Application Data Sheet 37 CFR 1.76		Attorney Docket Number	MAYG-1001-WO-USC3		
		Application Number			
Title of Invention	APPARATUS FOR CLEANIN	G VIEW SCREENS AND LENSI	ES AND METHOD FOR THE USE THEREOF		
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Mailing	Addr	ess of Invent	or:								
Addre	ss 1		801 Crestber	nd D	r.						
Addre	ss 2										
City		Houston					State/Pro	vince	TX		
Postal	Code	9	77042			Coi	untry i	US			
Invent	or	2	•		•				Re	move	
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Prefix	Give	en Name			Middle Name			Family	Name		Suffix
	Dani	el			Martin			Valdez			
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Mailing	Addr	ess of Invent	or:								
Addre	Address 1 4007 Brook Shadow Dr.										
Address 2											
City		Kingwood					State/Pro	vince	TX		
Postal	Code	e	77345-1268			Coı	untry i	US			
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Application Data Sheet 37 CFR 1.7		. /	Attorney Docke	t Number	MAY	'G-1001-WO-USC3	
Аррисацоп Ба	la Sile	et 37 CFR 1.70		Application Nur	nber		
Title of Invention	APPAR	ATUS FOR CLEAN	ING '	VIEW SCREENS	AND LENSE	ES AN	D METHOD FOR THE USE THEREOF
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Subject Matter		Utility	_				
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Filing By Refer	ence :						
application papers inclu- provided in the appropr	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						
Application number of filed application	*		Filing date (YYYY-MM-DD)				ii_ Intellectual Property Authority or Country
Publication I	nform	nation:					
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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 I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in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.							
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	MAYG-1001-WO-USC3
Application Data Sheet 37 CFK 1.76	Application Number		
Title of Invention	APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF		

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

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Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	15/597005	2017-05-16
Prior Application Status	Pending		Remove
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15/597005	Continuation of	14/343665	2014-07-14
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14/343665	a 371 of international	PCT/US2012/049562	2012-08-03
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PCT/US2012/049562	Claims benefit of provisional	61/661090	2012-06-18
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PCT/US2012/049562	Claims benefit of provisional	61/592344	2012-01-30
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PCT/US2012/049562	Claims benefit of provisional	61/576834	2011-12-16
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PCT/US2012/049562	Claims benefit of provisional	61/569093	2011-12-09
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PCT/US2012/049562	Claims benefit of provisional	61/568031	2011-12-07
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Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/US2012/049562	Claims benefit of provisional	61/561087	2011-11-17
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	MAYG-1001-WO-USC3		
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	Title of Invention	APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THERE			

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	
PCT/US2012/049562	Claims benefit of provisional	61/555310 2011-11-03		
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Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	
PCT/US2012/049562	Claims benefit of provisional	61/515752 2011-08-05		

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\boxtimes	Authorization to Permit Access to the Instant Application by the Participating Offices	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	MAYG-1001-WO-USC3	
		Application Number		
Title of Invention	tion APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THER			

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Organizatio	Organization Name GUI GLOBAL PRODUCTS, LTD.				
Mailing Ad	ddress Info	mation Fo	r Applicant:		
Address 1 1819		19 St. James Place			
Address 2					
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Application Data Sheet 37 CFR 1.76			Attorney Docket Number	MAYG-1001-WO-USC3		
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Title of Invention APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF			ES AND METHOD FOR THE USE THEREOF			
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Application Da	ta Sheet 37 CFR 1.76	Attorney Docket Number	MAYG-1001-WO-USC3
Application Data Sheet 37 Cr K 1.70		Application Number	
Title of Invention	APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF		

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U.S. NON-PROVISIONAL APPLICATION

FOR

APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF

INVENTOR(S): Walter G. Mayfield

Daniel M. Valdez

Assignee: GUI Global Products, Ltd.

1819 St. James Place Houston, Texas 77056 United States of America

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. Patent Application Serial No. 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; 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.: 61/5555310, 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 uselife.

[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.

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 Bird™ figure could be configured to sit upon (aka perch) upon the top of a case or cover being secured from falling by the magnet containing within the cleaning component.

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

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

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

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

[000100] Another embodiment of the application is a cleaning device having additional functionality such as a remote control, laser pointer or the like. Turning to Fig. 20, a device 2000 including both a laser pointer and a remote control is shown. This device includes 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 2cm.

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

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

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

[000120] In embodiments of the disclosure where a case has been configured to receive a switching device, it may be so configured in several ways. In one embodiment, such a case is configured by placing a ferromagnetic or ferrimagnetic material onto the surface of the case where the switching device is received. In another embodiment, the case is prepared such that the case itself is composed of a ferromagnetic or ferrimagnetic material at the point where the switching device is received. In still another embodiment, the case is prepared by placing a ferromagnetic or ferrimagnetic material underneath where the switching device is

received. Additionally, the case may be fabricated such that the switching device is received into a groove, slot, or other indented geometrical shape to lower the profile of the switching device to facilitate closing a cover or prevent snagging a switching device. Another reason to lower the profile that the switching device may be to enhance the aesthetics of the device.

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

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

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

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

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

be used to secure a magnet to the switching device. In another embodiment, the substrate having an adhesive may be free of advertisements and/or decoration.

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

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

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

[000129] In one embodiment where a switching device of the application is employed on a tablet using the Apple® Smart Cover, it may be employed on the outside of the smart cover to function as a handle for more easily manipulating the cover. Magnets at the bottom of the Smart Cover allow for a very efficient employment of the switching device.

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

[000131] In order to make the switching device more desirable to young users, they may be converted into or incorporated into dolls or toys with the caveat that the doll or toy is configured to be attached to or perched upon an electronic device and secured thereon using a

magnet. While trademarked toys and dolls, such as Angry BirdsTM 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.

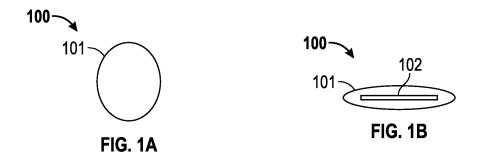
What Is Claimed Is:

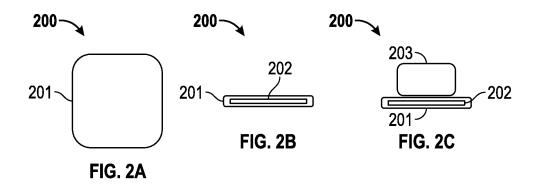
- A system comprising:
 a portable switching device coupled to a portable electronic device;
 wherein:
 - the switching device and the electronic device are configured to selectively couple to
 each other employing magnetic force from a first magnet disposed within the
 switching device;
 - the switching device comprises a first case;
 - the electronic device comprises a second case and an electronic circuit that is responsive to the switching device;
 - the electronic device comprises at least one element selected from the group consisting of beveled edges, ridges, recessed areas, grooves, slots, indented shapes, bumps, raised shapes, and combinations thereof; configured to correspond to complimentary surface elements on the switching device; and
 - when coupled, the second case functions to protect the first case.
- 2. The system of Claim 1 wherein the electronic device has a lens.
- 3. The system of Claim 1 wherein the electronic device has a view screen.
- 4. The system of Claim 1 wherein the switching device has a lens.
- 5. The system of Claim 1 wherein the switching device has a view screen.
- 6. The system of Claim 1 wherein the electronic device includes a lid and hinge attaching the lid to the electronic device.
- 7. The system of Claim 6 wherein the lid is recessed to configure to the switching device.
- 8. The system of Claim 6 wherein the lid has a second magnet disposed within it.
- 9. The system of Claim 8 wherein the lid is configured to employ the second magnet to secure the lid in a closed position.

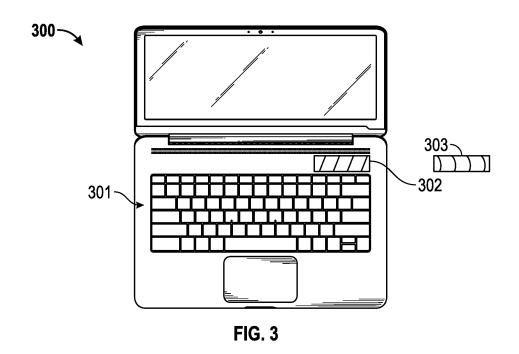
- 10. The system of Claim 1 wherein the switching device is wireless earplugs.
- 11. The system of Claim 1 wherein the switching device has a tab or knob configured to be manipulated by an external force.
- 12. The system of Claim 2 wherein a surface of the first case is composed of a material nonabrasive to the lens.
- 13. The system of Claim 3 wherein a surface of the first case is composed of a material nonabrasive to the view screen.
- 14. The system of Claim 4 wherein a surface of the first case is composed of a material nonabrasive to the lens.
- 15. The system of Claim 5 wherein a surface of the first case is composed of a material nonabrasive to the view screen.
- 16. The system of Claim 1 wherein the first magnet is employed in actuating the electronic circuit.
- 17. The system of Claim 8 wherein the second or a third magnet is employed in the lid to actuate the electronic circuit.
- 18. The system of Claim 1 wherein the switching device additionally comprises a laser.
- 19. The system of Claim 1 wherein the switching device can be employed to perform at least one function selected from the group consisting of: control volume, pause, play, next slide, switch on, switch off, and combinations thereof; to an electronic device.

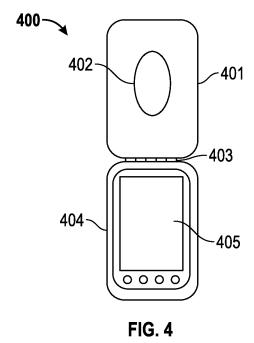
ABSTRACT

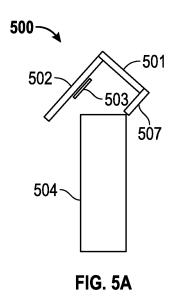
A lens and/or a view screen of an electronic device having at least one case can be cleaned by wiping the view screen with a cleaning component wherein the cleaning component is configured to selectively couple to the at least one case or some other substrate using a magnetic attractive force. The cleaning 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.

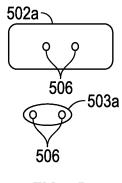




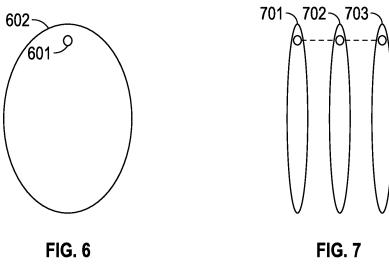








3/13



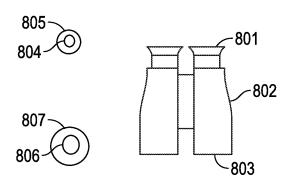


FIG. 8

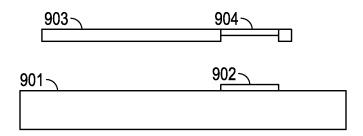


FIG. 9

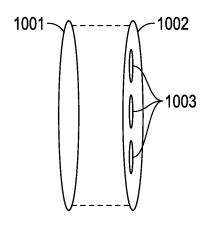


FIG. 10A

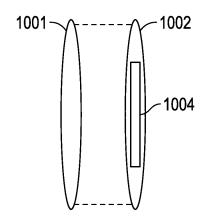


FIG. 10B

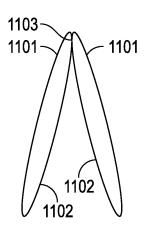


FIG. 11A

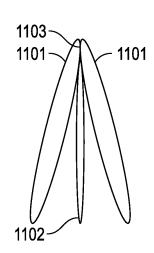


FIG. 11B

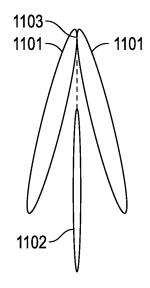


FIG. 11C

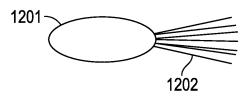
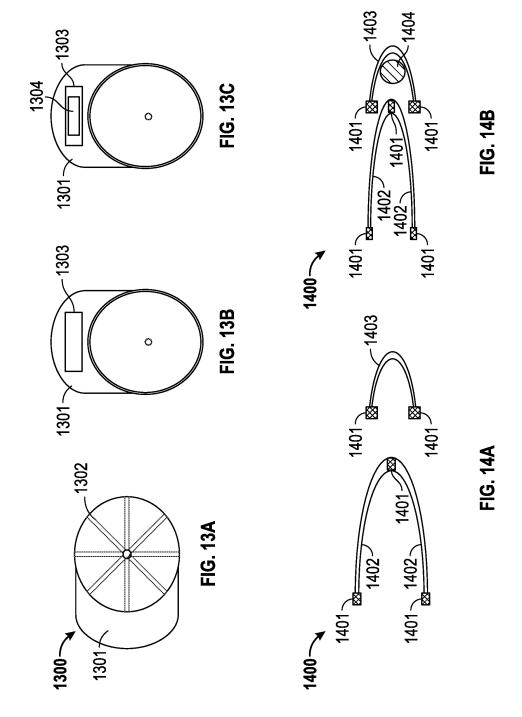


FIG. 12



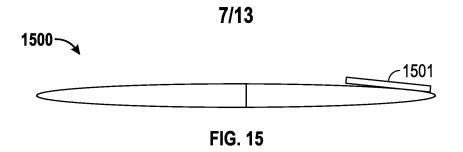
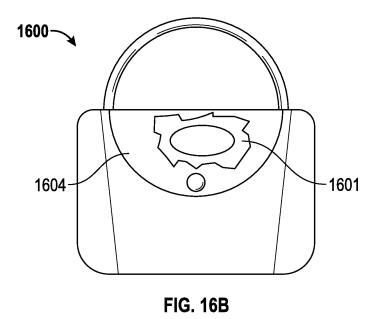


FIG. 16A



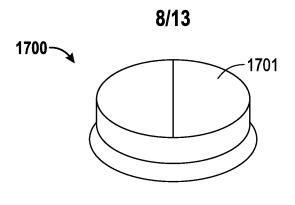


FIG. 17A

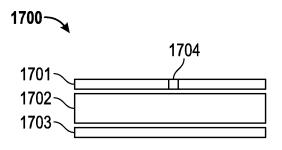


FIG. 17B

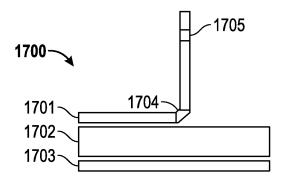


FIG. 17C



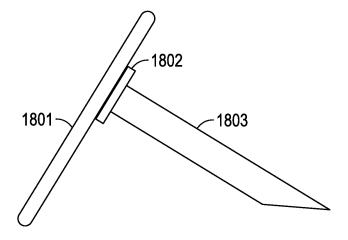


FIG. 18

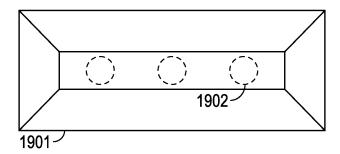


FIG. 19A

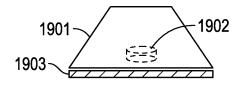


FIG. 19B

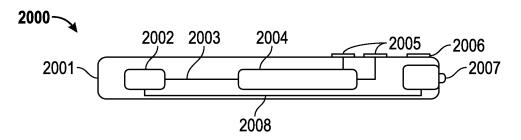


FIG. 20

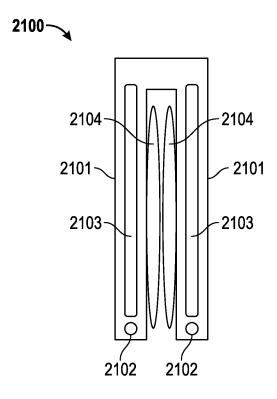


FIG. 21

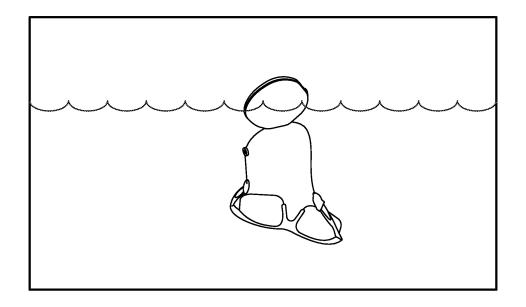


FIG. 22

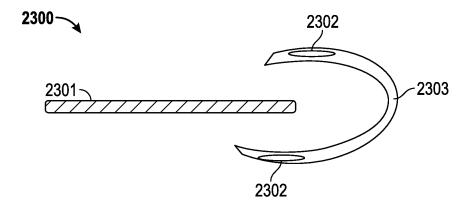


FIG. 23



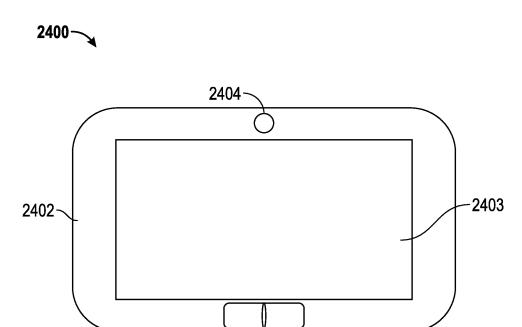
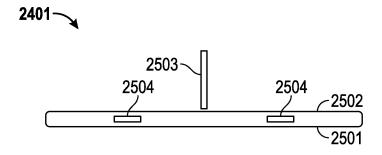


FIG. 24

2401



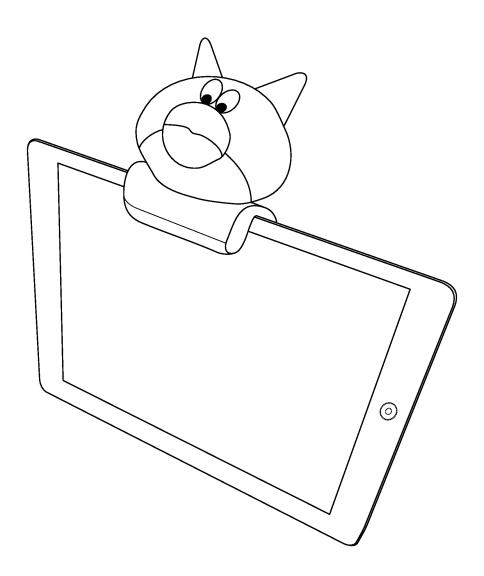


FIG. 26

Electronic Patent Application Fee Transmittal									
Application Number:									
Filing Date:									
Title of Invention:	APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF								
First Named Inventor/Applicant Name:	Walt	er G. Mayfield							
Filer:	Gene	e Tyler/Tracie Thig	ipen						
Attorney Docket Number:	MAYG-1001-WO-USC3								
Filed as Large Entity									
Filing Fees for Utility under 35 USC 111(a)									
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)				
Basic Filing:									
UTILITY APPLICATION FILING		1011	1	280	280				
UTILITY SEARCH FEE		1111	1	600	600				
UTILITY EXAMINATION FEE		1311	1	720	720				
Pages:									
Claims:									
Miscellaneous-Filing:									
LATE FILING FEE FOR OATH OR DECLARATION		1051	1	140	140				
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	(\$)	1740

Electronic Acknowledgement Receipt						
EFS ID:	31316916					
Application Number:	15851952					
International Application Number:						
Confirmation Number:	9301					
Title of Invention:	APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF					
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-USC3					
Receipt Date:	22-DEC-2017					
Filing Date:						
Time Stamp:	10:52:54					
Application Type:	Utility under 35 USC 111(a)					

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$1740
RAM confirmation Number	122217INTEFSW10540800
Deposit Account	504920
Authorized User	Tracie Thigpen

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37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)
37 CFR 1.20 (Post Issuance fees)
37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	MAYG_1001WOUSC3_ADS_pto _Filed.pdf	111360 78d2577d9422fb42c254ce7b5d7947e8182 61fd9	no	8
Warnings:					
Information:					
This is not an US	SPTO supplied ADS fillable form				
			259485		
2		MAYG_1001USC_Continuation App_pto_Cont3_for_filing.pdf	99d08a133967a4d8128204d582a568be96f 8d5c3	yes	33
	Multip	। part Description/PDF files in .	zip description		
	Document De	Start	End		
	Specification - No	1		30	
	Claims	31	3	32	
	Abstrac	:t	33	33	
Warnings:					
Information:					
			312793		
3	Drawings-only black and white line drawings	MAYG_1001WOUSC3_Formals. pdf	59741ea94e27e5af83e76b189b0adef3e07 b9e10	no	13
Warnings:					
Information:					
			36667		
4	Fee Worksheet (SB06)	fee-info.pdf	9f6d4ec349342995d7e9993cdc064ae2bca a48ca	no	2
Warnings:					
Information:					
		Total Files Size (in bytes)	72	20305	

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Doc Code: Oath

Document Description: Oath or declaration filed

Permit Access to Application by Participating Offices.

PTO/AIA/08 (06-12)
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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	DECLA			UTILITY OR	Attorney Docket Number MAYG-1001-WO-US		
	D.A	*****	ESIGN Appi i	I CATION	First Named Inventor	Walter G. Mayfield	
	* .		CFR 1.		COMPLETE IF KNOWN		
	Declaration			Declaration	Application Number	15/851952	
-	Submitted With Initial Filing	OR	(⊗)	Submitted After Initial Filing (surcharge (37 CFR 1.16(f)) required)	Filing Date	December 22, 2017	
			Secure		Art Unit		
				tedances).	Examiner Name		

APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF (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. filed on December 22, 2017 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 properly 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.

[Page 1 of 2]

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to

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Page 2 of 2]

supplemental sheet(s) PTO/AIA/10 attached hereto

Additional inventors are being named on the 1

Under the Paperwork Reduction Act of 1995, no persons are required to respond

PTO/AIA/16 (66-12) Approved for use through 01/31/2014. CMB 6851-0032 U.S. Patent and Trademant Office. U.S. DEPARTMENT OF COMMERCE pand to a collection of information unless it contains a valid OMB control number. ADDITIONAL INVENTOR(S) Supplemental Sheet (for PTO/AIA 2000) st 3 SUPPLEMENTAL SHEET FOR DECLARATION Laus-

Legal Name of Additional Joint Inventor	, if any:								
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)									
Daniel Martin Valdez									
Inventor's Signature Cate (Optional)									
Kingwood Residence: City	TX State Co	US Junity							
3703 Sunny Oaks Ct.									
Mailing Address	······	····y·····							
Kingwood	Nate TX	Zip 7734	5	Country					
Legal Name of Additional Joint Inventor			,						
(E.g., Given Name (first and middle (if any)) and Fam	ily Name or Surname)								
Inventor's									
Signature	yiriin		Date (Or	otional)					
Residence: City	State	Country							
	(
Mailing Address									
Medinid Accords			***************************************						
City	State	Zip	· ·	Country					
Legal Name of Additional Joint Inventor	· if anv:	***************************************							
(E.g., Given Name (first and middle (if any)) and Fam									
free 800 control to the control to the control of t	of contract of the second								
Inventor's Signature Date (Optional)									
Was also and Mile.	State	Country							
Residence: City	1 State	f Zonna k	***************************************						
Malling Address	<u> </u>								
Gity	State	Zip		Country					

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Electronic Acknowledgement Receipt						
EFS ID:	31606391					
Application Number:	15851952					
International Application Number:						
Confirmation Number:	9301					
Title of Invention:	APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF					
First Named Inventor/Applicant Name:	Walter G. Mayfield					
Customer Number:	87627					
Filer:	Gene Tyler/Margaret A. Pruitt-Johns					
Filer Authorized By:	Gene Tyler					
Attorney Docket Number:	MAYG-1001-WO-USC3					
Receipt Date:	25-JAN-2018					
Filing Date:						
Time Stamp:	15:09:15					
Application Type:	Utility under 35 USC 111(a)					

Payment information:

Submitted with	Submitted with Payment no					
File Listing	:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)	
			913152		1	
1	Oath or Declaration filed	MAYG_1001WO_USC3_Oath_ _i to.pdf	b993e79332e3fd9e1bc49e03f3574ef2ef90 ad1e	no	3	
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1	APPLICATION	FILING or	GRP ART				
	NUMBER	371(c) DATE	UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
	15/851 952	12/22/2017		1740	MAYG-1001-WO-USC3	19	1

87627 Mossman, Kumar & Tyler PC P.O. Box 421239 Houston, TX 77242 CONFIRMATION NO. 9301 FILING RECEIPT



Date Mailed: 02/08/2018

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

Inventor(s)

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 15/597,005 05/16/2017 which is a CON of 14/343,665 07/14/2014 ABN which is a 371 of PCT/US2012/049562 08/03/2012 which claims benefit of 61/661,090 06/18/2012 and claims benefit of 61/619,229 04/02/2012 and claims benefit of 61/592,344 01/30/2012 and claims benefit of 61/576,834 12/16/2011 and claims benefit of 61/569,093 12/09/2011 and claims benefit of 61/568,031 12/07/2011 and claims benefit of 61/561,087 11/17/2011 and claims benefit of 61/555,310 11/03/2011 and claims benefit of 61/515,752 08/05/2011

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

page 1 of 4

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: 02/07/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention,

is **US 15/851,952**

Projected Publication Date: 05/17/2018

Non-Publication Request: No Early Publication Request: No

Title

APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE

THEREOF

Preliminary Class

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

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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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	FOR	NUMBE	R FILE	D NUMBE	R EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
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	MINATION FEE R 1.16(o), (p), or (q))	N	/A	1	V/A	N/A		1	N/A	760
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If th	e difference in colu	mn 1 is less th	an zero,	enter "0" in colu	mn 2.	TOTAL		1	TOTAL	1720
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				PAID FOR			FEE(\$)	1		FEE(\$)
AMENDMEN	(37 CFR 1.16(i))		Minus	***	-	X =		OR	X =	
Z ⊒	Independent (37 CFR 1.16(h))		Minus	***	_	х =		OR	X =	
₹	Application Size Fee	(37 CFR 1.16(s))						1		
	FIRST PRESENTATION	ON OF MULTIPL	E DEPEN	IDENT CLAIM (37 (CFR 1.16(j))			OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
_		(Column 1)		(Column 2)	(Column 3)	-		_		
ם ב		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONA FEE(\$)
AMENDMEN	Total * (37 CFR 1.16(i))		Minus	**	=	х =		OR	x =	
	Independent * (37 CFR 1.16(h))		Minus	***	=	х =		OR	x =	
¥ [Application Size Fee	(37 CFR 1.16(s))]		
	FIRST PRESENTATION	ON OF MULTIPL	E DEPEN	DENT CLAIM (37 (CFR 1.16(j))			OR		
								_		1

Document Description: Power of Attorney

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NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

another, the reverse recognized in the application.						
Application Numb	er	15/851952				
Filing Date		December 22, 2017				
First Named Inve	ntor	Walter G. Mayfield				
Title		APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF				
Art Unit						
Examiner Name						
Attorney Docket N	Number	MAYG-1001-WO-USC3				
SIGNATU	JRE of A	pplicant or Pate	nt Practitioner			
Signature	/Gene	L. Tyler/		Date (Optional)		
Name	/Gene	L. Tyler/		Registration Number	35,395	
Title (if Applicant is a juristic entity)						
Applicant Name (if Applicant is a juristic entity)			GUI GLOBAL PRODUCTS, LTD.			
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.						
*Total of forms are submitted.						

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Doc Code: PA.

