



(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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Houston, TX (US)

(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)

(72) Inventors: **Walter G. Mayfield**, Houston, TX
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Kingwood, TX (US)

(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.

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

(56) **References Cited**

(22) Filed: **Jul. 2, 2019**

U.S. PATENT DOCUMENTS

(65) **Prior Publication Data**

US 2019/0321863 A1 Oct. 24, 2019

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224/269

(Continued)

Related U.S. Application Data

Primary Examiner — Anthony M Haughton

(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)

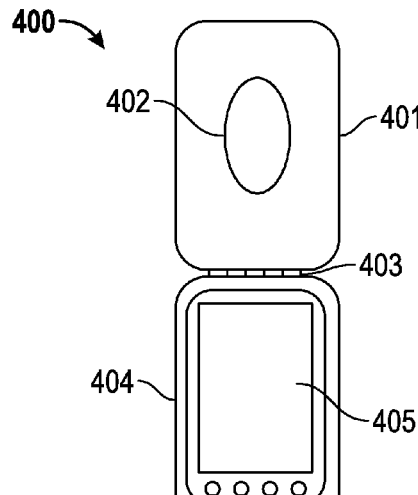
(74) *Attorney, Agent, or Firm* — Mossman, Kumar &
Tyler, PC

(57) **ABSTRACT**

(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)

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



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)

- (56) **References Cited**

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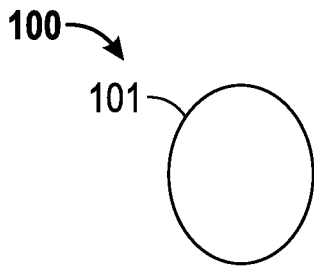


