



US00D747228S

(12) **United States Design Patent**  
**Fiedler et al.**

(10) **Patent No.:** **US D747,228 S**  
(45) **Date of Patent:** **\*\* Jan. 12, 2016**

(54) **DOOR/WINDOW SENSOR**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **Fibar Group sp. z o.o.**, Poznan (PL)

CA 70745 6/1992  
CA 74034 3/1994

(72) Inventors: **Maciej Fiedler**, Poznań (PL); **Lukasz Gdyk**, Dabrowka (PL)

(Continued)

(73) Assignee: **Fibar Group S.A.** (PL)

OTHER PUBLICATIONS

(\*\*) Term: **14 Years**

Whelen Engineering Guardian Halogen Mini Lightbar, image post date Mar. 23, 2010, site visited Apr. 29, 2015, (online), <[http://web.archive.org/web/20100323140712/http://www.northerntool.com/shop/tools/category\\_whelen-engineering](http://web.archive.org/web/20100323140712/http://www.northerntool.com/shop/tools/category_whelen-engineering)>.\*

(21) Appl. No.: **29/471,695**

(Continued)

(22) Filed: **Nov. 4, 2013**

(51) **LOC (10) Cl.** ..... **10-05**

*Primary Examiner* — Kevin Rudzinski

(52) **U.S. Cl.**

*Assistant Examiner* — Sean D Lough

USPC ..... **D10/104.1**

(58) **Field of Classification Search**

(74) *Attorney, Agent, or Firm* — McAndrews, Held & Malloy, Ltd.

USPC ..... D26/9, 10, 12, 13, 15, 16, 24, 51, 61,  
D26/72, 76, 80, 81, 85, 86, 88, 90, 113, 118,  
D26/119, 120, 122, 128, 129, 138, 143,  
D26/144; D13/180; D10/93, 114.4, 106.1

CPC ..... B60Q 1/04; B60Q 1/26; F21S 8/026;  
F21S 8/04; F21V 29/004; F21V 21/02;  
F21V 21/04; F21V 29/2212; F21Y 2101/02

See application file for complete search history.

(57) **CLAIM**

The ornamental design for a door/window sensor, as shown and described.

(56) **References Cited**

**DESCRIPTION**

U.S. PATENT DOCUMENTS

3,873,927 A 3/1975 Overall  
4,054,814 A \* 10/1977 Fegley et al. .... 315/71  
D249,250 S \* 9/1978 Peirish, Jr. .... D10/114.4  
4,577,178 A \* 3/1986 Hitora ..... 362/232  
D291,870 S \* 9/1987 Urbanski et al. .... D10/114.4  
D301,869 S 6/1989 Schwartz  
D325,902 S 5/1992 Hudson et al.  
D334,561 S 4/1993 Crater et al.  
D349,687 S 8/1994 Khoo et al.  
D359,043 S 6/1995 Althans  
D381,633 S 7/1997 Hiyakumoto et al.  
D396,471 S 7/1998 Kolinen  
D402,909 S 12/1998 Stanuch

FIG. 1 is a top front perspective view of an embodiment of a door/window sensor showing our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a back view thereof;

FIG. 4 is a left side view thereof;

FIG. 5 is a right side view thereof;

