

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

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(54) **APPARATUS FOR CLEANING VIEW SCREENS AND LENSES AND METHOD FOR THE USE THEREOF**

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(65) **Prior Publication Data**

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**Related U.S. Application Data**

(63) Continuation of application No. 15/597,005, filed on May 16, 2017, now abandoned, which is a  
(Continued)

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

(Continued)

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

(56) **References Cited**

U.S. PATENT DOCUMENTS

2005/0107131 A1\* 5/2005 Abramov ..... H04M 1/0258  
455/569.1  
2005/0284904 A1\* 12/2005 Knapp ..... A45F 5/02  
224/269

(Continued)

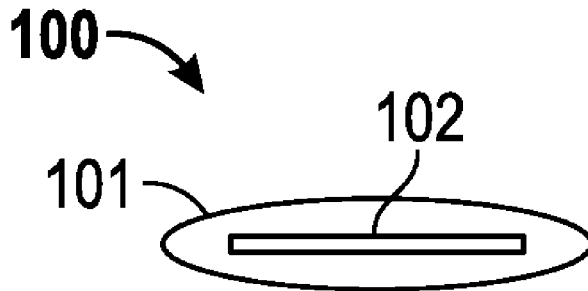
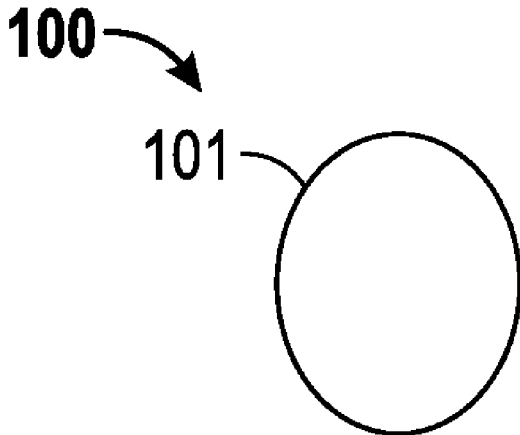
*Primary Examiner* — Anthony M Haughton

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(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.

**19 Claims, 13 Drawing Sheets**



**Related U.S. Application Data**

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**

U.S. PATENT DOCUMENTS

2008/0103637 A1*	5/2008	Bliven .....	F16B 2/20 701/1
2010/0011524 A1*	1/2010	Roebach .....	B08B 1/00 15/105
2011/0192857 A1*	8/2011	Rothbaum .....	B25F 1/00 220/694

