



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

(10) **Patent No.:** **US 10,259,020 B2**
(45) **Date of Patent:** **Apr. 16, 2019**

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

(71) Applicant: **GUI GLOBAL PRODUCTS, LTD.**,
Houston, TX (US)

(72) Inventors: **Walter G. Mayfield**, Houston, TX (US); **Daniel Martin Valdez**,
Kingwood, TX (US)

(73) Assignee: **GUI Global Products, LTD.**, 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.: **15/851,952**

(22) Filed: **Dec. 22, 2017**

(65) **Prior Publication Data**
US 2018/0133759 A1 May 17, 2018

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.

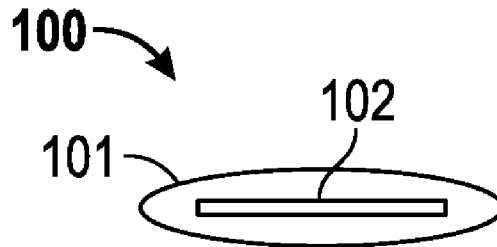
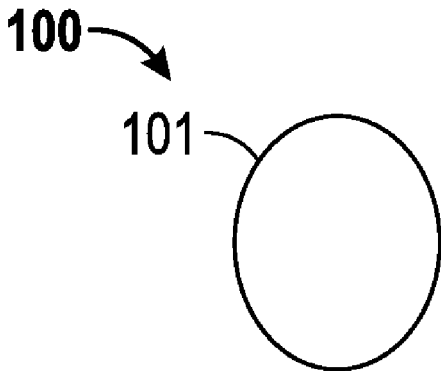
(56) **References Cited**
U.S. PATENT DOCUMENTS
2005/0107131 A1* 5/2005 Abramov H04M 1/0258 455/569.1
2005/0284904 A1* 12/2005 Knapp A45F 5/02 224/269

(Continued)

Primary Examiner — Anthony M Haughton
(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.

19 Claims, 13 Drawing Sheets



Samsung v. GUI
IPR2021-00335
Exhibit 1001

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	Roeback	B08B 1/00
				15/105
2011/0192857 A1*	8/2011	Rothbaum	B25F 1/00
				220/694