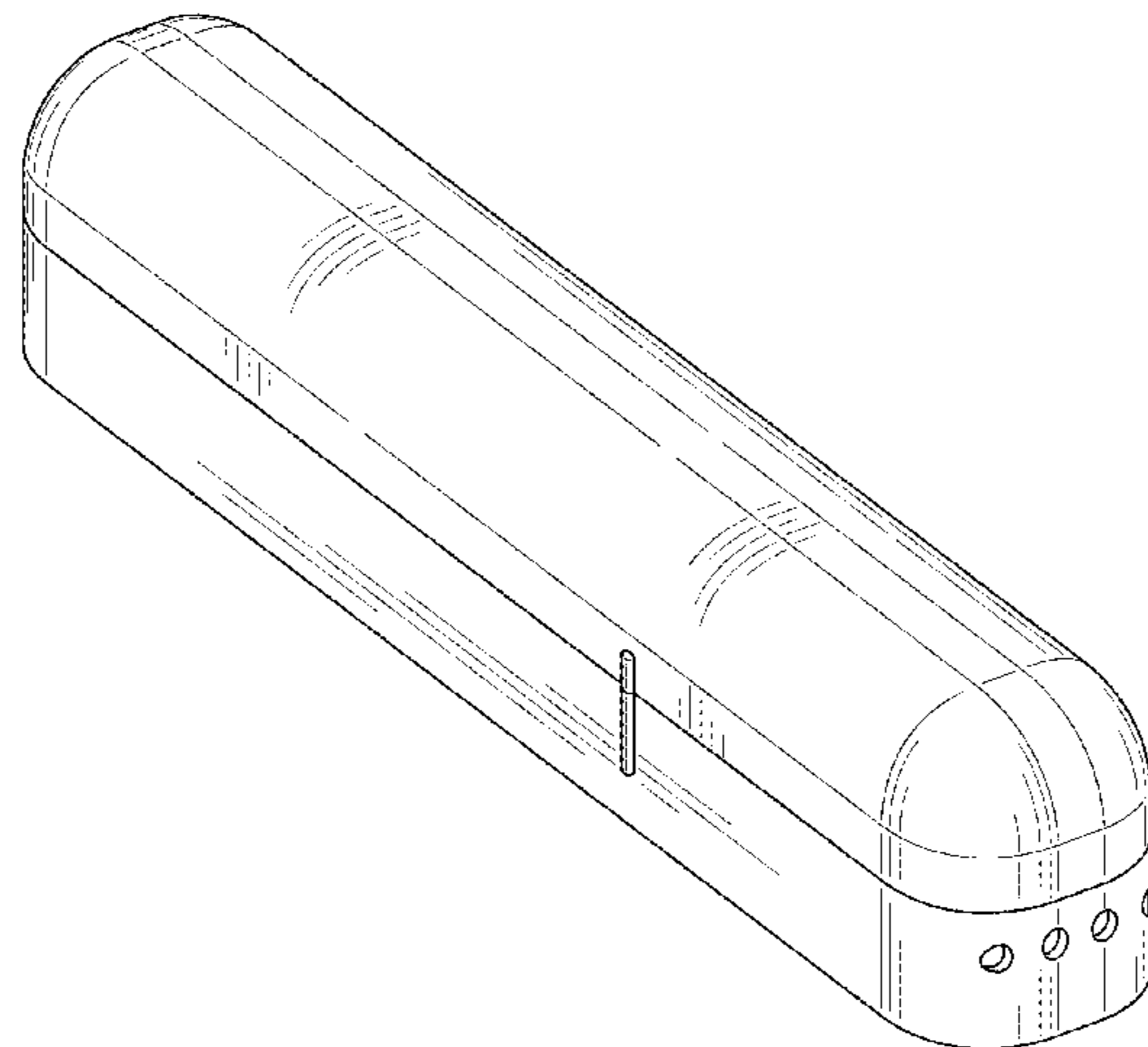
FIG. 6 is a top view thereof; and,

FIG. 7 is a bottom view thereof.

The broken lines (where present) in all FIGS. illustrate portions of the door/window sensor that form no part of the claimed design. The shade lines in the drawings show contour and not surface ornamentation.

(Continued)

**1 Claim, 3 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D405,424 S 2/1999 Winkler et al.  
 5,898,020 A \* 4/1999 Goyal et al. .... 505/239  
 D417,165 S \* 11/1999 Takeda ..... D10/106.6  
 D417,871 S 12/1999 Hisatsune  
 D432,038 S \* 10/2000 Sasaki et al. .... D10/114.4  
 D432,444 S \* 10/2000 Sasaki et al. .... D10/114.4  
 D449,244 S \* 10/2001 Ginzel ..... D10/106.6  
 D451,218 S \* 11/2001 Bernier ..... D26/28  
 6,406,169 B1 \* 6/2002 Munsey ..... 362/485  
 D469,711 S \* 2/2003 Neufeglise et al. .... D10/114.4  
 6,592,238 B2 \* 7/2003 Cleaver et al. .... 362/246  
 D481,056 S 10/2003 Kawasaki et al.  
 D487,728 S 3/2004 Murray  
 D489,337 S 5/2004 Murray  
 D492,262 S 6/2004 Murray  
 D494,583 S 8/2004 Guerrero  
 D499,656 S \* 12/2004 Bhavnani ..... D10/40  
 D499,976 S \* 12/2004 Richardson et al. .... D10/114.4  
 6,892,751 B2 5/2005 Sanders  
 D510,256 S \* 10/2005 Genelle ..... D8/353  
 D513,497 S 1/2006 Whitehouse  
 D514,118 S 1/2006 Christianson  
 D520,500 S 5/2006 Storti et al.  
 D521,403 S 5/2006 Shain et al.  
 D523,873 S 6/2006 Huang  
 D533,186 S 12/2006 Chen et al.  
 D533,851 S 12/2006 Yoon  
 D540,752 S 4/2007 Hayes et al.  
 7,206,645 B2 4/2007 Seguin  
 7,207,692 B1 \* 4/2007 Hulse ..... 362/231  
 D541,755 S \* 5/2007 Spira ..... D13/162  
 D541,762 S 5/2007 Nakagawa et al.  
 7,224,000 B2 \* 5/2007 Aanegola et al. .... 257/98  