Document Description: Power of Attorney

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POWER OF ATTORNEY BY APPLICANT

Thereby revoke all the boxes below:	previous powers of altiomay given in	the application identified in <u>either</u> the attached trai	smital letter or
	Application Number	Filing Date : .	
	point the Patent Practitioner(s) associated all trushess in the United States Patent at id trusherable letter (form PTC/AIA/82A) or point Practitioner(s) named in the attaches s in the United States Patent and Tradems	information is provided on term PTC/AIA/82A.) with the following Customer Number as myour attended Trademark Office connected therewith for the applical identified above 87627 I list (form PTC/AIA/82C) as myour attempy(s) or agent is Office connected therewith for the patent application attended above (Note Complete form PTC/AIA/82C.)	ition telenorced in
letter or the box	es above to: a associated with the above-mentioned C is associated with Customer Number	dress for the application identified in the attac	hed transmittal
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Logal Assp Assigned of Process Wil	r Person to Whom the Inventor is Under a o Otterwise Shows Sufficient Proprietary	acitated inventor (title not required below) n Obligation to Assign (provide signer's title if applicant Interest (e.g., a petition under 37 CFR 1 46(b)(2) was gr ament) (provide signer's title if applicant is a juristic entit	wated in the
		E of Applicant for Patent	
The understyres		o action behalf of the applicant (e.g., whose the applicant is	i a positic artikli
Name of the second	Walter G. Maryf Walter G. Martield		
Tale		sbal Products, Ltd., President	
NOTE: South		an accordance with 37 CFR 1.33 See 37 CFR 1.4 for signi	Ker againment

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If you need assistance in completing the form, call 1-800-770-9199 and select option (

Electronic Acknowledgement Receipt					
EFS ID:	31780393				
Application Number:	15851952				
International Application Number:					
Confirmation Number:	9301				
Title of Invention:	APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOI THE USE THEREOF				
First Named Inventor/Applicant Name:	Walter G. Mayfield				
Customer Number:	87627				
Filer:	Gene Tyler/Margaret A. Pruitt-Johns				
Filer Authorized By:	Gene Tyler				
Attorney Docket Number:	MAYG-1001-WO-USC3				
Receipt Date:	13-FEB-2018				
Filing Date:	22-DEC-2017				
Time Stamp:	16:13:53				
Application Type:	Utility under 35 USC 111(a)				

Payment information:

Submitted with Payment		no								
File Listing:										
Document Number	Document Description		File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)				
1	Power of Attorney		MAYG_1001WOUSC3_POA_82 ab_pto.pdf	1010047	no	2				
		MA		cfc90604030f36beb1ace2e0571e58ec0c9f 9259						
Warnings:										

Information:	
Total Files Size (in bytes):	1010047

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
PALEAR Alexandria, Virginia 22313-1450
www.uspto.gov

FILING OR 371(C) DATE FIRST NAMED APPLICANT APPLICATION NUMBER ATTY. DOCKET NO./TITLE 15/851,952 12/22/2017

Walter G. Mayfield MAYG-1001-WO-USC3 **CONFIRMATION NO. 9301**

POA ACCEPTANCE LETTER

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

Date Mailed: 02/16/2018

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/13/2018.

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

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

/vnguyen/

page 1 of 1



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

15/851,952 12/22/2017 Walter G. Mayfield

MAYG-1001-WO-USC3
CONFIRMATION NO. 9301

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



PUBLICATION NOTICE

Title: APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF

Publication No.US-2018-0133759-A1 Publication Date:05/17/2018

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

Doc code: PET.OP.AGE

Description: Petition to make special based on Age/Health

PTO/SB/130 (07-06)

Special based on Age/Health

Approved for use through 07/31/2012, OMB 0551-0031

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

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

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PET	ITION TO MAKE SPEC	IAL BASED ON AG UNDER 37 CFR			NT OF E	XAM	INATION		
		Application I	nforma	ation					
Application Number	15851952	Confirmation Number	9301		Filing Date		2017-12-22		
Attorney Docket Number (optional)	" 1000 Y 1 = 1000 1 100 1 150 151 A 64 1 150				Examin	ner	CAMPBELL		
First Named Inventor	M/latter G. Maytield								
Title of Invention	APPARATUS FOR CLE	ANING VIEW SCREE	NS ANI	D LENSES AND M	ETHOD F	FOR T	HE USE THEREOF		
years of age, or more APPLICANT HEREE UNDER 37 CFR 1.1	be made special for ad- re. No fee is required w	ith such a petition. S KE SPECIAL FOR A 8.02 (IV) ON THE B	See <u>37</u> ADVAN	CFR 1.102(c)(1)	and MPI (AMINA)	EP 70 FION	g that the applicant is 65 8.02 (IV). IN THIS APPLICATION		
(1) Statement by on (2) Certification by a	e named inventor in the registered attorney/ag I inventor in the applica	e application that he ent having evidence	such a	as a birth certifica			driver's license, etc.		
Name of Inventor v	vho is 65 years of age	, or older							
Given Name	Middle Na	me	Family	Name		Suff	ix		
Daniel			VALDE	 Z					
	pplicant or representati 1.4(d) for the format of		ordanc	e with 37 CFR 1	.33 and 1	10.18			
(1) I am an invento	r in this application and I a	arn 65 years of age, or	more.						
	y or agent registered to pr retain such in the applicati								
Signature	/Gene L. Ty	ler/	Date (YYYY-MM-DD)))	2018-	08-22		
Name	Gene L. Tyle	r		Registration Number		35395	5		

Doc code: PET.OP.AGE

Description: Petition to make special based on Age/Health pecial based on Age/Health
Approved for use through 97/31/2012, OMB 0551-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

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 the Fr eedom of Information Act requires disclosure of these records.
- 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.
- 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).
- 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.
- 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)).
- 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 indivi duals.
- A record from this system of records may be disclosed, as a routine use, to the public after either publication of 8. the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
- 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.

EFSWeb 1.0.18

Electronic Acknowledgement Receipt					
EFS ID:	33506432				
Application Number:	15851952				
International Application Number:					
Confirmation Number:	9301				
Title of Invention:	APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF				
First Named Inventor/Applicant Name:	Walter G. Mayfield				
Customer Number:	87627				
Filer:	Gene Tyler/Margaret A. Pruitt-Johns				
Filer Authorized By:	Gene Tyler				
Attorney Docket Number:	MAYG-1001-WO-USC3				
Receipt Date:	22-AUG-2018				
Filing Date:	22-DEC-2017				
Time Stamp:	15:17:48				
Application Type:	Utility under 35 USC 111(a)				

Payment information:

Submitted with Payment			no						
File Listin	File Listing:								
Document Number	Document Description		File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)			
				71616					
1	Petition to make special based on Age/ Health	MA	AYG_1001WOUSC3_Petition MakeSpecial_pto.pdf	ef2409e945e49b803e7031b69d21be171e4 4a590	no	2			
Warnings:									

Information:	
Total Files Size (in bytes):	71616

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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.

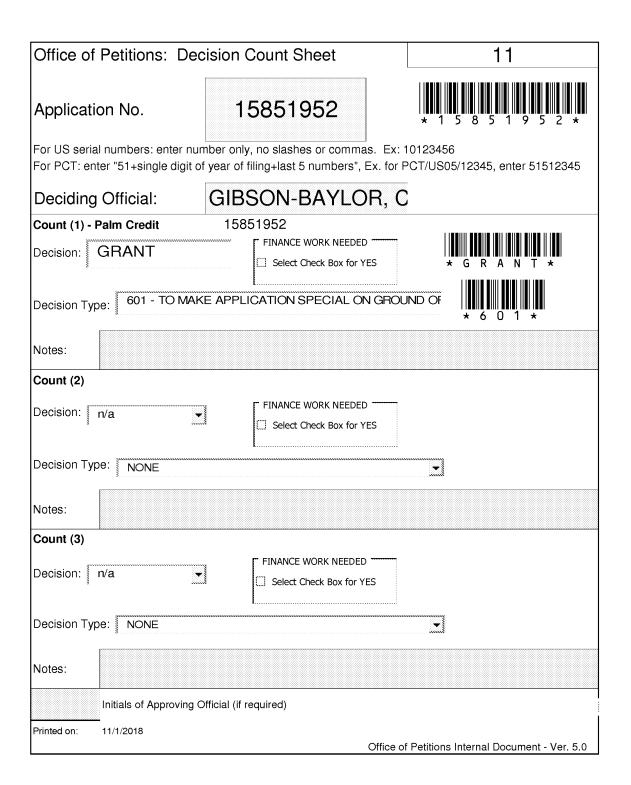
Office of Petitions: Routing Sheet



Application No. 15851952

This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application, as indicated below. For details of this decision, please see the document PET.OP.DEC filed on the same date as this document.

> **X** GRANTED **DISMISSED DENIED**





UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/851,952	12/22/2017	Walter G. Mayfield	MAYG-1001-WO-USC3	9301
87627 Mossman, Kum	7590 11/05/201 nar & Tyler PC	8	EXAM	IINER
P.O. Box 42123 Houston, TX 77	39		HAUGHTON, ANT	THONY MICHAEL
,			ART UNIT	PAPER NUMBER
			2835	
			NOTIFICATION DATE	DELIVERY MODE
			11/05/2018	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

PTOL-90A (Rev. 04/07)

UNITED STATES PATENT AND TRADEMARK OFFICE



Commissioner for Patents United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 www.usplo.gov

In re Application of

WALTER G. MAYFIELD, ET AL.

Application No.: 15/851,952 : DECISION ON PETITION Filed: December 22, 2017 : TO MAKE SPECIAL UNDER

Attorney Docket No.: MAYG-1001-WO-USC3 : 37 CFR 1.102(c)(1)

This is a decision on the petition under 37 CFR 1.102(c)(1), filed August 22, 2018, to make the above-identified application special based on applicant's age as set forth in MPEP §708.02, Section IV.

The petition is **GRANTED**.

A grantable petition to make an application special under 37 CFR 1.102(c)(1) and MPEP §708.02, Section IV: Applicant's Age must be accompanied by evidence showing that at least one of the applicants is 65 years of age, or more, such as a birth certificate or a statement by applicant. No fee is required

The instant petition includes a statement from the attorney of record declaring that he is in possession of such evidence that proves the applicant is 65 years of age or older. Accordingly, the above-identified application has been accorded "special" status.

Telephone inquiries concerning this decision should be directed to Cheryl Gibson-Baylor at (571) 272-3213.

All other inquiries concerning either the examination or status of the application should be directed to the Technology Center.

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

/Cheryl Gibson-Baylor/ Cheryl Gibson-Baylor Petitions Paralegal Specialist Office of Petitions

United States Patent and Trademark Office



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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/851,952	12/22/2017	Walter G. Mayfield	MAYG-1001-WO-USC3	9301
87627 Mossman, Kum	7590 01/02/201 par & Tyler PC	9	EXAM	IINER
P.O. Box 42123	39		HAUGHTON, ANT	THONY MICHAEL
Houston, TX 7	7242		ART UNIT	PAPER NUMBER
			2835	
			NOTIFICATION DATE	DELIVERY MODE
			01/02/2019	FLECTRONIC

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

PTOL-90A (Rev. 04/07)

	Application No. 15/851,952	Applicant(s) Mayfield et al.	
Office Action Summary	· ·		
omoc Aonon Cammary	Examiner ANTHONY M HAUGHTON	Art Unit 2835	AIA Status No
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the co	orrespondenc	e address
A SHORTENED STATUTORY PERIOD FOR REPLY	' IS SET TO EXPIRE <u>3</u> MONTHS	S FROM THE	MAILING
DATE OF THIS COMMUNICATION.		all sile die die OIV //	C) MONTHO from the consilient
 Extensions of time may be available under the provisions of 37 CFR 1.13 date of this communication. 		,	,
 If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing adjustment. See 37 CFR 1.704(b). 	cause the application to become ABANDONEI	D (35 U.S.C. § 133)).
Status			
1) Responsive to communication(s) filed on 2/8/20			
A declaration(s)/affidavit(s) under 37 CFR 1.1	· ·		
•	This action is non-final.		
An election was made by the applicant in respo ; the restriction requirement and election			g the interview on
4) Since this application is in condition for allowan closed in accordance with the practice under E			the merits is
Disposition of Claims*			
5) Claim(s) 1-19 is/are pending in the application	ation.		
5a) Of the above claim(s) is/are withdraw	vn from consideration.		
6) Claim(s) is/are allowed.			
7) Claim(s) 1-19 is/are rejected.			
8) Claim(s) is/are objected to.			
9) Claim(s) are subject to restriction and	or election requirement		
f any claims have been determined <u>allowable</u> , you may be eliq		secution Highy	way program at a
participating intellectual property office for the corresponding ap	_	_	
http://www.uspto.gov/patents/init_events/pph/index.jsp or send	an inquiry to PPHfeedback@uspto.	.gov.	
Application Papers			
10) The specification is objected to by the Examiner	r.		
11) ✓ The drawing(s) filed on 12/22/2017 is/are: a) ✓		by the Examir	ner
Applicant may not request that any objection to the dr		=	
Replacement drawing sheet(s) including the correction	= : :		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign Certified copies:	priority under 35 U.S.C. § 119(a))-(d) or (f).	
a) ☐ All b) ☐ Some** c) ☐ None of the	ə:		
1. Certified copies of the priority docume			
2. Certified copies of the priority docume		ation No.	
3. ☐ Copies of the certified copies of the pr	• •		
application from the International Bure		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ational Stago
** See the attached detailed Office action for a list of the certific	ed copies not received.		
Attachment(s)			
1) V Notice of References Cited (PTO-892)	3) Interview Summary	(PTO-413)	
Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SI Paper No(s)/Mail Date	B/08b) Paper No(s)/Mail Da 4) Other:	ate	

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-13)

Office Action Summary

Part of Paper No./Mail Date 20181226

Art Unit: 2835

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

(a)(2) the claimed invention was described in a patent issued under section 151, or in an application for patent published or deemed published under section 122(b), in which the patent or application, as the case may be, names another inventor and was effectively filed before the effective filing date of the claimed invention.

Claim(s) 1-3, 6, 7, 11-13, 16, 18, and 19 is/are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Rothbaum (2011/0192857).

Regarding Claim 1: Rothbaum teaches a system comprising: a portable switching device (108 or other device from other embodiments) coupled to a portable electronic device (figs. 1-2 and paragraph [0138]); wherein: the switching device and the electronic device are configured to selectively couple to each other employing magnetic force (paragraph [0009]) from a first magnet disposed within the switching device (figs. 1-2); the switching device comprises a first case (case holding 108 or other device from other embodiments); the electronic device comprises a second case (figs. 1-2) and an electronic circuit that is responsive to the switching device (figs. 31-34 and 61a-61b); 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 (figs. 1-2 and 31-34 and 61a-61b); configured to correspond to complimentary surface elements on the switching device (Figs. 1-2); and when coupled, the second case functions to protect the first case (figs. 1-2).

Regarding Claim 2: Rothbaum teaches the electronic device has a lens (paragraph [0006]).

Regarding Claim 3: Rothbaum teaches the electronic device has a view screen (paragraph [0006]).

Regarding Claim 6 Rothbaum teaches the electronic device includes a lid (figs. 29a-30) and hinge (figs. 29a-30) attaching the lid to the electronic device (figs. 29a-30).

Regarding Claim 7: Rothbaum teaches the lid is recessed (through back in fig. 30) to configure to the switching device (figs. 29a-30).

Regarding Claim 11: Rothbaum teaches the switching device has a tab or knob configured to be manipulated by an external force (figs. 31-34 and 61a-61b).

Regarding Claim 12: Rothbaum teaches a surface of the first case is composed of a material nonabrasive to the lens (paragraph [0145]).

Regarding Claim 13: Rothbaum teaches a surface of the first case is composed of a material nonabrasive to the lens (paragraph [0145]).

Regarding Claim 16: Rothbaum teaches the first magnet is employed in actuating the electronic circuit (figs. 61a-61b actuate the powering circuit).

Regarding Claim 18: Rothbaum teaches the switching device additionally comprises a laser (paragraph [0178]).

Regarding Claim 19: Rothbaum teaches the switching device can be employed to perform at least one function selected from the group consisting of control volume, pause, play, next slide, switch on, switch off, and combinations thereof, to an electronic device (the battery device of figs. 61a-61b, allow for the switching on and off of the device due to power loss or gain).

Claim Rejections - 35 USC § 103

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory

basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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

A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4, 5, 14, and 15 is/are rejected under 35 U.S.C. 103 as being unpatentable over Rothbaum (2011/0192857) as applied to the claims above, and further in view of Bliven (2008/0103637).

Regarding Claim 4: Rothbaum lacks a specific teaching of the switching device has a lens.

Bliven teaches the switching device (150) has a lens (fig. 1).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Rothbaum by having the switching device has a lens in order to allow for the user to use the switching device to still see the display of the portable electronic device but also to use the switching device in multiple different ways making the electronic device more versatile.

Regarding Claim 5: Rothbaum lacks a specific teaching of the switching device has a view screen. Bliven teaches the switching device (165) has a view screen (fig. 1).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Rothbaum by having the switching device has a view screen in order to allow for the user to use the switching device to still see the display of the portable electronic device but also to use the switching device in multiple different ways making the electronic device more versatile.

Regarding Claim 14: Rothbaum teaches a surface of the first case is composed of a material nonabrasive to the lens (paragraph [0145]).

Regarding Claim 15: Rothbaum teaches a surface of the first case is composed of a material nonabrasive to the lens (paragraph [0145]).

Claims 8, 9, and 17 is/are rejected under 35 U.S.C. 103 as being unpatentable over Rothbaum (2011/0192857) as applied to the claims above.

Regarding Claim 8: Rothbaum lacks a specific teaching of the lid has a second magnet (5704) disposed within it.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Rothbaum by having the lid has a second magnet disposed within it in order to allow for a better more secure connection between the device and the portable electronic device decreasing the chances of damage to the device wherein this would be accomplished merely by relocating the already disclosed elements of the apparatus and it has been held that rearranging already disclosed parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

Regarding Claim 9: Rothbaum lacks a specific teaching of the lid is configured to employ the second magnet (5704) to secure the lid in a closed position.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Rothbaum by having the lid is configured to employ the second magnet to secure the lid in a closed position in order to allow for a better more secure connection between the device and the portable electronic device decreasing the chances of damage to the device wherein this would be accomplished merely by relocating the already disclosed elements of the apparatus and it has been held that rearranging already disclosed parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

Regarding Claim 17: Rothbaum lacks a specific teaching of the second (5704) or a third magnet (other 5704) is employed in the lid to actuate the electronic circuit.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Rothbaum by having the second or a third magnet is employed in the lid to actuate the electronic circuit in order to allow for a better more secure connection between the device and the portable electronic device decreasing the chances of damage to the device wherein this would be accomplished merely by relocating the already disclosed elements of the apparatus and it has been held that rearranging already disclosed parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

Claim 10 is/are rejected under 35 U.S.C. 103 as being unpatentable over Rothbaum (2011/0192857) as applied to the claims above, and further in view of Abramov (2005/0107131).

Regarding Claim 10: Rothbaum lacks a specific teaching of the switching device is wireless earplugs.

Abramov teaches the switching device is wireless earplugs (figs. 1-3).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Rothbaum by having the switching device is wireless earplugs in order to allow the user an easier way to store and access wireless earplugs to use with the portable electronic device.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANTHONY MICHAEL HAUGHTON whose telephone number is (571)272-9087. The examiner can normally be reached on M-F 8a-4p.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jinhee Lee can be reached on 571-272-1977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835

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		Notice of Reference	s Citea				Art Unit 2835	Page 1 of 1
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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)

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Part of Paper No. 20181226

Search Notes		15
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Application/Control No.		Applicant(s)/Patent Under Reexamination
	15/851,952	Mayfield et al.
	Examiner	Art Unit
	ANTHONY M HAUGHTON	2835

CPC - Searched*				
Symbol	Date	Examiner		
g06f1/32,16,1601,1603,1605,1607,1609,1611	12/26/2018	АМН		
B08B1/006,002	12/26/2018	АМН		

CPC Combination Sets - Searched*					
Symbol Date Examiner					

US Classification - Searched*				
Class Subclass Date Examine				
361	679.01, 679.02	12/26/2018	АМН	

^{*} 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)	12/26/2018	AMH		
INVENTOR SEARCH	12/26/2018	АМН		
IP.COM SEARCH	12/26/2018	АМН		
CLASSIFICATION SEARCH IN COMBINATION WITH TEXT SEARCH	12/26/2018	AMH		

Interference Search					
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner		

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	

U.S. Patent and Trademark Office

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EAST Search History

EAST Search History (Prior Art)

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S84	1721	361/679.58.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:14
S85	5374	S79 S80 S81 S82 S83 S84	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:14
S86	4774	349/58.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:14
S87	274	349/59. CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:14
S88	677	349/60.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:14
S89	5149	S86 S87 S88	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:14
S90	3401	G06F1/1601.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:14
S91	569	G06F1/1607.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:14
S92	409	G06F1/1633.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:14
S93	4275	S90 S91 S92	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:14
S94	226	(("RICHARD") near3 ("Owen")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:15
S95	36	(("BASSETT") near3 ("Jonathan")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:15
S96	73	(("QUIJANO") near3 ("David")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 02:15
S97	3401	g06F1/1601.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 13:02
S98	569	g06F1/1607.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 13:03

S99	409]g06F1/1633.CPC.	US-	OR	OFF	2016/08/08
399	409	gv6F1/1633.0F0.	PGPUB; USPAT; USOCR	On	OFF	13:03
S100	538	361/679.22.COLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 13:03
S101	1718	361/679.21, CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 13:03
S102	676	361/679.3. CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 13:03
S103	1036	361/679.56.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 13:03
S104	520	361/679.57.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 13:03
S105	1721	361/679.58.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 13:03
S106	4774	349/58.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 13:03
S107	274	349/59.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 13:03
S108	677	349/60.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/08/08 13:03
S109	1	"5157585".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 00:24
S110	14	("20030063432" "20060038104" "20070058329" "20070152125" "20080013268" "20110025943" "20110058326" "4736332" "5157585" "5633782" "6359775" "6935661" "7601067" "7835150").PN.	US- PGPUB; USPAT	OR	OFF	2016/12/24 00:24
S111	34	("2003/0063432").URPN.	USPAT	OR	OFF	2016/12/24 00:31
S112	14	("20030063432" "20060038104" "20070058329" "20070152125" "20080013268" "20110025943" "20110058326" "4736332" "5157585" "5633782" "6359775" "6935661" "7601067" "7835150").PN. OR ("9092200").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 00:32
S113	4	("2006/0133016").URPN.	USPAT	OR	OFF	2016/12/24 00:36
S114	1	"20060133016"	USPAT	OR	OFF	2016/12/24 00:40
S115	2	"20060133016"	US- PGPUB; USPAT	OR	OFF	2016/12/24 00:40
S116	1	"20030063432"	US- PGPUB; USPAT	OR	OFF	2016/12/24 00:40
S117	3	S115 S116	US- PGPUB; USPAT	OR	OFF	2016/12/24 00:40
S118	9	("20030090864" "20030227739" "20040232298" "20050127253" "7061753").PN. OR ("7274557").URPN.	US- PGPUB;	OR	OFF	2016/12/24 00:42

			USPAT; USOCR		***************************************	
S119	41	("20040011932" "20040012917" "20050157457" "20070076358" "20070146979" "5007608" "5276589" "5812368" "6134103" "6189842" "6288891" "6381125" "6464195" "6543734" "6766994" "6778196" "6822857" "6873521" "6874743" "6954221" "6969037" "6987666" "7061753" "7068497" "7124984" "7180731" "7198240" "7245481" "7251127" "7255317" "7274557" "7286342" "7287729" "7775494" "7798457" "8050024" "8052102" "8132765").PN. OR	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 00:43
6120	1	"20030063432"	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 00:50
3121	37	"4736332"	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/2 00:52
3122	1	"4736332".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/2 ² 00:52
3123	12	("20020105793" "20030077453" "20050259438" "20080230177" "20110182084" "20110188846" "20130213565" "3441398" "3798013" "6287674" "8013834" "8824140").PN.	US- PGPUB; USPAT	OR	OFF	2016/12/2 ⁴ 01:16
S124	16	("20030077453" "20080230177" "3798013" "20150077624" "20150331444" "20130213565" "8013834" "20050259438" "8824140" "20110188846" "20020105793" "3441398" "20110182084" "6287674" "9125298").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/2 ² 01:16
3125	11	S124 and glass	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:16
3126	228	["20020035853" "20020155302" "20020157199" "20030024274" "20030057183" "20030234771" "20040051944" "20040119701" "200401142118" "20040163414" "200500548423" "20050105071" "20050135724" "20050193772" "20050245165" "20050285991" "20060026521" "20060055936" "20060070694" "20060097991" "20060197753" "20060227331" "20060238695" "20060250559" "20060268528" "200602292822" "2007003796" "20070013822" "20070029519" "20070030436" "20070039353" "20070046200" "20070063876" "20070236618" "20080026260" "20080074028" "20070196578" "20070236618" "20080026260" "20080074028" "20080094716" "20080135175" "2008026260" "20080074028" "20080243321" "20080258603" "20080261057" "20080264176" "20080286548" "20090153729" "20090162703" "20090197048" "2009096937" "20090153729" "20090162703" "20090197048" "20090228808" "20090324939" "2010009154" "2010028607" "20100053632" "20100062284" "20100119846" "20100137031" "20100154992" "20100167059" "20100171920" "20100179044" "20100260088" "20100279067" "20100216514" "20100296027" "201100154992" "2011001331305" "2011003619" "201100128731" "201100154992" "20110013346" "2011003619" "201100183731" "201100154992" "20110013346" "2011003619" "201100183731" "201100154992" "20110013466" "20110159321" "20110018473" "201100154992" "20110013466" "20110159321" "20110018323" "201100186345") PN. OR ("20110199687" "20110248152" "20110018323" "201100186366" "201101627868" "20110030090" "201100182573" "201100186366" "201101682899" "201100154902" "201101882859" "20120281381" "201202328843" "2012015400" "20120118628" "20120281381" "301203288439" "2012015400" "201201882259" "3058415" "36607172" "36192400" "36522444" "3753840" "4872896" "4911743" "4897129" "4957364" "4955548" "4983197" "4886130" "5041173" "5819240" "38166225" "5815574" "5160523" "5254149" "5269888"	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/2· 01:19

