ("20170094399") or ("20170094398") or	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:15

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S199	4622	G06F1/1601.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:45
S200	4858	G06F3/147.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:45
S201	775	G09F9/3026.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:46
S202	429	G09F7/20.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:46
S203	5254	345/1.1,1.3,33,55.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:46
S204	2087	248/917,919,920,921,922,923.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:46
S205	215	361/679.04.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:46
S206	215	361/679.04.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:52
S207	81	S205 AND WALL	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:52
S208	57	("20030039094" "20030090866" "20030154673"	, procession of the second	OR	OFF	2019/12/23

		"20040212745" "20060238967" "20060243872" "20070007411" "20070170325" "20070252060" "20080123284" "20090184221" "20100171014" "20110002129" "4657316" "4866530" "4919287" "4920458" "5299017" "5321579" "5348324" "5351176" "5579597" "5636101" "5786995" "5805117" "6054968" "6359775" "6594078" "6688518" "6692093" "6841790" "6883563" "6989800" "7019786" "7176380" "7334766" "7408596" "74301111" "7438269" "7510156" "7513469" "7546745" "7661643" "7663706" "7712717" "7719480" "7780124" "7866622" "7869201" "7891622" "D390143").PN. OR ("8313072").URPN.	PGPUB; USPAT; USOCR			12:54
S209	2443	g06f1/1647.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:59
S210	11517	g06f3/147,1446,1423.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:59
S211	775	g09f9/3026.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 12:59
S212	354	(("20190364656") or ("20190311968") or ("20060232940") or ("10091894") or ("20170086313") or ("20140072855") or ("20140087231") or ("20150359107") or ("8317525") or ("20110256749") or ("20070175656") or ("5218516") or ("20170006711") or ("10098240") or ("7807931") or ("20180302999") or ("20110134610") or ("20150211718") or ("7911051") or ("20150173227") or ("8477502") or ("10015875") or ("4698729") or ("20180359874") or ("20180352666") or ("9237679") or ("10462915") or ("20130314876") or ("20170082466") or ("20110017497") or ("8344258") or ("20190230804") or ("851598") or ("9060454") or ("20120057320") or ("20030038157") or ("20100226098") or ("839789") or ("20040028315") or ("20080094805") or ("8547701") or ("6661664") or ("20180303009") or ("8009056980") or ("20100230151") or ("6504722") or ("7746653") or ("20180303009") or ("6929975") or ("20180094892") or ("7697300") or ("20090168360") or ("8964392") or ("7697300") or ("20090168360") or ("8964392") or ("7697300") or ("20090161319") or ("5712765") or ("20090161319") or ("5712765") or ("20060067054") or ("5712765") or ("20130208425") or ("20120127736") or ("20150043177") or ("20120127736") or ("20150043177") or ("10085345") or ("10237979") or ("20150048317") or ("10085345") or ("10237979")	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:24

("20180177058") or ("20020003692") or		
("20080037229") or ("20190045628") or		
("8089768") or ("5510958") or ("9699929") or		
("20190324372") or ("20180376597") or		
("20070107511") or ("20060076686") or		
("8811019") or ("20130044436") or		
("20130329370") or ("20120222808") or		
("6185100") or ("9345139") or ("7373816") or		
("9433130") or ("20120040541") or		
("20150257309") or ("8579637") or ("9241424") or		
("6459585") or ("20120240396") or		
("20140038474") or ("20180151968") or		
("20090213552") or ("20080293261") or		
("7780469") or ("20110255850") or ("9532460") or		
("20110255250") or ("9472486") or ("10366939")		
or ("20150022976") or ("9763344") or		
("20090301765") or ("7583504") or ("7179140") or		
("20030067754") or ("6757171") or		
("20080266808") or ("20160172267") or		
("20160100505") or ("20180203490")).PN. or		
(("20150243937") or ("20180114742") or		
("20160021730") or ("20140362535") or		
("6225559") or ("10120424") or ("20040266244")		
or ("10034412") or ("9756717") or ("8253026") or		
("20130121759") or ("20080043441") or		
("20140307403") or ("20030227760") or		
("8789271") or ("5276584") or ("20110100598") or		
("7609527") or ("6985366") or ("20110069448") or		
("20060105495") or ("20190057923") or		
("20190335577") or ("9107295") or		
("20190335621") or ("5901036") or ("6674344") or		
("5402313") or ("20160353616") or ("9408291") or		
("20160128208") or ("7299546") or ("9642288") or		
("20180124956") or ("20130314878") or		
("8792242") or ("20130146352") or		
("20020137391") or ("9562548") or ("9265148") or		
("20110044005") or ("20060218782") or		
("6088228") or ("20150029669") or		
("20190335576") or ("20140113171") or		
("10014232") or ("20150216038") or		
("20070227761") or ("9532459") or ("8488324") or		
("8076586") or ("20110051384") or ("8837141") or		
("9642266") or ("20150096800") or		
("20100202110") or ("8468691") or		
("20090217519") or ("20160165727") or		
("5999407") or ("4994937") or ("9531094") or		
("7115821") or ("20140104786") or		
("20160064841") or ("20150043169") or		
("9516748") or ("20150107882") or ("9706694") or		
("5528461") or ("8087943") or ("10057989") or		
("20130301231") or ("10426040") or		
("20140347821") or ("20140104776") or		
("4953059") or ("20190234602") or ("7754977") or		
("20060120060") or ("5305185") or		
("20160044794") or ("20110100681") or		
("20180359860") or ("20090194884") or		
("20150092350") or ("9568259") or ("5943213") or		
("7217043") or ("20120037403") or		
("20140102626") or ("7450400") or ("7557442") or		
("8164904") or ("20090040727") or ("7237724") or		
("6921973") or ("20040140554") or		
("20140240927") or ("20140182898") or		
("7172347") or ("6507108") or ("20080192445") or		
("7808785") or ("4441140") or ("6230397") or		
54		
N N	31 31	11