 D544,450 S \* 6/2007 Mierta et al. .... D13/162  
 D546,788 S \* 7/2007 Isshiki ..... D14/126  
 7,244,966 B2 \* 7/2007 Fukayama ..... 257/98  
 D548,702 S 8/2007 Girard  
 7,253,741 B2 8/2007 Fiorletta et al.  
 7,262,439 B2 \* 8/2007 Setlur et al. .... 257/98  
 7,270,443 B2 \* 9/2007 Kurtz et al. .... 362/282  
 7,309,216 B1 12/2007 Spadola, Jr. et al.  
 D559,233 S 1/2008 Tang  
 D563,422 S \* 3/2008 Yamashita et al. .... D14/485  
 D567,187 S 4/2008 Oba et al.  
 D570,297 S 6/2008 Gibbons et al.  
 7,438,441 B2 \* 10/2008 Sun et al. .... 362/294  
 D586,301 S \* 2/2009 Corsini ..... D13/168  
 D588,484 S 3/2009 Bandringa et al.  
 7,506,997 B1 \* 3/2009 Eriksson ..... 362/241  
 D604,254 S 11/2009 Lanfear et al.  
 D604,725 S 11/2009 Chen  
 7,648,251 B2 \* 1/2010 Whitehouse et al. .... 362/223  
 D609,701 S 2/2010 Hou  
 D610,479 S 2/2010 Shi  
 D614,587 S \* 4/2010 Yodfat et al. .... D13/168  
 D621,287 S 8/2010 Kaneko et al.  
 D625,294 S \* 10/2010 Wada ..... D14/218  
 D631,165 S 1/2011 Fisher et al.  
 D631,446 S 1/2011 Lanfear et al.  
 7,926,985 B2 \* 4/2011 Teng et al. .... 362/373  
 D638,372 S 5/2011 Clymer et al.  
 D639,752 S 6/2011 Li et al.  
 D646,640 S 10/2011 Clymer et al.  
 D647,504 S 10/2011 Choi  
 D652,753 S \* 1/2012 Deyaf ..... D10/114.4  
 D653,142 S \* 1/2012 Deyaf ..... D10/114.4  
 8,154,398 B2 4/2012 Rolf et al.  
 D660,261 S 5/2012 Huang et al.  
 D660,809 S 5/2012 Kern Koskela et al.  
 D664,460 S 7/2012 Aurongzeb et al.  
 D665,290 S 8/2012 Bhate et al.  
 D665,773 S 8/2012 Behringer  
 D671,851 S 12/2012 Treharne et al.  
 D674,716 S \* 1/2013 Walma et al. .... D10/114.4  
 8,356,920 B2 \* 1/2013 Levine ..... 362/421