S127	227	"5880411" "5930047" "5953094" "5985014" "6050870" "6120908" "6166915" "6188391" "6245313" "6307590" "6310610" "6323846" "6325704" "6327011" "6350664" "6393180" "6429840" "6437867" "6516634" "6521862" "6621542" "6690387" "6718612" "6769274" "6810688" "6936741" "6955971" "6996324" "7012700" "7013709" "7015894" "7070837" "7184064" "7461564").PN. OR ("7558054" "7626807" "7663607" "7810355" "7872644" "7918019" "8110268" "8111248" "8312743" "8393175" "8551283" "8673163" "8684613").PN. OR ("9125298").URPN.	US- PGPUB;	OR	OFF	2016/12/24 01:20
			USPAT; USOCR			
S128	193	S127 and glass	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:20
S129	59	S127 and (glass near2 (hous\$3 or chassis or cas\$3 or enclosure))	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:20
S130)		"20010034222" "200100536464" "20020036853" "20020157199" "20020195562" "20030024274" "2003010275" "20030183448" "20040196607" "20040253014" "20060102229" "20040183414" "20040196607" "20040224638" "20050052425" "20050153724" "20050193772" "200600255493" "20060076694" "20060227331" "20060238695" "200600255493" "200600268528" "20070013822" "20070029519" "20070030436" "20070236618" "20080059680" "20080074028" "200800264176" "20080202167" "20080263321" "2008002607605" "20080264176" "20080266548" "20090011803" "2009006657" "200802667618" "200900657141" "20090096937" "2009001537299" "20090197048" "20090220808" "20090227619" "2009024744" "200900257189" "2009024240" "20100028607" "200903249399" "20100009154" "20100014232" "2010024607" "2010044070 "2010044070 "2010044070 "2010044070 "2010044070 "2010044070 "2010044070 "2010044070 "2010044070 "2010044070 "2010044070	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:21
S131	55	S130 and (glass near2 (hous\$3 or chassis or cas\$3 or enclosure))	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:22

(100)	00	Section 64.04	Sluc.	OR	NOTE	10010/10/04
S132	80	S129 S131	US- PGPUB; USPAT; USOCR	OH	OFF	2016/12/24 01:22
S133	674	361/679.3.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:22
S134	2234	361/679.55.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:22
S135	1033	361/679.56.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:22
S136	5111	361/679.21-679.29.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:22
S137	7795	S133 S134 S135 S136	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:22
S138	125	S137 and (glass near2 (hous\$3 or chassis or cas\$3 or enclosure))	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:22
S139	120	S138 and display	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:23
S140	3	"9125298"	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:36
S141	1	"9125298".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 01:36
S142	13	("20020070275" "20040056088" "20070279852" "20120194976" "20130107674" "20130120459" "20130222270" "20130234850" "20140077946" "20140188516" "20150241914" "20150241922" "6142368" "20020070275" "20040056088" "20070279852" "20120194976" "20130120459" "20130222270" "20140077946").PN.	US- PGPUB; USPAT	OR	OFF	2016/12/24 01:51
S143	267	haughton.xa.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 12:47
S144	790	haughton.xp.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 12:47
S145	1057	S143 S144	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 12:47
S146	5396	361/679.01.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 12:47
S147	137	S145 and S146	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 12:47
S148	28	S147 and charg\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 12:47

-		80		N	N	31
S149	1145	361/679.32.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 12:48
S150	28	S145 and S149	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 12:48
S151	2	S150 and charg\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 12:48
S152	30	S148 S151	US- PGPUB; USPAT; USOCR	OR	OFF	2016/12/24 12:48
S153	49	(US-20090168321-\$ or US-20060274487-\$ or US-20060133016-\$ or US-20110058326-\$ or US-20110025943-\$ or US-20030063432-\$ or US-20060038104-\$ or US-20050157457-\$ or US-20040012917-\$ or US-20120194976-\$ or US-20070279852-\$).did. or (US-8400767-\$ or US-8081435-\$ or US-8081429-\$ or US-7898796-\$ or US-7869200-\$ or US-7724511-\$ or US-7450372-\$ or US-7298610-\$ or US-6219229-\$ or US-8576554-\$ or US-8373976-\$ or US-8218303-\$ or US-7846026-\$ or US-7601067-\$ or US-6049449-\$ or US-5430607-\$ or US-5351176-\$ or US-5305183-\$ or US-5175672-\$ or US-5157585-\$ or US-5107402-\$ or US-5021763-\$ or US-4980676-\$ or US-4832419-\$ or US-8335089-\$ or US-8313072-\$).did. or (US-7267613-\$ or US-6504706-\$ or US-5640296-\$ or US-5631805-\$ or US-7002793-\$ or US-6504706-\$ or US-5761034-\$ or US-6736332-\$ or US-8387930-\$ or US-8052102-\$ or US-8050024-\$ or US-7775494-\$).did.	US- PGPUB; USPAT	OR	OFF	2017/03/02 10:33
S154	0	S153 and (all near3 one)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 10:34
S155	1	"20040012917"	US- PGPUB; USPAT	OR	OFF	2017/03/02 10:49
S156	1	"7775494".pn.	US- PGPUB; USPAT	OR	OFF	2017/03/02 10:49
S157	1	"20050157457"	US- PGPUB; USPAT	OR	OFF	2017/03/02 10:49
S158	3	S155 S156 S157	US- PGPUB; USPAT	OR	OFF	2017/03/02 10:49
S159	0	S158 and (cpu or processor)	US- PGPUB; USPAT	OR	OFF	2017/03/02 10:55
S160	23	S153 and (cpu or processor)	US- PGPUB; USPAT	OR	OFF	2017/03/02 10:55
S161	16	S153 and (cpu)	US- PGPUB; USPAT	OR	OFF	2017/03/02 10:55
S162	14	S153 and (motherboard or (mother near board) or (main near board))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 11:08
S163	6	S162 and (cpu or (central near3 process\$3))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 11:08
S164	4	S163 and (batter\$3 or (power near suppl\$3))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 11:08
S165	4	S164 and (memor\$3 or RAM\$1)	US- PGPUB; USPAT;	OR	OFF	2017/03/02 11:08

l			USOCR			
S166	1	"4736332".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 11:11
S167	1	"20040012917"	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/04 14:37
S168	1	"8387930".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/04 14:37
S169	1	"5631805".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/04 14:37
S170	1	"20110025943"	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/04 14:37
S171	4	S167 S168 S169 S170	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/04 14:37
S172	1	"8971023".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/04 15:49
S173	1	"8397930".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/05/18 14:16
S174	1	"5631805".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/05/18 14:16
S175	2	S173 S174	US- PGPUB; USPAT; USOCR	OR	OFF	2017/05/18 14:16
S176	1	"8387930".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/05/18 14:17
S177	2	S174 S176	US- PGPUB; USPAT; USOCR	OR	OFF	2017/05/18 14:17
S178	1	"20110025943"	US- PGPUB; USPAT; USOCR	OR	OFF	2017/05/18 14:18
S179	6	("20040012917" "20050157457" "20110025943" "5631805" "7775494" "8387930").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/05/18 14:20
S180	5	("4736332" "5157585" "5633782" "6359775" "7601067").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/05/18 14:20
S181	11	S179 S180	US- PGPUB; USPAT; USOCR	OR	OFF	2017/05/18 14:20
S182	0	S181 and gas	US- PGPUB; USPAT; USOCR	OR	OFF	2017/05/18 14:20

S183	49	(US-20090168321-\$ or US-20060274487-\$ or US-20060133016-\$ or US-20110058326-\$ or US-20110025943-\$ or US-20030063432-\$ or US-20060038104-\$ or US-20050157457-\$ or US-20040012917-\$ or US-20120194976-\$ or US-20070279852-\$). did. or (US-8400767-\$ or US-8081435-\$ or US-8081429-\$ or US-7898796-\$ or US-7869200-\$ or US-7724511-\$ or US-7450372-\$ or US-7298610-\$ or US-6219229-\$ or US-8576554-\$ or US-8373976-\$ or US-8218303-\$ or US-7846026-\$ or US-7601067-\$ or US-6049449-\$ or US-5430607-\$ or US-5351176-\$ or US-5305183-\$ or US-5175672-\$ or US-5157585-\$ or US-5107402-\$ or US-5021763-\$ or US-4980676-\$ or US-4832419-\$ or US-8335089-\$ or US-8313072-\$). did. or (US-7267613-\$ or US-6504706-\$ or US-5640296-\$ or US-5631805-\$ or US-7002793-\$ or US-6504706-\$ or US-5761034-\$ or US-6736332-\$ or US-8387930-\$ or US-8052102-\$ or US-8050024-\$ or US-7775494-\$). did.	US- PGPUB; USPAT	OR	OFF	2017/05/18 14:21
S184	4	S183 and gas	US- PGPUB; USPAT; USOCR	OR	OFF	2017/05/18 14:21
S185	3	S177 S178	US- PGPUB; USPAT; USOCR	OR	OFF	2017/05/18 14:28
S186	3686	G06F1/1601.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:25
S187	630	G06F1/1607.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:25
S188	512	G06F1/1633.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:25
S189	1716	361/679.21.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:25
S190	538	361/679.22.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:25
S191	674	361/679.3.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:25
S192	1034	361/679.56.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:25
S193	520	361/679.57.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:25
S194	1720	361/679.58.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:25
S195	979	361/679.26.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:25
S196	4703	S186 S187 S188	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:27
S197	6052	S189 S190 S191 S192 S193 S194 S195	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:27

			,,			
S198	234	(("RICHARD") near3 ("Owen")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:27
S199	39	(("BASSETT") near3 ("Jonathan")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:28
S200	75	(("QUIJANO") near3 ("David")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:28
S201	316	S198 S199 S200	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:31
S202	4456	S197 and display	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:32
S203	4334	S196 and display	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:32
S204	940	S202 and (stand)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:32
S205	1514	S203 and (stand)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:32
S206	812	S204 and (hous\$3 or cas\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:32
S207	1347	S205 and (hous\$3 or cas\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:33
S208	152	S206 and (lift or lift\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:33
S209	221	S207 and (lift or lift\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:33
S210	340	S208 S209	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:33
S211	7	S206 and ((lift or lift\$3) near3 assist\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:34
S212	3	S207 and ((lift or lift\$3) near3 assist\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:34
S213	8	S211 S212	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 11:34
S214	4	(("MASTROCOLA") near3 ("Naison")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:06
S215	403	(("HAMILTON") near3 ("SUNDSTRAND") near3 ("CORPORATION")).AANM.	USPAT	OR	OFF	2017/06/26

l						12:06
S216	576	H05K13/04.cpc	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:07
S217	88	H05K7/1402.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:07
S218	306	H05K7/1404.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:07
S219	107	H05K7/1407.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:07
S220	217	H05K7/1408.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:07
S221	660	H05K7/1409.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:07
S222	2362	403/373-374.5.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:12
S223	1720	361/679.58.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:12
S224	395	361/679.59.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:12
S225	1341	361/679.31.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:13
S226	1147	361/679.32.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:13
S227	5038	361/704.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:13
S228	437	361/721.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:13
S229	2926	361/719.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:13
S230	11184	S223 S224 S225 S226 S227 S228 S229	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:16
S231	2362	S222	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:16
S232	1892	S216 S217 S218 S219 S220 S221	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:16

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S233	9	S230 and (linear near actuator\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:17
S234	683	S230 and (linear near actuator\$1)S191	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:17
S235	1	S193 and (linear near actuator\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:18
S236	4	S231 and (linear near actuator\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:18
S237	7	S232 and (linear near actuator\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:18
S238	19	S233 S236 S237	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:18
S239	442	S230 and (wedge)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:18
S240	569	S231 and (wedge)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:19
S241	223	S232 and (wedge)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:19
S242	44	S239 and ((first and second) near2 direction\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:19
S243	50	S240 and ((first and second) near2 direction\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:19
S244	43	S241 and ((first and second) near2 direction\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:19
S245	126	S242 S243 S244	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:19
S246	371	\$240 and (lock\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:21
S247	154	S241 and (lock\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:21
S248	234	\$239 and (lock\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:21
S249	1	S246 and (mount\$3 near plane\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:21
S250	2	S247 and (mount\$3 near plane\$1)	US-	OR	OFF	2017/06/26

			PGPUB; USPAT; USOCR		***************************************	12:21
S251	0	S248 and (mount\$3 near plane\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:21
S252	0	S239 and (mount\$3 near plane\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:22
S253	1	S240 and (mount\$3 near plane\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:22
S254	2	S241 and (mount\$3 near plane\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:22
S255	3	S249 S250 S251 S252 S253 S254	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:22
S256	711	S246 S247 S248	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:22
S257	384	S256 and parallel	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:22
S258	202	S257 and (driv\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:22
S259	21	S258 and actuator\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:23
S260	20	S259 and axis	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 12:23
S261	5598	361/679.21-679.3.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:08
S262	2237	361/679.55.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:08
S263	1034	361/679.56.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:08
S264	252	359/263.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:09
S265	1847	G06F1/1652.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:09
S266	692	h01 41/29.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:09
S267	696	h01l41/047.cpc.	US- PGPUB;	OR	OFF	2017/06/26 13:09

			USPAT; USOCR			
S268	514	h01l51/5225.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:09
S269	728	h01l51/5209.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:09
S270	8553	h01l51/56.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:09
S271	12410	S265 S266 S267 S268 S269 S270	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:10
S272	8055	S261 S262 S263 S264	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:10
S273	7	(("CHOI") near3 ("Seulgi")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:10
S274	11	(("CHOI") near3 ("Suseok")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:10
S275	2	(("HAM") near3 ("Yongsu")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:10
S276	9	(("KIM") near3 ("Taeheon")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:10
S277	29	(("LEE") near3 ("Yongwoo")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:10
S278	7	(("LIM") near3 ("Myungjin")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:10
S279	35	S273 S274 S275 S276 S277 S278	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:13
S280	11452	S271 and layer\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:18
S281	1916	S272 and layer\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:18
S282	10061	S280 and (electrode\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:19
S283	554	S281 and (electrode\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:19
S284	9513	S282 and (first and second)	US- PGPUB; USPAT;	OR	OFF	2017/06/26 13:19

			USOCR	*****	***	
S285	503	S283 and (first and second)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:19
S286	5774	S280 and ((first and second) near2 (electrode\$1))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:19
S287	113	S281 and ((first and second) near2 (electrode\$1))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:20
S288	91	S286 and precipitat\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:20
S289	145	S286 and precipitate\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:20
S290	3	S287 and precipitate\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:20
S291	4	S287 and precipitat\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:20
S292	190	S286 and precipitat\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:21
S293	69	S292 and (conductive near2 material)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:21
S294	1	S292 and ((conductive near2 material) near4 (precipitat\$3))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:21
S295	0	S291 and ((conductive near2 material) near4 (precipitat\$3))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:21
S296	0	S287 and ((conductive near2 material) near4 (precipitat\$3))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:21
S297	3	S292 and ((electro near active) near3 layer\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:22
S298	23	((precipitates) near2 (conductive near material\$1))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:27
S299	1	S297 and ((precipitates) near2 (conductive near material\$1))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:30
S300	11	(("HO") near3 ("CHI-CHUNG")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:32
S301	126	(("LIN") near3 ("CHUN-CHENG")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:32

COOO	1100	Coop coot	US-	OR	NOFF.	0017/00/00
S302	136	\$300 \$301	PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:32
S303	704	G06F1/1618.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:47
S304	1610	G06F1/1624.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:47
S305	1971	G06F1/1662.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:47
S306	725	G06F1/1669.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:47
S307	2883	G06F1/1637.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:47
S308	2354	361/679.08-679.2.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:47
S309	34	400/294.2.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:48
S310	84	400/286.3.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:48
S311	450	400/274-276.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:48
S312	132	400/663.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:48
S313	116	400/676-678.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:48
S314	44	400/667.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:48
S315	3276	S303 S307	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:48
S316	1230	228-233	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:49
S317	2354	S308	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:50
S318	3195	S315 and display	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:50
S319	573	S316 and display	US-	OR	OFF	2017/06/26

			PGPUB; USPAT; USOCR			13:50
S320	1790	S317 and display	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:50
S321	219	S318 and (first near hing\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:51
S322	0	S319 and (first near hing\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:51
S323	149	S320 and (first near hing\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:51
S324	179	S321 and (second near hing\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:51
S325	114	S323 and (second near hing\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:51
S326	79	S319 and (lock\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:52
S327	63	S324 and (lock\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:52
S328	37	S325 and (lock\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:52
S329	63	S326 and (key\$1 or keypad\$1 or keyboard or (key near board) or (key near pad))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:52
S330	61	S327 and (key\$1 or keypad\$1 or keyboard or (key near board) or (key near pad))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:52
S331	36	S328 and (key\$1 or keypad\$1 or keyboard or (key near board) or (key near pad))	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:52
S332	149	S329 S330 S331	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:52
S333	11	S332 and wheel\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:53
S334	34	S332 and radius	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:53
S335	1	S332 and ((first and second) near2 radius)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/06/26 13:53
S483	2	"20080291521"	US- PGPUB;	OR	OFF	2018/06/11 01:20

			USPAT; USOCR	***************************************		
S484	2	"20140175463"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 01:27
S485	3	("20080291521" "20120139393" "20140175463").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/1 01:28
S486	1	("20110149410").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/1 01:28
\$487	4	S485 S486	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 01:28
S488	1	S487 and (input\$1 or touch\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 01:28
S489	2	("20130135230" "20140118678").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 01:29
S490	1	("5410210").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 01:29
S491	3	S489 S490	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 01:29
S492	2	S491 and (input\$1 or touch\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 01:29
S493	5	(("20110267298") or ("9400911") or ("20160179263") or ("20120242635") or ("9274553")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 01:43
S494	2646	("20110267298") or ("9400911") or ("20160179263") or ("20120242635") or ("9274553") or ("20020071940") or ("20140270659") or ("6768654") or ("20170364726") or ("9103999") or ("20140270659") or ("20130265137") or ("20150325498") or ("20130026645") or ("20140332981") or ("20130259329") or ("9659858") or ("8816505") or ("9214425") or ("9152838") or ("20170250132") or ("9736283") or ("20130108124") or ("20150072727") or ("20090256251") or ("201800247712") or ("20170287992") or ("8203207") or ("20020028045") or ("6684007") or ("20110255850") or ("20150243937") or ("20170068143") or ("8471709") or ("20110255850") or ("20130329460") or ("20170068143") or ("8471709") or ("20110255250") or ("20130329054") or ("20120229882") or ("20130300618") or ("9946302") or ("20130033736") or ("9075567") or ("9969199") or ("2015031563") or ("8506096") or ("9075567") or ("9048537") or ("20150055009") or ("20130043568") or ("878670") or ("20180037820") or ("20130321893") or ("20140078412") or ("20140078412") or ("9056584") or ("8506096") or ("20160257254") or ("20150055009") or ("20130043568") or ("9878670") or ("20160257254") or ("20130321893") or ("201400784568") or ("9878670") or ("20160257254") or ("20130321893") or ("6699183") or ("999001") or ("20130321893") or ("301028368") or ("9791248") or ("99090237820") or ("20130321893") or ("301028369") or ("20140009873") or ("8201203000000000000000000000000000000000		OR	OFF	2018/06/11 01:45

"20120094046") or ("20120275100") or ("8277059") or ("9185816") or "9846452") or ("20160062398") or ("9647171") or ("20070108890") or "20110188180") or ("20140340925") or ("20150307027") or ("9073491") or "20110019260")).PN. or (("9545883") or ("8797721") or ("9041851") or ("20130107563") or ("20060109129") or ("20170220837") or ("20170066930") or ("8797627") or ("9167161") or ("20120250250") or ("20170120827") or "20120314992") or ("8625938") or ("20160179229") or ("20170075464") or "20100226101") or ("20170003440") or ("9766737") or ("6936495") or "20120314384") or ("20170200707") or ("20160174304") or ("9535522") or "8723049") or ("20170005077") or ("20140152890") or ("9869807") or ("20070059901") or ("20160198824") or ("20140140020") or ("20170371465") or ("20140078449") or ("20120050975") or ("9841548") or ("9706607") or ("9983714") or ("8072764") or ("8988636") or ("8905772") or "20100317132") or ("9952626") or ("20170290106") or ("20140339668") or "20160187930") or 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1	"20150248142") or ("20120286311") or ("7884432") or ("20150179072") or
1	"20160027737") or ("20140072261") or ("9153490") or ("7919410") or
1	"20160086802") or ("7433737") or ("8264837") or ("6991963") or
("20150048048") or ("9804441") or ("5069626") or ("9030001") or
("20130259281") or ("8941137") or ("20170079144") or ("7419841") or
("8749006") or ("9183749") or ("20180073706") or ("20170092566") or
1	"9161450") or ("20150351232") or ("20170364172") or ("8981809") or
1	"20100079387") or ("9001002") or ("9082673") or ("20070200130") or "20030159844") or ("9633919") or ("9431244") or ("20140340265") or
	"20030159844") or ("9633919") or ("9431244") or (20140340203") or ("8452037") or ("20120211382") or ("20170073546") or ("20160295702") or
1	"9515025") or ("9079349") or ("20160050751") or ("8165679") or
1	"20010048591") or ("20140085317") or ("8611095") or ("20070026634") or
1	"6365057") or ("20160049624") or ("20170062363") or ("5682062") or

		("7498647") or ("8830665") or ("20130176700") or ("9681829") or ("7710631") or ("8329510") or ("20180056871") or ("20080143906") or ("20140077351") or ("9886062") or ("20110057018") or ("20170084533") or ("20160329386") or ("20150364815") or ("20060292732") or ("9257740") or ("20040134792") or ("7826127") or ("9832890") or ("6964886") or ("20140011046") or ("20090207514") or ("20040209396") or ("9671671") or ("8040141") or ("9674965") or ("20150250038") or ("8342325") or ("2010013654") or ("20120038813") or ("7221048") or ("20150372041") or ("20150372041") or ("20150351220") or ("20150243624") or ("30150372041") or ("20150351220") or ("4444293") or ("20150103297") or ("20110096508") or ("20120025365") or ("9164246") or ("20160310050") or ("20170052422") or ("3060154405") or ("20110277361") or ("8035179") or ("20170052422") or ("364006") or ("20170078777") or ("20140268273") or ("6588949") or ("7525715") or ("20170078777") or ("20140268273") or ("6588949") or ("201100203679") or ("30080004088") or ("20180059729") or ("9536953")).PN. or (("9804639") or ("6472031") or ("20170224453") or ("20150346876") or ("20110088770") or ("6472031") or ("20110026367") or ("20170258380") or ("20110034008") or ("4753548") or ("20140267732") or ("9887392") or ("20110038410") or ("20100182286") or ("20140267732") or ("9887392") or ("201100304008") or ("20160118289") or ("20140267732") or ("8896700") or ("201100304008") or ("20160118289") or ("20140267732") or ("8896700") or ("201100304008") or ("20140041247") or ("20110072816") or ("9867338") or ("987357318") or ("20180032105") or ("20140041247") or ("20110072816") or ("30160357318") or ("201100248161") or ("20140247404") or ("20110072816") or ("20160357318") or ("20100248161") or ("2014024770") or ("201200932185") or ("9780028") or ("20130196539") or ("201400248161") or ("2014024770") or ("201200932185") or ("201400248161") or ("2014024770") or ("201200932185") or ("201400248161") or ("2014024770") or ("201200932185") .PN.				
S495	331	S494 and (flex\$4 near2 (hous\$3 or cas\$3 or enclosure))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 01:47
S496	164	S495 and (polymers and metal\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 01:48
S497	99	S496 and (protect\$3 near3 coat\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 01:48
S498	26	("20110309482" "20120112764" "20120275025" "20120305422" "20120325720" "20130126372" "20130175186" "20130220841" "20130231046" "20140152890" "20140246339" "5506053" "5940526" "6646864" "6995976" "7158376" "7180735" "7230823" "7663879" "7688580" "7949242" "8008591" "8503170" "8548541").PN. OR ("9622556").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 02:05
S499	11	S498 and (flex\$4 near2 (hous\$3 or cas\$3 or enclosure))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 02:05
S500	2	S499 and (polymers and metal\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 02:06
S501	0	S499 and (promot\$3 near3 layer\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 02:38
S502	0	S498 and (promot\$3 near3 layer\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 02:38
S503	71	S497 and (promot\$3 near3 layer\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 02:38
S504	9	S497 and (promot\$3 near layer\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 02:39
S505	0	S504 and LDS	US- PGPUB;	OR	OFF	2018/06/11 02:40

			USPAT; USOCR	***************************************		
S506	3	S497 and LDS	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 02:40
S507	4	S504 and primer\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 03:05
S508	2	"20130234899"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 03:07
S509	2	"20160148189"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:39
S510	8	("20040225613" "20050177716" "20050275505" "20080099553" "20090307132" "20110140841" "20140239065" "8095974").PN. OR ("9978055").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:40
S511	16	("20150241916" "20130329532" "20110007468" "6529754" "20140121539" "20150189134" "20080002528" "20110007468" "20160066859" "9110498" "20150049591" "20150223355" "20100292599" "4819860" "20020151775" "20160078061" "8477981").FN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:41
S512	4640	G06F1/163.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:47
S513	1922	G06F1/1686.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:47
S514	5319	h04n5/2252.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:47
S515	4004	h04n5/23216.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:47
S516	8913	G06F3/016.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:48
S517	6035	G06F3/14.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:48
S518	1472	(wrist near watch).ti.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:49
S519	311	361/679.03.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:50
S520	0	S518 and (hing\$3 near3 screw\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:51
S521	5	S519 and (hing\$3 near3 screw\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:51
S522	2	S518 and (pivot\$3 near3 screw\$3)	US- PGPUB;	OR	OFF	2018/06/11 12:51

			USPAT; USOCR	***************************************		
S523	112	S518 and (screw\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:52
S524	143	S519 and wrist	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:52
S525	45	S524 and (screw\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:52
S526	3287	G06F1/1637.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:54
S527	1	"20150346767"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 12:54
S528	3	("2015/0346767").URPN.	USPAT	OR	OFF	2018/06/11 12:54
S529	4	("2015/0277489").URPN.	USPAT	OR	OFF	2018/06/11 12:58
S530	1	"20150277489"	USPAT	OR	OFF	2018/06/11 12:58
S531	380	368/281.ccls.	USPAT	OR	OFF	2018/06/11 13:02
S532	354	368/282.ccls.	USPAT	OR	OFF	2018/06/11 13:02
S533	64	368/283.ccls.	USPAT	OR	OFF	2018/06/11 13:02
S534	59	368/313.ccls.	USPAT	OR	OFF	2018/06/11 13:02
S535	186	G04b37/0008.cpc.	USPAT	OR	OFF	2018/06/11 13:08
S536	24	G04b37/0427.cpc.	USPAT	OR	OFF	2018/06/11 13:08
S537	404	G04b37/1486.cpc.	USPAT	OR	OFF	2018/06/11 13:08
S538	382	a44c5/14.cpc.	USPAT	OR	OFF	2018/06/11 13:08
S539	29	a44c5/147.cpc.	USPAT	OR	OFF	2018/06/11 13:08
S540	1584	361/679.01.ccls.	USPAT	OR	OFF	2018/06/11 13:09
S541	1147	361/679.02.ccls.	USPAT	OR	OFF	2018/06/11 13:09
S542	3287	G06F1/1637.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:09
S543	2237	h05k1/0203.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:31
S544	874	h05k1/0209.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:31
S545	647	h05k1/021.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:32
	7					

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S546	5652	h05k1/181.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:32
S547	985	h01l21/4842.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:32
S548	5038	361/704.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:32
S549	1718	361/707.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:32
S550	248	361/712.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:32
S551	621	361/718.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:32
S552	1985	361/690.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:32
S553	1395	257/685.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:32
S554	4	((("Kahrimanovic") near3 ("Elvir"))).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:33
S555	5605	361/679.21-679.3.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:49
S556	2993	361/679.55-679.56.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:49
S557	3963	G06F1/1601.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:50
S558	1715	G06F1/1613.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:50
S559	601	G06F1/1633.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:50
S560	2473	G06F1/1652.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/06/11 13:50
S561	1040	((("PETERS") near3 ("David")) OR (("TAUSSIG") near3 ("Carl")) OR (("CHENG") near3 ("Shan")) OR (("SRINIVAS") near3 ("Vikram"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/11/06 12:35
S562	3	("20110277361" "20130234899" "20140152890").PN.	US- PGPUB; USPAT;	OR	OFF	2018/11/06 12:41