S213	573	("20190150272") or ("20050230820") or ("9500793") or ("20190097208") or ("817458") or ("9303895") or ("20170354036") or ("9746879") or ("9912211") or ("20060072881") or ("8998454") or ("20060226240") or ("20140104775") or ("20060226240") or ("20140104775") or ("20090190310") or ("8632346") or ("20150109812") or ("20140168780") or ("20090290301") or ("20070131349") or ("2010000655") or ("8902606") or ("6606254") or ("20130078828") or ("20190035709") or ("5812374") or ("20140104766") or ("66222732") or ("5812374") or ("20140104766") or ("6222732") or ("5483420") or ("20140104766") or ("6222732") or ("20130135883") or ("20080198557") or ("20130135883") or ("20080198557") or ("20130141913") or ("8861220") or ("7768785") or ("20130141913") or ("8861220") or ("7768785") or ("20140035118") or ("5321582") or ("8630092") or ("20180269828") or ("20110205711") or ("20180269828") or ("20110036627") or ("201400057882") or ("20110036627") or ("20140106578") or ("201401036827") or ("20140106578") or ("2014010474") or ("990873") or ("20140103618") or ("20150124411") or ("7575443") or ("20070211442") or ("8072768") or ("20100163210") or ("7542291") or ("8436711") or ("200900141994") or ("20090122494") or ("20100163210") or ("7542291") or ("8436711") or ("201009014194") or ("6923580") or ("2014000941") or ("9913376") or ("20100163210") or ("7542291") or ("44373259") or ("44330812") or ("90900122494") or ("20090014994") or ("200900166339") or ("201000002959") or ("4508163") or ("4508163") or ("7520781") or ("6638130") or ("450800779") or ("4508000779") or ("4508000779") or ("42020000168339") or ("2018000779") or ("4508888") or ("2018000779") or ("4508888") or ("2018000779") or ("4508888") or ("2018000779") or ("42020900168363") or ("2018000779") or ("42020000168363") or ("20180000779") or ("42020000168363") or ("4809134") or ("4	US- PGPUB;	OR	OFF	2019/12/23 13:25
S213	573	((("ROBIN") near3 ("Hermann")) OR (("HEMPEN") near3 ("Martin")) OR (("MAIER") near3 ("Thomas"))).INV.		OR	OFF	31 31
S214	128	((("NAKANO") near3 ("Yuzo"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/23 13:25
S215	65	((("ALVA") near3 ("Samarth")) OR (("VARADARAJAN") near3 ("Krishnakumar")) OR (("CHANNAIAH") near3 ("Yogesh")) OR (("PILLAI") near3 ("Prakash")) OR (("PAWAR") near3	US- PGPUB; USPAT; USOCR;	OR	OFF	2019/12/23 13:25

		("Sagar")) OR (("TULJAPURKAR") near3 ("Aneesh")) OR (("N") near3 ("Raghavendra"))).INV.	EPO; JPO; DERWENT			
S216	116	((("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	2019/12/23 13:25
S217	299	((("CHEN") near3 ("Chao-Jung")) OR (("LIU") near3 ("Kun-Pei"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/12/23 13:25
S218	15375	G06F1/20,203,206.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:35
S219	8481	H05K1/0207,181.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:36
S220	1847	H05K3/303.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:36
S221	1307	H05K7/20472,2049,20509.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:36
S222	7240	361/704,707,711,709.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:37
S223	167	S212 AND FILM	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:38
S224	56	S223 and (PCB or (circuirt near board))	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:38
S225	165	S223 and (PCB or (circuit near board))	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:38
S226	89	S225 and (heat near conduct\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:38
S227	89	S226 and component\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:39
S228	3	"20150220109"	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:53
	}		-			

S229	1	"20160070393"	US-	OR	OFF	2019/12/23
			PGPUB; USPAT; USOCR			13:53
S230	55	(US-20160370828-\$ or US-20190205596-\$ or US-20120242635-\$ or US-20110267298-\$ or US-20130177302-\$ or US-20180126704-\$ or US-20150362333-\$ or US-20140145515-\$ or US-20160141884-\$ or US-20160001663-\$ or US-20130281155-\$ or US-20130236192-\$ or US-20170063102-\$ or US-20170090516-\$ or US-20180107253-\$ or US-20140021909-\$ or US-20120113576-\$ or US-20100014235-\$ or US-20080258679-\$ or US-20070035917-\$ or US-20170060186-\$ or US-20190013687-\$ or US-20180323636-\$ or US-20180109148-\$).did. or (US-20180323636-\$ or US-20180109148-\$).did. or (US-20180098366-\$ or US-20140152235-\$ or US-20140059263-\$ or US-20140152235-\$ or US-20150077438-\$ or US-20190072912-\$ or US-20170042477-\$ or US-20160287102-\$ or US-20150220109-\$ or US-2016016941-\$ or US-20130196169-\$ or US-20130287622-\$ or US-20130196169-\$ or US-20160061726-\$ or US-6593859-\$ or US-5864708-\$ or US-5793606-\$ or US-9442526-\$ or US-9107027-\$ or US-9436220-\$ or US-6151645-\$ or US-9107027-\$ or US-9436220-\$ or US-6151645-\$ or US-5526867-\$ or US-5163499-\$ or US-6151645-\$ or US-5526867-\$ or US-5163499-\$ or US-4120930-\$ or US-9582749-\$).did.	US- PGPUB; USPAT	OR	OFF	2019/12/23 13:54
S231	13	S230 and ink	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:54
S232	19	S230 and (ink or color)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:54
S233	16	S232 and (fill\$4)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 13:54
S234	4	S228 S229	US- PGPUB; USPAT; USOCR	OR	OFF	2019/12/23 14:00
S248	1	"7948758".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 12:42
S249	5	("20100310225" "20020117942" "20100172087" "20060018622" "20140204537").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 12:56
S250	267	haughton.xa.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:02
S251	1375	haughton.xp.	US- PGPUB; USPAT;	OR	OFF	2020/01/20 13:02

		3333	USOCR			
S252	3862	361/724-727.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:02
S253	29	S251 and S252	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:02
S254	23	S250 and S252	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:13
S255	11	("20020078290" "20020079791" "20020090846" "20030005199" "20030049105" "5388032" "5604662" "6031795" "6243328" "6272573" "6856505").PN. OR ("7808794").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:14
S256	48	("20040042168" "20080023416" "4589659" "4762378" "5161028" "5168423" "5168426" "5173686" "5175672" "5566048" "5708561" "5838536" "5870280" "5923528" "6144549" "6185092" "6189850" "6219323" "6233138" "6407933" "6433791" "6445573" "6510049" "6530784" "6587333" "6654236" "6657857" "6778381" "6791826" "6816361" "6816389" "6827581" "8616177").PN. OR ("7436674").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:15
S257	19	("20010023141" "5216411" "6018456" "6462670" "6597566" "6636426" "6654239" "6702412" "6717802" "6754084" "6778381" "6919816" "6962397" "6976745" "7436674").PN. OR ("7474229").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:24
S258	26	("20020171334" "20030149840" "20060010456" "200600133050" "20070115627" "20070230111" "20080106871" "20100061064" "2566064" "3586410" "5506750" "5584396" "6535391" "6621693" "6788544" "6826055" "6988626" "6999306" "7042721" "7474229" "7724543" "8120922" "8538226" "8797732").PN. OR ("9516777").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:36
S259	9	("20100238620" "20130010405" "20130170126" "20150146069" "20160232856" "20180120895" "9274562" "9395070" "9697941").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:48
S260	8	S259 and touch	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:49
S261	5	S260 and batter\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:50
S262	4	S259 not S261	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 13:51
S263	1	S259 and sealant	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:01

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S264		"20150146069"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:04
S265	55	("10054988" "20030160892" "20040071285" "20050151830" "20050156952" "20090097691" "20100065832" "20100117975" "201100123160" "20110050657" "201100253902" "20110050657" "20110128241" "20110134144" "20120105400" "20120307423" "20130002133" "20130002583" "20130076649" "20130222208" "20140029212" "20140063719" "20140099999" "20140111954" "20140247405" "20150009128" "20150014681" "20150022515" "20150022561" "20150023031" "20150048349" "20150077615" "20150084029" "20150103023" "20150138041" "20160116941" "20160343777" "20170206835" "5995025" "7184086" "7453426" "8199471" "8531411" "8610155" "8723824" "8736162" "8907868" "8976141" "9104262" "9430180" "9448592" "9891815").PN. OR	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:04
S266	12	S265 and sealant	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:05
S267	8	S266 and touch	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:06
S268	1235	g06f1/1692.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:08
S269	4010	g06f1/1643.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:09
S270	812	S268 and (touch near screen)	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:09
S271	2250	S269 and (touch near screen)	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:09
S272	0	S270 and sealant	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:09
S273	22	S271 and sealant	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:09
S274	0	"2009037383"	US- PGPUB; USPAT;	OR	OFF	2020/01/20 14:14

