



(12) **United States Patent**  
**Mayfield et al.**

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(54) **SYSTEM COMPRISING A PORTABLE SWITCHING DEVICE FOR USE WITH A PORTABLE ELECTRONIC DEVICE**

**B08B 11/04** (2006.01)  
**H04M 1/21** (2006.01)  
(Continued)

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(52) **U.S. Cl.**  
CPC ..... **B08B 1/006** (2013.01); **A45C 11/00**  
(2013.01); **B08B 1/002** (2013.01); **B08B 11/04**  
(2013.01); **G06F 1/32** (2013.01); **H04M 1/21**  
(2013.01); **H04B 1/3816** (2013.01); **H04M**  
**1/0266** (2013.01)

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(58) **Field of Classification Search**  
CPC . G06F 1/32; G06F 1/16; G06F 1/1601; G06F  
1/1603; G06F 1/1605; G06F 1/1607;  
G06F 1/1609; G06F 1/1611; B08B 1/006;  
B08B 1/002  
USPC ..... 361/679.01, 679.02  
See application file for complete search history.

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Houston, TX (US)

(\* ) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

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(21) Appl. No.: **16/460,770**

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(Continued)

**Related U.S. Application Data**

*Primary Examiner* — Anthony M Haughton  
(74) *Attorney, Agent, or Firm* — Mossman, Kumar &  
Tyler, PC

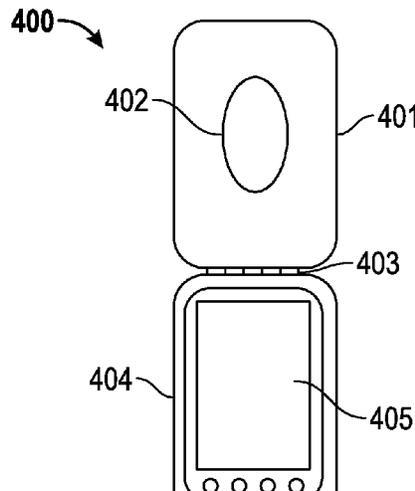
(63) Continuation of application No. 16/388,691, filed on  
Apr. 18, 2019, now abandoned, which is a  
continuation of application No. 16/041,594, filed on  
Jul. 20, 2018, now Pat. No. 10,272,474, which is a  
continuation of application No. 15/852,000, filed on  
(Continued)

(57) **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.

(51) **Int. Cl.**  
**G06F 1/16** (2006.01)  
**H05K 5/00** (2006.01)  
**H05K 7/00** (2006.01)  
**B08B 1/00** (2006.01)  
**A45C 11/00** (2006.01)  
**G06F 1/32** (2019.01)

**13 Claims, 13 Drawing Sheets**



**Related U.S. Application Data**

Dec. 22, 2017, now Pat. No. 10,259,021, which is a continuation of application No. 15/597,005, filed on May 16, 2017, now abandoned, which is a continuation of application No. 14/343,665, filed as application No. PCT/US2012/049562 on Aug. 3, 2012, now abandoned.

- (60) Provisional application No. 61/661,090, filed on Jun. 18, 2012, provisional application No. 61/619,229, filed on Apr. 2, 2012, provisional application No. 61/592,344, filed on Jan. 30, 2012, provisional application No. 61/576,834, filed on Dec. 16, 2011, provisional application No. 61/569,093, filed on Dec. 9, 2011, provisional application No. 61/568,031, filed on Dec. 7, 2011, provisional application No. 61/561,087, filed on Nov. 17, 2011, provisional

application No. 61/555,310, filed on Nov. 3, 2011, provisional application No. 61/515,752, filed on Aug. 5, 2011.