FIG. 1A

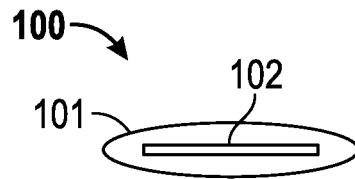


FIG. 1B

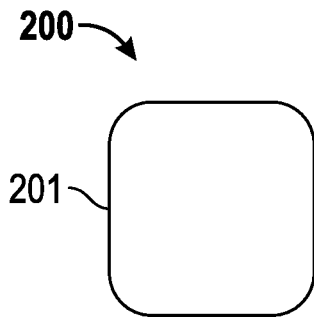


FIG. 2A

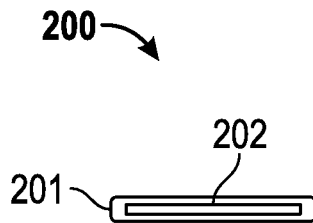


FIG. 2B

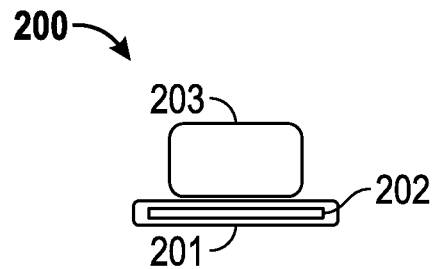


FIG. 2C

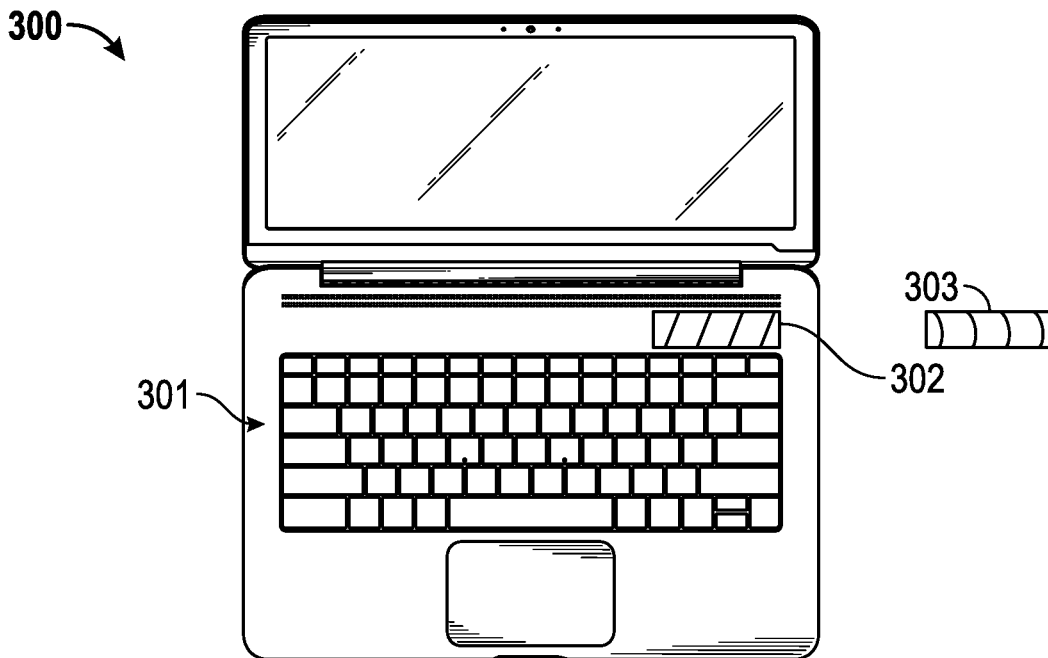


FIG. 3

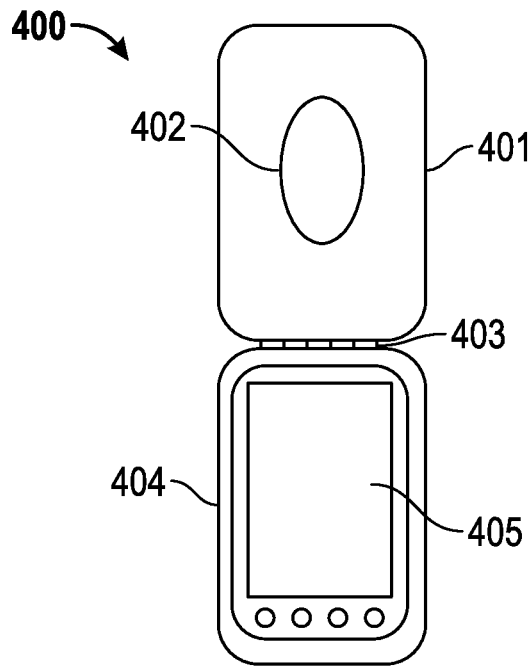


FIG. 4

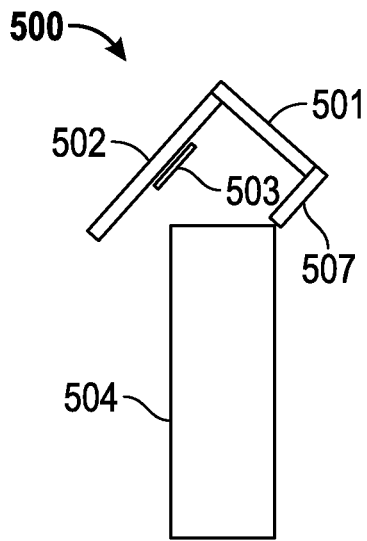


FIG. 5A

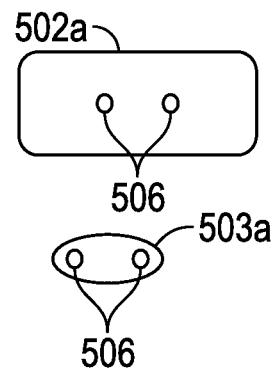


FIG. 5B

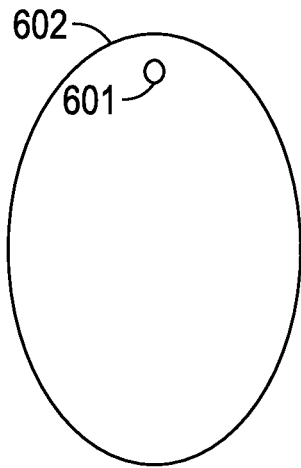


FIG. 6

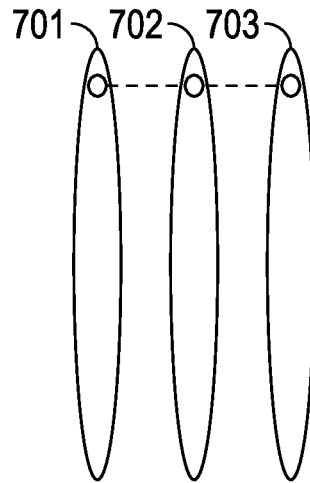


FIG. 7

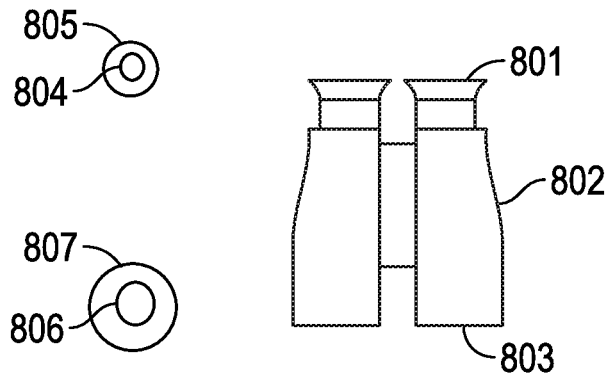


FIG. 8

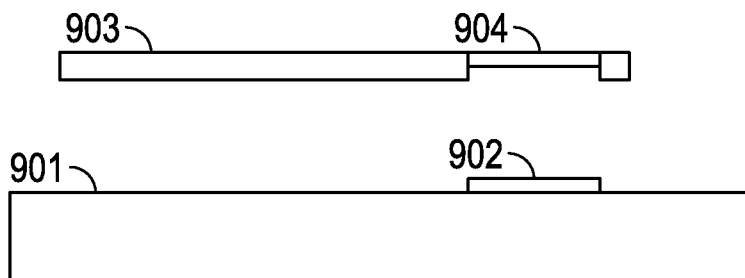


FIG. 9

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