		***	USOCR			
S275	2	"20090037383"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:14
S276	3	(("20090037383") or ("20030214485") or ("20060284856")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:14
S277	0	S276 and sealant	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:14
S278	1	S276 and seal\$4	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:15
S279	267	S271 and seal\$4	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:15
S280	72	S270 and seal\$4	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:15
S281	3	"20150116920"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/20 14:22
S282	1	"20100238620"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 01:43
S283	15	(("7436674") or ("7808794") or ("7474229") or ("6778381") or ("6407933") or ("5173686") or ("5161028") or ("9516777") or ("6754084") or ("20070115627") or ("9943002") or ("8538226") or ("6788544") or ("6535391") or ("3586410")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:01
S284	2	(("7474229") or ("6535391")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:02
S285	5584	h02m7/003,487.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:18
S286	5222	H05K1/0231,144.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:18
S287	1112	H05K7/209.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:18
S288	2670	361/707,602,637,648,611.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:19

S289	238	((("DAME") near3 ("Mark")) OR (("HE") near3 ("Jiangbiao")) OR (("ZHANG") near3 ("Di"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/01/21 02:21
S290	12115	g06f1/32,16,1601,1603,1605,1607,1609,1611.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:31
S291	56	(((("MAYFIELD") near3 ("Walter")) OR (("VALDEZ") near3 ("Daniel"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/01/21 02:31
S292	12380	361/679.01,679.02,679.21-679.3.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:32
S293	1367	B08B1/002,006.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:32
S294	3	("0000003" "0000016" "0000510").PN.	US- PGPUB; USPAT	OR	OFF	2020/01/21 02:40
S295	3	(("4742864") or ("20030224717") or ("20160165750")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:43
S296	5	(("4742864") or ("20030224717") or ("20160165750") or ("20060073783") or ("20170339803")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 02:48
S300	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	OR	OFF	2020/01/21 10:41
S301	1236	g06f1/1692.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:57
S302	1016	g06f1/1669.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:57
S303	18	S301 and S302	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:57
S304	1073	g06f1/1671.cpc.	US- PGPUB; USPAT;	OR	OFF	2020/01/21 10:57

		*****	USOCR	****		
S305	2466	g06f1/1647.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:58
S306	74	S302 and S304	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:58
S307	37	S302 and S305	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:58
S308	157	S304 and S305	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:58
S309	46	S304 and S301	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:58
S310	231	S303 S308 S309 S307	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 10:59
S311	28	("20030026068" "20050052835" "20050083308" "20060034042" "20060044286" "20090190295" "20090262494" "20100245209" "5241303" "5375076" "5440502" "5550712" "5579487" "5739810" "5768164" "6259597" "6266241" "6487069" "6643124" "6654234" "6700773" "6865075" "6930881" "7145766").PN. OR ("7990702").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:05
S312	267	haughton.xa.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:07
S313	1378	haughton.xp.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:07
S314	1645	S312 S313	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:07
S315	6	S310 and S314	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:07
S316	6	S310 and S314	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:07
S317	25	S302 and S314	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:08
S318	13975	g06f1/1626.cpc.	US- PGPUB;	OR	OFF	2020/01/21 11:10

			USPAT; USOCR	***************************************		
S319	98	S314 and S318	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:10
S320	49	S319 and (keyboard\$1 or keypad\$1 or (key near board\$1) or (key near pad\$1))	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:11
S321	7	("20050052831" "5375076" "6788527" "7136282" "7742290" "8289688").PN. OR ("9671829").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:12
S322	1	"20050052835"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:17
S323	16	("2005/0052835").URPN.	USPAT	OR	OFF	2020/01/21 11:17
S324	0	("20170003757").PN.	USPAT	OR	OFF	2020/01/21 11:18
S325	6	("20050052835" "20090244016" "20100245209" "20170023972" "20180188774" "6700773" "6922333" "7061472" "7990702" "8331098" "9053250").PN.	USPAT	OR	OFF	2020/01/21 11:19
S326	11	("20050052835" "20090244016" "20100245209" "20170023972" "20180188774" "6700773" "6922333" "7061472" "7990702" "8331098" "9053250").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:19
S327	1	("20170003757").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:19
S328	12	S326 S327	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:19
S329	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	2020/01/21 11:22
S330	27	S328 S329	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:22
S331	13	("20050188899" "20090244016" "20130070408" "20160294113" "5503361" "6044758" "6046571" "6173933" "7052296" "7380759" "7492579" "8634188" "8724312").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:22
S332	39	S330 S331	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:28
S333	1	"6700773".pn.	US- PGPUB;	OR	OFF	2020/01/21 11:28

			USPAT; USOCR			
S334	28	("20030026068" "20050052835" "20050083308" "20060034042" "20060044286" "20090190295" "20090262494" "20100245209" "5241303" "5375076" "5440502" "5550712" "5579487" "5739810" "5768164" "6259597" "6266241" "6487069" "6643124" "6654234" "6700773" "6865075" "6930881" "7145766").PN. OR ("7990702").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:36
S335	28	S311 S334	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:36
S336	64	("5262926" "5414444" "5508720" "5644338" "5739810" "5926364" "5949643" "5966284" "6006243" "6144358" "6295038" "6297752" "6304431" "6327482" "6341061" "6492974" "6700773" "6836404").PN. OR ("7061472").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:38
S337	82	S335 S321 S323 S325 S326 S327 S328 S329 S330 S331 S332 S333	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:39
S338	57	S336 not S337	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:39
S339	43	("6366440" "6493215" "6510048" "6672796").PN. OR ("6922333").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:41
S340	139	S337 S338	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:42
S341	38	S339 not S340	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:42
S342	177	S339 S340	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:42
S343	1016	g06f1/1669.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:43
S344	1236	g06f1/1692.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:44
S345	125	S343 and ((first and second) near2 (display\$3))	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:44
S346	856	S344 and (keyboard\$1 or keypad\$1 or (key near board\$1) or (key near pad\$1))	US- PGPUB; USPAT;	OR	OFF	2020/01/21 11:45