	<u> </u>		USOCR			
S563	1	"20110277361"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/06 12:41
S564	44	("2014/0152890").URPN.	USPAT	OR	OFF	2018/11/06 12:41
S565	18	("2013/0234899").URPN.	USPAT	OR	OFF	2018/11/06 12:41
S566	35	("2011/0277361").URPN.	USPAT	OR	OFF	2018/11/06 12:42
S567	97	S564 S565 S566	USPAT	OR	OFF	2018/11/06 12:42
S568	63	S567 and (flex\$4 or bend\$4)	USPAT	OR	OFF	2018/11/06 12:42
S569	52	S568 and metal\$3	USPAT	OR	OFF	2018/11/06 12:42
S570	42	S569 and polymer\$1	USPAT	OR	OFF	2018/11/06 12:42
S571	34	S570 and substrate\$1	USPAT	OR	OFF	2018/11/06 12:43
S572	14	S571 and ((flex\$4 or bend\$4) near3 (hous\$3 or cas\$3 or enclosure\$1))	USPAT	OR	OFF	2018/11/06 12:44
S573	54	(US-20090168321-\$ or US-20060274487-\$ or US-20060133016-\$ or US-20110058326-\$ or US-20110025943-\$ or US-20030063432-\$ or US-20060038104-\$ or US-20050157457-\$ or US-20040012917-\$ or US-20120194976-\$ or US-20070279852-\$ or US-20130135230-\$ or US-20140152890-\$ or US-20150277489-\$).did. or (US-8400767-\$ or US-8081435-\$ or US-8081429-\$ or US-7898796-\$ or US-7869200-\$ or US-7724511-\$ or US-7450372-\$ or US-7298610-\$ or US-7869200-\$ or US-8576554-\$ or US-8373976-\$ or US-8218303-\$ or US-7846026-\$ or US-7601067-\$ or US-6049449-\$ or US-5430607-\$ or US-5351176-\$ or US-5305183-\$ or US-5175672-\$ or US-5157585-\$ or US-5107402-\$ or US-5021763-\$ or US-4980676-\$ or US-4832419-\$ or US-8335089-\$ or US-8313072-\$).did. or (US-7267613-\$ or US-6504706-\$ or US-5761034-\$ or US-5631805-\$ or US-7002793-\$ or US-6504706-\$ or US-5761034-\$ or US-4736332-\$ or US-8387930-\$ or US-8052102-\$ or US-8050024-\$ or US-7775494-\$ or US-5410210-\$ or US-9622556-\$).did.	US- PGPUB; USPAT	OR	OFF	2018/11/06 12:48
S574		S573 and ((flex\$4 or bend\$4) near3 (hous\$3 or cas\$3 or enclosure\$1))	USPAT	OR	OFF	2018/11/06 12:49
S575	3448	361/679.21-679.3.CCLS.	USPAT	OR	OFF	2018/11/06 23:53
S576	1916	361/679.55,679.56.CCLS.	USPAT	OR	OFF	2018/11/06 23:53
S577	3500	349/56-60.CCLS.	USPAT	OR	OFF	2018/11/06 23:53
S578	1815	G06F1/1601.CPC.	USPAT	OR	OFF	2018/11/06 23:53
S579	772	G06F1/1613.CPC.	USPAT	OR	OFF	2018/11/06 23:53
S580	272	G06F1/1633.CPC.	USPAT	OR	OFF	2018/11/06 23:53
S581	1062	G06F1/1652.CPC.	USPAT	OR	OFF	2018/11/06 23:53
S582	0	G06F1/16162.CPC.	USPAT	OR	OFF	2018/11/06 23:53
S583	4847	G06F1/1616.CPC.	USPAT	OR	OFF	2018/11/06 23:53
S584	8068	S578 S579 S580 S581 S583	USPAT	OR	OFF	2018/11/06 23:53
S585	1206	H05K5/0017.CPC.	USPAT	OR	OFF	2018/11/06 23:54
S586	674	H05K5/03.CPC.	USPAT	OR	OFF	2018/11/06 23:54
S587	290	H05K5/0013.CPC.	USPAT	OR	OFF	2018/11/06 23:54

S588	1946	S585 S586 S587	USPAT	OR	OFF	2018/11/06 23:54
589	2	(("20140270659") or ("9103999")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/06 23:59
590	1056	((10048787") or ("20140332981") or ("9659858") or ("20130026645") or ("9214425") or ("8816505") or ("9400911") or ("20170364726") or		<u>O</u>	F 0	2018/11/00

("20170200759") or ("10071584") or ("20140073079") or ("20010040043") or "9720450") or ("9406854") or ("20140063302") or ("20160005931") or "9431475") or ("20050189622") or ("8547471") or ("6706546") or ("20020039464") or ("20130328462") or ("20160334668") or ("20160231619") or ("8927316") or ("20120119367") or ("20180302994") or ("20170176835") or ("8742541") or ("20170200707") or ("9060111") or ("20120112238") or ("7414197") or ("9703139") or ("8502340") or ("20140173894") or ("20150048759") or ("20120181658") or ("20130329054") or ("20130313680") or ("20140339668") or ("20110186345") or ("9983455") or ("10069018") or ("20120146182") or ("9606579") or ("20120055701") or ("20140273393") or ("20150146401") or ("20120171907") or ("20160079189") or ("20140242816") or ("20160300991") or ("9437557") or ("20150162678") or ("9190463") or ("9073490") or ("20120306092") or ("20170196112") or ("6774659") or ("9350093") or ("9807919") or ("8432045") or ("20140104288") or ("20100317132") or ("6987034") or ("20170049000") or ("8906720") or ("20160315139") or ("20170003440") or ("20120275100") or ("6989584") or ("8551283") or ("9673358") or ("20110187245") or ("7115961") or ("20140104284") or ("20060183265") or ("9473681") or ("9232670") or "20060185884") or ("9185816") or ("8758067") or ("8772908") or "7102082") or ("6661084") or ("20160062398") or ("20170040306") or ("20180263151") or ("20170023752") or ("9786633") or ("20110188180") or ("20160054537") or ("20180166507") or ("9448373") or ("20130009270") or ("20160004019") or ("9660368") or ("20160181345") or ("10115662") or ("20170038641") or ("20080095985") or ("20170135198") or ("20070108890") or ("20050145608") or ("20110221018") or ("7288739") or ("20160329309") or ("20060243476") or ("20170084661") or ("8955215") or ("8797721") or ("20120282420") or ("9076822") or ("20170325347") or ("9490312") or ("20160254465") or ("8435824") or ("9801273") or ("20080251872") or ("20080090338") or ("20110170192") or ("9041851") or ("20130009544") or ("20130078860") or ("8698394") or ("20180068930")).PN. or (("20170351042") or ("20050145609") or ("20180233552") or "20160172427") or ("20090108473") or ("20160240605") or ("8258433") or ("20140009873") or ("20070158807") or ("9773723") or ("8764996") or ("6785447") or ("20090154872") or ("9640437") or ("20120223896") or ("9167161") or ("20160101499") or ("20160149086") or ("9356087") or "6956182") or ("20170148764") or ("10101548") or ("7341881") or "9991311") or ("5866443") or ("20020097962") or ("20120018893") or "20140264693") or ("20080095988") or ("6690845") or ("10090266") or "7893514") or ("20140264691") or ("20180084323") or ("20140307344") or ("20170047307") or ("9570660") or ("9460643") or ("20170066930") or ("6674159") or ("9601530") or ("8638549") or ("9666560") or ("20160260768") or ("20170289324") or ("20150214194") or ("20160260765") or ("20050146025") or ("20170062363") or ("20150063764") or ("20050253273") or ("20090014822") or ("20150002926") or ("9428380") or ("20140083600") or ("20180182806") or ("20100203248") or ("9099368") or "9904024") or ("20050155957") or ("10050078") or ("20180096187") or ("20050099532") or ("9676334") or ("9190443") or ("20120325794") or "20120268961") or ("20180286924") or ("20130028450") or ("9406654") or "20180286912") or ("8559092") or ("20130314760") or ("20060043509") or "8558141") or ("20140070375") or ("20070059901") or ("8982582") or ("20180268988") or ("20170028924") or ("20180088296") or ("20080053713") or ("20160179229") or ("9391045") or ("20150279806") or ("20120236387") or ("20110186992") or ("20170075464") or ("20180218998") or ("20060109129") or ("8827517") or ("9766737") or ("9034730") or "8654433") or ("20160174304") or ("8796135") or ("7338836") or ("20180114905") or ("20120250250") or ("20170098630") or ("20170069575") or ("20140008815") or ("10020288") or ("8169684") or ("20120092747") or ("20180263133") or ("7410825") or ("8035077") or ("20060061889") or ("8981533") or ("9535522") or ("20030160035") or ("9111841") or "20170371465") or ("20090278219") or ("20080278954") or ("8865489") or "8670171") or ("8836142") or ("9706607") or ("7294827") or ("20150217993") or ("9983714") or ("20120229752") or ("20150062927") or "20110255726") or ("20170048990") or ("20120176760") or ("20140319550")).PN. or (("20170290106") or ("20060255418") or "9310643") or ("20180234594") or ("20110102167") or ("6624353") or "20150338887") or ("8537564") or ("20160255929") or ("20080037769") or "9564473") or ("20160035797") or ("20140061837") or ("9196571") or "20150243696") or ("8848160") or ("20120164888") or ("9980326") or ("20150279798") or ("20150123285") or ("20130244490") or ("20180092166") or ("9159689") or ("7709915") or ("20180039372") or ("20130314761") or ("20150185427") or ("9350009") or ("20080298818") or ("7648287") or ("20100321758") or ("20120091594") or ("20090200564") or ("20150315715") or ("9793334") or ("9241097") or ("20150255853") or ("20160164165") or ("8665510") or ("20150201723") or ("20100311502") or ("20080136956") or "9750322") or ("9235016") or ("9147711") or ("20180017741") or ("20150338883") or ("20180061748") or ("8987113") or ("20180237214") or

("8254011") or ("20180063941") or ("20130048368") or ("20160259366") or "20120320444") or ("20150008401") or ("7385284") or ("9279189") or "20160005706") or ("9952626") or ("5069626") or ("20150307028") or "20180217639") or ("8710376") or ("20170023979") or ("20120146206") or ("20170148866") or ("20160187930") or ("20080154365") or ("20120075216") or ("20110130177") or ("9780160") or ("8287386") or ("9276336") or ("20140036337") or ("9324752") or ("20140111684") or ("20090082075") or "20080237766") or ("9065175") or ("9480155") or ("20180052281") or "9595499") or ("9653778") or ("20170227807") or ("20170360167") or "20140140020") or ("9440589") or ("20160093644") or ("20140152890") or "20160198824") or ("20160014915") or ("7527993") or ("20140210104") or "20080298814") or ("20140267760") or ("8970516") or ("20150062525") or "9293806") or ("20130050226") or ("20180240829") or ("7605348") or "9237389") or ("20180090699") or ("7706887") or ("20120018894") or "7964926") or ("20120091468") or ("9508771") or ("20170236909") or "9123914") or ("8563358") or ("8950068") or ("20090080055") or "20150282304") or ("20170035170") or ("20050272177") or ("9184527") or ("20150003053") or ("9469252") or ("10005611") or ("9954019") or ("8730551") or ("8442254") or ("20130329396") or ("7723144") or ("8905772") or ("20170062321") or ("8697569") or ("20180059690")).PN. or (("20160056118") or ("20160109096") or ("20110255000") or ("9018769") or "9349758") or ("9582043") or ("8952519") or ("7800019") or ("20160056198") or ("8619067") or ("20140192520") or ("20080019502") or "20180184532") or ("20170200755") or ("10020462") or ("20170205927") or ("9911688") or ("8552299") or ("7636188") or ("20150346782") or "20170040365") or ("9200757") or ("9161712") or ("8503062") or "9842875") or ("7259969") or ("20170117243") or ("9578759") or "20030096516") or ("20050263903") or ("20100052086") or ("9356061") or "9614168") or ("9411380") or ("20160270272") or ("20120112361") or ("9685689") or ("20180024401") or ("9406635") or ("20160234949") or "9204025") or ("20060134982") or ("20140206147") or ("8430579") or "20100038352") or ("20180074551") or ("20170194411") or ("8786058") or "9469469") or ("20130048347") or ("20180293420") or ("9223352") or "7329054") or ("20150035028") or ("20170053907") or ("9059067") or ("20160204366") or ("20080303436") or ("20110169159") or ("8610822") or ("10036734") or ("8837754") or ("9614941") or ("9804607") or ("20170285844") or ("20180240746") or ("20130251182") or ("20140296672") or ("20160343756") or ("20130010405") or ("8988636") or ("20060043513") or ("9136289") or ("9897789") or ("20150296622") or ("20140296673") or ("20120038046") or ("20140078449") or ("20110215685") or ("20120094046") or ("7368695") or ("20170186712") or ("20150163940") or ("20170344789") or ("20180024274") or ("20180235544") or ("20090320139") or ("20120018863") or ("20140352440") or ("10104787") or ("9305842") or ("20130126838") or ("9454188") or ("20120153771") or ("20120139082") or ("20160077276") or ("20170051883") or ("20160300962") or ("20170263873") or ("20150132949") or ("20120199985") or ("20150177789") or ("20110049652") or ("20160170250") or ("20140328041") or ("20080266685") or ("9841548") or ("8642119") or ("20150221551") or ("7400435") or ("9337152") or ("20140353789") or ("20130265708") or ("20180046305") or ("8000041") or ("8787016") or ("9360696") or ("9374919") or ("9711502") or ("8637992") or ("9073291") or ("20160082889") or ("20060054997") or ("20150241393") or ("9229481") or ("20180126704") or ("8198739") or "20040041261") or ("20130161809")).PN. or (("20180316160") or ("20160041663") or ("9504170") or ("9835793") or ("6666693") or "20180013191") or ("8523031") or ("9907498") or ("20160375846") or "20120070145") or ("7456076") or ("20180190704") or ("20040076382") or "20130134602") or ("7615479") or ("20080055581") or ("7824112") or "9355901") or ("20120229709") or ("9945818") or ("20100117224") or ("8724304") or ("20130279088") or ("20060279005") or ("7609461") or ("20030201462") or ("20160268490") or ("20130201429") or ("20170013729") or ("20140239276") or ("7957805") or ("20070267708") or ("20120026571") or ("20170212613") or ("20160054175") or ("9123614") or ("20140042406") or ("8607444") or ("7122436") or ("20150054692") or ("7629617") or ("9583686") or ("20130146635") or ("20080212189") or ("9694751") or ("20120161305") or ("9070063") or ("20140085601") or ("20160327986") or ("20070034875") or ("20180279471") or ("20180042127") or ("20060181772") or ("20070210924") or ("20140117565") or ("8503061") or ("9645008") or ("6935792") or ("8319347") or ("20170177037") or ("7129523") or ("20170147852") or ("20050279916") or ("9085457") or ("20160240462") or ("20140141568") or ("7059040") or ("20150022983") or ("20060046430") or ("20150021788") or ("20100002402") or ("20180144113") or ("9111823") or ("20110127675") or ("20160172623") or ("20170068286") or ("20170110631") or ("8610265") or ("20170338381") or ("20170051884") or ("9287336") or ("20110299848") or ("20170142239") or ("9966358") or ("20130240960") or "20130127879") or ("20100066519") or ("9379355") or ("20110080516") or ("20130328741") or ("20130128106") or ("10020245") or ("20180090713") or

		("9780262") or ("20120038813") or ("7160791") or ("6686588") or ("6863444") or ("9420713") or ("9018724") or ("9778705") or ("20160327980") or ("20180183913") or ("20110186960") or ("9142695") or ("20160181346") or ("20160268546") or ("20140071601") or ("20160351472") or ("20150124308") or ("8796109") or ("9997675") or ("20170205847") or ("20150124308") or ("8120287") or ("10040681") or ("20160019123") or ("8097895") or ("9793309") or ("20201201") or ("97977460") or ("20180130770") or ("20160172428") or ("7859738") or ("20040043540")).PN. or (("9301391") or ("20050230844") or ("20130321988") or ("20150340397") or ("20160372445") or ("7812416") or ("8664043") or ("20130249740") or ("2016037645") or ("20150237711") or ("9529214") or ("20130249740") or ("2016036876") or ("20150237711") or ("9529214") or ("20130249740") or ("20140045750") or ("20140045782") or ("201400457777") or ("988057") or ("20150237711") or ("9529217") or ("201400457777") or ("9880570") or ("20150237711") or ("20140043782") or ("20150237777") or ("9847506") or ("20090115891") or ("20150270227") or ("20170042506") or ("20160336523") or ("20110253411") or ("99555221") or ("20170042506") or ("20160336523") or ("20110253411") or ("99555227") or ("20170042506") or ("20170042506") or ("2015023569") or ("20170042506") or ("2016033652") or ("20170039181") or ("2018029900") or ("20170039181") or ("20180290900") or ("30555948") or ("30040313030") or ("30180219165") or ("30425418") or ("30425488") or ("30400439180") or ("304005571") or (
S591	1040	(("CHENG") near3 ("Shan")) OR (("SRINIVAS") near3 ("Vikram"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/11/07 00:00
S592	899		US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 00:30
S593	12888		US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 00:30
S594	1940))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 00:30
S595	0		US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 00:30
S596	5410		US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 00:30

S597	3191	G06F1/16.CPC.	US- PGPUB; USPAT;	OR	OFF	2018/11/07 00:31
S598	186	((("CARLSON") near3 ("Brian")) OR (("CHERNIK") near3 ("Ryan")) OR (("DAHLGREN") near3 ("Aron")) OR (("NELSON") near3 ("Wesley"))).INV.	USOCR US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/11/07 00:31
S599	8	("20170083060" "20170188448" "20180070436" "7974093" "8009429" "9125299" "9521782" "9781863").PN.	US- PGPUB; USPAT	OR	OFF	2018/11/07 00:34
S600	9	("20080258293" "20090206461" "20110140259" "20140133105" "8482111" "8525318" "8749989" "8766429" "9362235").PN. OR ("9781863").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 00:58
S601	28	("20010015583" "20020185262" "20030181075" "20040095713" "20050219137" "20060193114" "20100020514" "20110049749" "20110187188" "20120020017" "20120026668" "20120170224" "20130182389" "20130194755" "5181167" "5550710" "6141211" "6181553" "6472785" "6504722" "6665184" "6768633" "6796372" "7187342" "7344919" "7751192" "8305754" "8427828").PN. OR ("9521782").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 00:58
S602	27	("20040099945" "20090002950" "20090057871" "20090109624" "4396936" "5703753" "5924191" "5982031" "6181556" "6278607" "6472741" "6477052" "6498394" "6608379" "6681482" "6735086" "6946190" "6975025" "7019976" "7375974" "7477527" "7579217" "7592695" "7705447" "7759169").PN. OR ("8009429").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 00:58
S603	22	("20050146855" "20090122500" "20100097767" "4398779" "4466049" "4510533" "4920453" "5436794" "5828546" "5872701" "5940288" "6166919" "6175501" "6661664" "6741466" "6771514" "6839232" "7079381" "7731533").PN. OR ("7974093").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 00:58
S604	86	S600 S601 S602 S603	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 00:59
S605	0	S604 AND TAPPER\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 00:59
S606	12	S604 AND TAPER\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 00:59
S607	10499		US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 01:00
S608	13762	G06F1/20,203,206.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 01:00
S609	2880	H05K7/14,2039,20409,20418.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 01:00
S610	421	H05K7/20418.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 01:00
S611	99	S610 AND TAPER\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 01:00
S612	90	S611 AND (HEAT NEAR3 TRANSFER\$4)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 01:01
			<u> </u>			

0040	loo	SOULA AND (LIFAT NEAD TRANSFERMA)	luo	lop	Norr	10040/44/07
S613	90	S611 AND (HEAT NEAR TRANSFER\$4)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 01:01
S614	0	((("MARKOVICH") near3 ("Igor"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/11/07 01:05
S615	2	"20150277489"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 01:07
S616	31	("20030006572" "20040209657" "20050174302" "20060203621" "20100000257" "20100071413" "20120182677" "20120274508" "20120297592" "20130154826" "2707800" "4087989" "4412751" "4624581" "4674299" "5872744" "5944661" "6457215" "6549791" "6550930" "6619836" "6681014" "6748631" "6754069" "6829809" "7023426" "7353048" "7460085" "7568263").PN. OR ("9703322").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 01:07
S617	57	("4130987" "4255801" "4412751" "4421423" "4779249" "5012229" "5020039" "6216490").PN. OR ("6619836").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 01:10
S635	239	("20010043514" "20040151071" "20050237704" "20070064542" "20070141915" "4586827" "4604772" "4847818" "4873677" "5008864" "5239521" "5265272" "5381387" "5467324" "5872744" "6035035" "6212414" "6249487" "6459890" "6529713" "6536941" "6549791" "6619835" "6619836" "6681014" "6757389" "6775205" "6801476" "D380476" "D466829").PN. OR ("7618260").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 23:55
S636	79	("2322461" "4117542" "4130987" "4365245" "4365246" "4472066" "4601584" "4847818" "4993004" "5125078" "5260915").PN. OR ("6216490").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 23:56
S637	5647	g06f1/163.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 23:57
S638	314	S635 S636	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 23:58
S639	2890	g06f1/1652.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 23:58
S640	258	S637 and S639	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/07 23:58
S641	74	S640 and ((flex\$4 or bend\$4) near3 (display\$3))	USPAT	OR	OFF	2018/11/07 23:59
S642	29	S638 and ((flex\$4 or bend\$4) near3 (display\$3))	USPAT	OR	OFF	2018/11/07 23:59
S643	54	S641 and wrist	USPAT	OR	OFF	2018/11/08 00:00
S644	18	S642 and wrist	USPAT	OR	OFF	2018/11/08 00:00
S645	53	S643 not S644	USPAT	OR	OFF	2018/11/08
S646	1	"7618260".pn.	USPAT	OR	OFF	2018/11/08 00:02
S647	48	("20030212336" "20070040449" "20070279852" "20080171945" "20080294058" "20090018409" "20090048526" "200900163820" "20090270743" "20090306485" "20090322513" "20100076331" "20100210956" "20100267361" "20100306854" "20110213255" "20110234160" "20110245630" "20110288382" "20120030165" "20120045303" "20120059233" "20120065514" "20120071731" "20120203076" "20130014706" "20130141235" "20130165817"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 00:03

		"20130192050" "20130211204" "20130261405" "20130282679" "20130317333" "20130318347" "20130324072" "20140142403" "20140159640" "6595929" "6619835" "7127432" "7512985" "7618260" "7894888" "8251903" "8504145" "8618930" "8647268" "8965498").PN. OR ("9844340").URPN.				
S648	49	("20030212336" "20070040449" "20070279852" "20080171945" "20080294058" "20090018409" "20090048526" "20090163820" "20090270743" "20090306485" "20090322513" "20100076331" "20100210956" "20100267361" "201100306854" "20110213255" "20110234160" "20110245630" "20110288382" "20120030165" "20120045303" "20120059233" "20120065514" "20120071731" "20120203076" "20130014706" "20130141235" "20130165817" "20130192050" "20130211204" "20130261405" "20130282679" "201303317333" "20130318347" "20130324072" "20140142403" "20140159640" "20150173686" "6595929" "6619835" "7127432" "7512985" "7618260" "7894888" "8251903" "8504145" "8618930" "8647268" "8965498").PN. OR ("9768628").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 00:03
S649	20	("20010043514" "20030030595" "20060260842" "20090243756" "20100164888" "20110089903" "20110310545" "20120078999" "20120182677" "20120322516" "20130083496" "20130335929" "20140231518" "4130987" "5615179" "6216490").PN. OR ("9615473").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 00:05
S650	27	("20110014956" "20110286157" "20120204453" "20120264489" "20120307472" "20120314399" "20130222271" "20140029171" "20140029190" "20140160055" "20140226275" "20140320396" "20140362513" "20150177782" "20150177789" "20150261259" "20150378391" "20150378397" "20160266672" "20160357158" "20170192460" "20170208466" "20170235341" "20170364123" "4412751" "6577496" "9442563").PN. OR ("9983629").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 00:10
S651	13	("20080002528" "20100117975" "20130010405" "20130278624" "20140043226" "20140085230" "20140245785" "20140247252" "20140321073" "20150227245" "20160007697" "20160026381" "20160188162").PN. OR ("9874957").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 00:12
S652	9	("20060209218" "20140160055" "20140307395" "20140337621" "20160259430" "5931764" "7558057" "9510470").PN. OR ("9733668").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 00:20
S653	0	"2014072328"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 00:27
S654	2	"20140072328"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 00:27
S655	1	"9510470".pn.	USPAT	OR	OFF	2018/11/08 00:52
S656	17	S650 and thick\$4	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:07
S657	2895	g06f1/1652.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:08
S658	517	S657 and ((window or cover or layer) near3 (transparent\$3))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:08
S659	508	S657 and ((window or cover or layer) near3 (thick\$4))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:08
S660	413	S657 and ((window or cover or layer) near2 (transparent\$3))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:08
S661	177	S658 and ((window or cover or layer) near3 (thick\$4))	US- PGPUB; USPAT;	OR	OFF	2018/11/08 01:09

			USOCR			
S662	101	S660 and ((window or cover or layer) near2 (thick\$4))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:09
S663	259	S657 and ((window or cover or layer) near (transparent\$3))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:09
S664	31	S663 and ((window or cover or layer) near (thick\$4))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:09
S665	2	S664 and ((variable or varying or varied or chang\$3) near (thick\$4))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:15
S666	5	S662 and ((variable or varying or varied or chang\$3) near (thick\$4))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:15
S667	10	S661 and ((variable or varying or varied or chang\$3) near (thick\$4))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:16
S668	10	S665 S666 S667	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:16
S669	23	S659 and ((variable or varying or varied or chang\$3) near (thick\$4))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:16
S670	13	S669 not S668	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:16
S671	21	("20080212271" "20110210937" "20130216740" "20140065326" "20140240985" "20150004334" "20150043174" "20150070826" "20160033994" "20160204183" "20160224238" "20160357318" "20170013729" "6861136" "9069521" "9321678" "9321679" "9354476" "9367095" "9504170" "9557874").PN.	US- PGPUB; USPAT	OR	OFF	2018/11/08 01:18
S672	18	S671 and thick\$4	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:19
S673	2	S671 and ((variable or varying or varied or chang\$3) near (thick\$4))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:19
S674	2	"20150268697"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:37
S675	41	S668 S669 S672 S673 S674	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:38
S676	16	S675 AND LAMINAT\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:38
S677	3	S676 and (finger or (finger near print\$3) or biometric\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 01:39
S678	3	S676 and (finger\$1 or (finger near print\$3) or biometric\$1)	US- PGPUB; USPAT;	OR	OFF	2018/11/08 01:39

