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

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(45) **Date of Patent:** Mar. 17, 2020

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

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(\* ) 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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(22) Filed: **Nov. 27, 2019**

**Related U.S. Application Data**

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Jul. 3, 2019, now Pat. No. 10,493,496, which is a  
continuation of application No. 16/460,770, filed on  
Jul. 2, 2019, which is a continuation of application  
No. 16/388,691, filed on Apr. 18, 2019, now  
abandoned, which is a continuation of application No.  
(Continued)

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*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)  
*B08B 11/04* (2006.01)  
*H04M 1/21* (2006.01)  
*H04M 1/02* (2006.01)  
*H04B 1/3816* (2015.01)

(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)

(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 1/002;  
B08B 1/006  
USPC ..... 361/679.01, 679.02, 679.21-679.3  
See application file for complete search history.

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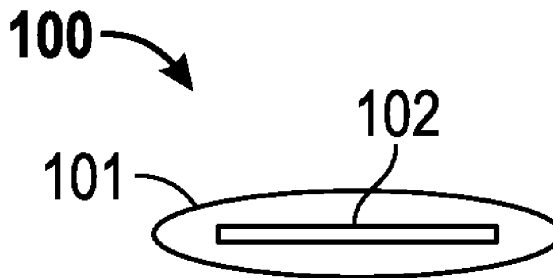
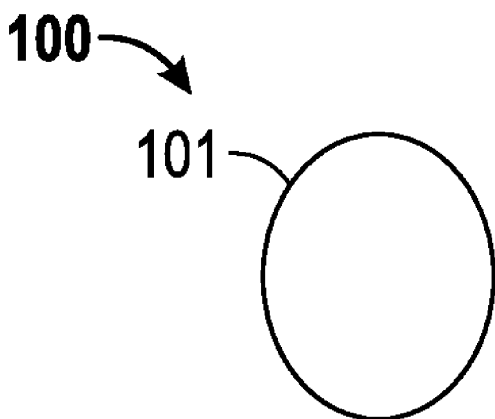
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(74) *Attorney, Agent, or Firm* — Mossman, Kumar &  
Tyler, PC

(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.

**13 Claims, 13 Drawing Sheets**



Samsung v. GUI  
IPR2021-00338  
Exhibit 1001

**Related U.S. Application Data**

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 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.

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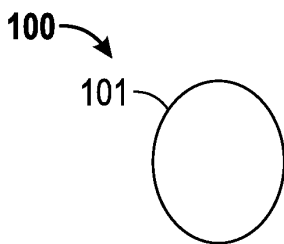