			USOCR	***************************************		
S347	1	"8300389".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:52
S348	483	S346 and ((first and second) near2 (display\$3))	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:58
S349	118	S345 and (keyboard\$1 or keypad\$1 or (key near board\$1) or (key near pad\$1))	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:58
S350	47	S348 and ((keyboard\$1 or keypad\$1 or (key near board\$1) or (key near pad\$1)) with (stor\$3 or compartment or holder or latch\$3))	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:59
S351	42	S349 and ((keyboard\$1 or keypad\$1 or (key near board\$1) or (key near pad\$1)) with (stor\$3 or compartment or holder or latch\$3))	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 11:59
S352	86	S350 S351	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:00
S353	1	"20180046225"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:03
S354	0	("2018/0046225").URPN.	USPAT	OR	OFF	2020/01/21 12:03
S355	29	("20050207102" "20060148541" "20070217129" "20080062625" "20090322967" "20100041439" "20100128428" "20110002096" "20110216415" "20110279992" "20120147535" "20120194448" "20120212924" "20170102740" "5796575" "6094341" "6256192" "6259597" "6700773" "7542273" "7821780" "8264599" "8264829" "8284549" "8289688" "8405978" "8467186" "8624844" "9137917").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:04
S356	3	("20050128676" "20120162889" "7755882").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:06
S357	32	S355 S356	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:06
S358	1	"20160320810"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:06
S359	3	("20120039023" "20130335327" "20140333542").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:06
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			USPAT; USOCR			
S361	3	S359 S360	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:07
S362	2	"20100039764"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:11
S363	7	("20070076362" "20080062625" "20080203817" "6421235").PN. OR ("8730669").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/01/21 12:11

1/21/2020 12:23:51 PM

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
16/698,223	11/27/2019	Walter G. Mayfield	MAYG-1001-WO-USC9	3628	
87627 Mossman, Kum	7590 01/14/202 par & Tyler PC	EXAM	IINER		
P.O. Box 42123	39	GANDHI, JAYPRAKASH N			
Houston, TX 7	1242		ART UNIT	PAPER NUMBER	
			2835		
			NOTIFICATION DATE	DELIVERY MODE	
			01/14/2020	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

UNITED STATES PATENT AND TRADEMARK OFFICE



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In re Application of : Mayfield et al. :

Application No. 16/698,223 :

Filed: November 27, 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 November 27, 2019, to make the above-identified application special based on applicant's age as set forth in MPEP § 708.02, Section II.

There is no indication that the petition is signed by a registered patent attorney or patent agent of record. However, in accordance with 37 CFR 1.34, the signature of Gene L. Tyler appearing on the correspondence shall constitute a representation to the United States Patent and Trademark Office that he/she is authorized to represent the particular party in whose behalf he/she acts.

The petition is **GRANTED**.

A grantable petition to make an application special under 37 CFR 1.102(c)(1) and MPEP § 708.02, Section II: Applicant's Age, must be accompanied by evidence showing that the applicant is 65 years of age, or more, such as applicant's statement or a statement from a registered practitioner that he or she has evidence that the applicant is 65 years of age or older. No fee is required.

The instant petition includes a statement by registered attorney Gene L. Tyler, having evidence one of the joint inventors in the application is 65 years of age or older. Accordingly, the above-identified application has been accorded "special" status.

The application is being forwarded to Technology Center Art Unit 2835 for action on the merits commensurate with this decision.

Telephone inquiries concerning this decision should be directed to Felicia Jenkins at 571-272-0986. All other inquiries concerning either the examination or status of the application should be directed to the Technology Center.

/JOANNE L BURKE/ Lead Paralegal Specialist, OPET Doc Code: Oath

Document Description: Oath or declaration filed

PTO/AIA/08 (08-12)

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

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

Declaration Submitted With Initial Filing

OR

Declaration Submitted After Initial Filing (surcharge (37 CFR 1.16(f)) required)

Attorney Docket Number	MAYG-1001-WO-USC9	1
First Named Inventor	Walter G. Mayfield	
cai	MPLETE IF KNOWN	
Application Number	16/698223	-
Filing Date	November 27, 2019	
Art Unit		
Examiner Name		
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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 16/698223
filed on November 27, 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 his 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 Commence, P.O. Box 1450, Alexandria, VA 22313-1460, 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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DECLARATION — Utility or Design Patent Application

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petitioners/applicants sho USPTO. Petitioner/applic	uid consider redacting such	personal information from of of a natent application is	the documents be	store submitting them to the
application (unless a non- patent. Furthermore, the referenced in a published PTO-2038 submitted for p Petitioner/applicant is ad- into the Privacy Act syste Files. Documents not re-	publication request in complete or complet	liance with 37 CFR 1.213() application may also be avectent (see 37 CFR 1.14). Contained in the application file form the record of a patent of COMMERCE, COMN such as the PTO-2038) and	a) is made in the a allable to the publ hecks and credit of e and therefore an application (such MERCE-PAT-7, Sy a placed into the F	application) or issuance of a ic if the application is lard authorization forms and publicly available as the PTO/SB/01) are placed estem name: Patent Application of
application (unless a non- patent. Furthermore, the referenced in a published PTO-2038 submitted for (Petitioner/applicant is adv into the Privacy Act syste Files. Documents not re COMMERCE/PAT-TM-10	publication request in complete record from an abandoned a application or an issued pat payment purposes are not revised that documents which I mot records DEPARTMENT tained in an application file (i), System name: Deposit Actual Conference or FIRST INVENTOR:	liance with 37 CFR 1.213() application may also be avent (see 37 CFR 1.14). Contained in the application fill form the record of a patent of COMMERCE, COMM such as the PTO-2038) and counts and Electronic Fundaments.	a) is made in the a allable to the publ hecks and credit of e and therefore an application (such MERCE-PAT-7, Sy a placed into the F	application) or issuance of a ic if the application is lard authorization forms and publicly available as the PTO/SB/01) are placed estem name: Patent Application of
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application (unless a non- patent. Furthermore, the referenced in a published PTO-2038 submitted for p Petitioner/applicant is adv into the Privacy Act syste Files. Documents not ref COMMERCE/PAT-TM-10 LEGAL NAME OF SO (E.g., Given Name (first Walter G. Mayfiel Inventor's Signature Residence. City	publication request in complication or an issued pate application or an issued pate payment purposes are not revised that documents which I m of records DEPARTMENT tained in an application file (I), System name: Deposit Act	liance with 37 CFR 1.213() application may also be avent (see 37 CFR 1.14). Contained in the application file form the record of a patent of COMMERCE, COMME	a) is made in the a allable to the publ hecks and credit of e and therefore at application (such IERCE-PAT-7, S) e placed into the F ids Transfer Profil	application) or issuance of a ic if the application is lard authorization forms and publicly available as the PTO/SB/01) are placed estem name: Patent Application of
application (unless a non- patent. Furthermore, the referenced in a published PTO-2038 submitted for p Petitioner/applicant is adv into the Privacy Act syste Files. Documents not ref COMMERCE/PAT-TM-10 LEGAL NAME OF SO (E.g., Given Name (first) Waiter G. Mayfiel Inventor's Signature Residence City Houston Mailing Address	publication request in complication or an issued pate application or an issued pate payment purposes are not revised that documents which I m of records DEPARTMENT tained in an application file (I), System name: Deposit Act	liance with 37 CFR 1.213() application may also be avent (see 37 CFR 1.14). Contained in the application file form the record of a patent of COMMERCE, COMME	a) is made in the a allable to the publicks and credit of e and therefore as application (such (ERCE-PAT-7, S) populated into the Fods Transfer Profill	application) or issuance of a ic if the application is lard authorization forms and publicly available as the PTO/SB/01) are placed estem name: Patent Application of

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SUPPLEMENTAL SHEET FOR DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheet (for PTO/AiA/08,09)

3 3 Page:

Legal Name of Additional Joint I	nventor, if any:	••••••	
(E.g., Given Name (first and middle (if any)			
Walter G. Mayfield			
Inventor's Signature		Date	(Optional)
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(E.g., Given Name (first and middle (if any)) Daniel Martin Valdez	and Family Name or Surname)		
Inventor's Signature		Date	(Öptional)
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City Kingwood	State TX	77345 Zip	Country
Legal Name of Additional Joint I	nventor, 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			93
A.W.	State	3 2	Country
City	{	Zip	I SOUTH

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 (1-800-786-9199) and select option 2.