D678,097 S 3/2013 Elwell et al.  
 D678,258 S 3/2013 Seto  
 D680,015 S 4/2013 Hauser et al.  
 D681,600 S \* 5/2013 Gebski ..... D14/159  
 D682,777 S 5/2013 Gupta et al.  
 D683,251 S 5/2013 Dumas et al.  
 D683,320 S \* 5/2013 Strother ..... D13/168  
 D689,441 S 9/2013 Kah, Jr. et al.  
 D692,332 S 10/2013 Ni et al.  
 D693,311 S 11/2013 Biller et al.  
 D695,234 S 12/2013 Santiago  
 D695,693 S 12/2013 Lee et al.  
 D697,035 S \* 1/2014 Huang ..... D13/168  
 D699,177 S 2/2014 Higashi  
 D700,098 S \* 2/2014 Deyaf ..... D10/114.4  
 D703,082 S \* 4/2014 Deyaf ..... D10/114.4  
 D703,156 S 4/2014 Parsons et al.  
 D703,566 S 4/2014 Chen et al.  
 D704,625 S 5/2014 Tsutsumi et al.  
 D705,719 S 5/2014 Wong  
 D705,751 S \* 5/2014 Wenger ..... D14/206  
 8,724,046 B2 \* 5/2014 Que ..... 349/58  
 D706,152 S 6/2014 Ni et al.  
 D706,228 S 6/2014 Ishiura  
 D712,292 S \* 9/2014 Yang ..... D10/106.1  
 D713,277 S \* 9/2014 Hasegawa ..... D10/106.6  
 8,836,522 B2 9/2014 Thorpe et al.  
 D723,574 S \* 3/2015 Yamazaki ..... D14/485  
 2002/0080501 A1 \* 6/2002 Kawae et al. .... 359/799  
 2003/0048641 A1 \* 3/2003 Alexanderson et al. .... 362/470  
 2005/0207166 A1 \* 9/2005 Kan et al. .... 362/373  
 2005/0259424 A1 \* 11/2005 Zampini et al. .... 362/294  
 2005/0265019 A1 \* 12/2005 Sommers et al. .... 362/217  
 2006/0050509 A9 \* 3/2006 Dowling et al. .... 362/231  
 2006/0220047 A1 \* 10/2006 Nagatomi et al. .... 257/98  
 2008/0007945 A1 \* 1/2008 Kelly et al. .... 362/218  
 2008/0133063 A1 6/2008 Bisson et al.  
 2009/0231129 A1 9/2009 Edwards et al.  
 2009/0240377 A1 9/2009 Batzler et al.  
 2011/0012726 A1 1/2011 Jessiman et al.  
 2011/0061014 A1 3/2011 Frader-Thompson et al.  
 2011/0093217 A1 4/2011 Kates  
 2011/0130880 A1 6/2011 Nishino et al.  
 2011/0289561 A1 11/2011 Ivanov et al.  
 2012/0130513 A1 5/2012 Hao et al.  
 2013/0082835 A1 4/2013 Shapiro et al.  
 2013/0145826 A1 6/2013 Richarz et al.  
 2013/0241479 A1 9/2013 Wright, Jr. et al.  
 2014/0005809 A1 1/2014 Frei et al.  
 2015/0091723 A1 \* 4/2015 Fiedler et al. .... 340/521