- (51) **Int. Cl.**  
*H04B 1/3816* (2015.01)  
*H04M 1/02* (2006.01)

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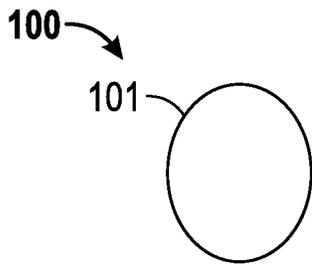


FIG. 1A

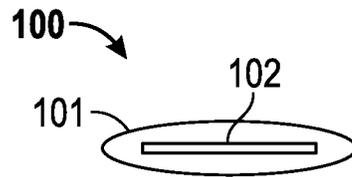


FIG. 1B

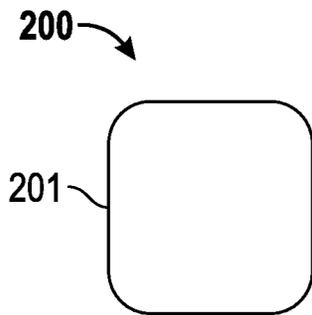


FIG. 2A

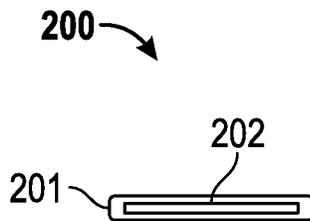


FIG. 2B

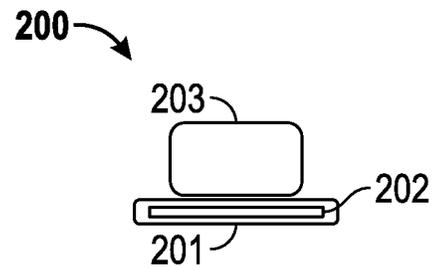


FIG. 2C

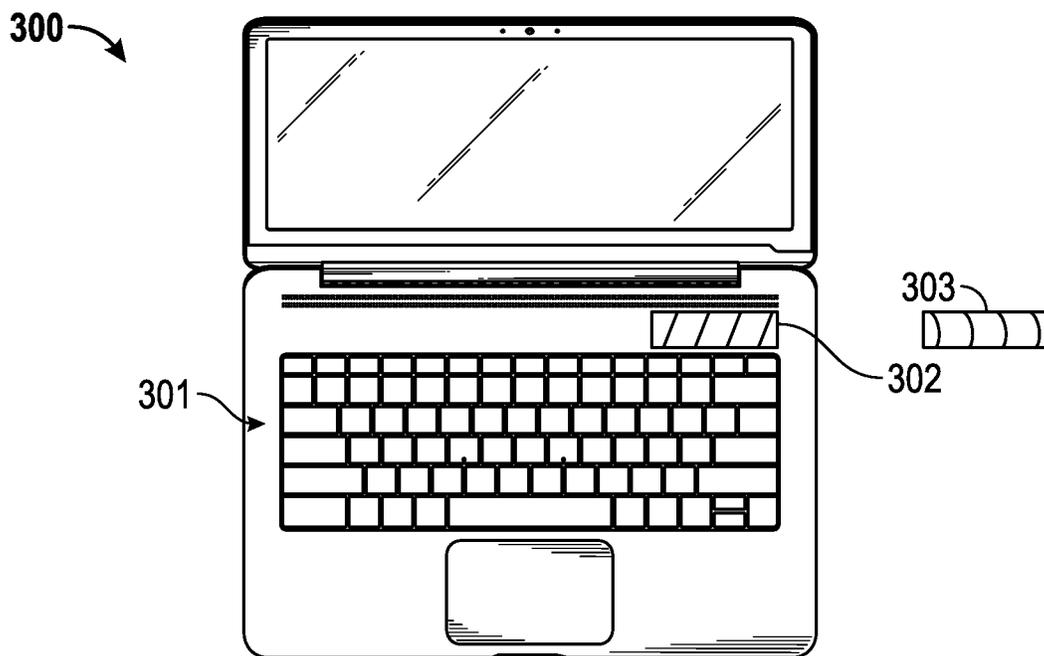