Electronic Ack	Electronic Acknowledgement Receipt							
EFS ID:	38200646							
Application Number:	16698223							
International Application Number:								
Confirmation Number:	3628							
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-USC9							
Receipt Date:	03-JAN-2020							
Filing Date:	27-NOV-2019							
Time Stamp:	16:27:19							
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.)
			2544398		
1	Oath or Declaration filed	MAYG_1001_C9_Declaration_fi led.pdf	505473d1489e01472051bfd685b35b5675e a36c2	no	3
Warnings:					

Information:	
Total Files Size (in bytes):	2544398

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 PO: Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NUMBER

FILING OR 371(C) DATE

FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

MAYG-1001-WO-USC9

16/698,223 11/27/2019

Walter G. Mayfield

CONFIRMATION NO. 3628

INFORMAL NOTICE

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



Date Mailed: 12/19/2019

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.

|--|



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 Viening 22313-1450

Alexandria, Virginia 22313-1450 www.uspto.gov

FILING or GRP ART APPLICATION FIL FEE REC'D 371(c) DATE ATTY.DOCKET.NO TOT CLAIMS IND CLAIMS NUMBER UNIT 16/698,223 11/27/2019 2852 1880 MAYG-1001-WO-USC9 13

CONFIRMATION NO. 3628 FILING RECEIPT

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

Date Mailed: 12/19/2019

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 16/502,935 07/03/2019 PAT 10493496

which is a CON of 16/460,770 07/02/2019

which is a CON of 16/388,691 04/18/2019 ABN

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

page 1 of 4

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: 12/17/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/698.223**

Projected Publication Date: 03/26/2020

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.

page 2 of 4

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

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

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

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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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

page 3 of 4

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).

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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 U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

	PATE	NT APPLI		ON FEE DE titute for Form		TION RECOR	D		tion or Docket Num 8,223	ber
	APPL	ICATION AS			umn 2)	SMALL	ENTITY	OR	OTHER SMALL	
	FOR NUMBER FILED NUMBER EXTRA					RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
	IC FEE FR 1.16(a), (b), or (c))	N	/A	N	I/A	N/A		1	N/A	300
	RCH FEE FR 1.16(k), (i), or (m))	N	/A	١	I/A	N/A			N/A	660
	MINATION FEE FR 1.16(o), (p), or (q))	N	/A	١	I/A	N/A			N/A	760
	AL CLAIMS FR 1.16(i))	13	minus	20= *				OR	x 100 =	0.00
	PENDENT CLAIM FR 1.16(h))	S 1	minus	3 = *				1	x 460 =	0.00
FEE	PLICATION SIZE E CFR 1.16(s))	sheets of p \$310 (\$155 50 sheets	aper, the for smale for fraction	and drawings e e application si: all entity) for ea on thereof. See CFR 1.16(s).	ze fee due is ch additional					0.00
MUL	TIPLE DEPENDEN	IT CLAIM PRE	SENT (3	7 CFR 1.16(j))				1		0.00
* If th	ne difference in colu	ımn 1 is less th	an zero,	enter "0" in colur	nn 2.	TOTAL		1	TOTAL	1720
	APPLICA	(Column 1) CLAIMS	MEND	(Column 2)	(Column 3)	SMALL	ENTITY	OR 1	OTHER SMALL	
AMENDMENT A		REMAINING AFTER AMENDMENT		NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
ME	Total * (37 CFR 1.16(i))	•	Minus	**	=	х =		OR	x =	
	Independent (37 CFR 1.16(h))	•	Minus	***	=	x =		OR	x =	
ΑM	Application Size Fee	(37 CFR 1.16(s))								
	FIRST PRESENTAT	ION OF MULTIPL	E DEPEN	DENT CLAIM (37 C	CFR 1.16(j))			OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
		(Column 1)		(Column 2)	(Column 3)			,		
NT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
JDMENT	Total '	•	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	•	Minus	***	=	х =		OR	x =	
AME	Application Size Fee	(37 CFR 1.16(s))			•			1		
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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 Da	ita Sheet 37 CFR 1.76	Attorney Docket Number	MAYG-1001-WO-USC9					
Application Da	ita Sheet 37 Of It 1.70	Application Number						
Title of Invention	SYSTEM COMPRISING A PODEVICE	DRTABLE SWITCHING DEVICE	FOR USE WITH A PORTABLE ELECTRONIC					
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.								

Secrecy Order 37 CFR 5.2

г	ightharpoonup Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Or	der pursuant to
L	$^{f J}$ 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronica	ally.)

Inventor Information:

Invent		1							R	emove	
Legal	Name										
Prefix	Given Name				Middle Name	•		Family	Name		Suffix
	Walter				G.			Mayfield]		
Resid	lence	Information	(Select One)	•	US Residency	\overline{C}) Non US Re	sidency	O Activ	e US Military Service	;
City	Hous	ston		St	ate/Province	ТХ	Count	ry of Res	idence	US	
Mailing	Addr	ess of Inven	tor:								
Addre	ss 1		801 Crestben	d D	r.						
Addre	ss 2										
City		Houston					State/Pro	vince	TX		
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Invent	tor	2	1		Remove						
Legal	Name										
Prefix	Give	en Name			Middle Name			Family Name			Suffix
	Dani	el			Martin			Valdez			
Resid	lence	Information	(Select One)	•	US Residency	\overline{C}) Non US Re	esidency Active US Military Service			
City	King	wood	·	St	ate/Province	TX	Count	ry of Res	idence	US	
							 				
Mailing	Addr	ess of Inven	tor:								
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1			isted - Addit by selecting t		al Inventor Info Add button.	orma	tion blocks	may be		Add	

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).