<u> </u>	<u> </u>		USOCR	1		
S679	267	haughton.xa.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 02:09
S680	1220	haughton.xp.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 02:09
S681	1487	S679 S680	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 02:09
S682	198	S681 and key	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 02:09
S683	70	S682 and button	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 02:09
S684	128	S682 not S683	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 02:10
S685	8	("20030036362" "20090009945" "20090134003" "20090315828" "5523531" "6011543" "6148183" "6275215").PN. OR ("8564937").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 02:12
S686	5	("5969953" "6567273" "6706966" "6979210" "7125265").PN. OR ("8493720").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 02:12
S687	2	"20090134003"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 02:27
S688	28	("3600528" "3742157" "4066860" "4394546" "4520240" "4638151" "4678872" "4760218" "5455743").PN. OR ("5523531").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 02:28
S689	32	("2841659" "3170995" "3632938").PN. OR ("4394546").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 02:38
S690	28	("3030460" "3648581" "3736390" "3932176" "3952176" "3956763" "4118716" "4253756" "4394546" "4497564" "4866219" "5180050").PN. OR ("5369230").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 02:44
S691	428	H05K5/0069.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 03:18
S692	505	G05B19/02.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 03:18
S693	5410	361/679.01.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 03:18
S694	1	"9321679".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 03:53
S695	2	(("9510470") or ("9594402")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 04:21

S696	3	(("20150268697") or ("20150378397") or ("9321679")).PN.	US- PGPUB; USPAT;	OR	OFF	2018/11/08 04:32
S697	1	("5831816").PN.	USOCR US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 08:16
S698	267	haughton.xa.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 08:17
S699	1220	haughton.xp.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 08:17
S700	1487	S698 S699	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 08:17
S701	29	S700 and (display near control)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/08 08:18
S702	1	"20130128445"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/16 16:34
S703	5	("20050052156" "20090177908" "20100145236" "20130031377" "20140036437").PN.	US- PGPUB; USPAT	OR	OFF	2018/11/16 17:22
S704	4	S703 and wireless	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/16 17:22
S705	2	"20130031377"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/16 17:25
S706	15	("20040150934" "20050246470" "20080195788" "20090106567" "20100057969" "20100295960" "20110127954" "7793121" "8185755" "8234509" "8305741" "8373310" "8380998").PN. OR ("8898489").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/16 17:25
S707	14	S706 and wireless	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/16 17:26
S708	6	("20080049560" "20130261405" "20130272103" "4903253" "7126483" "9721452").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/20 13:03
S709	8	("20120264489" "20140123436" "20140226275" "20150277506" "20160132076" "9164547" "9606583" "9870031"). PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 00:24
S710	2	S709 and oled	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 00:56
S711	0	S709 and sma	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 01:00
S712	1	S709 and (shape near memor\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 01:00
S713	5		US- PGPUB;	OR	OFF	2018/11/26 01:12

			USPAT; USOCR			
S714	0	S713 and wedg\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 01:13
S715	2	S713 and elastic	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 01:20
S716	1	("20160004279").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 01:26
S717	2931	g06f1/1652.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 14:08
S718	4205	g06f1/1601.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 14:08
S719	1086	h05k5/0226.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 14:08
S720	3138	h05k5/0017.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 14:08
S721	17155	G06F1/1632,1654,1679,1615,1635,1637,1662.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 14:29
S722	4756	361/679.27,679.28,679.29,679.41,679.42,679.43,679.44,679.05,679.32.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 14:29
S723	2135	((("GAULT") near3 ("Joseph")) OR (("BOWERS") near3 ("Scott")) OR (("CAMPBELL") near3 ("John")) OR (("HILLYERD") near3 ("Anthony")) OR (("ALDEHAYYAT") near3 ("Yazan")) OR (("AAGAARD") near3 ("Karsten")) OR (("WITT") near3 ("Eric"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/11/26 14:31
S724	3	((("Ll") near3 ("Xiao") near3 ("Hua"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/11/26 14:31
S725	2135	((("GAULT") near3 ("Joseph")) OR (("BOWERS") near3 ("Scott")) OR (("CAMPBELL") near3 ("John")) OR (("HILLYERD") near3 ("Anthony")) OR (("ALDEHAYYAT") near3 ("Yazan")) OR (("AAGAARD") near3 ("Karsten")) OR (("WITT") near3 ("Eric"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/11/26 14:32
S726	5	("20140347802" "20150055289" "20150116926" "20160004279" "20160062411").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/26 14:34
S727	1276	(("20180093303") or ("20180133759") or ("20180117636") or ("20140311928") or ("20170245732") or ("20180337704") or ("20140158583") or ("9095194") or ("10090877") or ("9615476") or ("20170237460") or ("20110069404") or ("8531834") or ("20120314354") or ("8995126") or ("9660684") or ("20130294020") or ("9300344") or ("20160099741") or ("9559741") or ("20140233167") or ("20130027862") or ("9276626") or ("20150171913") or ("20130334072") or ("10005611") or ("9469469") or ("20140152890") or ("20160198824") or ("20180237214") or ("20150201723") or ("20170035170") or ("20170235341") or ("9609902") or ("20150163936") or ("8960634") or ("9538675") or ("20140304891") or ("20120199501") or	USPAT; USOCR	OR	OFF	2018/12/04 12:21

"20110031287") or ("8382059") or ("20130134291") or ("9267638") or "10088738") or ("10003371") or ("20150305461") or ("20150293430") or "9946505") or ("9548785") or ("20160254837") or ("9116665") or "20130088813") or ("9848494") or ("20080180818") or ("20160098064") or ("20130083469") or ("20170034918") or ("20150378391") or ("20180054897") or ("20180046214") or ("8665228") or ("20180232191") or ("9286024") or "7277239") or ("9591905") or ("7529042") or ("20160262514") or "20060171044") or ("20150108012") or ("9382033") or ("8925722") or "20130082585") or ("20130175200") or ("9086836") or ("8564950") or ("8869423") or ("20120327580") or ("20180218859") or ("20130077236") or ("20110192857") or ("20160102805") or ("20180217668") or ("20130279096") or ("9116655") or ("20180217669") or ("20130077221") or ("20130083470") or ("8783457") or ("8973753") or ("20170085283") or ("8915361") or "9900041") or ("9497697") or ("7850032") or ("20140217862") or "20140027317") or ("20110049175") or ("20070171205") or ("9247661") or "7464813") or ("20180263362") or ("9450634") or ("20060169607") or "8701912") or ("20160191101") or ("20150090748") or ("9439314") or "20130083464") or ("20170142242") or ("20060175766") or ("9612674") or "5325278") or ("9195023") or ("20160066459") or ("9954330") or "20170098916") or ("20120168323") or ("8648677") or ("20160154293") or "20150152981") or ("20150358439") or ("20170170863") or ("7277240") or "20120200990") or ("8441450") or ("9602639") or ("20060125785") or "20150193038") or ("20130077226")) PN. or (("10050658") or ("8548541") or "8503174") or ("20060171045") or ("20140071547") or ("8487872") or "20100079404") or ("9706026") or ("20180109660") or ("10125921") or "20160282899") or ("20150027912") or ("9107299") or ("8875879") or "7145766") or ("20060169689") or ("20130301205") or ("20180241429") or "9651756") or ("20120037285") or ("8297440") or ("20160309010") or "8783456") or ("8708142") or ("20160065702") or ("20150227178") or "20180094769") or ("20160057879") or ("9089056") or ("9955762") or "20130083558") or ("8887902") or ("20120037523") or ("20130285984") or "20130076597") or ("9674411") or ("9317243") or ("20060238281") or ("8342325") or ("9380723") or ("8570737") or ("9317076") or ("9549598") or ("8312991") or ("20170196329") or ("9218024") or ("20160066460") or "20160103292") or ("6088240") or ("8393466") or ("20140217863") or "20180167497") or ("8328008") or ("5117339") or ("10085531") or "20050083308") or ("20170086551") or ("20150381859") or ("20180181361") or ("20180206607") or ("20160044148") or ("9871900") or ("9917935") or ("20130075281") or ("20140016217") or ("9179562") or ("9904501") or ("20130043777") or ("20150256655") or ("20120211382") or ("20130092576") or ("20110242009") or ("9164246") or ("10143080") or ("20110227761") or ("20060169608") or ("5165779") or ("20170214777") or ("8604931") or "20130088828") or ("20150052854") or ("9867301") or ("9560751") or "8526180") or ("20120118773") or ("20180335603") or ("20150122854") or "9603425") or ("8531824") or ("9229494") or ("20160226182") or "20130083477") or ("20030007261") or ("7907394") or ("20040057131") or "8264837") or ("9809049") or ("20130188312") or ("10063009") or "8671553") or ("20170201285") or ("9723113") or ("20140072261") or "7364319") or ("7464814") or ("20060077655") or ("20140028243") or "20160037625") or ("20090009945") or ("9086835") or ("20130088130") or "20130063876") or ("20180129078") or ("20120327594") or ("7699493") or ("20140077911") or ("20180335602") or ("20170024018") or ("20110064401") or ("8491312") or ("20180132372") or ("20130178155") or ("20170238412") or ("20110255218") or ("10050378") or ("9141136") or ("20080232095") or ("9207712") or ("20070258236") or ("9661906") or ("20150069099")).PN. or (("10088865") or ("20120208378") or ("20100197148") or ("20130178161") or ("10013074") or ("9621690") or ("8187006") or ("20100315806") or "20180307325") or ("7661732") or ("8887903") or ("20130098782") or "9531119") or ("20180338069") or ("20170284646") or ("20130176626") or "9294659") or ("20150099259") or ("20080309098") or ("8891798") or "9690385") or ("20170326904") or ("10069318") or ("20050264472") or "20170264046") or ("9389739") or ("20160226183") or ("20160106202") or "20170068318") or ("20150212603") or ("9046231") or ("20130083467") or "20160268730") or ("20180335601") or ("9229675") or ("20130088447") or "20160048165") or ("20130082955") or ("9949561") or ("20130083468") or "20160268729") or ("10133314") or ("20160116943") or ("9645607") or "20160270525") or ("8095191") or ("9176701") or ("20110003616") or "20160240966") or ("9502819") or ("10136714") or ("20150105127") or "20100134964") or ("7771077") or ("8967824") or ("20110136350") or "7963773") or ("20090269943") or ("8342857") or ("20170289428") or "8934226") or ("20140262933") or ("7012727") or ("20180307333") or "20150237252") or ("20150338887") or ("8960421") or ("20140321040") or "20140049636") or ("9019428") or ("20150009347") or ("20150122852") or "9411380") or ("9703173") or ("9195279") or ("20150338883") or "20070216655") or ("20170003718") or ("20140346306") or ("6428172") or "20160327986") or ("20130175186") or ("7917028") or ("20160313628") or

("8695798") or ("10126783") or ("20090128521") or ("20150241931") or "8896694") or ("20160327980") or ("6532152") or ("8995117") or "20140240505") or ("20180259787") or ("9588550") or ("10054984") or "20040004559") or ("9632535") or ("8888309") or ("20140209503") or "20120268878") or ("20180168303") or ("8690379") or ("5217295") or "5091832") or ("20110266314") or ("20080144261") or ("20080049433") or "20160070300") or ("20110235313") or ("7549766") or ("8672851") or "5325280") or ("8610822") or ("20120120239") or ("9827918") or "20170227987") or ("20180234529") or ("7656460") or ("20170083049") or "8897033") or ("20140224675") or ("9529387") or ("9294660") or "5130907") or ("20160197502") or ("20110255250") or ("8890954") or "20130286623") or ("10014624")).PN. or (("9128611") or ("20160248952") or "20150301561") or ("9614569") or ("6762748") or ("20140063265") or "9007522") or ("20170285781") or ("20110255850") or ("20090051776") or "20030044000") or ("20120019770") or ("7293888") or ("20180284454") or "9503697") or ("9411213") or ("20150116851") or ("20150205184") or "20090005136") or ("20080080076") or ("20040081422") or ("20140233181") or ("9625947") or ("20020093328") or ("20160327982") or ("9645609") or "20160190736") or ("9429759") or ("20170149171") or ("20160085076") or "8641188") or ("20170227985") or ("9933817") or ("9894192") or "20120236425") or ("8279544") or ("20140173807") or ("20160254836") or "9644783") or ("8891187") or ("20090297136") or ("20140360893") or "20130278631") or ("9348366") or ("20130271722") or ("7927026") or "9188764") or ("20150087359") or ("20120113572") or ("20160187937") or ("20160363737") or ("20160116944") or ("20160072933") or ("20160306393") or ("20160144917") or ("20140285911") or ("20100072334") or ("9185953") or ("20180126704") or ("20060002123") or ("9513705") or ("20160058145") or ("20170303654") or ("20170065044") or ("20150024809") or ("10116776") or ("20110255000") or ("9131756") or ("9807211") or ("20160353616") or ("9498034") or ("9700114") or ("8872370") or ("9742975") or ("20160202734") or ("20160320808") or ("20180210503") or ("20180031188") or ("20060091222") or ("20120111881") or ("20150243937") or ("9335509") or ("8519558") or ("20140267882") or ("20100158511") or ("9797592") or ("20140151248") or ("20130313836") or ("20170019512") or ("20150192955") or ("20030117728") or ("20170171371") or ("20130002939") or ("9013867") or ("20160065262") or ("8797721") or ("9477320") or ("20140197048") or ("20140253789") or ("10076176") or ("20170351056") or ("9511903") or "20080251364") or ("20130135759") or ("9578940") or ("8593745") or "7593524") or ("9203281") or ("8699141") or ("20140375152") or "20140320987") or ("20160134733") or ("20150097009") or ("10070707") or "20120103855") or ("20180013934") or ("9931748") or ("20170052601") or "7380759") or ("6574096") or ("8500180") or ("20150250245") or "20100232161") or ("20150138711") or ("9274340") or ("20180343370") or "20160001928") or ("10133308")).PN. or (("20110109093") or "20020028045") or ("9329295") or ("9483082") or ("20160255941") or "10117476") or ("20130083466") or ("4640597") or ("20040204204") or "8363014") or ("20100123663") or ("20150146371") or ("20150367247") or "20170365766") or ("20160246029") or ("9134817") or ("6684007") or "20110188180") or ("9223346") or ("20160295981") or ("10082840") or "9954569") or ("8695935") or ("20120033415") or ("20170060183") or "20160317086") or ("6964510") or ("20110007263") or ("20170156464") or "20170026555") or ("10138672") or ("20120106054") or ("9596914") or "20130192961") or ("9395757") or ("7910843") or ("8162283") or "5119239") or ("6902284") or ("20120275100") or ("8511847") or "9232670") or ("9814289") or ("8551283") or ("20160139495") or "9185816") or ("9304375") or ("20080125195") or ("20150378245") or "8944614") or ("9846452") or ("20100328231") or ("8777446") or "20180284841") or ("20180059512") or ("20180107247") or ("8501294") or ("20120287032") or ("20160378070") or ("20160378071") or ("20160209025") or ("20180249798") or ("20120228181") or ("9298216") or ("20110187245") or ("5307209") or ("20050162227") or ("9176325") or ("20120275118") or ("20150041341") or ("9149100") or ("8910787") or ("9888753") or "20110186345") or ("20120069165") or ("20180067379") or ("20160140887") or ("20140181347") or ("9298661") or ("20130127980") or ("20170364125") or ("20130271922") or ("20160058375") or ("20160378069") or ("20130118879") or ("20180045910") or ("6464185") or ("6663064") or "8905610") or ("20170164703") or ("20140334155") or ("20180324288") or "9772498") or ("20170196112") or ("7665782") or ("20150195439") or "8330061") or ("20090208894") or ("20150234189") or ("20100149106") or "20140037867") or ("9049911") or ("8092007") or ("10058155") or "8787009") or ("9591221") or ("9606579") or ("20090058687") or ("20070080948") or ("20160062398") or ("20180325229") or ("20160378191") or ("20180284899") or ("20050128284") or ("8749983") or ("9185278") or "20140183891") or ("9880447") or ("20150234192") or ("8964298") or "8833555") or ("9326404") or ("20120033414") or ("20120287565") or "9766482") or ("20160087370") or ("20150061477") or ("20080266401") or

("20130328462") or ("20160054537")).PN. or (("20140263939") or
("20130043778") or ("20070115621") or ("20160209001") or ("20180188777")
or ("20170099922") or ("20110169667") or ("20130201299") or ("9599824")
or ("9778705") or ("20180011390") or ("9364769") or ("20090237813") or
("7273983") or ("20130155723") or ("20170123463") or ("8403278") or
("20150078035") or ("8644011") or ("20160169483") or ("20140238894") or
("9516937") or ("20180004256") or ("9004359") or ("9880685") or
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("10125013") or ("20140346078") or ("8416065") or ("20080139260") or
("20100328052") or ("20140325818") or ("20080192124") or ("20170371230")
or ("8248521") or ("7500858") or ("7885695") or ("20180134547") or
("20140374309") or ("9523807") or ("10063783") or ("20150362736") or
("20170017268") or ("9462712") or ("8149130") or ("20040190282") or
("20170094180") or ("20130306727") or ("20170094181") or ("8208806") or
("20100187842") or ("9426911") or ("20120182727") or ("20120182723") or
("20140281633") or ("20170075445") or ("20160147086") or ("7067753") or
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or ("20120256821") or ("20060034091") or ("9261701") or ("9453624") or
("20070009247") or ("9774787") or ("6932485") or ("9313305") or
("20140002676") or ("9291823") or ("9377626") or ("8905573") or
("20110277361") or ("20180013271") or ("7388619") or ("9872530") or
("20160253006") or ("6817026") or ("20180146084") or ("5818634") or
("20180052274") or ("20120320604") or ("9335790") or ("9110200") or
("8570367") or ("20100078343") or ("9993054") or ("20140072312") or
("9696553") or ("20090229892") or ("20150276347") or ("20180013272") or
("9866676") or ("20060075934") or ("20170045669") or ("9489046") or
("20090225154") or ("8115745") or ("20120050075") or ("7850301") or
("9651992") or ("20140218962") or ("9285566") or ("20150009127") or
("8740270") or ("8585230") or ("20150133193") or ("9936111") or
("20170245360") or ("20050128322") or ("9618827") or ("9459658") or
("20090257019") or ("8317067") or ("20140117177") or ("20170068286") or
("9829924") or ("20070090254")).PN. or (("9605836") or ("20150160693") or ("8154680") or ("20150042870") or ("20130258270") or ("20170200575") or
("20180188822") or ("2482869") or ("7050764") or ("20150378492") or
("20180188822") or ("4482869") or ("7630764") or ("2018017492") or ("20180173355") or ("20180191392") or ("9032130") or ("20060148425") or
("20120275025") or ("7471888") or ("20170227785") or ("20180246584") or
("20140262847") or ("8094141") or ("20170242225") or ("10112670") or
("20180269702") or ("9753436") or ("20160266672") or ("20160334628") or
("9454256") or ("20130301242") or ("20130235260") or ("20160209728") or
("20150062050") or ("9927209") or ("20170024013") or ("20110025908") or
("20160070304") or ("20160377827") or ("9357109") or ("10013092") or
("20140073377") or ("20170006716") or ("8098319") or ("7338189") or
("10025404") or ("7173237") or ("20100328219") or ("10007364") or
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or ("20180099714") or ("20110050443") or ("10093377") or ("9709769") or
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("9285105") or ("20170068340") or ("20130250618") or ("20060133798") or
("20170094816") or ("20180284571") or ("20170170677") or ("20160170168")
or ("9552023") or ("9986908") or ("20170068342") or ("10123434") or ("2361398") or ("20180136613") or ("9627803") or ("9462099") or
("8605008") or ("20180136613") or ("9627803") or ("3402033") or ("20170068341") or
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("20180203418") or ("9653844") or ("7675565") or ("20160378072") or
("20160098016") or ("9498033") or ("20100200456") or ("20140368731") or
("20170194999") or ("20090036219") or ("20170213665") or ("9119458") or
[("20170353208") or ("20160369986") or ("9307128") or ("20170068339") or
("20080259035") or ("9939850") or ("20040110527") or ("20110227487") or
/("9915393") or ("20010036149") or ("20110255303") or ("20160080024") or
("20110090626") or ("20140202891")).PN. or (("6611635") or ("10145/11") or
//"9755355") or ("20070008719") or ("8434909") or ("20160336988") or
("20040242405") or ("20160327987") or ("6614336") or ("20160301157") or
("9749451") or ("20040145887") or ("6592220") or ("20110255023") or
("20160259377") or ("20170083100") or ("20150250062") or ("20170094187")
or ("20160258784") or ("6330149") or ("8708151") or ("8245842") or
("8511626") or ("20150234193") or ("20160211875") or ("9203938") or
("7817141") or ("8721120") or ("9383774") or ("20100259509") or
("20130329430") or ("9229485") or ("10119686") or ("20170134628") or
("8511626") or ("20150234193") or ("20160211875") or ("9203938") or ("7817141") or ("8721120") or ("9383774") or ("20100259509") or ("20130329430") or ("9229485") or ("119686") or ("20130134628") or ("7281826") or ("20140123436") or ("9557473") or ("20030106782") or ("7281826") or ("8430529") or ("9886006") or ("8073501") or
("20090111512") or ("8430529") or ("9886006") or ("8073501") or

("20170156465") or ("20150189134") or ("20150062787") or ("20120195066") or ("20130201064") or ("20170183052") or ("20180337467") or ("20140312086") or ("20110176796") or ("20110255286") or ("20030016327") or ("20070109272") or ("9028123") or ("20130181584") or ("20160182804") or ("9807289") or ("20160370690") or ("20170205854") or ("20170187855") or ("20170262676") or ("20170010743") or ("9312633") or ("20130050555") or ("20110309117") or ("20180097920") or ("9592871") or ("8957835") or ("20180063307") or ("20160204545") or ("20150198811") or ("20070232348") or ("8851349") or ("9906259") or ("20100079356") or ("20160111815") or ("8705229") or ("9609930") or ("20150375894") or ("6129321") or "20150366447") or ("20140265765") or ("9681031") or ("9179050") or "6831629") or ("20120063018") or ("8827129") or ("9897818") or "20160004355") or ("20180224665") or ("20070195210") or ("8457701") or "20140284243") or ("20160095241") or ("20040233159") or ("9990523") or "9266664") or ("9814151") or ("9595237") or ("6422715") or ("9612508") or "20170310353") or ("20180324964") or ("20080121004") or ("20130292440") or ("4089593") or ("20080236018") or ("20150358528") or ("20180262029") or ("7106301") or ("20160045005") or ("9717314") or ("20120243110") or ("9454066") or ("20180077810") or ("20160327799") or ("8887970") or ("20140218305") or ("20110259771") or ("20110157915") or ("20140098009") or ("10084328") or ("20170127822") or ("20130114232") or ("8395894") or ("9646573") or ("20020071271") or ("9992888") or ("7699603")).PN. or (("8764458") or ("20010026445") or ("20020067609") or ("20110273906") or "20020097224") or ("20020071269") or ("20080156836") or ("9768819") or ("20140002978") or ("20160297491") or ("20180234530") or ("20180017842") or ("7841120") or ("20150049059") or ("20170097512") or ("8526161") or ("6239968") or ("6642977") or ("10037052") or ("20150304463") or "6600479") or ("20130286551") or ("8070026") or ("20180138937") or "5857148") or ("20180150174") or ("20070279853") or ("7420153") or "20180084093") or ("9185813") or ("20170108197") or ("20170212552") or "9611881") or ("20130258586") or ("8469534") or ("20030197684") or "20150370150") or ("20050088411") or ("20090097238") or ("7997631") or "20060250377") or ("20160365064") or ("20050099391") or ("20160191102") or ("20170094183") or ("7647681") or ("20110282247") or ("8692783") or ("20160119705") or ("20100096284") or ("20070223906") or ("9307060") or ("20180202631") or ("20170177037") or ("20150219834") or ("20170318958") or ("20070090277") or ("20050087702") or ("9917937") or ("20050068135") or ("20180164852") or ("20050093822") or ("9460643") or ("6670874") or ("4810086") or ("9435910") or ("7257430") or ("20170336059") or "8451240") or ("20180183916") or ("8291563") or ("7239898") or ("20140144792") or ("20170094182") or ("20110157037") or ("20150062927") or ("20050068134") or ("10084948") or ("9106816") or ("9004334") or ("6806850") or ("8265717") or ("20170280033") or ("20100242332") or "20130265703") or ("20170299493") or ("20110309728") or ("7489296") or "8926151") or ("6481866") or ("20020044347") or ("20180180257") or "20170201108") or ("20130127309") or ("7502014") or ("20100154194") or "20040067783") or ("20160056856") or ("9569023") or ("9281858") or "6483651") or ("5485318") or ("9052087") or ("20180064221") or "8373310") or ("20130113423") or ("20140078462") or ("9669520") or "6505949") or ("20110157800") or ("9654605") or ("20060001657") or "7502013") or ("20160150067") or ("4810087") or ("7633488") or "20060263733") or ("9829669") or ("20180307268") or ("20150305173") or ("20110006611") or ("20110255260") or ("20160054756") or ("20180271301") or ("20160329174") or ("20130038996") or ("5933330") or ("9806755") or ("6785447") or ("9733036")).PN. or (("9951930") or ("5734513") or "20140283354") or ("20150194995") or ("20020097962") or ("9646574") or ("10136737") or ("6706546") or ("9170658") or ("20130099637") or "20170011716") or ("10009449") or ("20130206621") or ("9173314") or "20160242564") or ("20180270971") or ("9416950") or ("20170338844") or "8345429") or ("20160178176") or ("20140226062") or ("10125918") or ("20140069824") or ("20170026498") or ("20080143954") or ("20170280845") or ("9515693") or ("20020039464") or ("20040203485") or ("20140001022") or ("6141569") or ("20160099740") or ("20120307384") or ("20110216485") or ("7905648") or ("8727546") or ("20090315832") or ("6428177") or ("20170318199") or ("20180145713") or ("20170268716") or ("20160132700") or ("7023004") or ("6847480") or ("20030016317") or ("20120212399") or "9606375") or ("8215983") or ("9769389") or ("20070064207") or "20100328250") or ("10063268") or ("9569645") or ("20120212400") or "20150288405") or ("20160119011") or ("9247598") or ("9118195") or "20150036047") or ("20150377578") or ("7810750") or ("8816977") or "20170208911") or ("8964352") or ("10044396") or ("7595712") or ("20060061347") or ("20080088597") or ("20140138221") or ("20160037658") or ("20030016316") or ("20110051982") or ("9116295") or ("20140176690") or ("20150380141") or ("20160090047") or ("7342723") or ("6728557") or "20160101499") or ("20110130632") or ("10088927") or ("20130027600") or "8982267") or ("8890369") or ("9577694") or ("9877549") or ("9738227") or