FIG. 1A

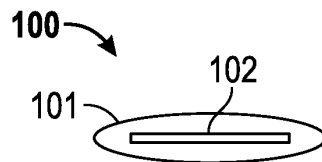


FIG. 1B

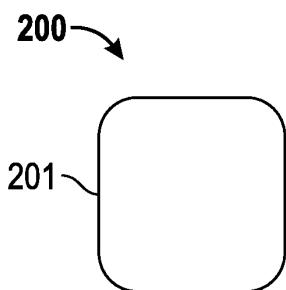


FIG. 2A

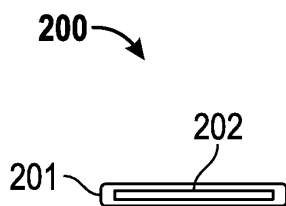


FIG. 2B

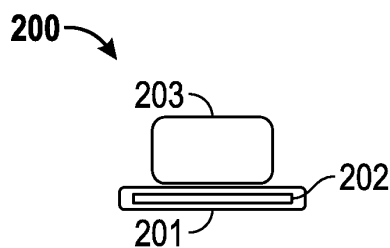


FIG. 2C

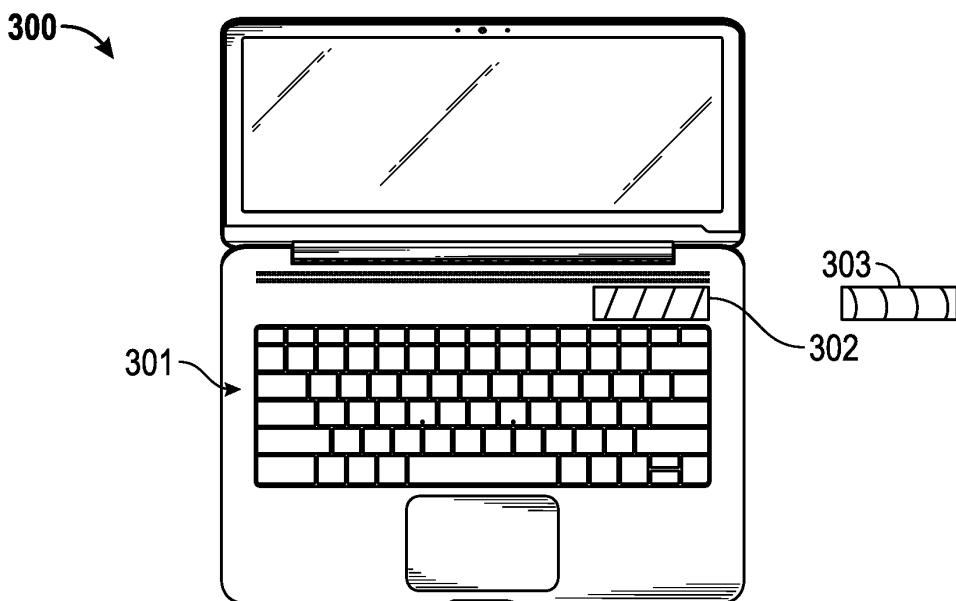


FIG. 3

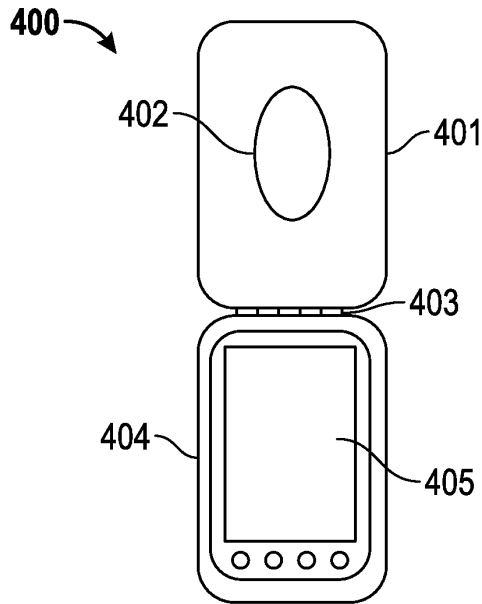


FIG. 4

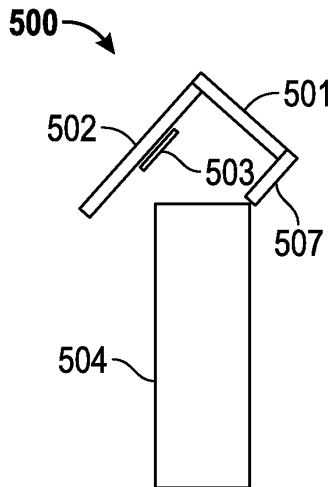


FIG. 5A

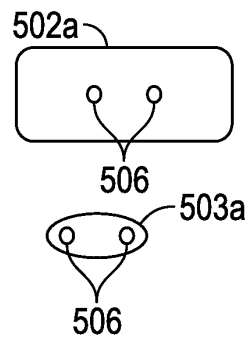


FIG. 5B

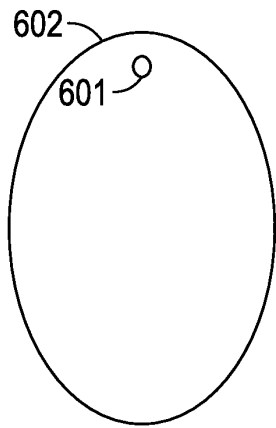


FIG. 6

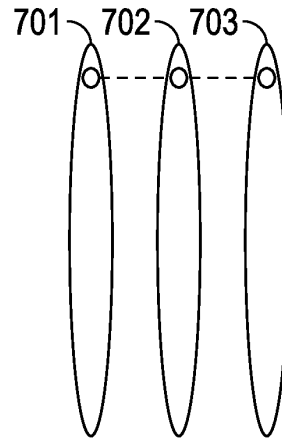


FIG. 7

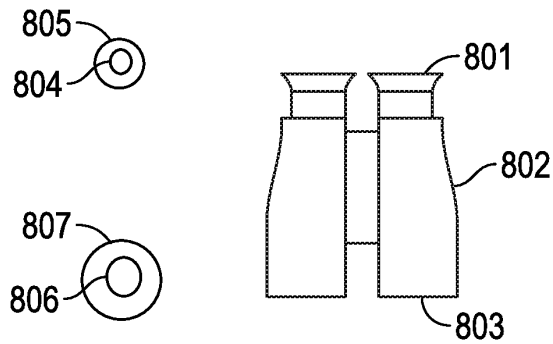


FIG. 8

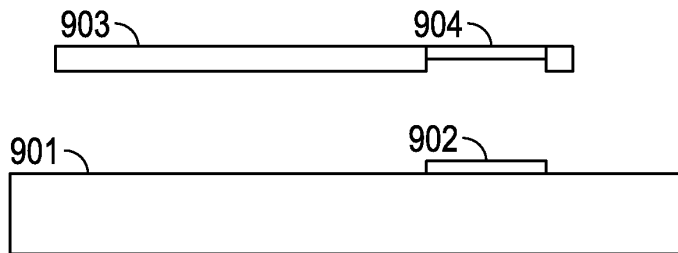


FIG. 9

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