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

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(54) **LIGHT DIMMER MODULE**

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Related U.S. Application Data

- (63) Continuation of application No. 29/540,768, filed on
Sep. 28, 2015, now Pat. No. Des. 771,039, which is
(Continued)
- (51) **LOC (10) Cl.** **13-03**
- (52) **U.S. Cl.**
USPC **D13/162.1; D10/104.1; D14/356**
- (58) **Field of Classification Search**
USPC ... D26/9, 10, 12, 13, 15, 16, 24, 51, 61, 72,
D26/76, 80, 81, 85, 86, 88, 90, 113, 118,
D26/119, 120, 122, 128, 129, 138, 143,
D26/144; D13/180, 162, 162.1; D10/93,
D10/104.1, 108, 114; D14/356
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 2,526,606 A 10/1950 Hendrick
 - 2,880,264 A 3/1959 Ruskin
- (Continued)

OTHER PUBLICATIONS

EZ-Bridge-Ultra5, image post date Feb. 2, 2011, site visited Mar. 10, 2016, (online), <<http://web.archive.org/web/20110202091936/http://ez-bridge-com/>>.*

(Continued)

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(57) **CLAIM**

The ornamental design for light dimmer module, as shown and described.

DESCRIPTION

FIG. 1 shows a front, right and top perspective view of the light dimmer module with a plug and socket shown as environment in broken lines;