PTO/AIA/14 (12-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76			Attorney Docket Number		MAYG-1001-WO-USC9				
			Application Number						
Title of Invention	SYSTE DEVIC	M COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC							
An Address is being provided for the correspondence Information of this application.									
Customer Number 87627									
Email Address					Add Email Remove Email				
Application I	Application Information:								
Title of the Invent	ion	SYSTEM COMPRIS		SWITCHING	DEVICE FOR USE WITH A PORTABLE				
Attorney Docket N	lumber	MAYG-1001-WO-U	SC9	Small Ent	tity Status Claimed 🔲				
Application Type		Nonprovisional							
Subject Matter		Utility			_				
Total Number of D	rawing	Sheets (if any)	13	Suggeste	ed Figure for Publication (if any)				
Filing By Refer	ence:	•							
provided in the appropr For the purposes of a fili reference to the previou	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 filed application								
Publication Information: Request Early Publication (Fee required at time of Request 37 CFR 1.219) Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.									
Representative Information: Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.									
Please Select One	. ,	Customer Numbe	r O US Pate	ent Practitione	er				
Customer Number		Customer Numbe 87627	OS Pale	ant Fractitione	Limited Recognition (37 CFR 11.9)				
Gustoffier Mullipel		01021							

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Application Da	ata Sheet 37 CFR 1.76	Attorney Docket Number	MAYG-1001-WO-USC9
Application ba	ita Sheet 37 Of K 1.70	Application Number	
Title of Invention	SYSTEM COMPRISING A PODEVICE	DRTABLE SWITCHING DEVICE	FOR USE WITH A PORTABLE ELECTRONIC

Domestic Benefit/National Stage Information:

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

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

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	16502935	2019-07-03
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
16502935	Continuation of	16460770	2019-07-02
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
16460770	Continuation of	16388691	2019-04-18
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
16388691	Continuation of	16041594	2018-07-20
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
16041594	Continuation of	15852000	2017-12-22
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
15852000	Continuation of	15597005	2017-05-16
Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
15597005	Continuation of	14343665	2014-07-14
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
14343665	a 371 of international	PCT/US2012/049562	2012-08-03
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/US2012/049562	Claims benefit of provisional	61/661090	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
		•	

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76

Attorney Docket Number MAYG-1001-WO-USC9

Application Number

Title of Invention SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE

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 Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)			
PCT/US2012/049562	Claims benefit of provisional	61592344	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	61576834	2011-12-16			
Prior Application Status	Expired		Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)			
PCT/US2012/049562	Claims benefit of provisional	61569093	2011-12-09			
Prior Application Status	Expired	Remove				
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)			
PCT/US2012/049562	Claims benefit of provisional	61568031	2011-12-07			
Prior Application Status	Expired		Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)			
PCT/US2012/049562	Claims benefit of provisional	61561087	2011-11-17			
Prior Application Status	Expired	Remove				
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)			
PCT/US2012/049562	Claims benefit of provisional	61555310	2011-11-03			
Prior Application Status	Expired		Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)			
PCT/US2012/049562	Claims benefit of provisional	61515752	2011-08-05			
Additional Domestic Benefit/National Stage Data may be generated within this form						

Foreign Priority Information:

by selecting the Add button.

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

			Remove				
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)				
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Application Da	ita Sheet 37 CEP 1 76	Attorney Docket Number	MAYG-1001-WO-USC9
Application Data Sheet 37 CFR 1.76		Application Number	
Title of Invention	SYSTEM COMPRISING A PODEVICE	DRTABLE SWITCHING DEVICE	FOR USE WITH A PORTABLE ELECTRONIC

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

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also
contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March
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Application Data Sheet 37 CFR 1.76			Attorney Doc	Docket Number MAYG-1001-WO-USC9		01-WO-USC9			
			Application Number						
Title of Invention	SYSTE		M COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC						
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The information to be 1.43; or the name and who otherwise shows applicant under 37 CF	provided address sufficient R 1.46 (a gether w	in this so of the as propriet assignee	ection is the na ssignee, perso ary interest in t , person to who	me and address in to whom the in the matter who is om the inventor i	of the legal rep ventor is under the applicant u s obligated to a	oresentative v an obligation under 37 CFF ssign, or per	s section should not be completed. who is the applicant under 37 CFR n to assign the invention, or person R 1.46. If the applicant is an reson who otherwise shows sufficient who are also the applicant should be		
Assignee			◯ Legal R	epresentative un	der 35 U.S.C.	117	Joint Inventor		
Person to whom th	e invento	or is oblig	ated to assign.		Person	who shows	sufficient proprietary interest		
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Application Data Sheet 37 CFR 1.76				Altomey Docket Number		WATG-1001-WO-05C9		
Application	Application Bata officer of of K 1.70				Application Number			
Title of Invent	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTOR DEVICE						WITH A PORTABLE ELECTRONIC	
Organization Name GUI GLOBAL PRODUC				TS, LTD.				
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U.S. NON-PROVISIONAL APPLICATION

FOR

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

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CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. Patent Application Serial No.: 16/502,935, filed July 3, 2019, which is a continuation of U.S. Patent Application Serial No.: 16/460,770, filed July 2, 2019, which 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 turn 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 acky 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 2 B, 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 ferrimagnetic materials. In 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 ferrimagnetic 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 indention (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 integrality 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 a 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 an 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" configration, 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 BabyTM from TYTM 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 SnoopyTM shaped cleaning component on a case or cover having a doghouse design or shape. In another embodiment, an Angry BirdTM 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 and 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 witching 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 2 cm.

[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 BabyTM from TYTM 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 SnoopyTM 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 of 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;

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;

wherein the second case is decoupled from the first case by overcoming magnetic force the portable switching device is configured to activate, deactivate, or send into hibernation the portable electronic device;

the electronic device plays or pauses a remote device;

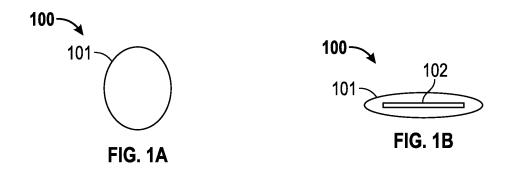
the switching device includes a lid and hinge attaching the lid to the switching device; the lid is recessed to configure to the electronic device; and when coupled, the first case functions to protect the second case.

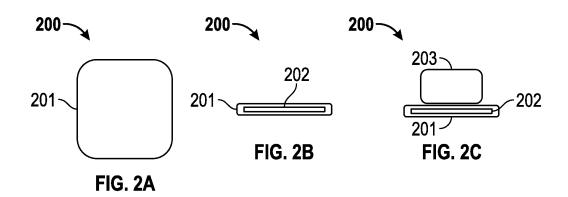
- 2. The system of Claim 1 wherein the switching device has a first lens.
- 3. The system of Claim 1 wherein the electronic device has a second lens.
- 4. The system of Claim 1 wherein the lid has a second magnet disposed within it.
- 5. The system of Claim 4 wherein the lid is configured to employ the second magnet to secure the lid in a closed position by magnetically coupling to the first case.

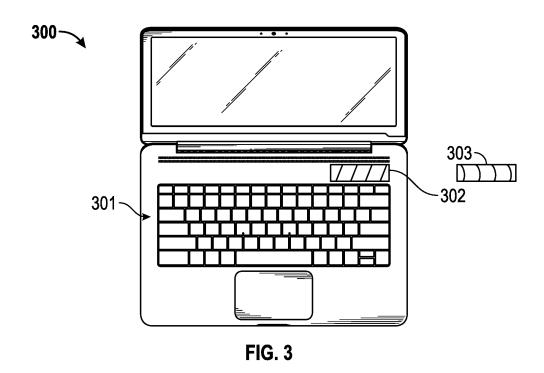
- 6. The system of Claim 1 wherein the electronic device has a tab or knob configured to be manipulated by an external force.
- 7. The system of Claim 3 wherein the first case is configured to be nonabrasive to the second lens.
- 8. The system of Claim 2 wherein the second case is configured to be nonabrasive 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 electronic device is wireless earplugs.
- 12. The system of Claim 1 wherein the system further comprises a sensor that can be activated using a magnet.
- 13. The system of Claim 5 wherein the system further comprises a sensor that can be actuated using a magnet.

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.