FOREIGN PATENT DOCUMENTS

CA 74569 8/1994  
 CA 74610 8/1994  
 CN 3274285 1/2003  
 CN 301936325 S 5/2012  
 CN 201230432179X 6/2013  
 CN 302767627 S 3/2014  
 DE 4029615 A1 4/1992  
 EP 0241676 A2 10/1987  
 EP 000137351-0008 2/2004  
 EP 000145644-0001 3/2004  
 EP 000166350-0001 4/2004  
 EP 000242888-0001 10/2004  
 EP 000253380-0002 11/2004  
 EP 000268032-0002 12/2004  
 EP 000321971-0007 4/2005  
 EP 000352943-0001 6/2005  
 EP 000481304-0001 2/2006  
 EP 000536438-0001 5/2006  
 EP 000603709-0002 10/2006  
 EP 000623608-0001 11/2006  
 EP 000757620-0004 7/2007  
 EP 000779061-0001 8/2007  
 EP 000792791-0001 9/2007  
 EP 000830542-0006 11/2007  
 EP 000883269-0001 2/2008  
 EP 001015788-0001 10/2008

(56)

References Cited

FOREIGN PATENT DOCUMENTS

EP	001032437-0001	11/2008
EP	001032437-0002	11/2008
EP	001057392-0001	12/2008
EP	001223457-0002	6/2010
EP	001720590-0001	6/2010
EP	001781188-0001	11/2010
EP	001259204-0001	2/2011
EP	001828070-0001	2/2011
EP	001295182-0001	9/2011
EP	001914029-0004	9/2011
EP	001920018-0004	9/2011
EP	002041764-0001	5/2012
EP	002074989-0001	7/2012
EP	002079673-0001	7/2012
EP	002143784-0002	11/2012
EP	002163360-0001	1/2013
EP	002177667-0001	2/2013
EP	002242800-0001	5/2013
EP	002278887-0001	7/2013
EP	002293415-0002	8/2013
EP	002440198-0001	4/2014
EP	002465476-0002	5/2014
JP	1177905 S	6/2003
JP	1203574 S	4/2004
JP	1220720 S	10/2004
JP	1333401 S	6/2008
JP	1348157 S	1/2009
JP	1400836 S	11/2010
JP	1422635 S	9/2011
JP	1463123 S	2/2013
JP	1491697 S	3/2013
JP	1386160 S	4/2013
JP	1471658 S	6/2013
JP	1475417 S	7/2013
JP	1477025 S	8/2013
JP	1477336 S	8/2013
JP	1400674 S	10/2013
JP	1498774 S	6/2014
WO	DM053972	11/2000
WO	DM/058681	11/2001
WO	DM059634	3/2002

WO	DM066764	5/2005
WO	DM/074389	9/2010
WO	DM074708	11/2010
WO	DM075611	12/2010
WO	DM075517	2/2011
WO	DM076583	5/2011
WO	DM078408	11/2011
WO	DM079061	2/2012
WO	DM078643	6/2012
WO	DM078737	7/2012
WO	DM079877	12/2012
WO	DM081654	8/2013
WO	DM082066	10/2013
WO	DM083551	2/2014

OTHER PUBLICATIONS

Automated Home, Case Study: UK Z-Wave Home Automation Setup, [www.automatedhome.co.uk/installaton/case-study-uk-z-wave-home-automation-setup.html](http://www.automatedhome.co.uk/installaton/case-study-uk-z-wave-home-automation-setup.html) (13 pages), Jun. 17, 2014.

The Online Architecture and Design Exhibition, Interface Module for Home Automation System—EXB-REL8—AMX—Videos, [www.archiexpo.com/prod/amx/interface-module-home-automation-systems-51274-1065061.html](http://www.archiexpo.com/prod/amx/interface-module-home-automation-systems-51274-1065061.html) (18 pages), Jun. 17, 2014.

Graves on SOHO Technology, Vera Home Automation, Michael Graves, Oct. 23, 2008, [www.mgraves.org/2008/10/vera-home-automation/](http://www.mgraves.org/2008/10/vera-home-automation/) (6 pages), Jun. 17, 2014.

TaHomA—Home Motion by Somfy, Somfy Systems, Creator of TaHomA, the New Home Control System, [www.somfytahoma.com/home-automation-products/home-automation-controllers-products/home-automation-somfy--tahoma-controller](http://www.somfytahoma.com/home-automation-products/home-automation-controllers-products/home-automation-somfy--tahoma-controller) (3 pages), Jun. 17, 2014.