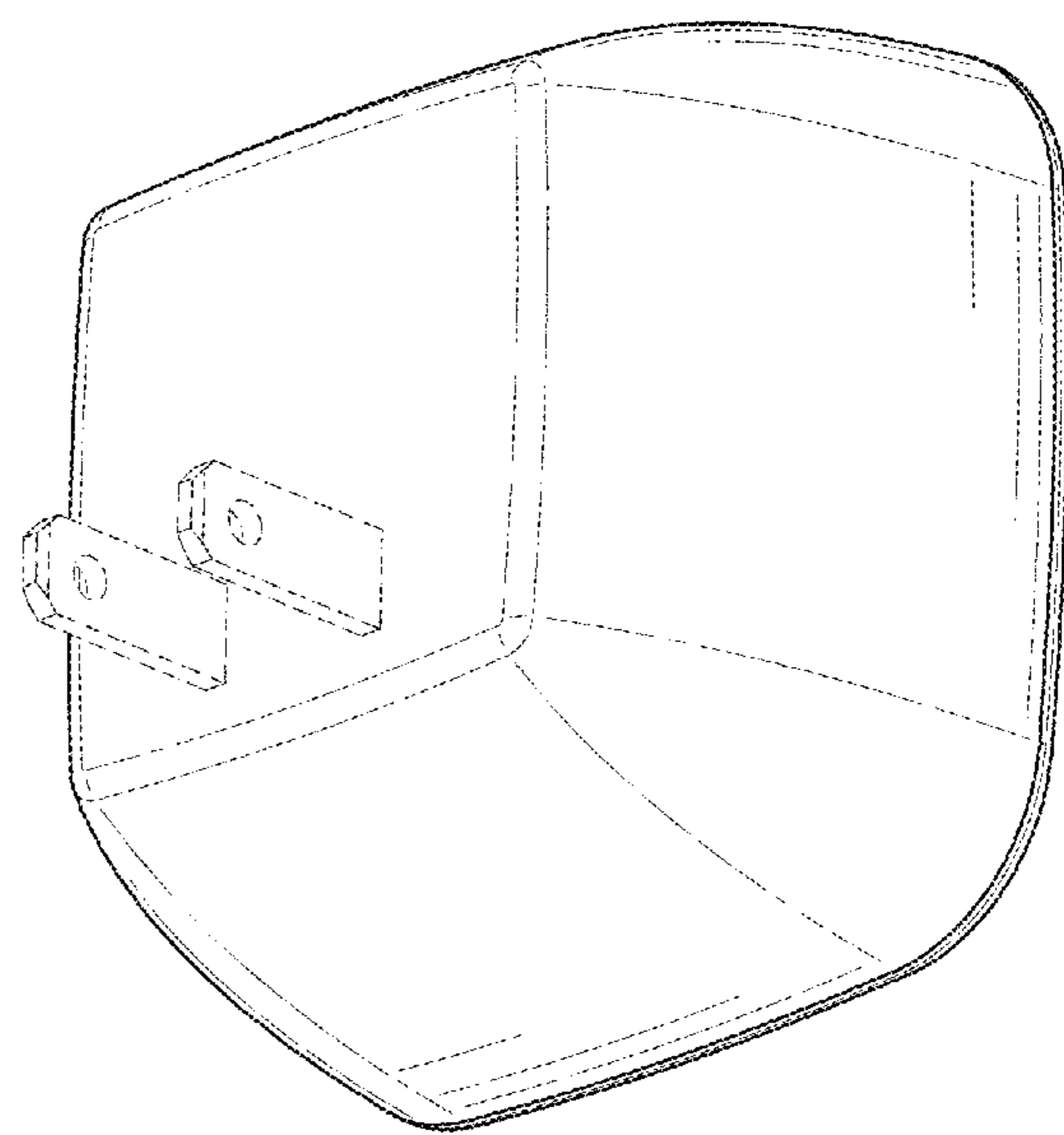
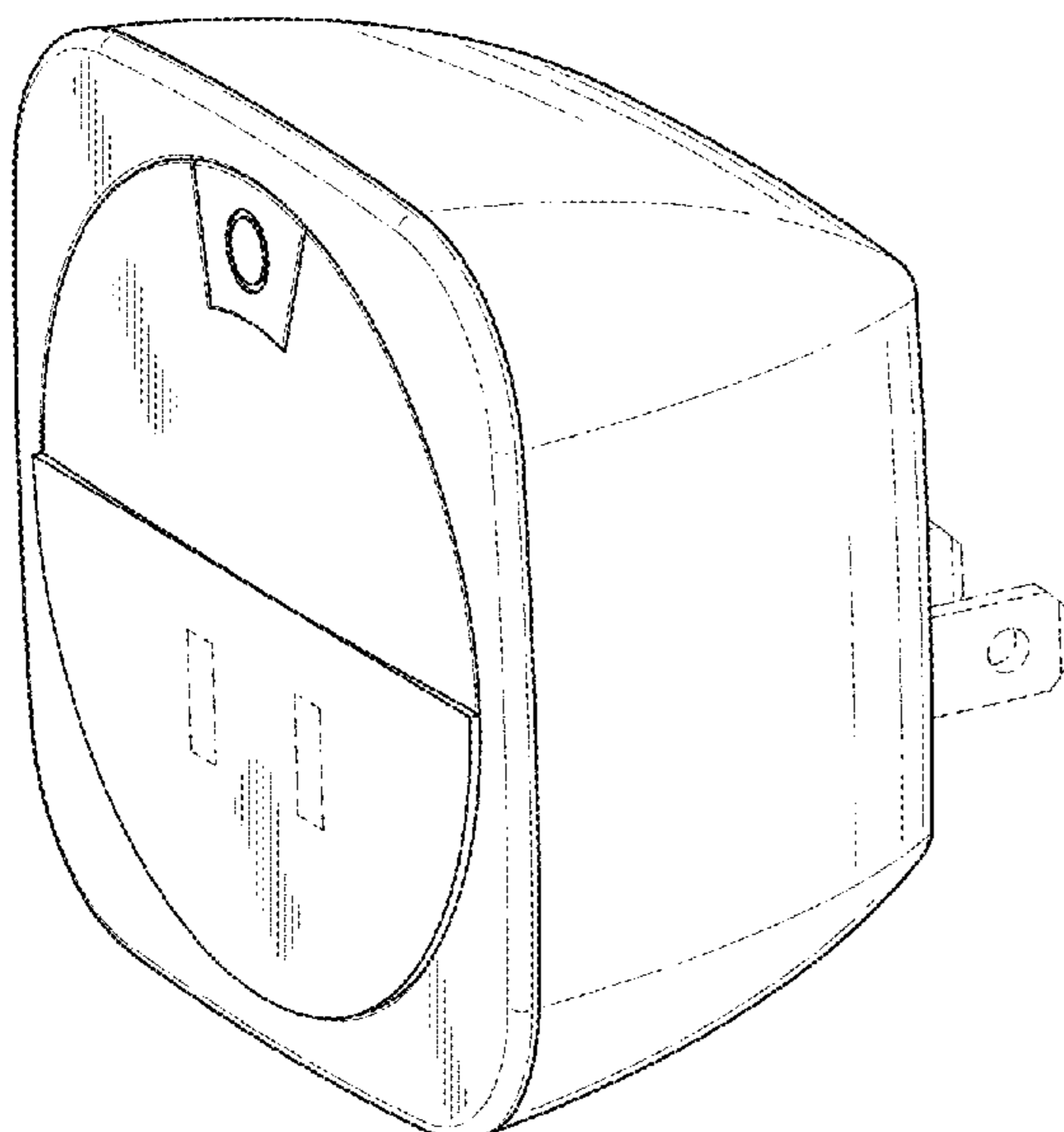
FIG. 2 shows a front elevation view of the light dimmer module with a socket shown as environment in broken lines; FIG. 3 shows a rear elevation view of the light dimmer module with a plug shown as environment in broken lines; FIG. 4 shows a right side elevation view of the light dimmer module with a plug shown as environment in broken lines, the left side elevation view of the light dimmer module being a mirror image thereof;