FIG. 3

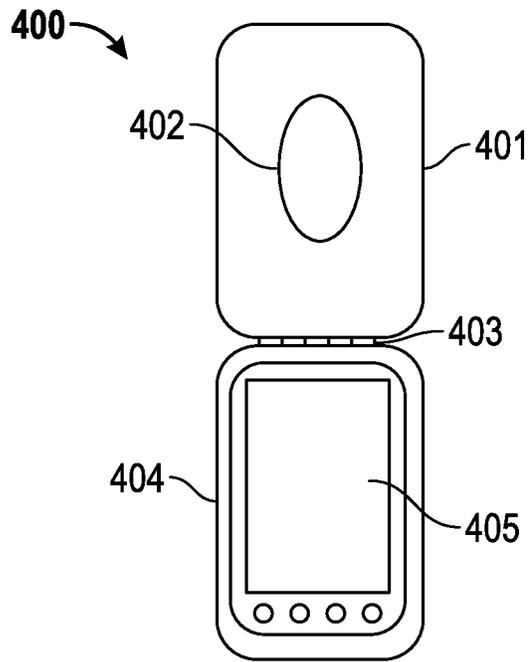


FIG. 4

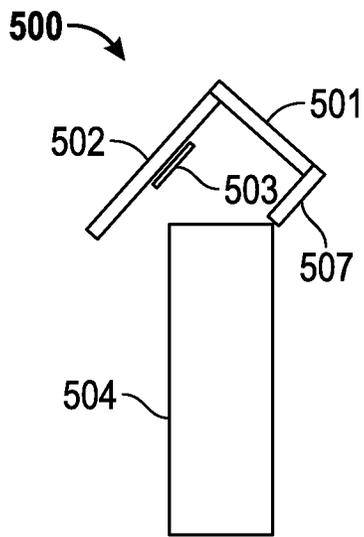


FIG. 5A

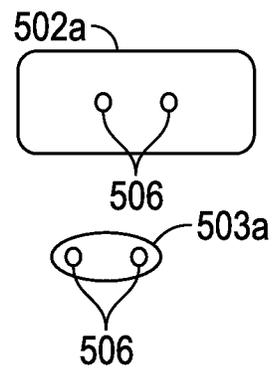


FIG. 5B

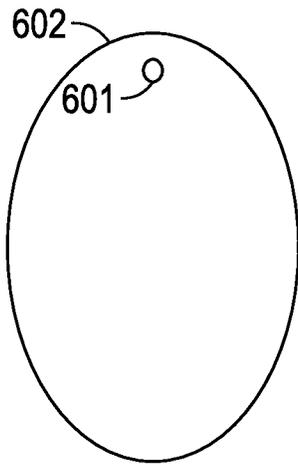


FIG. 6

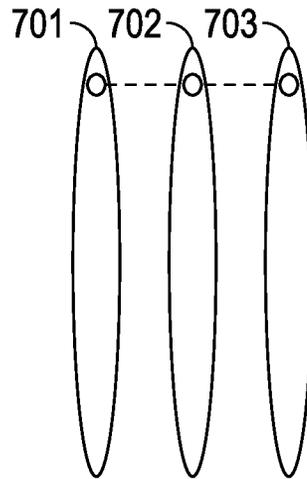


FIG. 7

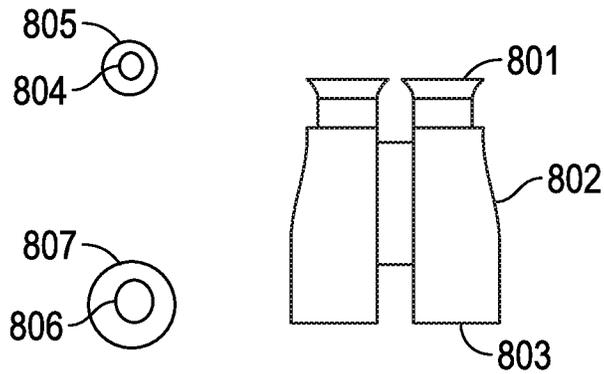


FIG. 8

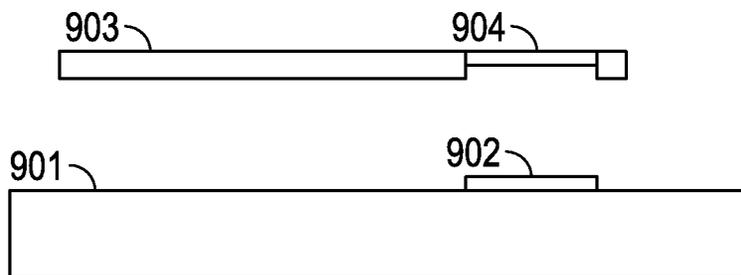


FIG. 9

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