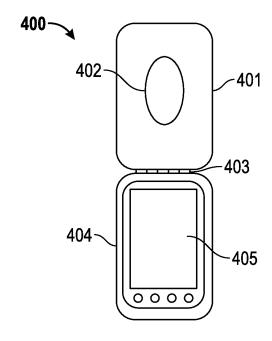
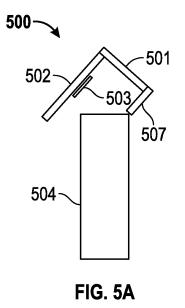


FIG. 4



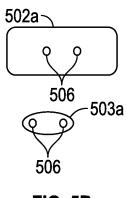
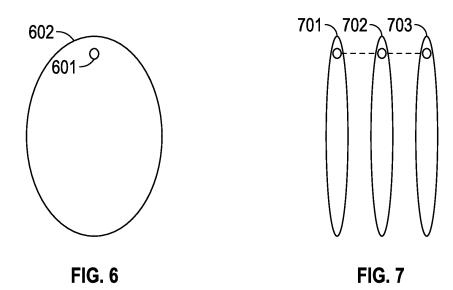


FIG. 5B



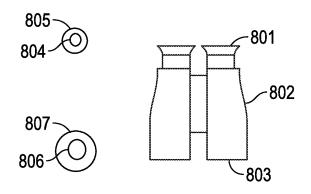


FIG. 8

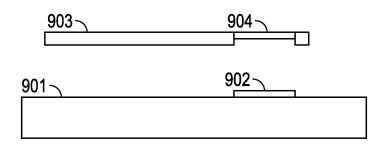
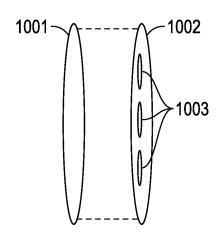


FIG. 9

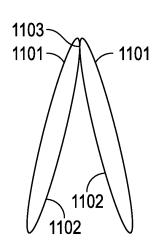
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FIG. 10A

FIG. 10B



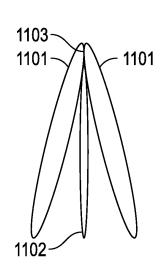


FIG. 11A

FIG. 11B

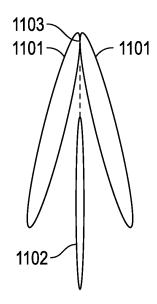


FIG. 11C

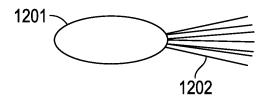
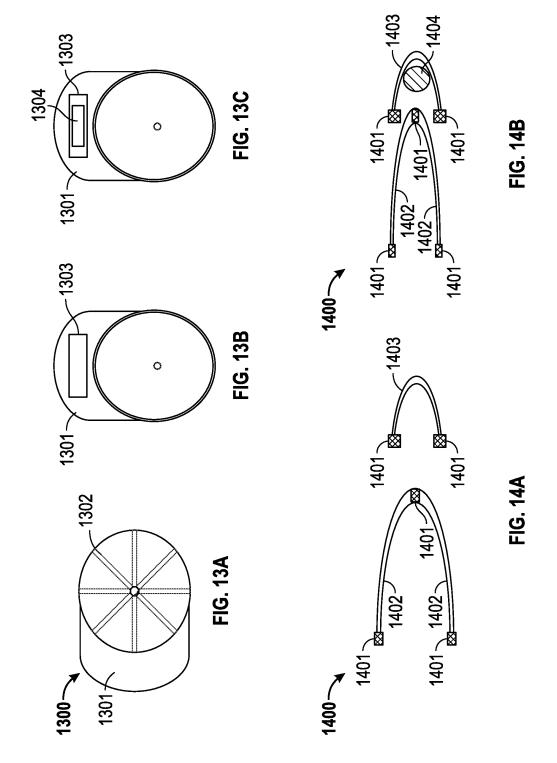
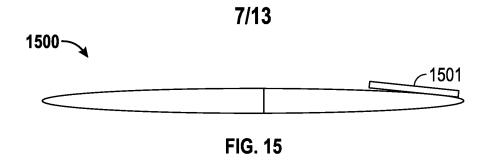