		("20110255259") or ("9179831") or ("20180239162") or ("7009111") or ("9730340") or ("9924805") or ("20050073506") or ("20120235887") or ("9153391") or ("20070242134") or ("7751134") or ("8300389") or ("8611973") or ("20080207272") or ("20090103254") or ("20140347814") or ("4692359") or ("9766426") or ("7345250") or ("7663880") or ("20170154196")).PN.				
S728	944	S727 and magnet\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/04 12:47
S729	183	S728 and clean\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/04 13:36
S730	125	20060038104-\$ or US-20050157457-\$ or US-20040012917-\$ or US-20120194976-\$ or US-20070279852-\$ or US-20130135230-\$ or US-20140152890-\$ or US-20120182677-\$ or US-20140270659-\$ or US-20120297592-\$ or US-20120182677-\$ or US-20140209657-\$ or US-20140160055-\$ or US-20130335929-\$ or US-20170364123-\$ or US-20170208466-\$ or US-20170192460-\$ or US-20160357158-\$ or US-20150378397-\$ or US-20140226275-\$).did. or (US-20140029190-\$ or US-20160202782-\$ or US-20150207463-\$ or US-20160202782-\$ or US-20150268697-\$ or US-20160204183-\$ or US-20180113241-\$ or US-20150268697-\$ or US-20090134003-\$ or US-20100295960-\$ or US-20100057969-\$ or US-2090106567-\$ or US-20050246470-\$).did. or (US-8400767-\$ or US-8081435-\$ or US-8081429-\$ or US-7898796-\$ or US-7869200-\$ or US-7724511-\$ or US-63372-\$ or US-208610-\$ or US-5351176-\$ or US-8576554-\$ or US-8373976-\$ or US-5430607-\$ or US-5351176-\$ or US-5305183-\$ or US-649449-\$ or US-5430607-\$ or US-5351176-\$ or US-5305183-\$ or US-4980676-\$ or US-5359775-\$ or US-5640296-\$ or US-531805-\$ or US-4980676-\$ or US-6359775-\$ or US-567034-\$ or US-6359775-\$ or US-567034-\$ or US-6368031-\$ or US-5761034-\$ or US-5631805-\$ or US-702793-\$ or US-6359775-\$ or US-567034-\$ or US-6448631-\$ or US-5681011-\$ or US-5872744-\$ or US-648631-\$ or US-6880632-\$ or US-768628-\$).did. or (US-7267613-\$ or US-9622556-\$ or US-9703322-\$ or US-6748631-\$ or US-6881011-\$ or US-9891665-\$ or US-9891665-\$ or US-9891665-\$ or US-9891655-\$ or US-98944340-\$ or US-9768628-\$).did. or (US-9874957-\$ or US-9844957-\$ or US-984494-\$ or US-9768628-\$).did. or (US-9874957-\$ or US-9844957-\$ or US-984494-\$ or US-9768628-\$).did. or (US-9874957-\$ or US-9930794-\$ or US-9897655-\$ or US-9930794-\$ or US-9897655-\$ or US-9930794-\$ or US-9896657-\$ or	US- PGPUB; USPAT	OR	OFF	2018/12/21 15:12
S731	12	10061372-\$ or US-8234509-\$).did. \$730 and clean\$3	US- PGPUB;	OR	OFF	2018/12/21 15:13
			USPAT; USOCR			
S732	5	S731 and (magnet\$3 or magnetiz\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 15:13
S733	7	S731 not S732	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 15:25
S734	4	(("20180345325") or ("20180093303") or ("20180133759") or ("20180117636")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 15:28
S735	36	(("20180345325") or ("20180093303") or ("20180133759") or ("20180117636") or ("20140311928") or ("20170245732") or ("20180337704") or ("9615476") or ("10090877") or ("8531834") or ("8995126") or ("9660684") or ("20170237460") or ("9300344") or ("20120314354") or ("9559741") or ("20130294020") or ("20140158583") or ("9276626") or ("9095194") or ("20160099741") or ("20130027862") or ("20140233167") or ("20150171913") or ("20130334072") or ("10005611") or ("9469469") or ("20110069404") or	USPAT; USOCR	OR	OFF	2018/12/21 15:29

		("20140152890") or ("20160198824") or ("20180237214") or ("20150201723") or ("20170035170") or ("9609902") or ("20170235341") or ("20140304891")).PN.				
S736	5	("20100011524" "20090078478" "20110192857" "20080244847" "20060238281").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 15:31
S737	31	S735 and (magnet\$4 or magnetic\$4)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 15:34
S738	31	S735 and (magnet\$4 or magnetic\$4 or magnetiz\$4)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 15:35
S739	1	"20110192857"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 15:40
S740	65	("2011/0192857").URPN.	USPAT	OR	OFF	2018/12/21 16:48
S741	48	S740 and (magnet\$4 or magnetic\$4 or magnetiz\$4)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 16:48
S742	2	S741 and clean\$4	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 16:48
S743	65	("2011/0192857").URPN.	USPAT	OR	OFF	2018/12/21 17:08
S744	17	S743 not S741	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:14
S745	40	("20060237495" "20070163904" "20090036175" "20100200628" "20100224519" "20100230301" "20110031287" "20110064401" "20110136555" "20110192857" "20110253569" "20110267748" "20120024741" "20120043236" "20120050968" "20120074006" "20120270600" "20130015088" "20130126565" "20130140312" "20130181584" "20140360893" "6264079" "6695269" "6752299" "6955279" "6966519" "8251210" "8328055" "8408513" "8584916" "8616422" "8631980" "8746448" "8800762" "9004333"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:16
S746	42	("20030010799" "20050072872" "20050284904" "20060237495" "20070023559" "20070215659" "20070287302" "20080103637" "20080296449" "20090184145" "20090189039" "20100155550" "20100159741" "20100181450" "20100315041" "2011000945" "20110031287" "20110064401" "20110073743" "20110101058" "20110163211" "20110192857" "20110240830" "20110248838" "20110248947" "20110255226" "20120234111" "20120327565" "5604050" "6869395" "7153212" "7233319" "7861985" "7963494" "7969732" "7988114" "8016107"). PN. OR ("8830663"). URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:17
S747	1	"20080103637"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:24
S748	31	("20070138360" "4327514" "5901937" "3807675" "4693345" "5699925" "5890603" "5855343" "5989676" "2510181" "7219866" "5743414" "5890603" "5547343" "5743414" "6678977" "7034902" "5615854" "5666263" "5775046" "5855343" "6219950" "4850804" "5820095" "5989676" "6587151" "6286800" "6336615" "5683070" "5769374" "5292013" "5385327" "5725356" "5850998" "6219950").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:24
S749	4	S748 and (magnet\$4 or magnetic\$4 or magnetiz\$4)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:25
S750	1	"20110192857"	US- PGPUB;	OR	OFF	2018/12/21 17:36

			USPAT; USOCR			
S751	1	"20050284904"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:47
S752	144	(US-20090168321-\$ or US-20060274487-\$ or US-20060133016-\$ or US-20110058326-\$ or US-20110025943-\$ or US-20030063432-\$ or US-20060038104-\$ or US-20050157457-\$ or US-20040012917-\$ or US-20120194976-\$ or US-20070279852-\$ or US-20130135230-\$ or US-20120194976-\$ or US-20150277489-\$ or US-20140270659-\$ or US-201202977592-\$ or US-20120182677-\$ or US-20040209657-\$ or US-20140152890-\$ or US-20130335929-\$ or US-2014002055-\$ or US-20130335929-\$ or US-2014002055-\$ or US-20140160055-\$ or US-20130335929-\$ or US-20160357158-\$ or US-20140029171-\$ or US-20140226275-\$), did. or (US-20140029190-\$ or US-20140029171-\$ or US-20120204453-\$ or US-20150207102-\$ or US-2016002782-\$ or US-20150268697-\$ or US-20160204183-\$ or US-20180113241-\$ or US-20150268697-\$ or US-20090134003-\$ or US-20180113241-\$ or US-20150268697-\$ or US-20090134003-\$ or US-201100295960-\$ or US-20140311928-\$ or US-20190011524-\$ or US-201100295960-\$ or US-20140311928-\$ or US-20120011524-\$ or US-201100369404-\$ or US-20110192857-\$ or US-20100011524-\$ or US-2018013367-\$ or US-20060238281-\$ or US-20050284904-\$ or US-20802484847-\$ or US-20010025659-\$ or US-200701158360-\$), did. or (US-2008013637-\$ or US-20070215659-\$ or US-20070138360-\$), did. or (US-7869200-\$ or US-78061067-\$ or US-8081435-\$ or US-8081429-\$ or US-7888796-\$ or US-7880916-\$ or US-7880918-\$ or US-7880919-\$ or US-7880919-\$ or US-9880632-\$ or US-7890919-\$ or US-983099-\$ or US-983099-\$ or US-983099-\$ or US-983099-\$	US- PGPUB; USPAT	OR	OFF	2018/12/21 17:47
S753	0	S752 and (wireless near3 (headphone\$1 or (head near phone\$1) or earphone\$1 or (ear near phone\$1)))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:48
S754	0	S752 and (wireless near5 (headphone\$1 or (head near phone\$1) or earphone\$1 or (ear near phone\$1)))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:48
S755	18	\$752 and ((headphone\$1 or (head near phone\$1) or earphone\$1 or (ear near phone\$1)))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:48
S756	12	S755 and (wireless or (wire near less))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:49
S757	6400	(wireless near (headphone\$1 or (head near phone\$1) or earphone\$1 or (ear near phone\$1)))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:52
S758	1687	g06f1/1603,1605,1607.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:54
S759	21	S757 and S758	US-	OR	OFF	2018/12/21

			PGPUB; USPAT; USOCR			17:54
S760	6848	(wireless near (headphone\$1 or (head near phone\$1) or earphone\$1 or (ear near phone\$1) or earbud\$1 or (ear near bud\$1) or earplug\$1 or (ear near plug\$1)))	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:55
S761	6400	S757 and S760	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:56
S762	21	S758 and S760	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:56
S763	5492	g06f1/1601,1603,1605,1607.cpc.		OR	OFF	2018/12/21 17:56
S764	32	S763 and S760	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:56
S765	11	S764 not S759	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:56
S766	6169	S760 and (cas\$3 or hous\$3 or holder\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:58
S767	4711	S766 and display	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:58
S768	1994	S767 and (electronic near device)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:58
S769	1227	S768 and (magnet\$4 or magnetic\$4 or magnetiz\$4)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 17:59
S770	267	haughton.xa.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 18:07
S771	1233	haughton.xp.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 18:07
S772	1500	S770 S771	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 18:07
S773	470	S772 and cooling	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 18:07
S774	165	S773 and fluid	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 18:07
S775	120	S774 and liquid	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 18:24
S776	14	S775 and shield\$3	US- PGPUB;	OR	OFF	2018/12/21 18:28

			USPAT; USOCR			
\$777	165	US-20090168321-\$ or US-20110025943-\$ or US-20030063432-\$ or US-20110058326-\$ or US-20110025943-\$ or US-20030063432-\$ or US-20060038104-\$ or US-20050157457-\$ or US-20040012917-\$ or US-20120194976-\$ or US-20070279852-\$ or US-20130135230-\$ or US-20120194976-\$ or US-20150277489-\$ or US-20140270659-\$ or US-201201297592-\$ or US-201182677-\$ or US-20140270659-\$ or US-20140152890-\$ or US-201182677-\$ or US-20140270659-\$ or US-20140160055-\$ or US-20130335929-\$ or US-20170364123-\$ or US-20140160055-\$ or US-20130335929-\$ or US-20160357158-\$ or US-20150378397-\$ or US-2011029260-\$ or US-20160357158-\$ or US-2015029371-\$ or US-20140029171-\$ or US-20140029171-\$ or US-20120204453-\$ or US-20160207102-\$ or US-20160207782-\$ or US-20150206897-\$ or US-20160204183-\$ or US-2018021341-\$ or US-201500268697-\$ or US-20090134003-\$ or US-201802025960-\$ or US-20100075969-\$ or US-20090134003-\$ or US-201500295960-\$ or US-201100192857-\$ or US-20120314354-\$ or US-20150264470-\$ or US-20110192857-\$ or US-20100011524-\$ or US-20080244847-\$ or US-20110192857-\$ or US-20100011524-\$ or US-20080244847-\$ or US-20106238281-\$ or US-20050284904-\$ or US-20080244847-\$ or US-20060238281-\$ or US-20050284904-\$ or US-20080024847-\$ or US-20070215659-\$ or US-20070138360-\$).did. or (US-8400767-\$ or US-8681425-\$ or US-8681429-\$ or US-7898679-\$ or US-7898796-\$ or US-7869200-\$ or US-7724511-\$ or US-789727-\$ or US-25430607-\$ or US-7869200-\$ or US-7724511-\$ or	US- PGPUB; USPAT	OR	OFF	2018/12/21 18:33
S778	29	S777 and (fluid or liquird)	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 18:34
S779	15	S778 and shield\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 18:34
S780	3	(("9420728") or ("9437523") or ("9693488")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/12/21 23:52

12/26/2018 7:42:19 AM

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Bibliographic Data

Application No: 15/851,9	52		
Foreign Priority claimed:	O Yes	● No	
35 USC 119 (a-d) conditions met:	Yes	☑ No	Met After Allowance
Verified and Acknowledged:	/ANTHON	Y M HAUGHTON/	
	Examiner's	Signature	Initials
Title:		TUS FOR CLEANING THOD FOR THE USE	IEW SCREENS AND LENSES IEREOF

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
12/22/2017	361	2835	MAYG-1001-WO-USC3
RULE			

APPLICANTS

GUI GLOBAL PRODUCTS, LTD., Houston, TX, UNITED STATES

INVENTORS

Walter G. Mayfield Houston, TX, UNITED STATES

Daniel Martin Valdez Kingwood, TX, UNITED STATES

CONTINUING DATA

This application is a CON of 15597005 05/16/2017ABN

15597005 is a CON of 14343665 07/14/2014ABN

14343665 is a 371 of PCT/US2012/049562 08/03/2012

PCT/US2012/049562 has PRO of 61661090 06/18/2012

PCT/US2012/049562 has PRO of 61619229 04/02/2012

PCT/US2012/049562 has PRO of 61592344 01/30/2012

PCT/US2012/049562 has PRO of 61576834 12/16/2011

PCT/US2012/049562 has PRO of 61569093 12/09/2011

PCT/US2012/049562 has PRO of 61568031 12/07/2011

PCT/US2012/049562 has PRO of 61561087 11/17/2011

PCT/US2012/049562 has PRO of 61555310 11/03/2011

PCT/US2012/049562 has PRO of 61515752 08/05/2011

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

02/07/2018

STATE OR COUNTRY

UNITED STATES

ADDRESS

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

FILING FEE RECEIVED

\$1,740

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

87627 7590 02/26/2019 Mossman, Kumar & Tyler PC P.O. Box 421239 Houston, TX 77242 EXAMINER

HAUGHTON, ANTHONY MICHAEL

ART UNIT PAPER NUMBER

2835

DATE MAILED: 02/26/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/851.952	12/22/2017	Walter G. Mayfield	MAYG-1001-WO-USC3	9301

TITLE OF INVENTION: APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF

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	05/28/2019

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

PTOL-85 (Rev. 02/11)

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web. Mail Stop ISSUE FEE By mail, send to: By fax, send to: (571)-273-2885 Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) have its own certificate of mailing or transmission. Certificate of Mailing or Transmission 02/26/2019 87627 7590 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope Mossman, Kumar & Tyler PC P.O. Box 421239 addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below. Houston, TX 77242 (Typed or printed name (Signature (Date FIRST NAMED INVENTOR CONFIRMATION NO. APPLICATION NO. FILING DATE ATTORNEY DOCKET NO. 15/851,952 12/22/2017 Walter G. Mayfield MAYG-1001-WO-USC3 9301 TITLE OF INVENTION: APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF 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 05/28/2019 EXAMINER ART UNIT CLASS-SUBCLASS HAUGHTON, ANTHONY MICHAEL 2835 361-679010 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). For printing on the patent front page, list (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is "Fee Address" indication (or "Fee Address" Indication form PTO/ listed, no name will be printed. SB/47; Rev 03-09 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent) : 🖵 Individual 🖵 Corporation or other private group entity 🖵 Government ☐Issue Fee Advance Order - # of Copies 4a. Fees submitted: Publication Fee (if required) 4b. Method of Payment: (Please first reapply any previously paid fee shown above) ☐ Electronic Payment via EFS-Web Enclosed check Non-electronic payment by credit card (Attach form PTO-2038) The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 5. Change in Entity Status (from status indicated above) NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue Applicant certifying micro entity status. See 37 CFR 1.29 fee payment in the micro entity amount will not be accepted at the risk of application abandonment. NOTE: If the application was previously under micro entity status, checking this box will be taken ☐ Applicant asserting small entity status. See 37 CFR 1.27 to be a notification of loss of entitlement to micro entity status NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro Applicant changing to regular undiscounted fee status. entity status, as applicable NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications Authorized Signature Date Typed or printed name Registration No.

Page 2 of 3

PTOL-85 Part B (08-18) Approved for use through 01/31/2020

OMB 0651-0033

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

UNITED STATES PATENT AND TRADEMARK OFFICE



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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/851,952	12/22/2017	Walter G. Mayfield	MAYG-1001-WO-USC3	9301
87627 75	90 02/26/2019		EXAM	IINER
Mossman, Kumar & Tyler PC			HAUGHTON, ANT	THONY MICHAEL
P.O. Box 421239 Houston, TX 7724	2		ART UNIT	PAPER NUMBER
			2835	

DATE MAILED: 02/26/2019

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(Applications filed on or after May 29, 2000)

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

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

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

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

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

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

Privacy Act Statement

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

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

- 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. 15/851,952	Applicant(s) Mayfield et al.				
Notice of Allowability	Examiner ANTHONY M HAUGHTON	Art Unit 2835	AIA Status No			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to the interview conducted on 2/12/2019.						
☐ A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was						
2. An election was made by the applicant in response to a res restriction requirement and election have been incorporated		the interview or	n; the			
3. The allowed claim(s) is/are 1-19. As a result of the allowed claim(s), you may be eligible to benefit from the Patent Prosecution Highway program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.						
4. Acknowledgment is made of a claim for foreign priority undended Certified copies:	er 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some *c) None of the:						
 Certified copies of the priority documents hav Certified copies of the priority documents hav 		·				
 Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	ocuments have been received in this	national stage	application from the			
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with	the requirements			
5. CORRECTED DRAWINGS (as "replacement sheets") must including changes required by the attached Examiner's Paper No./Mail Date		ffice action of				
Identifying indicia such as the application number (see 37 CFR 1 sheet. Replacement sheet(s) should be labeled as such in the he	* **	ngs in the front	(not the back) of each			
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of E attached Examiner's comment regarding REQUIREMENT F			the			
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☑ Examiner's Ameno	lment/Commer	nt			
2. Information Disclosure Statements (PTO/SB/08),	6. ☑ Examiner's Statem					
Paper No./Mail Date 3. Examiner's Comment Regarding Requirement for Deposit of Biological Material	7.					
4. ☑ Interview Summary (PTO-413), Paper No./Mail Date						
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835						
,						
U.S. Patent and Trademark Office						
	of Allowability Pa	rt of Paper No./N	1ail Date 20190219			

Notice of Allowability

Application/Control Number: 15/851,952

Art Unit: 2835

DETAILED ACTION

Page 2

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions

be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure

consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an interview with Gene Tyler on

2/12/2019.

The application has been amended as follows:

Regarding Claim 1: Claim 1 should read as follows:

1. A system comprising:

a portable switching device coupled to a portable electronic device;

wherein:

the switching device and the electronic device are configured to selectively couple to each

other employing magnetic force from a first magnet disposed within the switching device;

the switching device comprises a first case;

the electronic device comprises a second case and an electronic circuit that is responsive

to the switching device;

the electronic device comprises at least one element selected from the group consisting of

beveled edges, ridges, recessed areas, grooves, slots, indented shapes, bumps, raised

shapes, and combinations thereof; configured to correspond to complimentary surface

elements on the switching device;

the portable switching device is configured to activate, deactivate or send into hibernation the

portable electronic device; and

when coupled, the second case functions to protect the first case.

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Allowable Subject Matter

Claims 1-19 allowed.

The following is an examiner's statement of reasons for allowance: Claims 1-19 are considered to be allowable because the prior art of record neither anticipates nor renders obvious the limitations of the base claim 1. Claim 1 includes a system comprising: a portable switching device coupled to a portable electronic device; wherein: the switching device and the electronic device are configured to selectively couple to each other employing magnetic force from a first magnet disposed within the switching device; the switching device comprises a first case; the electronic device comprises a second case and an electronic circuit that is responsive to the switching device; the portable switching device is configured to activate, deactivate or send into hibernation the portable electronic device; and when coupled, the second case functions to protect the first case in combination with all other elements of the base claim. Claims 2-19 are all dependent upon claim 1 and are considered to be allowable at least for the same reasons as claim 1.

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

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANTHONY MICHAEL HAUGHTON whose telephone number is (571)272-9087. The examiner can normally be reached on M-F 8a-4p.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jinhee Lee can be reached on 571-272-1977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835

	Application No. 15/851,952 Applicant(s) Mayfield et al.				
Applicant-Initiated Interview Summary	Examiner ANTHONY M HAUGHTON	Art Unit 2835	AIA Status No		
All participants (applicant, applicants representative, PTO p	personnel):				
(1) ANTHONY MICHAEL. HAUGHTON.	(3)				
(2) Gene Tyler (Reg. No. 35,395).	(4)				
Date of Interview: 12 February 2019.					
Type: ☑ Telephonic ☐ Video Conference ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]					
Exhibit shown or demonstration conducted:					
Issues Discussed 101 112 112 102 103 (For each of the checked box(es) above, please describe below the issue and details	Others ed description of the discussion)				
Claim(s) discussed: <u>1-19</u> .					
Identification of prior art discussed: Rothbaum (2011/01928	<u>857)</u> .				
Substance of Interview (For each issue discussed, provide a detailed description and indicate if agreement reference or a portion thereof, claim interpretation, proposed amendments, arguments.)		lentification or clarifica	tion of a		
Proposed amendments were discussed in relation to the cuamendments would overcome the current art rejections	rrent art rejections and it was	agreed the propo	esed		
Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview					
Examiner recordation instructions : Examiners must summarize the subthe substance of an interview should include the items listed in MPEP 713.0 general thrust of each argument or issue discussed, a general indication of general results or outcome of the interview, to include an indication as to what the interview of the interv	04 for complete and proper recordation any other pertinent matters discussed	n including the identif I regarding patentabil	ication of the ity and the		
☐ Attachment					
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835					

U.S. Patent and Trademark Office PTOL-413 (Rev. 8/11/2010)

Interview Summary

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C.

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,

 (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.

l	Search Notes

Application/Control No.	Applicant(s)/Patent Under Reexamination
15/851,952	Mayfield et al.
Examiner	Art Unit
ANTHONY M HAUGHTON	2835

CPC - Searched*			
Symbol Date Ex			
g06f1/32,16,1601,1603,1605,1607,1609,1611	12/26/2018	AMH	
B08B1/006,002	12/26/2018	AMH	
g06f1/32,16,1601,1603,1605,1607,1609,1611	02/19/2019	AMH	
B08B1/006,002	02/19/2019	AMH	

CPC Combination Sets - Searched*			
Symbol Date Examiner			

US Classification - Searched*			
Class Subclass Date Examine			
361	679.01, 679.02	12/26/2018	АМН
361	679.01, 679.02	02/19/2019	AMH

 $^{^{\}star}$ 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)	12/26/2018	АМН	
INVENTOR SEARCH	12/26/2018	АМН	
IP.COM SEARCH	12/26/2018	АМН	
CLASSIFICATION SEARCH IN COMBINATION WITH TEXT SEARCH	12/26/2018	АМН	
UPDATED EAST SEARCH	02/19/2019	АМН	
UPDATED INVENTOR SEARCH	02/19/2019	АМН	
IP.COM SEARCH	02/19/2019	АМН	
CLASSIFICATION SEARCH IN COMBINATION WITH TEXT SEARCH 361/679.01,679.02; g06f1/32,16,1601,1603,1605,1607,1609,1611; B08B1/006,002	02/19/2019	АМН	

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	

U.S. Patent and Trademark Office

Part of Paper No.: 20190219

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Search Notes	15/851,952	Mayfield et al.
	Examiner	Art Unit
	ANTHONY M HAUGHTON	2835

Interference Search				
US Class/CPC Symbol US Subclass/CPC Group Date Examiner				
	PG-PUB CLAIM TEXT SEARCH	02/19/2019	AMH	
361	679.01, 679.02	02/19/2019	AMH	
G06F1	32, 16, 1601, 1607	02/19/2019	AMH	
B08B1	006, 002	02/19/2019	AMH	

/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	

U.S. Patent and Trademark Office
Page 2 of 2
Part of Paper No.: 20190219

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	15/851,952	Mayfield et al.
	Examiner	Art Unit
	ANTHONY M HAUGHTON	2835

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

CPC Combination Sets					
Symbol	Туре	Set	Ranking	Version	

NONE	Total Claims Allowed:			
(Assistant Examiner)	(Date)	19		
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	19 February 2019	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	1	1	

U.S. Patent and Trademark Office Part of Paper No.: 20190219

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	15/851,952	Mayfield et al.
	Examiner	Art Unit
	ANTHONY M HAUGHTON	2835

INTERNATIONAL CLASSIFICATION						
CLAIMED						
G06F	1	16				
H05K	/ 5	// 00				
H05K	7	/ 00				
NON-CLAIMED						

US ORIGINAL CLASSIFICATION					
CLASS	SUBCLASS				
361	679.01				

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

NONE	Total Claims Allowed:			
(Assistant Examiner)	(Date)	19		
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	19 February 2019	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	1	1	

U.S. Patent and Trademark Office Part of Paper No.: 20190219

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	15/851,952	Mayfield et al.
	Examiner	Art Unit
	ANTHONY M HAUGHTON	2835

\checkmark	Claims re	enumbe	ered in th	ne sam	e order a	as pres	ented by	applica	ant [] CPA		T.D.	□ R. ²	1.47	
CLAI	MS														
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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NONE	Total Claims Allowed:			
(Assistant Examiner)	(Date)	19		
/ANTHONY M HAUGHTON/ Primary Examiner, Art Unit 2835	19 February 2019	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	1	1	

U.S. Patent and Trademark Office Part of Paper No.: 20190219

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	150	((("REGIMBAL") near3 ("Laurent")) OR (("MORRISON") near3 ("Jason"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/19 12:35
L2	1025	((("ROBERTSON") near3 ("William")) OR (("BERNARD") near3 ("Daniel"))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/19 12:35
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S122	111343	S86 S87 S88	US-PGPUB	AND	OFF	2009/01/15 12:08
S123	1152	S115 S122	US-PGPUB	AND	OFF	2009/01/15 12:08
S124	2525	S92 S93	US-PGPUB	AND	OFF	2009/01/15 12:08
S125	3	S123 S124	US-PGPUB	AND	OFF	2009/01/15 12:08
S126	6425	S90 S91	US-PGPUB	AND	OFF	2009/01/15 12:08
S127	4	S123 S126	US-PGPUB	AND	OFF	2009/01/15 12:08
S128	0	S89 S127	US-PGPUB	AND	OFF	2009/01/15 12:08
S129	50	S88 S89 S90 S91	US-PGPUB	AND	OFF	2009/01/15 12:09
S130	0	S129 S115	US-PGPUB	AND	OFF	2009/01/15 12:09
S131	0	S129 S100	US-PGPUB	AND	OFF	2009/01/15 12:09
S132	0	S129 S92 S93	US-PGPUB	AND	OFF	2009/01/15 12:09
S133	924	361/679.26.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:23
S134	1830	361/679.27.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:23
S135	637	361/679.3.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:23
S136	2142	361/679.55.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:23
S137	992	361/679.56.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:23
S138	21156	345/173.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:24
S139	4603	345/168.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:24
S140	492	345/170.ccls.	US- PGPUB; USPAT;	OR	OFF	2015/06/27 01:24