Introduction to X10 Home Automation Technology, by Tony Northrup, Jan. 10, 2005, [www.oreillynet.com/pub/a/network/2005/01/10/x10\\_hmhck.html](http://www.oreillynet.com/pub/a/network/2005/01/10/x10_hmhck.html) (5 pages), Jun. 17, 2014.

Fibaro Flood Sensor URL: <http://www.fibaro.com/en/the-fibaro-system/flood-sensor>.

Wireless Leakage Sensor URL: <http://smarthome01.com/2014/03/03/wireless-leakage-sensor/>.

Occupancy Sensor URL: <http://www.tech-faq.com/occupancy-sensors.html>.

\* cited by examiner

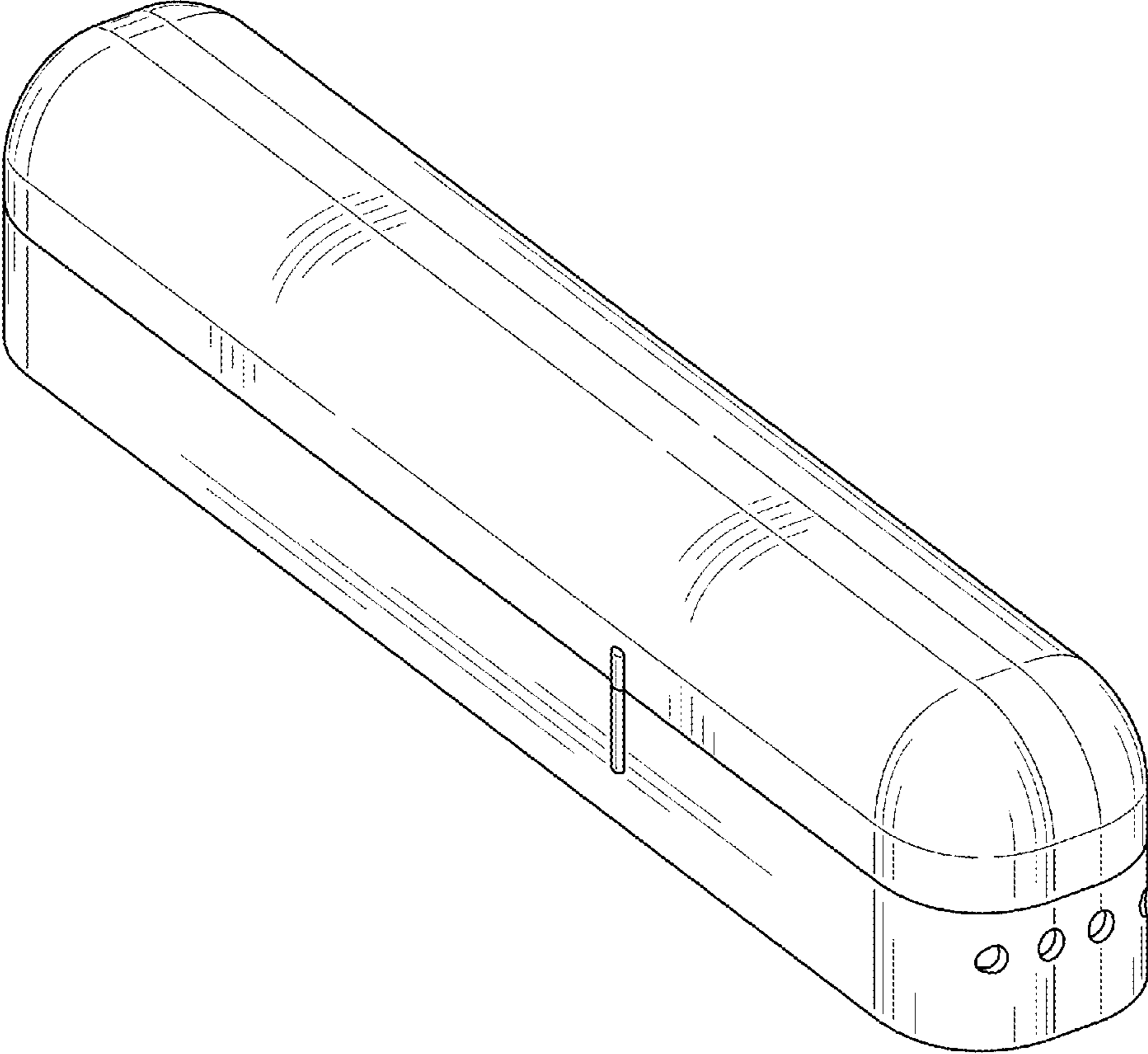
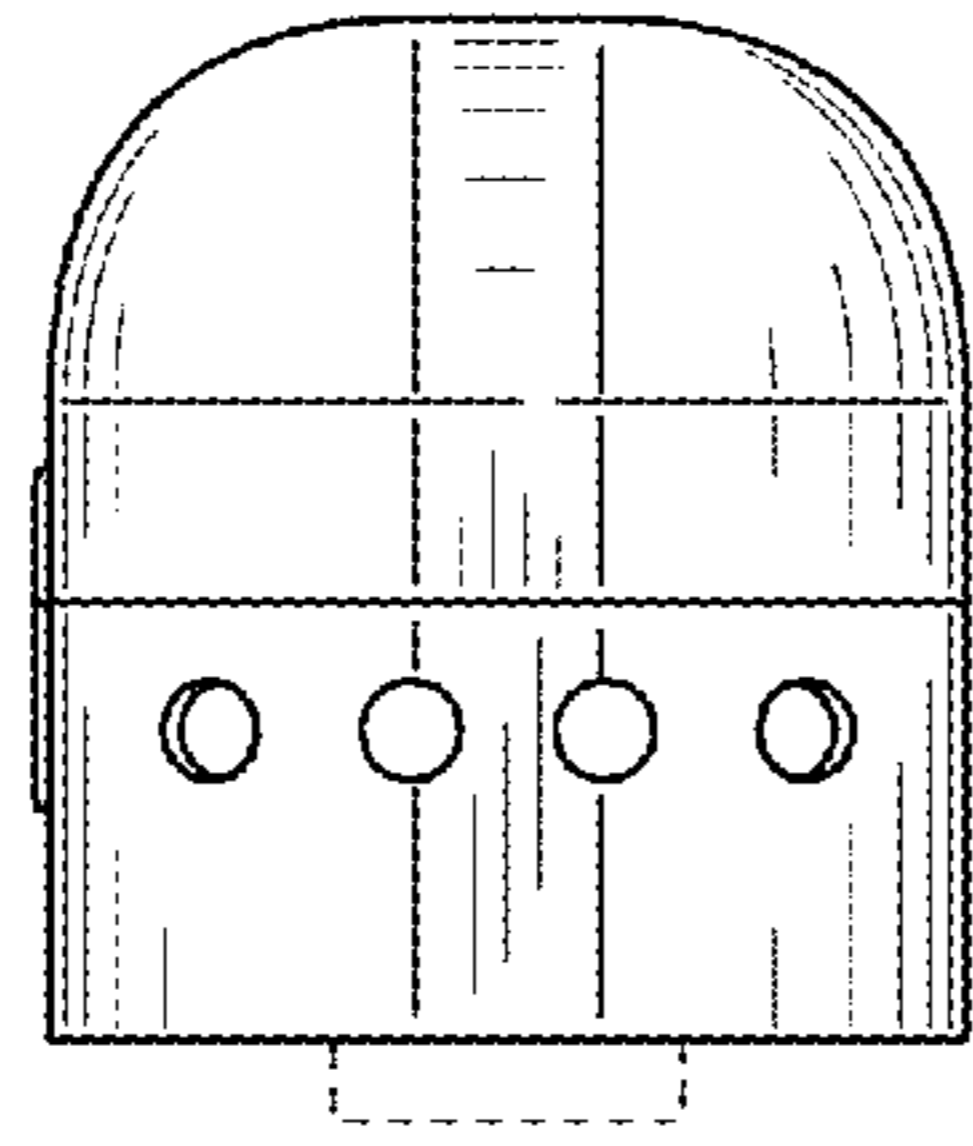
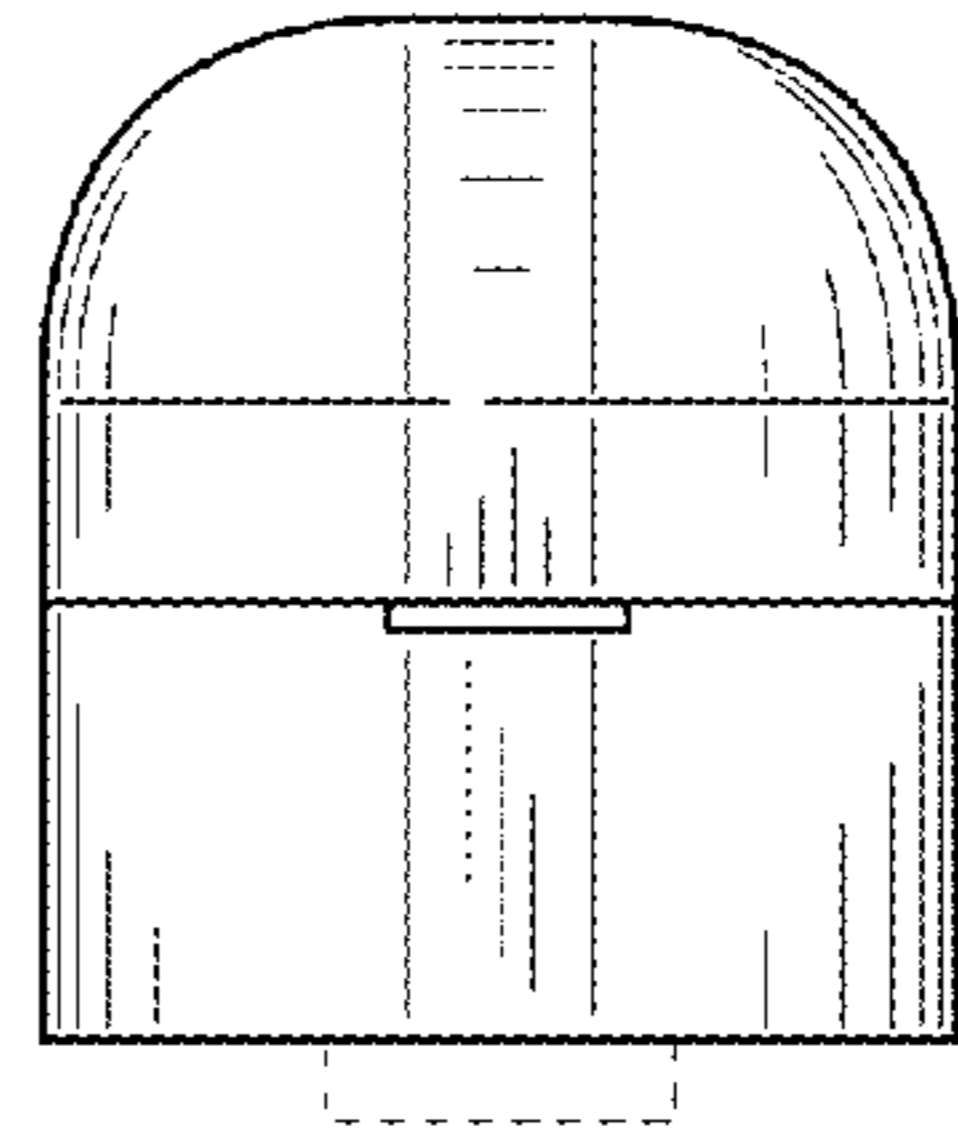