\* cited by examiner

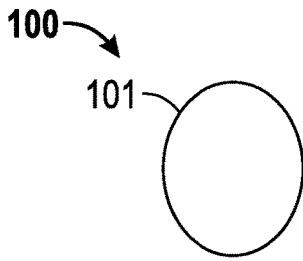


FIG. 1A

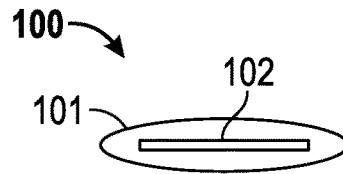


FIG. 1B

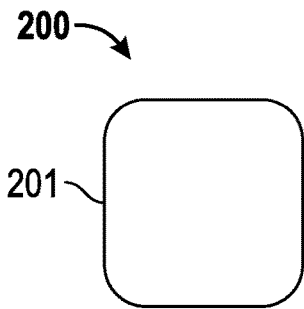


FIG. 2A

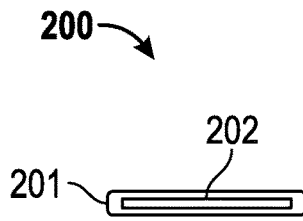


FIG. 2B

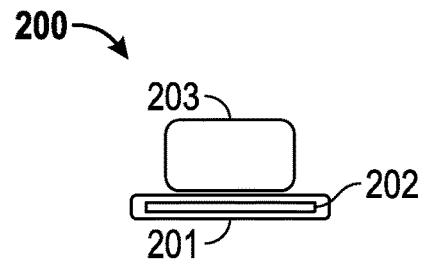


FIG. 2C

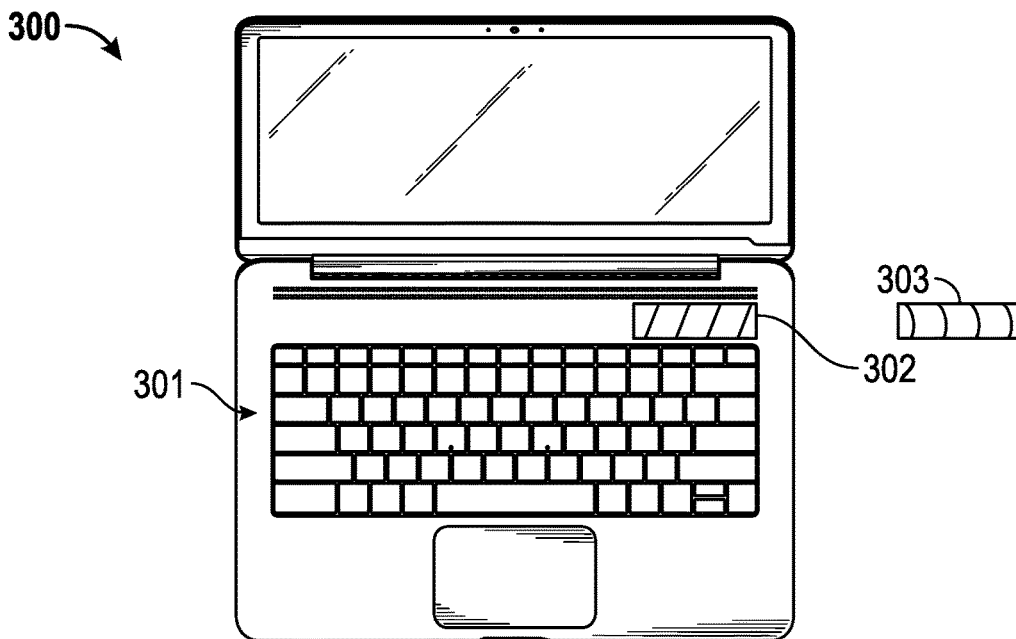


FIG. 3

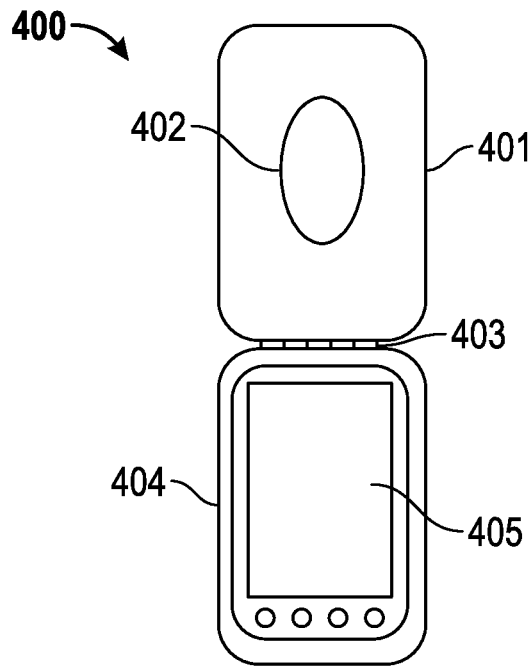


FIG. 4

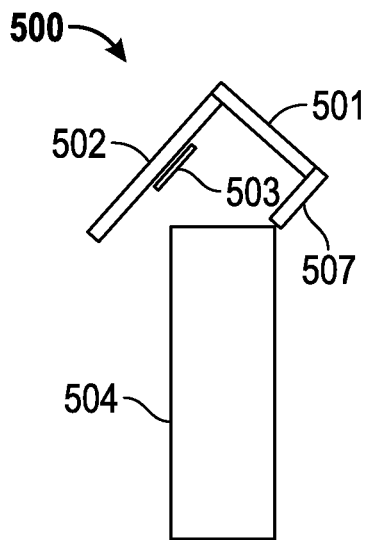


FIG. 5A

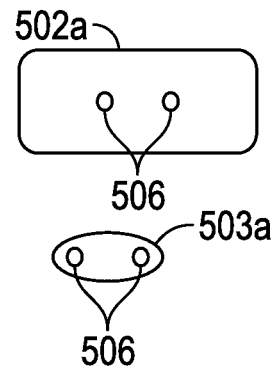


FIG. 5B

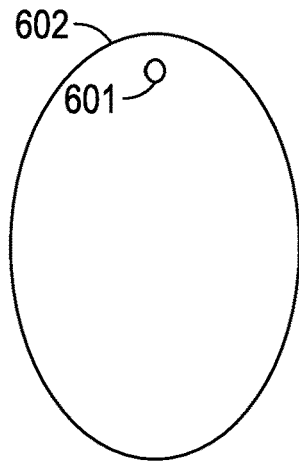


FIG. 6

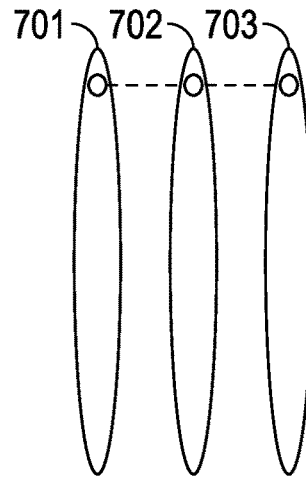


FIG. 7

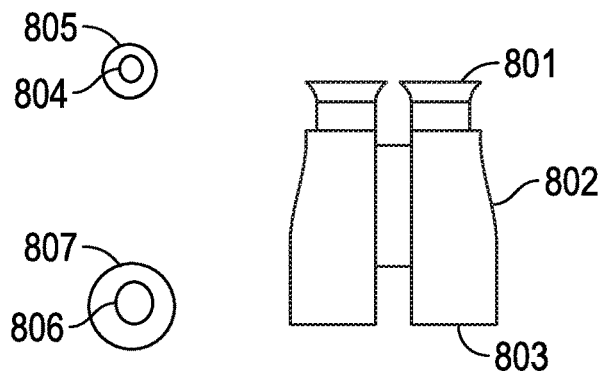


FIG. 8

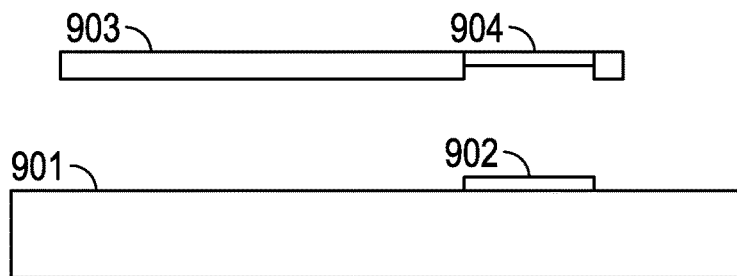


FIG. 9

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