FIG. 12





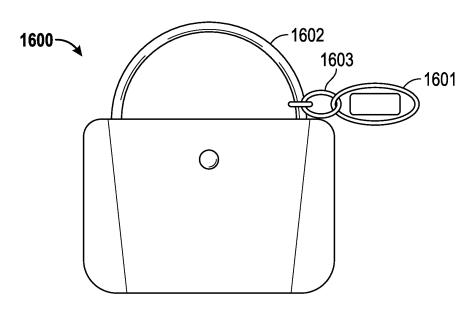


FIG. 16A

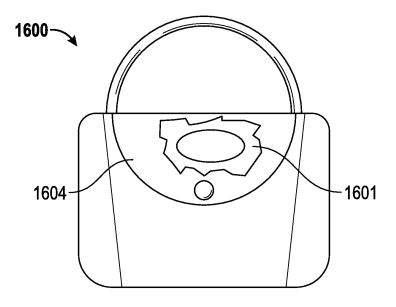


FIG. 16B

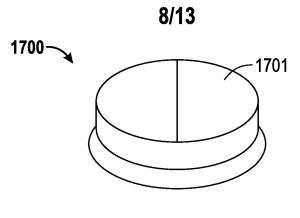


FIG. 17A

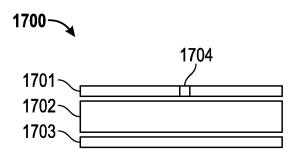


FIG. 17B

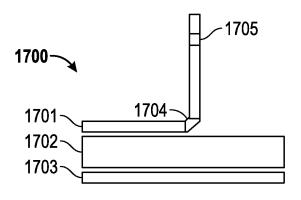


FIG. 17C



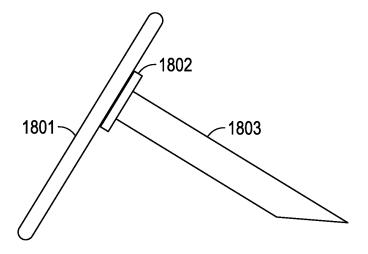


FIG. 18

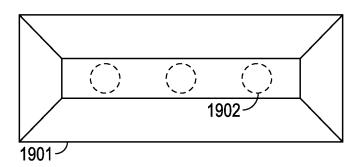


FIG. 19A

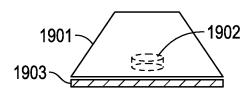


FIG. 19B

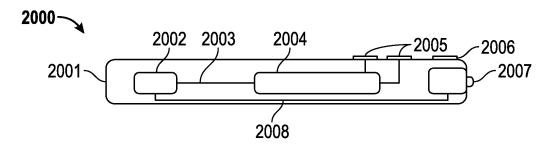


FIG. 20

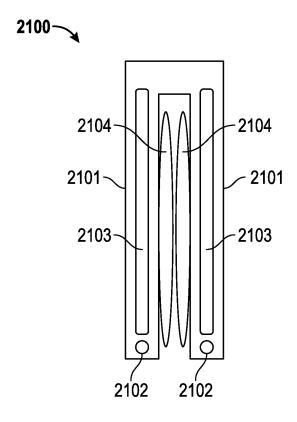


FIG. 21

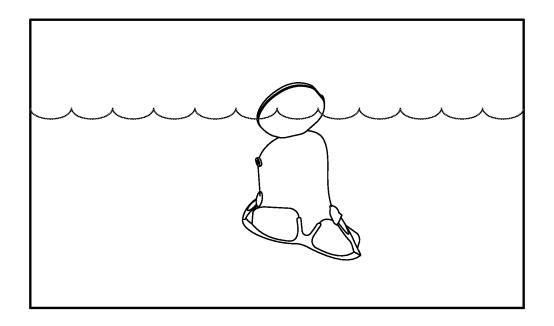


FIG. 22

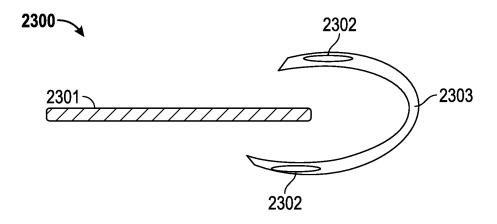


FIG. 23



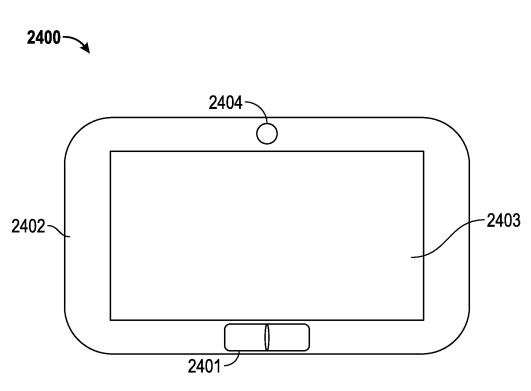


FIG. 24

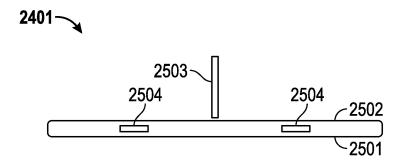


FIG. 25

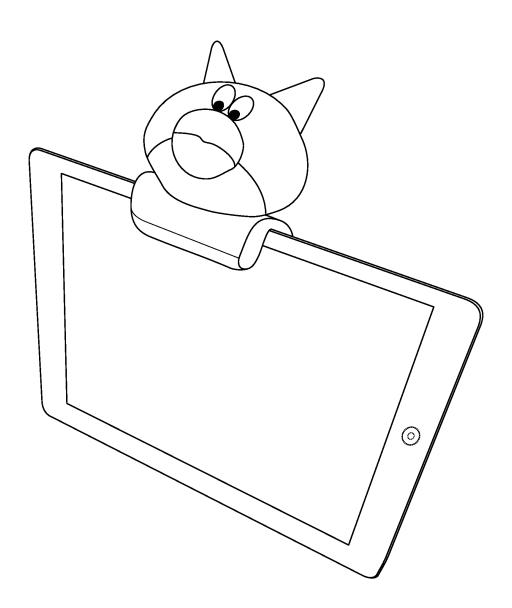


FIG. 26

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				FOR USE WITH A	
First Named Inventor/Applicant Name:	Wa	lter G. Mayfield				
Filer:	Ge	ne Tyler/Tracie Thig	jpen			
Attorney Docket Number:	MA	YG-1001-WO-USC9)			
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:				
	Tot	al in USD	(\$)	1880

Electronic Acknowledgement Receipt					
EFS ID:	37882351				
Application Number:	16698223				
International Application Number:					
Confirmation Number:	3628				
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/Tracie Thigpen				
Filer Authorized By:	Gene Tyler				
Attorney Docket Number:	MAYG-1001-WO-USC9				
Receipt Date:	27-NOV-2019				
Filing Date:					
Time Stamp:	15:23:31				
Application Type:	Utility under 35 USC 111(a)				

Payment information:

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Payment Type	CARD
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RAM confirmation Number	E2019AQF24259466
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37 CFR 1.19 (Document supply fees) 37 CFR 1.21 (Miscellaneous fees and charges) **File Listing: Document** File Size(Bytes)/ Multi **Pages Document Description File Name** (if appl.) Number **Message Digest** Part /.zip 120592 MAYG_1001WOUSC9_ADS_pto **Application Data Sheet** no 8 1 .pdf a21a44cf5a4a8d5a9ec8c25560b6d6aa1ff2 551d Warnings: Information: This is not an USPTO supplied ADS fillable form 264116 MAYG_1001WOUSC9_Continu 2 yes 34 $at ion App_pto.pdf$ c310c796fc48595e05201eeb53e49a1ec3 ecf9 Multipart Description/PDF files in .zip description **Document Description** End Start Specification 1 31 Claims 32 33 Abstract 34 34

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Doc code: PET.OP.AGE

Description: Petition to make special based on Age/Health

PTO/SB/130 (07-09)

Approved for use through 07/31/2012. OMB 0651- 0301

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PETI	TION TO N	MAKE SPEC	CIAL BASED ON AC UNDER 37 CFR			NT OF E	EXAM	INATION
			Application I	nform	ation			
Application Number	16698223		Confirmation Number	3628		Filing Date		2019-11-27
Attorney Docket Number (optional)	MAYG-100	1-WO-USC9	Art Unit			Exami	ner	
First Named Inventor	Walter G. N	/layfield						
Title of Invention	SYSTEM O	COMPRISING	A PORTABLE SWIT	CHING	DEVICE FOR USI	E WITH A	POR	TABLE ELECTRONIC
Attention: Office of An application may be years of age, or mor	be made sp							g that the applicant is 65 08.02 (IV).
APPLICANT HEREE UNDER 37 CFR 1.1								IN THIS APPLICATION
A grantable petition (1) Statement by one (2) Certification by a showing one named	e named in registered	ventor in the attorney/ag	e application that he ent having evidence	such a	as a birth certific			driver's license, etc.
Name of Inventor w	vho is 65 y	ears of age	, or older					
Given Name		Middle Na	me	Family	[,] Name		Suff	ix
Daniel		M.		VALDE	Z			
A signature of the ap Please see 37 CFR				ordanc	e with 37 CFR 1	.33 and	10.18	
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(1) I am an invento	r in this appli	ication and I a	am 65 years of age, or	more.				
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Signature		/Gene L. Ty	ler/		Date (YYYY-MM-DD	0)	2019-	11-27
Name		Canal Tula	_		Registration		25205	-

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Electronic Acknowledgement Receipt					
EFS ID:	37882540				
Application Number:	16698223				
International Application Number:					
Confirmation Number:	3628				
Title of Invention:	SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE				
First Named Inventor/Applicant Name:	Walter G. Mayfield				
Correspondence Address:	Mossman, Kumar & Tyler PC - P.O. Box 421239 - Houston TX 77242 US 281-404-4859 docket@mktlaw.com				
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File Listing:	

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
			71565		
1 Petition to	Petition to make special based on Age/ Health	MAYG_1001WOUSC9_Petition MakeSpecial_filed.pdf	709fae60fd4614b30ac9931bd00a353fd88f 4d5c	no	2
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

New International Application Filed with the USPTO as a Receiving Office

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