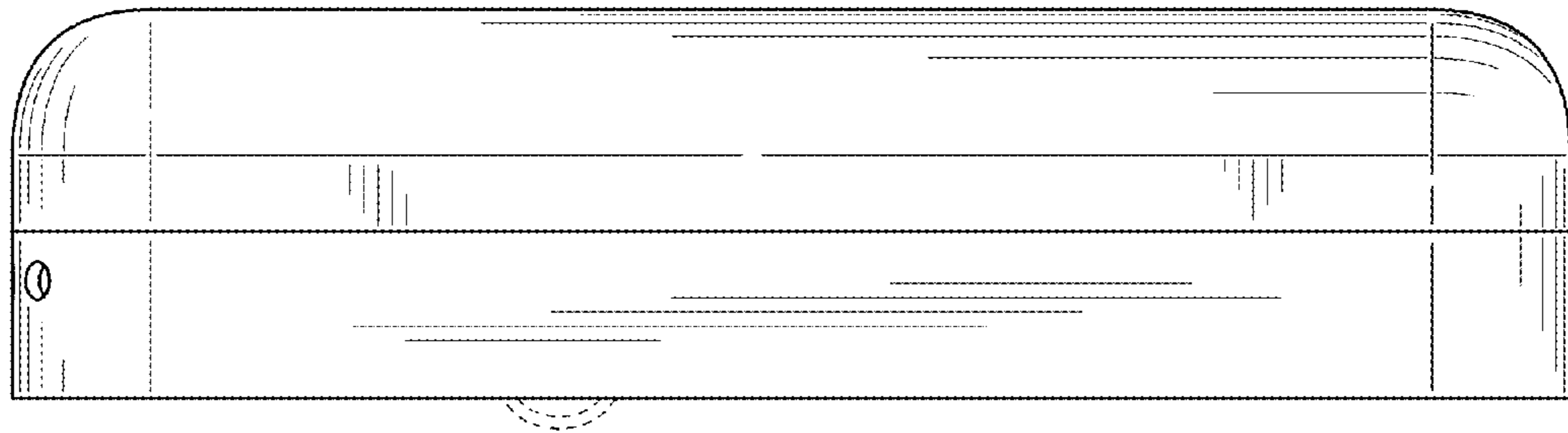
FIG. 1



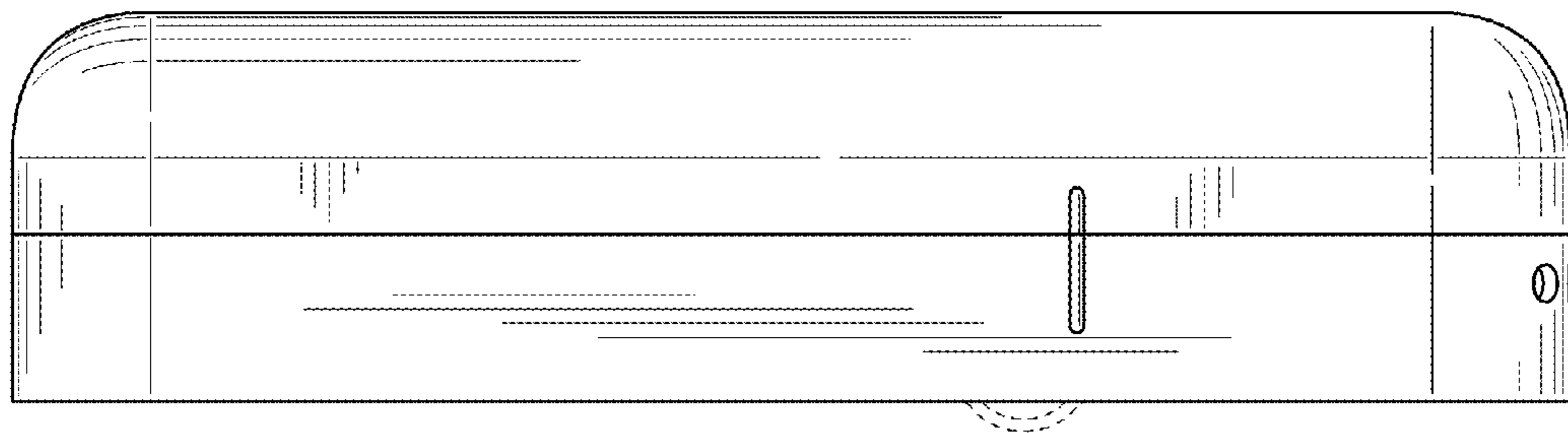
**FIG. 2**  
(amended)



**FIG. 3**  
(amended)



**FIG. 4**  
(amended)



**FIG. 5**  
(amended)

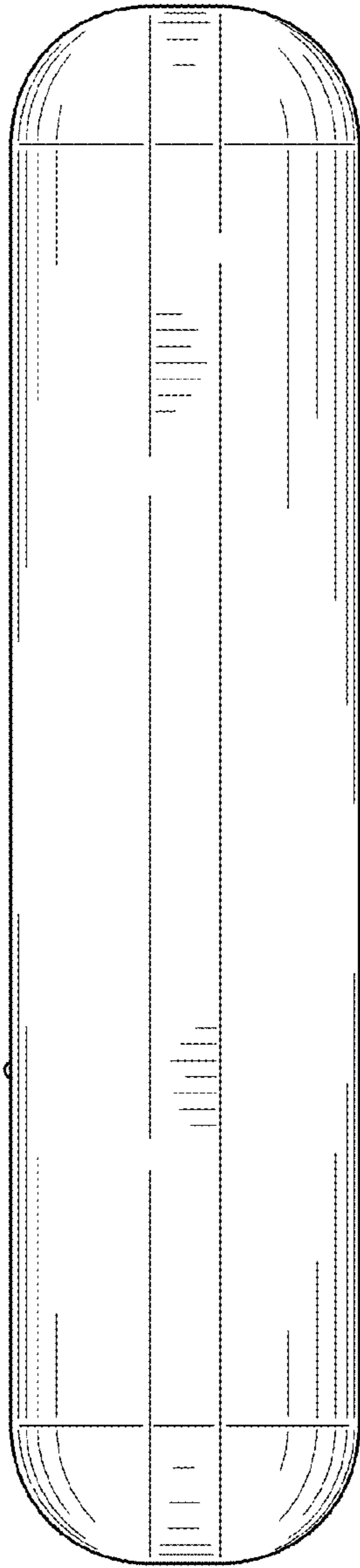


FIG. 6

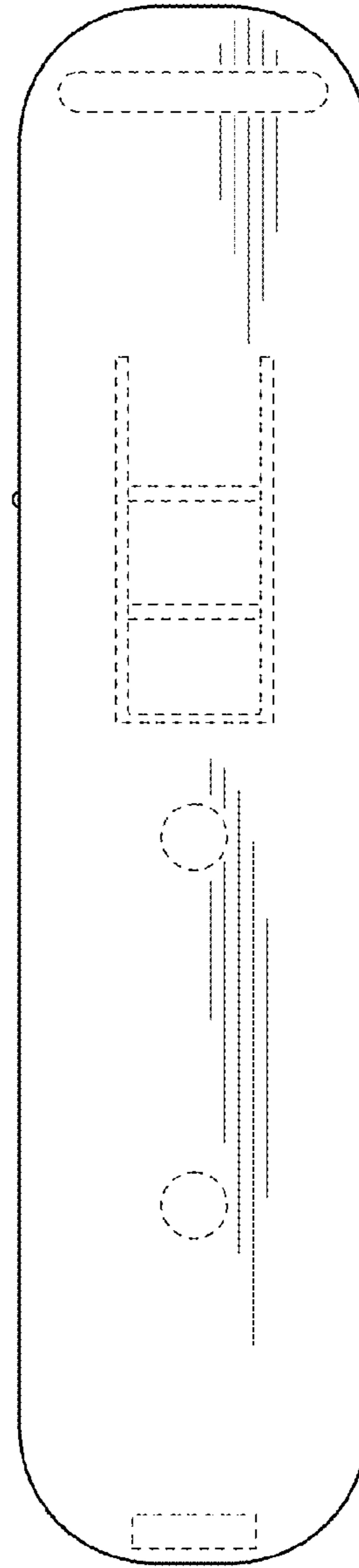


FIG. 7

(amended)