L			USOCR			
S141	725	345/172.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:24
S142	655	361/679.08.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:25
S143	895	361/679.09.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:25
S144	2783	(project\$3 near3 (keyboard or keypad or ((key near board) or (key near pad))))	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:26
S145	13	S133 and S144	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:26
S146	31	S134 and S144	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:26
S147	4	S135 and S144	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:26
S148	28	S136 and S144	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:26
S149	3	S137 and S144	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:26
S150	140	S138 and S144	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:26
S151	248	S139 and S144	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:26
S152	22	S140 and S144	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:26
S153	7	S141 and S144	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:26
S154	31	S142 and S144	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:26
S155	36	S143 and S144	US-	OR	OFF	2015/06/27

			PGPUB; USPAT; USOCR			01:26
S156	114	S154 S155 S145 S146 S147 S148 S149	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:27
S157	375	S150 S151 S152 S153	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:27
S158	16	S156 and (touch near (screen or panel))	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:27
S159	187	S157 and (touch near (screen or panel))	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:27
S160	98	S156 not S158	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:29
S161	6	("6266048" "6614422" "6650318" "6690357" "6710770" "6734879").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:33
S162	1	"20100214270"	USPAT	OR	OFF	2015/06/27 01:54
S163	2	"20100214270"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:54
S164	1	"8228307".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:54
S165	3	S162 S163 S164	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 01:54
S166	1	"20120032887"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:01
S167	1	"20030165048"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:01
S168	2	S166 S167	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:01
S169	1	"20070182663"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:04
S170	97	("2007/0182663").URPN.	USPAT	OR	OFF	2015/06/27

			***************************************			02:04
S171	1	"20130016469"	USPAT	OR	OFF	2015/06/27 02:05
S172	22	(US-20070182663-\$ or US-20070153461-\$ or US-20060028792-\$ or US-20030165048-\$ or US-20140145958-\$ or US-20120169621-\$ or US-20120169623-\$ or US-20120169622-\$ or US-20120169623-\$ or US-20140132521-\$).did. or (US-7074999-\$ or US-6710770-\$ or US-6650318-\$ or US-6614422-\$ or US-6266048-\$ or US-8284549-\$ or US-8228307-\$ or US-7016711-\$ or US-7436657-\$ or US-7864517-\$ or US-7542273-\$).did.	US- PGPUB; USPAT	OR	OFF	2015/06/27 02:12
S173	1	S172 and haptic	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:12
S174	21156	345/173.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:12
S175	4603	345/168.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:12
S176	492	345/170.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:12
S177	725	345/172.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:12
S178	2783	(project\$3 near3 (keyboard or keypad or ((key near board) or (key near pad))))	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:12
S179	140	S174 and S178	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:12
S180	248	S175 and S178	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:12
S181	22	S176 and S178	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:12
S182	7	S177 and S178	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:12
S183	375	S179 S180 S181 S182	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:12
S184	46	S183 and haptic	US- PGPUB;	OR	OFF	2015/06/27 02:12

			USPAT; USOCR			
S185	0	S183 and (haptic near2 surface)	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:13
S186	267	haughton.xa.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:18
S187	385	haughton.xp.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:18
S188	652	S186 S187	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:18
S189	159	S188 and hing\$4	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:19
S190	43	S189 and (touch near (screen or panel))	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:19
S191	27	S190 and tablet\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:19
S192	303	G06F1/1618.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:20
S193	104	G06F1/1673.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:21
S194	560	G06F1/1692.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:21
S195	1451	G06F1/1643.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:22
S196	0	S192 S193 S194 S195	US- PGPUB; USPAT; USOCR	AND	OFF	2015/06/27 02:22
S197	0	S192 S193 S194	US- PGPUB; USPAT; USOCR	AND	OFF	2015/06/27 02:22
S198	0	S192 S193 S195	US- PGPUB; USPAT; USOCR	AND	OFF	2015/06/27 02:23

S199	5	S192 S194 S195	US- PGPUB; USPAT; USOCR	AND	OFF	2015/06/27 02:23
S200	0	S193 S194 S195	US- PGPUB; USPAT; USOCR	AND	OFF	2015/06/27 02:23
S201	1	S192 S193	US- PGPUB; USPAT; USOCR	AND	OFF	2015/06/27 02:23
S202	0	S193 S194	US- PGPUB; USPAT; USOCR	AND	OFF	2015/06/27 02:23
S203	4	S193 S195	US- PGPUB; USPAT; USOCR	AND	OFF	2015/06/27 02:23
S204	10	S199 S201 S203	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/27 02:23
S205	0	"20040057211"	USPAT	OR	OFF	2015/06/28 12:13
S206	1	"20040057211"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:15
S207	2	"20060126304"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:29
S208	2	"20090310296"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:30
S209	0	"2011100607"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:30
S210	0	"2010100607"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:30
S211	0	"2011000607"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:30
S212	1	"20110100607"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:30
S213	5	S212 S208 S207	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:31

S214	2	"20110303394"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:38
S215	2	"20070035928"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:38
S216	1	"20120291997"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:38
S217	5	S214 S215 S216	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:38
S218	6	"8607976"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:45
S219	1	"8607976".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:45
S220	1	"20130229100"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 12:59
S221	1	"20090237420"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 13:00
S222	2	S220 S221	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 13:00
S223	1	"20040218349"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/28 14:48
S224	50	((Wade) near2 (Burch)).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/29 03:13
S225	29	((Jason) near2 (Crowe)).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/29 03:13
S226	32	((Steven) near2 (Hyma)).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/29 03:13
S227	12	((Timothy) near2 (Janda)).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/29 03:13
S228	129	((Michael) near2 (Steele)).INV.	US- PGPUB; USPAT;	OR	OFF	2015/06/29 03:13

L			USOCR			
S229	1	"20110002096"	USPAT	OR	OFF	2015/06/29 03:13
S230	2	"20110002096"	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/29 03:13
S231	79	((Wah) near2 (Kwong)).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/29 03:23
S232	119	((Hong) near2 (Wong)).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/29 03:23
S233	18	((Christine) near2 (Kim)).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2015/06/29 03:24
S234	1	"20110002096"	USPAT	OR	OFF	2015/11/30 02:02
S235	0	"20120032887"	USPAT	OR	OFF	2015/11/30 02:09
S236	1	"20120032887"	US- PGPUB; USPAT	OR	OFF	2015/11/30 02:10
S237	2	("20150036864" "20080004083").PN.	US- PGPUB; USPAT	OR	OFF	2016/02/18 09:17
S238	1	"7821786".PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/02/18 20:54
S239	1	"6473296".PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/02/18 20:54
S240	2	S238 S239	US- PGPUB; USPAT; USOCR	OR	OFF	2016/02/18 20:54
S241	2	("20080141875" "6294886").PN.	US- PGPUB; USPAT	OR	OFF	2016/02/20 16:59
S242	1	"6473296".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/02/21 15:15
S243	1	"7821786".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/02/21 15:16
S244	2	S242 S243	US- PGPUB; USPAT; USOCR	OR	OFF	2016/02/21 15:16
S245	958	361/679.26. CCLS.	US- PGPUB;	OR	OFF	2016/03/07 13:36

			USPAT; USOCR			
S246	1875	361/679.27.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:36
S247	658	361/679.3.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:36
S248	2210	361/679.55.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:36
S249	1025	361/679.56.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:36
S250	665	361/679.08.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:36
S251	922	361/679.09.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:36
S252	4672	345/168. CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:36
S253	498	345/170.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:36
S254	730	345/172.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:36
S255	22350	345/173. CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:36
S256	23301	S255 S254 S253	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:37
S257	26993	S252 S256	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:37
S258	6517	S251 S250 S249 S248 S247 S246 S245	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:37
S259	535	g06f1/1618.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:37
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S260	1873	g06f1/1643.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:37
S261	0	g06f1/16763.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:37
S262	114	g06f1/1673.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:37
S263	673	g06f1/1692.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:37
S264	2738	S260 S262 S263 S259	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:37
S265	83	(("KWONG") near3 ("Wah")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:39
S266	145	(("WONG") near3 ("Hong")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:39
S267	19	(("KIM") near3 ("Christine")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:39
S268	2738	S259 S260 S262 S263	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:41
S269	23301	\$256	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:41
S270	26993	S257	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:41
S271	295	S268 AND (FIRST NEAR HOUSING)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:41
S272	387	S269 AND (FIRST NEAR HOUSING)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:41
S273	511	S270 AND (FIRST NEAR HOUSING)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:41
S274	2	S271 AND (KICKSTAND OR (KICK NEAR STAND))	US- PGPUB; USPAT;	OR	OFF	2016/03/07 13:42

			USOCR			
S275	3	S272 AND (KICKSTAND OR (KICK NEAR STAND))	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:42
S276	3	S273 AND (KICKSTAND OR (KICK NEAR STAND))	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:42
S277	124	S271 AND TABLET	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:42
S278	105	S272 AND TABLET	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:42
S279	127	S273 AND TABLET	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:42
S280	13	S277 AND CLAMSHELL	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:42
S281	12	S278 AND CLAMSHELL	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:42
S282	14	S279 AND CLAMSHELL	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:43
S283	7610	S279 A40 S275 S276	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:43
S284	5	S274 S275 S276	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:43
S285	293	S271 AND DISPLAY	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:44
S286	371	S272 AND DISPLAY	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:44
S287	477	S273 AND DISPLAY	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:44
S288	693	S285 S286 S287	US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:44
S289	379	S288 AND HING\$3	US-	OR	OFF	2016/03/07

			PGPUB; USPAT;			13:44
S290	227	S289 AND (TOUCHSCREEN OR (TOUCH NEAR SCREEN))	USOCR US- PGPUB; USPAT; USOCR	OR	OFF	2016/03/07 13:44
S328	52	(US-20060146487-\$ or US-20100067184-\$ or US-20040264118-\$ or US-20040021051-\$ or US-20070236873-\$ or US-20070159778-\$ or US-20070177344-\$ or US-20060018089-\$ or US-20110038119-\$ or US-20110058112-\$ or US-20090168338-\$ or US-20110058112-\$ or US-20100289972-\$ or US-20100149438-\$ or US-20100289972-\$ or US-20090147155-\$ or US-2009009667-\$ or US-20050139740-\$ or US-20090009667-\$ or US-20050001114-\$ or US-20080265121-\$ or US-20070062089-\$ or US-20100302153-\$ or US-20060050471-\$ or US-20090261216-\$ or US-20060050471-\$ or US-20090261216-\$ or US-20060050471-\$ or US-20050269479-\$ or US-20040084588-\$ or US-20100165553-\$).did. or (US-7542276-\$ or US-5375076-\$ or US-7916478-\$ or US-7898801-\$ or US-7898796-\$ or US-7660113-\$ or US-7898796-\$ or US-7660113-\$ or US-792429-\$ or US-5235495-\$ or US-7974084-\$ or US-7922133-\$ or US-7866615-\$ or US-7233488-\$ or US-7667957-\$ or US-739506-\$ or US-75323290-\$ or US-5640301-\$ or US-7636133-\$ or US-7667957-\$ or US-7239506-\$ or US-75323290-\$ or US-5640301-\$ or US-7649576-\$).did. or (US-7839626-\$ or US-7780131-\$ or US-751883-\$ or US-7472880-\$ or US-7647773-\$ or US-7637507-\$ or US-7784758-\$ or US-6496541-\$ or US-6795507-\$ or US-7784758-\$ or US-6796541-\$ or US-6795507-\$ or US-7837810-\$ or US-784753-\$ or US-6796541-\$ or US-6672558-\$ or US-784753-\$ or US-6975507-\$ or US-7937810-\$ or US-7848753-\$ or US-699507-\$ or US-7937810-\$ or US-7848753-\$ or US-6995300-\$ or US-6642258-\$ or US-8858162-\$ or US-7937810-\$ or US-784858162-\$ or US-7954152-\$ or US-5150222-\$).did.		OR	OFF	2016/05/02 12:36
S329	20	S328 and ((laptop or (lap near top) or notebook or clamshell or portable) near computer)	USPAT	OR	OFF	2016/05/02 12:37
S330	84	(US-20060146487-\$ or US-20100067184-\$ or US-20040264118-\$ or US-20040021051-\$ or US-20070236873-\$ or US-20070159778-\$ or US-20070177344-\$ or US-20060018089-\$ or US-20110038119-\$ or US-20110058112-\$ or US-20100289972-\$ or US-20100149438-\$ or US-20100289972-\$ or US-20100149438-\$ or US-20040041851-\$ or US-20090147155-\$ or US-20090009667-\$ or US-20050139740-\$ or US-20060049327-\$ or US-20050001114-\$ or US-20080265121-\$ or US-20070062089-\$ or US-20100302153-\$ or US-20060050471-\$ or US-20090261216-\$ or US-20060082957-\$).did. or (US-20060077623-\$ or US-20070075208-\$ or US-20050269479-\$ or US-20040084588-\$ or US-20100165553-\$).did. or (US-7542276-\$ or US-5375076-\$ or US-7916478-\$ or US-7898801-\$ or US-7898796-\$ or US-7660113-\$ or US-7450372-\$ or US-D538800-\$ or US-6301101-\$ or US-	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 12:37

		5729429-\$ or US-5235495-\$ or US-7974084-\$ or US-7922133-\$ or US-7760493-\$ or US-7636133-\$ or US-7580248-\$ or US-7866615-\$ or US-7233488-\$ or US-7667957-\$ or US-7239506-\$ or US-5396399-\$ or US-5107402-\$ or US-7926781-\$ or US-5323290-\$ or US-5640301-\$ or US-7649576-\$).did. or (US-7839626-\$ or US-7780131-\$ or US-7571883-\$ or US-7472880-\$ or US-7467773-\$ or US-7143478-\$ or US-6191940-\$ or US-5646818-\$ or US-6975507-\$ or US-7784758-\$ or US-6796541-\$ or US-6672558-\$ or US-6543734-\$ or US-6851656-\$ or US-7232098-\$ or US-6016248-\$ or US-7937810-\$ or US-6807050-\$ or US-2388567-\$ or US-5927673-\$ or US-7948753-\$ or US-5293300-\$ or US-5642258-\$ or US-4858162-\$ or US-7054152-\$ or US-5150222-\$).did.				
S331	28	S330 and ((laptop or (lap near top) or notebook or clamshell or portable) near computer)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 12:37
S332	20	("2004/0264118").URPN.	USPAT	OR	OFF	2016/05/02 12:37
S333	29	(US-20070182663-\$ or US-20070153461-\$ or US-20060028792-\$ or US-20030165048-\$ or US-20140145958-\$ or US-20130181905-\$ or US-20120169621-\$ or US-20120169623-\$ or US-20120169622-\$ or US-20120169623-\$ or US-20140132521-\$ or US-20110002096-\$ or US-20110038119-\$ or US-20040264118-\$).did. or (US-7074999-\$ or US-6710770-\$ or US-6650318-\$ or US-6614422-\$ or US-6266048-\$ or US-8284549-\$ or US-8228307-\$ or US-7016711-\$ or US-7436657-\$ or US-7864517-\$ or US-7542273-\$ or US-8941979-\$ or US-8792947-\$ or US-8660621-\$ or US-7136282-\$).did.	US- PGPUB; USPAT	OR	OFF	2016/05/02 12:38
S334	25	S333 and (process\$3 or cpu or microprocess\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 12:38
S335	8	("20050132536" "20090033785" "20090290298" "20090322967" "5235495" "7156351").PN. OR ("8284549").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 12:43
S336	5	("2009/0322967").URPN.	USPAT	OR	OFF	2016/05/02 12:46
S337	17	("20020180726" "20050128695" "20050132536" "20060291020" "20080136973" "20090322967" "20110279687" "20110286170" "5218389" "5521660" "6198624" "6597410" "6806850" "7156351" "7677737" "7712903").PN. OR ("8264599").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 12:46
S338		G06F1/1667.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 12:49
S339	349	G06F1/1664.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 12:49

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S340	65	S338 and (process\$3 or cpu or microprocess\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 12:49
S341	289	S339 and (process\$3 or cpu or microprocess\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 12:49
S342	8	("20050132536" "20090033785" "20090290298" "20090322967" "5235495" "7156351").PN. OR ("8284549").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 12:59
S343	64	("2388567" "3878964" "3924775" "4089464" "4196821" "4669053" "4951241" "4964018" "5049862" "5100098" "5168601").PN. OR ("5235495").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:01
S344	17	("20100165553" "4951241" "5235495" "5293300" "5351508" "5375076" "5642258" "5721668" "7206198" "7342778" "7492581" "7576981" "7612998").PN. OR ("7948753").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:04
S345	56	("4926365").PN. OR ("5293300").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:06
S346	157	361/679.11.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:18
S347	103	361/679.12.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:18
S348	967	361/679.26.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:18
S349	1881	361/679.27.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:19
S350	241	361/679.28.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:19
S351	242	S346 S347	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:19
S352	2815	S348 S349 S350	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:19
S353	133	S351 and (process\$3 or cpu or microprocess\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:19
S354	1820	S352 and (process\$3 or cpu or microprocess\$3)	US- PGPUB;	OR	OFF	2016/05/02 13:19

			USPAT; USOCR			
S355	133	S353 and (process\$3 or cpu or microprocess\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:19
S356	1820	S354 and (process\$3 or cpu or microprocess\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:19
S357	23	(("KNEPPER") near3 ("Lawrence")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:20
S358	227	(("MEYERS") near3 ("David")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:20
S359	2	"20140002096"	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:21
S360	2	"20110002096"	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:21
S361	1	"8264599".PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:22
S362	1	"7948753".PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:22
S363	2	S361 S362	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:22
S364	1	"8284549".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:36
S365	1	"8264599".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:38
S366	2	"20140036423"	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:46
S367	1	"8059393".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:46
S368	3	S366 S367	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:46
[

S369	8819	g06f1/1616.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:59
S370	551	g06f1/1615.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:59
S371	1395	g06f1/1613.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 13:59
S372	2	("2014/0036423").URPN.	USPAT	OR	OFF	2016/05/02 14:00
\$373	37	("20040134031" "20050044663" "20050050687" "20050055806" "20060032020" "20060048337" "20070089270" "20090217486" "20100026854" "20120036679" "20120102675" "20130044422" "20130119842" "20130170122" "20130175914" "20130182403" "20130308262" "20130318746" "20130342974" "20140007379" "20140016250" "20140036423" "20140047672" "201400331452" "20140352113" "20140331452" "20150089770" "20150007416" "20150009614" "20150121654" "6115886" "6175990" "8625267" "9021658").PN. OR ("9274565").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 14:00
S374	627	16/337.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 14:02
S375	796	16/342.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 14:02
S376	968	16/366.CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 14:02
S377	2266	S374 S375 S376	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 14:02
S378	692	S377 AND ((FIRST AND SECOND) NEAR3 HING\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 14:03
S379	19	(("HIRAO") near3 ("Hiroaki")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 14:07
S380	22	(("TATEMICHI") near3 ("Atsushi")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/02 14:07
S381	25	("20010003450" "20010034249" "20020090980" "20030048256" "20030109286"	US- PGPUB;	OR	OFF	2016/05/03 22:26

		"20030144034" "20040061683" "20060034039" "20060061555" "20060146488" "20060194619" "20060209218" "5267708" "5613223" "5986813" "6229514" "6311076" "6369952" "6643124" "6771232" "6801855" "7050835" "7180665" "7184086" "7187363").PN.	USPAT		***************************************	
S382	4193	(shoulder near pad\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/03 22:36
S383	1032	S382 and football	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/03 22:36
S384	213	S383 and sensor\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/03 22:36
S385	76	S383 and ((sensor\$1) with (shoulder near pad\$1))	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/03 22:36
S386	2	"20110060260"	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/03 22:37
S387	1	"20130308271"	USPAT	OR	OFF	2016/05/10 15:43
S388	2	"20130308271"	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/10 15:46
S389	4	("6389643" "6213671" "5325984" "20060112519").PN.	US- PGPUB; USPAT	OR	OFF	2016/05/16 11:40
S390	48	(US-20070182663-\$ or US-20070153461-\$ or US-20060028792-\$ or US-20030165048-\$ or US-20140145958-\$ or US-20130181905-\$ or US-20120169621-\$ or US-20120169623-\$ or US-20120169622-\$ or US-20110002096-\$ or US-20110038119-\$ or US-20110002096-\$ or US-20110038119-\$ or US-20040264118-\$ or US-20090322967-\$ or US-20110279687-\$ or US-20150193009-\$ or US-20140160654-\$ or US-20130308263-\$ or US-20130329394-\$ or US-20130308263-\$ or US-20130329394-\$ or US-2030038567-\$).did. or (US-7074999-\$ or US-6710770-\$ or US-6650318-\$ or US-6614422-\$ or US-6266048-\$ or US-8284549-\$ or US-7864517-\$ or US-7542273-\$ or US-8941979-\$ or US-8792947-\$ or US-8660621-\$ or US-7136282-\$ or US-8264599-\$ or US-8848366-\$ or US-7948753-\$ or US-7686261-\$ or US-7612998-\$ or US-7450372-\$ or US-5323290-\$ or US-5642258-\$ or US-5293300-\$ or US-7113397-\$ or US-9274565-\$).did. or (US-9152169-\$).did.	US- PGPUB; USPAT	OR	OFF	2016/05/16 11: 4 2
S391	52	S389 S390	US- PGPUB; USPAT;	OR	OFF	2016/05/16 11:42

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L		1	USOCR			
S392	177990	"52" and clutch	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 11:42
S393	4	S391 and clutch	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 11:42
S394	1	S390 and clutch	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 11:42
S395	1361	361/679.41-679.44.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 11:46
S396	328	S395 and tablet	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 11:46
S397	133	S396 and hing\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 11:46
S398	1	S397 and clutch\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 11:46
S399	363	S395 and hing\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 11:48
S400	191314	"31" and clutch\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 11:48
S401	9	S399 and clutch\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 11:48
S402	2	S396 and clutch\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 11:53
S403	76	S397 and lock\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 11:54
S404	34	S403 and friction	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 12:16
S405	7	S404 and cam	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 12:17
S406	51	(US-20070182663-\$ or US-20070153461-\$ or US-	US-	OR	OFF	2016/05/16

		20060028792-\$ or US-20030165048-\$ or US-20140145958-\$ or US-20130181905-\$ or US-20120169621-\$ or US-20120032887-\$ or US-20120169622-\$ or US-20120169623-\$ or US-20140132521-\$ or US-20110002096-\$ or US-20110038119-\$ or US-20040264118-\$ or US-201900322967-\$ or US-20110279687-\$ or US-20150130309-\$ or US-20140160654-\$ or US-20150130309-\$ or US-20140160654-\$ or US-20130308263-\$ or US-20130329394-\$ or US-20030038567-\$ or US-20140098485-\$ or US-20150116927-\$ or US-20130322011-\$).did. or (US-7074999-\$ or US-6710770-\$ or US-6650318-\$ or US-6614422-\$ or US-6266048-\$ or US-8284549-\$ or US-8228307-\$ or US-7016711-\$ or US-7436657-\$ or US-7864517-\$ or US-7542273-\$ or US-8941979-\$ or US-8792947-\$ or US-8660621-\$ or US-7136282-\$ or US-8264599-\$ or US-8848366-\$ or US-7948753-\$ or US-7686261-\$ or US-7612998-\$ or US-7450372-\$ or US-5323290-\$ or US-5642258-\$ or US-5293300-\$ or US-7113397-\$ or US-9274565-\$).did. or (US-9152169-\$).did.	PGPUB; USPAT			12:24
S407	1	S406 and gear	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 12:25
S408	8	S406 and friction	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 12:25
S409	9	S397 and gear	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 12:35
S410	31	S399 and gear	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 12:36
S411	103	361/679.12.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 12:55
S412	6462	G06F1/1632.CPC.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 12:56
S413	322	friction near hing\$3.clm.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:43
S414	1965	friction near hing\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:43
S415	267	haughton.xa.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:43
S416	601	haughton.xp.	US- PGPUB; USPAT;	OR	OFF	2016/05/16 13:43

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			USOCR			
S417	868	S415 S416	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:43
S418	8	S414 and S417	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:43
S419	30	("20040228077" "20070041151" "20070206349" "20080174943" "4960256" "5128662" "5168426" "5255214" "5375076" "5481430" "5494447" "5507072" "5729429" "5768096" "5949643" "6016171" "6081207" "6229693" "6233138" "6272006" "6464195" "6665175" "7724511" "7917993" "D366032").PN. OR ("8390997").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:45
S420	14	("20050117286" "20060023408" "20070201199" "20070201200" "6078496" "6101088" "6658275" "7239504" "7255582" "7489507" "7530823" "7602606" "7631410" "8081439").PN. OR ("9086841").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:45
S421	44	S419 S420	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:45
S422	4	S421 and (friction near3 hing\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:45
S423	4304	(friction near3 hing\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:45
S424	11	S417 and S423	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:46
S425	3	S424 not S418	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:46
S426	30	("20040001310" "20040042176" "20040070942" "2004008908" "20040083577" "20060114653" "20060158846" "20060176652" "20070131383" "20090219673" "20090279258" "20100053885" "20100149755" "20100321888" "20110216509" "5901037" "6026888" "6078499" "6175493" "6226180" "6252767" "6297947" "6341062" "6507488" "6507490" "7116552" "7203062" "7450382" "8514589" "8891244").PN. OR	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 13:52
S427	14	("20050117286" "20060023408" "20070201199" "20070201200" "6078496" "6101088" "6658275" "7239504" "7255582" "7489507" "7530823" "7602606" "7631410" "8081439").PN. OR ("9086841").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:02
S428	7	S427 and (friction)	US- PGPUB;	OR	OFF	2016/05/16 14:03

			USPAT; USOCR			
S429	241	361/679.28.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:20
S430	8831	g06f1/1616.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:21
S431	3231	g06f1/1681.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:21
S432	319	S430 AND (FRICTION NEAR3 HING\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:22
S433	309	S431 AND (FRICTION NEAR3 HING\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:22
S434	5	S429 AND (FRICTION NEAR3 HING\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:22
S435	416	S432 S433	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:22
S436	293	S435 AND ((CLAMSHELL OR LAPTOP OR NOTEBOOK OR PORTBALE) NEAR3 (COMPUTER))	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:23
S437	4	S434 AND ((CLAMSHELL OR LAPTOP OR NOTEBOOK OR PORTBALE) NEAR3 (COMPUTER))	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:23
S438	1321	361/679.31.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:35
S439	464	h05k7/14.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:35
S440	1402	h02g3/22.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:35
S441	1142	361/679.32.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:35
S442	5357	361/679.01.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:36

S443	2150	361/679.02.ccls.	US- PGPUB;	OR	OFF	2016/05/16 14:36
			USPAT; USOCR			
S444	654	312/223.1-223.3	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:36
S445	4582	312/223.1-223.3.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:36
S446	2300	361/724-725.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:37
S447	0	S439 and (first near level).clm.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:42
S448	1866	S439 S440	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:42
S449	8334	S441 S442 S443	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:42
S450	10384	S446 S449	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:42
S451	5165	S444 S445	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:42
S452	3	S448 and (first near level).clm.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:43
S453	16	S449 and (first near level).clm.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:43
S454	25	S450 and (first near level).clm.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:43
S455	6	S451 and (first near level).clm.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:43
S456	3	S452 and (second near level).clm.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:43
S457	9	S453 and (second near level).clm.	US- PGPUB; USPAT;	OR	OFF	2016/05/16 14:43