* cited by examiner

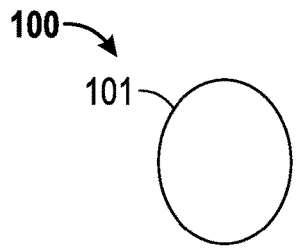


FIG. 1A

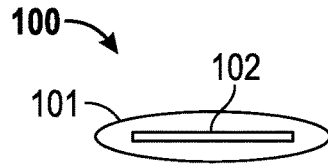


FIG. 1B

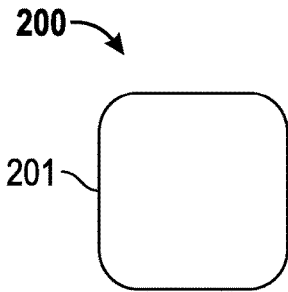


FIG. 2A

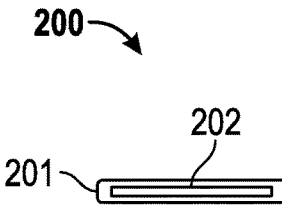


FIG. 2B

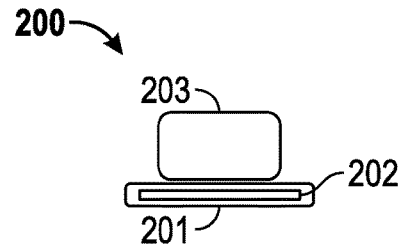


FIG. 2C

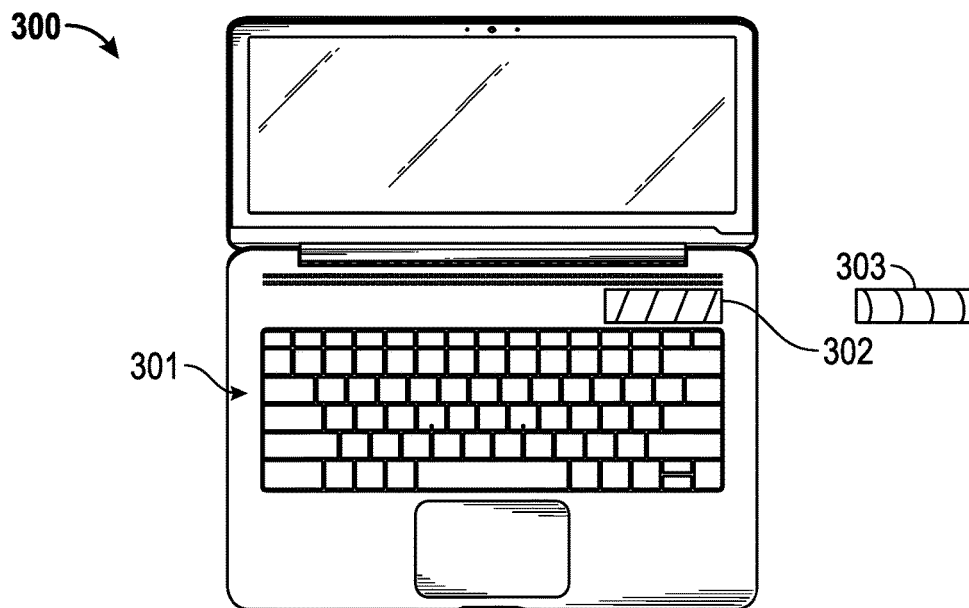


FIG. 3

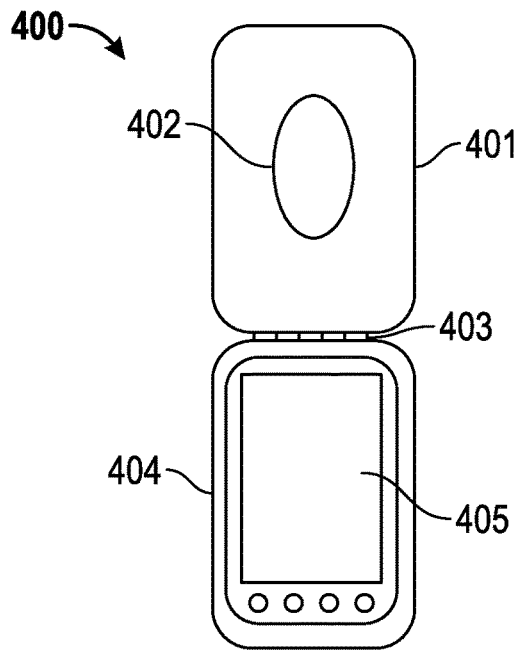


FIG. 4

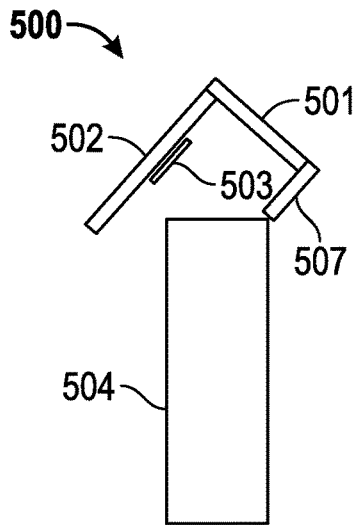


FIG. 5A

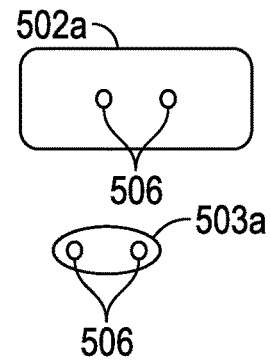


FIG. 5B

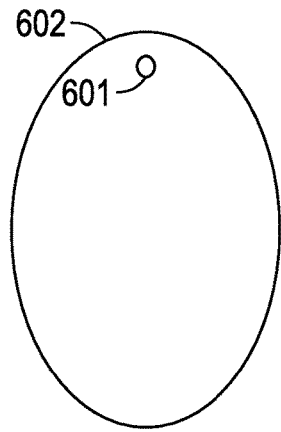


FIG. 6

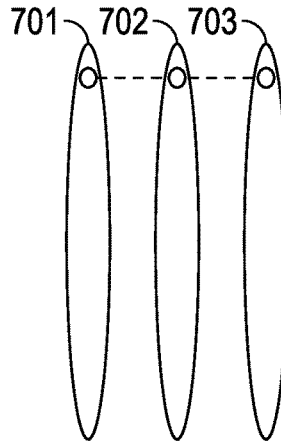


FIG. 7

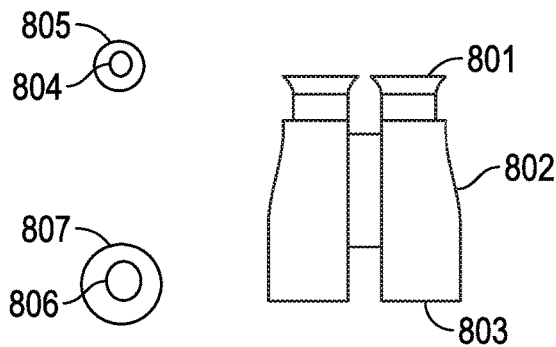


FIG. 8

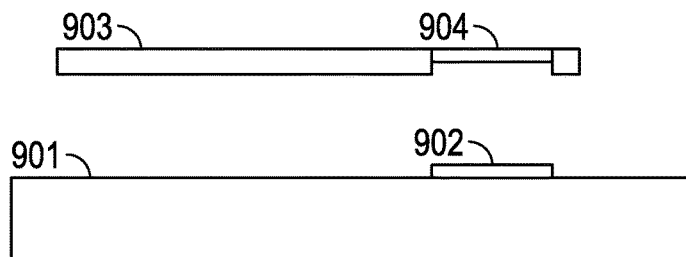


FIG. 9

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.