FIG. 5 shows a top plan view of the light dimmer module with a plug shown as environment in broken lines, the bottom view of the light dimmer module being a mirror image thereof; and,

FIG. 6 shows a rear, left, and bottom perspective view of the light dimmer module with a plug shown as environment in broken lines.

The broken lines in all FIGs. illustrate environment of the light dimmer module that form no part of the claimed design.

1 Claim, 6 Drawing Sheets



Related U.S. Application Data

a continuation of application No. 29/478,518, filed on Jan. 6, 2014, now Pat. No. Des. 742,770.

(58) **Field of Classification Search**

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; H01R 13/5213

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,832,503 A 8/1974 Crane
 4,073,105 A 2/1978 Daugherty
 D271,684 S 12/1983 Berry, Jr.
 D294,346 S 2/1988 Holmes
 D296,440 S 6/1988 Smith et al.
 D301,331 S 5/1989 Rhodin
 D306,583 S 3/1990 Krolopp et al.
 D306,998 S 4/1990 Mintz et al.
 D310,063 S 8/1990 Cheng
 D313,864 S 1/1991 Macaluso
 D315,315 S 3/1991 Stairs
 D315,893 S 4/1991 Cheng
 D316,458 S * 4/1991 Spotts D26/67
 5,008,788 A 4/1991 Palinkas
 D317,311 S * 6/1991 Anderson D14/240
 D322,438 S 12/1991 Skowronski
 D326,237 S 5/1992 Gale et al.
 5,258,656 A 11/1993 Pawlick
 5,280,135 A * 1/1994 Berlin H02G 3/14
 174/67
 D344,901 S 3/1994 Conforti
 D344,930 S 3/1994 Schaeffer
 D352,472 S 11/1994 Chen
 D356,274 S 3/1995 Ross et al.
 D360,845 S 8/1995 Smith et al.
 D364,350 S 11/1995 Pasquarette et al.
 D378,200 S 2/1997 Doppelt et al.
 5,650,771 A 7/1997 Lee
 D382,251 S * 8/1997 Tsui D13/137.1
 5,682,017 A 10/1997 Marrotte
 D390,938 S * 2/1998 Jane D23/356
 D399,617 S 10/1998 Fujita
 D404,719 S 1/1999 Suzuki
 D405,376 S 2/1999 Stekelenburg
 D406,047 S 2/1999 Scherer et al.
 D408,823 S 4/1999 Kirby
 D414,747 S * 10/1999 Aromin D13/160
 D424,028 S 5/2000 Vaiani
 D431,489 S 10/2000 Eckersley
 D432,038 S 10/2000 Sasaki et al.
 6,133,531 A 10/2000 Hayduke et al.
 D435,246 S 12/2000 Brey et al.
 D437,319 S 2/2001 Hui
 D442,921 S 5/2001 Bonn
 D451,218 S 11/2001 Bernier
 D461,804 S 8/2002 Carey et al.
 D469,411 S 1/2003 Decosse
 D469,711 S 2/2003 Neufeglise et al.
 D475,370 S 6/2003 Bone et al.
 D488,138 S 4/2004 Parsadayan et al.
 D491,553 S 6/2004 Cook
 D492,047 S 6/2004 Dohogne et al.
 D492,262 S 6/2004 Murray
 D492,263 S * 6/2004 Murray D13/162
 D496,487 S 9/2004 Rhee
 6,805,455 B2 10/2004 Nielsen et al.
 6,806,426 B1 10/2004 Gretz
 D498,745 S 11/2004 Sayler et al.
 D499,656 S 12/2004 Bhavnani
 D499,976 S 12/2004 Neufeglise et al.
 D503,703 S 4/2005 Beckett
 6,891,104 B2 5/2005 Dinh