			USOCR			
S458	16	S454 and (second near level).clm.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:43
S459	2	S455 and (second near level).clm.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:43
S460	21	S456 S457 S458 S459	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:43
S461	90	(("WATSON") near3 ("Christopher")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:43
S462	42	(("BEALL") near3 ("Christopher")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/05/16 14:44
S538	59	(US-20070182663-\$ or US-20070153461-\$ or US-20060028792-\$ or US-20030165048-\$ or US-20140145958-\$ or US-20130181905-\$ or US-20120169621-\$ or US-20120032887-\$ or US-20120169622-\$ or US-20120169623-\$ or US-20140132521-\$ or US-20110002096-\$ or US-20110038119-\$ or US-20040264118-\$ or US-20190322967-\$ or US-20110279687-\$ or US-20150130309-\$ or US-20140160654-\$ or US-20130308263-\$ or US-20130329394-\$ or US-2030038567-\$ or US-20140098485-\$ or US-20150116927-\$ or US-20130322011-\$ or US-20130170131-\$ or US-20130170131-\$ or US-6650318-\$ or US-6614422-\$ or US-6266048-\$ or US-8284549-\$ or US-8228307-\$ or US-7016711-\$ or US-7436657-\$ or US-7864517-\$ or US-7542273-\$ or US-8941979-\$ or US-8792947-\$ or US-8660621-\$ or US-7136282-\$ or US-8264599-\$ or US-8848366-\$ or US-7948753-\$ or US-7686261-\$ or US-7948753-\$ or US-788496-\$ or US-8724312-\$ or US-8390997-\$ or US-6078496-\$ or US-8724	US- PGPUB; USPAT	OR	OFF	2016/11/28 02:33
S539	3	S538 and clutch	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 02:34
S540	1368	361/679.41-679.44.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:20
S541	1149	361/679.54.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:21
S542	16	S540 and S541	US-	OR	OFF	2016/11/28

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			PGPUB; USPAT; USOCR			03:21
S543	10	("20030045296" "20040253979" "20080150122" "20090322472" "20140160668" "7668958" "7957131" "8321587" "8634183" "9081554").PN.	US- PGPUB; USPAT	OR	OFF	2016/11/28 03:21
S544	5	("20090323275" "20130114203" "6601179" "6691197" "7761641").PN.	US- PGPUB; USPAT	OR	OFF	2016/11/28 03:21
S545	15	S543 S544	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:21
S546	267	haughton.xa.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:34
S547	771	haughton.xp.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:34
S548	1038	S546 S547	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:34
S549	0	S542 and S548	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:34
S550	0	S545 and S548	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:35
S551	6913	G06F1/1632.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:43
S552	5855	G06F1/20.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:43
S553	2909	G06F1/203.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:43
S554	3834	G06F1/206.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:43
S555	16	("20080047694" "20090194862" "20110057303" "20140168901" "3746947" "4765400" "6223815" "6729383" "7215545" "7578337" "7849914" "7968925" "8391008" "8587977" "8957316" "9241429").PN.	US- PGPUB; USPAT	OR	OFF	2016/11/28 03:45
S556	63	("4765400" "4800956" "5595240" "5623394" "5829514" "5862038" "6064573" "6093961" "6134783").PN. OR ("6223815").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:51

S557	17	("20080047694" "20090194862" "20110057303" "20140168901" "3746947" "4765400" "6223815" "6233815" "6729383" "7215545" "7578337" "7849914" "7968925" "8391008" "8587977" "8957316"	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:52
S558	20	"9241429").PN. OR ("9437797").URPN. ("20060104034" "20070046304" "20090002950" "20110228484" "5844784" "5946191" "6181556" "6223815" "6249435" "6400565" "6750084" "6917525" "7019266" "7187076" "7187083" "7289328" "7327569" "7349221").PN. OR ("8957316").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:54
S559	63	<u> </u>	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:56
S560	34	S559 and fin\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 03:57
S561	1	"6275945".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 11:41
S562	1	"6223815".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 12:01
S563	1	"7362575".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 12:01
S564	2	S562 S563	US- PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 12:01
S565	1	"7362575".pn.	USPAT	OR	OFF	2017/03/02 11:23
S566	76	(US-20070182663-\$ or US-20070153461-\$ or US-20060028792-\$ or US-20030165048-\$ or US-20140145958-\$ or US-20130181905-\$ or US-20120169621-\$ or US-20120169623-\$ or US-20120169622-\$ or US-20120169623-\$ or US-20140132521-\$ or US-20110002096-\$ or US-20110038119-\$ or US-20040264118-\$ or US-20090322967-\$ or US-20110279687-\$ or US-20150193009-\$ or US-20140160654-\$ or US-20130308263-\$ or US-20130329394-\$ or US-20130308263-\$ or US-20140098485-\$ or US-20150116927-\$ or US-20140098485-\$ or US-20150116927-\$ or US-20130322011-\$ or US-20130170131-\$ or US-20060023408-\$).did. or (US-7074999-\$ or US-6710770-\$ or US-6650318-\$ or US-6614422-\$ or US-6266048-\$ or US-8284549-\$ or US-828307-\$ or US-7016711-\$ or US-7436657-\$ or US-7864517-\$ or US-7542273-\$ or US-8941979-\$ or US-8792947-\$ or US-8660621-\$ or US-7136282-\$ or US-8264599-\$ or US-8848366-\$ or US-7948753-\$ or US-7686261-\$ or US-7612998-\$ or US-7450372-\$ or US-5323290-\$ or		OR	OFF	2017/03/02 13:42

		or US-9274565-\$).did. or (US-9152169-\$ or US-8941985-\$ or US-9182794-\$ or US-6101088-\$ or US-6078496-\$ or US-8724312-\$ or US-8390997-\$ or US-6275945-\$ or US-6038128-\$ or US-9241429-\$ or US-8957316-\$ or US-8587977-\$ or US-7849914-\$ or US-6223815-\$ or US-4765400-\$ or US-7215545-\$ or US-9437797-\$ or US-6400565-\$ or US-6181556-\$ or US-8341842-\$ or US-8296947-\$ or US-7362575-\$).did.				
S567	27	S566 and pin\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 13:43
S568	40	("4226281" "4649990").PN. OR ("4765400").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 15:52
S569	26	S568 and pin\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 15:53
S570	1	"4226281".pn.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 16:01
S571	1	S570 and pin\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 16:01
S572	83	(US-20070182663-\$ or US-20070153461-\$ or US-20060028792-\$ or US-20030165048-\$ or US-20140145958-\$ or US-20130181905-\$ or US-20120169621-\$ or US-20120169623-\$ or US-20120169622-\$ or US-20120169623-\$ or US-20140132521-\$ or US-20110002096-\$ or US-20110038119-\$ or US-20040264118-\$ or US-20090322967-\$ or US-20110279687-\$ or US-20150193009-\$ or US-20130329394-\$ or US-20130308263-\$ or US-20130322011-\$ or US-20130170131-\$ or US-20130322011-\$ or US-20130170131-\$ or US-20110057303-\$).did. or (US-20140168901-\$ or US-20110057303-\$).did. or (US-7074999-\$ or US-6710770-\$ or US-6650318-\$ or US-6614422-\$ or US-6266048-\$ or US-8284549-\$ or US-828307-\$ or US-7016711-\$ or US-7436657-\$ or US-7864517-\$ or US-7542273-\$ or US-8941979-\$ or US-8792947-\$ or US-8660621-\$ or US-7948753-\$ or US-8264599-\$ or US-8848366-\$ or US-7948753-\$ or US-768261-\$ or US-7642258-\$ or US-5293300-\$ or US-7113397-\$ or US-9274565-\$).did. or (US-9152169-\$ or US-8941985-\$ or US-8724312-\$ or US-8390997-\$ or US-6078496-\$ or US-8724312-\$ or US-8390997-\$ or US-6275945-\$ or US-8587977-\$ or US-7849914-\$ or US-6223815-\$ or US-4765400-\$ or US-7215545-\$ or US-6038128-\$ or US-9241429-\$ or US-6957316-\$ or US-838188-\$ or US-9241429-\$ or US-6181556-\$ or US-838188-\$ or US-8296947-\$ or US-6181556-\$ or US-8381842-\$ or US-8296947-\$ or US-6181556-\$ or US-8381842-\$ or US-8296947-\$ or US-632575-\$ or US-8089767-\$ or US-6065530-\$ or US-5705850-\$ or US-5673177-\$ or		OR	OFF	2017/03/02 16:23

		US-5170319-\$).did. or (US-5161089-\$ or US- 4226281-\$).did.				
S573	5	S572 and (heat\$3 near pip\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 16:23
S574	79	("3128419" "3387191" "3390717" "3993123" "4153107" "4156458").PN. OR ("4226281").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 16:25
S575	8	S574 and (heat\$3 near pip\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 16:26
S576	5	S575 and pin\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/02 16:26
S577	57	(("BURR") near3 ("JEREMY")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/20 11:09
S578	75	(("BROWNING") near3 ("DAVID")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/20 11:09
S579	53	(("MCEUEN") near3 ("SHAWN")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/20 11:09
S580	105	(("MACDONALD") near3 ("MARK")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/20 11:09
S581	7	(("COAKLEY") near3 ("MATTHEW")).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2017/03/20 11:10
S582	117	S577 S578 S579 S580 S581	USPAT	OR	OFF	2017/03/20 11:10
S583	3332	G06F1/1632.cpc.	USPAT	OR	OFF	2017/03/20 11:34
S584	2646	G06F1/20.cpc.	USPAT	OR	OFF	2017/03/20 11:34
S585	1370	G06F1/203.cpc.	USPAT	OR	OFF	2017/03/20 11:34
S586	1781	G06F1/206.cpc.	USPAT	OR	OFF	2017/03/20 11:34
S587	862	361/679.41-679.44.ccls.	USPAT	OR	OFF	2017/03/20
S588	734	361/679.54.ccls.	USPAT	OR	OFF	2017/03/20 11:34
S589	503	361/701.ccls.	USPAT	OR	OFF	2017/03/20 11:34
S590	672	361/702.ccls.	USPAT	OR	OFF	2017/03/20 11:34
S591	1258	361/709.ccls.	USPAT	OR	OFF	2017/03/20

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L		1				11:34
S592	1028	361/710.ccls.	USPAT	OR	OFF	2017/03/20 11:35
S633	8	((("COAKLEY") near3 ("MATTHEW") near3 ("D"))).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/07/08 15:53
S634	130	((("MACDONALD") near3 ("MARK"))).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/07/08 15:53
S635	38	(((("MCEUEN") near3 ("SHAWN") near3 ("S"))).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/07/08 15:53
S636	52	(((("BROWNING") near3 ("DAVID") near3 ("W"))).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/07/08 15:54
S637	64	((("BURR") near3 ("JEREMY"))).INV.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/07/08 15:54
S638	862	361/679.41-679.44.CCLS.	USPAT	OR	OFF	2018/07/08 15:54
S639	734	361/679.54.CCLS.	USPAT	OR	OFF	2018/07/08 15:54
S640	503	361/701.CCLS.	USPAT	OR	OFF	2018/07/08 15:54
S641	672	361/702.CCLS.	USPAT	OR	OFF	2018/07/08 15:54
S642	1258	361/709.CCLS.	USPAT	OR	OFF	2018/07/08 15:54
S643	1028	361/710.CCLS.	USPAT	OR	OFF	2018/07/08 15:54
S644	3825	G06F1/1632.CPC.	USPAT	OR	OFF	2018/07/08 15:54
S645	3007	G06F1/20.CPC.	USPAT	OR	OFF	2018/07/08 15:54
S646	1537	G06F1/203.CPC.	USPAT	OR	OFF	2018/07/08 15:54
S647	2074	G06F1/206.CPC.	USPAT	OR	OFF	2018/07/08 15:54
S648	9567	S644 S645 S646 S647	USPAT	OR	OFF	2018/07/08 15:55
S649	4153	S638 S639 S640 S641 S642 S643	USPAT	OR	OFF	2018/07/08 15:55
S650	84	(US-20070182663-\$ or US-20070153461-\$ or US-20060028792-\$ or US-20030165048-\$ or US-20140145958-\$ or US-20130181905-\$ or US-20120169621-\$ or US-20120032887-\$ or US-20120169622-\$ or US-20120169623-\$ or US-20140132521-\$ or US-20110002096-\$ or US-20110038119-\$ or US-20040264118-\$ or US-20090322967-\$ or US-20110279687-\$ or US-20150193009-\$ or US-20140160654-\$ or US-20130308263-\$ or US-20130329394-\$ or US-	US- PGPUB; USPAT	OR	OFF	2019/02/15 13:43

		20030038567-\$ or US-20140098485-\$ or US-20150116927-\$ or US-20130322011-\$ or US-20130170131-\$ or US-20060023408-\$).did. or (US-20140168901-\$ or US-20110057303-\$).did. or (US-7074999-\$ or US-6710770-\$ or US-6650318-\$ or US-6614422-\$ or US-6266048-\$ or US-8284549-\$ or US-8228307-\$ or US-7016711-\$ or US-7436657-\$ or US-7864517-\$ or US-7542273-\$ or US-8941979-\$ or US-8792947-\$ or US-8848366-\$ or US-7948753-\$ or US-7686261-\$ or US-7736282-\$ or US-7686261-\$ or US-7948753-\$ or US-5293300-\$ or US-7113397-\$ or US-9274565-\$).did. or (US-9152169-\$ or US-8941985-\$ or US-9182794-\$ or US-6101088-\$ or US-6078496-\$ or US-8724312-\$ or US-8390997-\$ or US-6275945-\$ or US-6038128-\$ or US-944729-\$ or US-8957316-\$ or US-8587977-\$ or US-7215545-\$ or US-9437797-\$ or US-6400565-\$ or US-6181556-\$ or US-8341842-\$ or US-8296947-\$ or US-7362575-\$ or US-8089767-\$ or US-673177-\$ or US-67319-\$).did. or (US-5161089-\$ or US-5170319-\$).did. or (US-5161089-\$ or US-5170319-\$).did. or (US-5161089-\$ or US-426281-\$ or US-7212409-\$).did.				
S651	43	S650 and signal\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/15 13:44
S652	29	S651 and sensor\$1	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/15 13:44
S653	5	S652 and (temperature\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/15 13:44
S654	1	S652 and (temperature\$1 near4 controll\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/15 13:45
S655	1	S652 and (temperature\$1 near4 controll\$4)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/15 13:45
S656	1	"20180187051"	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 22:35
S657	0	("2018/0187051").URPN.	USPAT	OR	OFF	2019/02/18 22:36
S658	199	(("20180187051") or ("20070095012") or ("20170057193") or ("8042312") or ("20170057193") or ("8042312") or ("20100071300") or ("8418730") or ("20130284858") or ("20120151868") or ("8579018") or ("8745958") or ("9017806") or ("20130273347") or ("9797661") or ("20170059256") or ("20160208476") or ("20130143060") or ("9539773") or ("20040154252") or ("20110250385") or ("20150306794") or ("9745736") or ("7963085") or	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 22:37

("9878472") or ("20150298443") or
("20160214284") or ("9884436") or ("9751287") or
("20180058531") or ("9890827") or
("20160160952") or ("20150111158") or
("9034563") or ("9405067") or ("20140272275") or
("20100300669") or ("9453604") or
("20080226870") or ("8247333") or
("20140037873") or ("9862151") or ("9527261") or
("9566758") or ("20170183870") or ("8353240") or
("8800641") or ("8663539") or ("9457434") or
("20160089753") or ("20160046095") or
("20160325520") or ("20160084578") or
("20090286100") or ("9352529") or
("20120285114") or ("8650756") or ("10189226")
or ("8176635") or ("8573289") or ("20140252674")
or ("20160250820") or ("9528776") or
("20090282773") or ("9809002") or
("20130302633") or ("8272309") or
("20040209145") or ("20170080673") or
("20180341181") or ("20180113385") or
("8155496") or ("9731471") or ("10061201") or
("20170274619") or ("20050074593") or
("7393577") or ("8419883") or ("20110229823") or
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S664	1761	c09j7/10,00.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:15
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S667	5	S662 and S665	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:18
S668	1	S663 and S664	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:18
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S677	119	S675 not S676	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:32
S678	58	S677 and (glue or adhesiv\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:36
S679	58	S677 and (glu\$3 or adhesiv\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:36
S680	1	S662 and (truss or (micro near truss) or micro- truss)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:47
S681	5	S663 and (truss or (micro near truss) or micro- truss)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:47
S682	5	S680 S681	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:47
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S684	177	S683 AND DISPLAY\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:50
S685	13	S684 and (frame with adhesiv\$3)	US-	OR	OFF	2019/02/18

			PGPUB; USPAT; USOCR			23:51
S686	68	S684 and (glu\$3 or adhesiv\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:52
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S690	13	((flex\$4 or bend\$4) near display\$3) and ((micro near4 lattice) or microlattice or micro-lattice)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:56
S691	12	((flex\$4 or bend\$4) near display\$3) and ((micro near lattice) or microlattice or micro-lattice)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:57
S692	61	((flex\$4 or bend\$4) near display\$3) and (truss or (micro near truss) or micro-truss)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/18 23:57
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S695	55	S692 not S694	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/19 00:16
S696	71	(fram\$3) and ((micro near truss) or micro-truss)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/19 00:17
S697	0	S695 and S696	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/19 00:17
S698	1	S694 and S696	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/19 00:17
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S704	148	S703 and (glu\$3 or adhesive\$1 or polymer\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/19 00:22
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S714	34	S713 and adhesiv\$3	US- PGPUB; USPAT;	OR	OFF	2019/02/19 00:33

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S727	23	S726 and adhesiv\$3	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/19 01:26
S728	21	S727 and (fram\$3 or chassis or support\$3)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/19 01:26
S729	46	S663 and (((micro near lattice) or microlattice or micro-lattice) near core\$1) or (((micro near truss) or micro-truss) near core\$1)	US- PGPUB; USPAT; USOCR	OR	OFF	2019/02/19 01:27
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			USPAT; USOCR			
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2/19/2019 1:42:17 PM

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Bibliographic Data

Application No: $15/851,95$	52		
Foreign Priority claimed:	O Yes	● No	
35 USC 119 (a-d) conditions met:	Yes	✓ No	Met After Allowance
Verified and Acknowledged:	/ANTHON	Y M HAUGHTON/	
	Examiner's	Signature	Initials
Title:		US FOR CLEANING V HOD FOR THE USE T	VIEW SCREENS AND LENSES HEREOF

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
12/22/2017	361	2835	MAYG-1001-WO-USC3
RULE			

APPLICANTS

GUI GLOBAL PRODUCTS, LTD., Houston, TX, UNITED STATES

INVENTORS

Walter G. Mayfield Houston, TX, UNITED STATES

Daniel Martin Valdez Kingwood, TX, UNITED STATES

CONTINUING DATA

This application is a CON of 15597005 05/16/2017ABN

15597005 is a CON of 14343665 07/14/2014ABN

14343665 is a 371 of PCT/US2012/049562 08/03/2012

PCT/US2012/049562 has PRO of 61661090 06/18/2012

PCT/US2012/049562 has PRO of 61619229 04/02/2012

PCT/US2012/049562 has PRO of 61592344 01/30/2012

PCT/US2012/049562 has PRO of 61576834 12/16/2011

PCT/US2012/049562 has PRO of 61569093 12/09/2011

PCT/US2012/049562 has PRO of 61568031 12/07/2011

PCT/US2012/049562 has PRO of 61561087 11/17/2011

PCT/US2012/049562 has PRO of 61555310 11/03/2011

PCT/US2012/049562 has PRO of 61515752 08/05/2011

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

02/07/2018

STATE OR COUNTRY

UNITED STATES

ADDRESS

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

FILING FEE RECEIVED

\$1,740

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web. Mail Stop ISSUE FEE By mail, send to: By fax, send to: (571)-273-2885 Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) have its own certificate of mailing or transmission. Certificate of Mailing or Transmission 87627 7590 02/26/2019 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope Mossman, Kumar & Tyler PC P.O. Box 421239 addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below. Houston, TX 77242 Tracie Thigpen (Typed or printed name /Tracie Thigpen/ (Signature (Date March 1, 2019 FIRST NAMED INVENTOR CONFIRMATION NO. APPLICATION NO FILING DATE ATTORNEY DOCKET NO 15/851,952 12/22/2017 Walter G. Mayfield MAYG-1001-WO-USC3 9301 TITLE OF INVENTION: APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF 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 05/28/2019 EXAMINER ART UNIT CLASS-SUBCLASS HAUGHTON, ANTHONY MICHAEL 2835 361-679010 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). For printing on the patent front page, list (1) The names of up to 3 registered patent attorneys Mossman Kumar & Tyler PC or agents OR, alternatively, Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is "Fee Address" indication (or "Fee Address" Indication form PTO/ listed, no name will be printed. SB/47; Rev 03-09 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) GUI Global Products, LTD. Houston, Texas Please check the appropriate assignee category or categories (will not be printed on the patent): 🔲 Individual 🚨 Corporation or other private group entity 🛄 Government **∑**Issue Fee Publication Fee (if required) Advance Order - # of Copies 4b. Method of Payment: (Please first reapply any previously paid fee shown above) Lectronic Payment via EFS-Web Non-electronic payment by credit card (Attach form PTO-2038) Liclosed check The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 5. Change in Entity Status (from status indicated above) NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment. Applicant certifying micro entity status. See 37 CFR 1.29 NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status. Applicant asserting small entity status. See 37 CFR 1.27 NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro Applicant changing to regular undiscounted fee status. entity status, as applicable NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications. /Gene L. Tyler/ March 1, 2019 Authorized Signature Date 35,395 Gene L. Tyler Typed or printed name Registration No.

Page 2 of 3

PTOL-85 Part B (08-18) Approved for use through 01/31/2020

OMB 0651-0033

Electronic Patent Application Fee Transmittal							
Application Number:	15	851952					
Filing Date:	22-	-Dec-2017					
Title of Invention:	APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHO THE USE THEREOF						
First Named Inventor/Applicant Name:	Walter G. Mayfield						
Filer:	Gene Tyler/Tracie Thigpen						
Attorney Docket Number:	MAYG-1001-WO-USC3						
Filed as Large Entity							
Filing Fees for Utility under 35 USC 111(a)							
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)		
Basic Filing:							
Pages:							
Claims:							
Miscellaneous-Filing:							
Petition:							
Patent-Appeals-and-Interference:							
Post-Allowance-and-Post-Issuance:							
UTILITY APPL ISSUE FEE		1501	1	1000	1000		
	_						

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

Electronic Acknowledgement Receipt					
EFS ID:	35297611				
Application Number:	15851952				
International Application Number:					
Confirmation Number:	9301				
Title of Invention:	APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF				
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-USC3				
Receipt Date:	01-MAR-2019				
Filing Date:	22-DEC-2017				
Time Stamp:	12:07:09				
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	030119INTEFSW12073600
Deposit Account	504920
Authorized User	Tracie Thigpen

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 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
		MAYG-1001-WO-	192651		
1	Issue Fee Payment (PTO-85B)	USC3_Issue_fee_3-1-19_pto.	8f842f75e07bd28daf1ce2573e068530bb4d 9495	no	1
Warnings:		-		·	
Information:					
			30215		
2	Fee Worksheet (SB06)	fee-info.pdf	3756cbb1443735bee1a6bccd42aa99cab78 d800b	no	2
Warnings:		-		·	
Information:					
		Total Files Size (in bytes):	22	22866	

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES PATENT AND TRADEMARK OFFICE



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

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

 APPLICATION NO.
 ISSUE DATE
 PATENT NO.
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 15/851,952
 04/16/2019
 10259020
 MAYG-1001-WO-USC3
 9301

87627 7590 03/27/2019

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)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: US Patent No. 10,259,020 Mayfield et al. Issued: April 16, 2019 §

§ § Application No. 15/851,952 Examiner: Anthony M. Haughton

Filed: Dec 22, 2017 Confirmation No.: 9301

\$ \$ \$ **\$**

For: APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF

Attorney Docket No.: MAYG-1001-USC3

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

Attn: Certificate of Correction Branch

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

Applicants request that a Certificate of Correction be issued for the 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 correction does 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 21, line 44, 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-USC3).

Respectfully submitted,

Dated: June 19, 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

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.

(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION	
	Page <u>1</u> of <u>1</u>
PATENT NO. : 10,259,020	<u> </u>
APPLICATION NO.: 15/851,952	
ISSUE DATE : April 16, 2019	
INVENTOR(S) : Walter G. Mayfield; Daniel Martin Valdez	
It is certified that an error appears or errors appear in the above-identified patent and the is hereby corrected as shown below:	nat said Letters Patent
In the claims, at claim 1, column 21, line 44, delete "complimentary" and substitute therefor	complementary

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

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

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Privacy Act Statement

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

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

- 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.
- 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).
- 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.
- A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal							
Application Number:	15851952						
Filing Date:	22-Dec-2017						
Title of Invention:	APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF						
First Named Inventor/Applicant Name:	Walter G. Mayfield						
Filer:	Gene Tyler						
Attorney Docket Number:	MAYG-1001-WO-USC3						
Filed as Large Entity							
Filing Fees for Utility under 35 USC 111(a)							
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)		
Basic Filing:							
Pages:							
Claims:							
Miscellaneous-Filing:							
Petition:							
Patent-Appeals-and-Interference:							
Post-Allowance-and-Post-Issuance:							
CERTIFICATE OF CORRECTION		1811	1	150	150		
			•	•	•		

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

Electronic Acknowledgement Receipt				
EFS ID:	39779562			
Application Number:	15851952			
International Application Number:				
Confirmation Number:	9301			
Title of Invention:	APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF			
First Named Inventor/Applicant Name:	Walter G. Mayfield			
Customer Number:	87627			
Filer:	Gene Tyler			
Filer Authorized By:				
Attorney Docket Number:	MAYG-1001-WO-USC3			
Receipt Date:	19-JUN-2020			
Filing Date:	22-DEC-2017			
Time Stamp:	21:51:58			
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	E20206IL53347950
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.
		69511			
1	Request for Certificate of Correction US10259020_request_for_Copdf	US10259020_request_for_COC. pdf	dfad82cdeddcc357479a970b637f9d8f8c27 ca9f	no	2
Warnings:					
Information:					
2 Request for Certificate of Correction		158619	no	2	
	10259020_COC.pdf	131224d421acfc4049ba036d7ccabb50f4c8 ecf2			
Warnings:					
Information:					
			30014		
3 Fee Worksheet (SB06)	fee-info.pdf	99070ee897723fa986a18c29656f58089c2f 9b7b	no	2	
Warnings:					
Information:					

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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.

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New International Application Filed with the USPTO as a Receiving Office

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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 10,259,020 B2 Page 1 of 1

APPLICATION NO. : 15/851952 DATED : April 16, 2019

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

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

In the Claims

At Claim 1, Column 21, Line 44, delete "complimentary" and substitute therefor --complementary--

Signed and Sealed this Fourteenth Day of July, 2020

Andrei Iancu

Director of the United States Patent and Trademark Office