D506,845 S 6/2005 Wernimont
 D507,259 S 7/2005 Taylor
 D509,214 S 9/2005 Chung
 D511,020 S 10/2005 Egawa et al.
 D512,790 S 12/2005 Handsaker et al.
 D514,097 S 1/2006 De Leon
 D516,236 S 2/2006 Yeh
 7,029,153 B2 4/2006 Rhee
 D521,001 S 5/2006 Xiao et al.
 D525,540 S * 7/2006 Stekelenburg D10/40
 D530,325 S 10/2006 Kerila et al.
 D530,437 S 10/2006 Neufeglise et al.
 D531,617 S * 11/2006 Rozier D14/215
 D534,285 S 12/2006 Williams
 D534,439 S * 1/2007 Stekelenburg D10/40
 D535,650 S 1/2007 Wong et al.
 7,241,952 B2 7/2007 Dinh
 7,246,926 B2 7/2007 Harwood
 D554,630 S 11/2007 Ma
 D561,113 S * 2/2008 Samhammer D13/162
 D561,114 S 2/2008 Peterson
 D562,317 S 2/2008 Lagerberg et al.
 D565,298 S 4/2008 Braun
 D565,434 S * 4/2008 Stekelenburg D10/40
 7,358,679 B2 4/2008 Lys et al.
 7,359,295 B2 4/2008 Nakayama et al.
 D570,300 S 6/2008 Weinberg
 D570,348 S 6/2008 Turpault et al.
 7,401,935 B2 7/2008 Vanderschuit
 D574,332 S 8/2008 Filban et al.
 D574,834 S 8/2008 Chen
 D575,775 S * 8/2008 Sekine D13/137.3
 D581,293 S * 11/2008 Stekelenburg D10/40
 7,446,749 B2 11/2008 Lee et al.
 D583,828 S 12/2008 Li et al.
 D595,329 S 6/2009 Sakamaki et al.
 D595,646 S 7/2009 Dallaire
 D595,705 S 7/2009 Houdek, II
 D595,712 S 7/2009 Guery et al.
 D596,562 S * 7/2009 Hong D13/108
 D596,628 S 7/2009 Houdek, II
 D597,543 S 8/2009 Urban
 D599,222 S * 9/2009 Bialek-Wester D10/15
 D599,753 S 9/2009 Cho et al.
 D603,344 S 11/2009 Pradhan
 D614,150 S 4/2010 Crites
 D615,556 S 5/2010 Yeo et al.
 D617,491 S * 6/2010 Dordoni D26/85
 D618,240 S 6/2010 Larmour et al.
 D618,384 S 6/2010 Chen et al.
 D619,535 S 7/2010 Shi
 D619,752 S 7/2010 Zhang
 D619,910 S * 7/2010 Stekelenburg D10/40
 D619,911 S 7/2010 Stekelenburg
 7,771,090 B2 8/2010 Chang et al.
 D623,639 S 9/2010 Richardson et al.
 D627,729 S * 11/2010 Smith D13/108
 D627,800 S 11/2010 Berning et al.
 D628,151 S 11/2010 Wegener et al.
 D630,210 S 1/2011 Andre et al.
 7,874,444 B2 1/2011 Ashworth
 7,915,528 B2 3/2011 Ni
 D635,940 S 4/2011 Cho et al.
 7,918,596 B2 4/2011 Frank et al.
 D637,951 S 5/2011 Perez
 D638,003 S 5/2011 Chen
 7,935,889 B1 5/2011 Cleghorn
 7,961,111 B2 6/2011 Tinaphong et al.
 D641,098 S 7/2011 Wildner
 D641,368 S 7/2011 McParland
 D642,173 S 7/2011 Lee et al.
 D642,629 S * 8/2011 Lo D21/401
 D644,222 S 8/2011 Woo
 8,013,545 B2 9/2011 Jonsson
 D646,272 S 10/2011 Woo et al.
 D646,590 S * 10/2011 Stekelenburg D10/40
 D646,591 S * 10/2011 Stekelenburg D10/40
 D647,418 S 10/2011 Miller et al.
 D653,662 S 2/2012 Park et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

D654,880 S 2/2012 Lam
 D654,917 S 2/2012 Chaturvedi et al.
 8,130,439 B2 3/2012 Handschy et al.
 D658,598 S 5/2012 Ling et al.
 D661,665 S 6/2012 Windstrup et al.
 D661,698 S 6/2012 Chaturvedi et al.
 D662,847 S 7/2012 Hecht
 D663,643 S 7/2012 Saikawa et al.
 D664,130 S 7/2012 Lee
 D664,143 S 7/2012 Chaturvedi et al.
 D665,347 S 8/2012 Chen
 D667,005 S 9/2012 Lutz
 D671,851 S 12/2012 Treharne et al.
 D673,564 S 1/2013 Milliff
 D673,701 S 1/2013 Davies
 D673,948 S 1/2013 Andre et al.
 D674,125 S 1/2013 Davies
 D674,524 S 1/2013 Davies
 D677,635 S 3/2013 Ling et al.
 D677,824 S 3/2013 Maxik et al.
 D680,681 S * 4/2013 Boyer D26/128
 D682,788 S 5/2013 Diehl et al.
 D684,718 S 6/2013 Ko
 D684,957 S 6/2013 Smith et al.
 D685,655 S 7/2013 Hsu
 D686,614 S 7/2013 Tan
 D691,762 S * 10/2013 Sieczkowski D26/89
 D694,944 S 12/2013 Rhodes
 D695,238 S 12/2013 Diehl et al.
 D695,727 S 12/2013 Shimizu
 D699,179 S 2/2014 Alexander
 D699,758 S * 2/2014 Lavin D14/496
 D701,636 S 3/2014 Maxik et al.
 D703,156 S 4/2014 Parsons et al.
 D703,157 S * 4/2014 Parsons D13/164
 D703,158 S 4/2014 Parsons et al.
 D703,619 S 4/2014 Wilkins
 D705,160 S 5/2014 Ormesher et al.
 D705,170 S 5/2014 Diehl et al.
 D705,978 S 5/2014 Rhodes
 8,724,046 B2 5/2014 Que
 D706,145 S * 6/2014 Pavlak D10/50
 D711,359 S 8/2014 Marzynski et al.
 D714,753 S 10/2014 Lee et al.
 D716,748 S 11/2014 Wang
 D718,762 S 12/2014 Aarrestad
 D719,153 S * 12/2014 Lim D14/356
 D719,939 S 12/2014 Liang et al.
 D720,304 S 12/2014 Haug et al.
 D723,560 S * 3/2015 Zhou D14/420
 D724,777 S 3/2015 Curran-Blaney et al.
 D725,049 S * 3/2015 Paredes D13/168
 D725,591 S * 3/2015 Chien D13/103
 D725,612 S 3/2015 Schlegel
 D727,558 S 4/2015 Tang et al.
 9,007,186 B1 4/2015 Krummey et al.
 D728,577 S 5/2015 Amit et al.
 D729,163 S 5/2015 Meyer
 D729,216 S 5/2015 Peng et al.
 9,022,627 B2 * 5/2015 Lessard F21S 48/1208
 362/549
 D736,434 S 8/2015 Kuei-Lai
 D737,274 S 8/2015 Kuo et al.
 9,115,866 B2 8/2015 Hu et al.
 D737,713 S 9/2015 Deyaf
 D739,422 S * 9/2015 Jeong D14/486
 9,133,996 B2 9/2015 Thibodeau
 D740,692 S 10/2015 Christie et al.
 D742,770 S * 11/2015 Windstrup D10/104.1
 D743,359 S 11/2015 Tatem et al.
 D745,479 S * 12/2015 McManigal D14/125
 D745,720 S 12/2015 Chang
 D747,228 S 1/2016 Fiedler et al.
 D748,830 S 2/2016 Gerardo
 D749,570 S 2/2016 Lee

D751,229 S * 3/2016 Howard D26/113
 D751,236 S 3/2016 Renshaw et al.
 D753,644 S * 4/2016 Hsieh D14/314
 D753,661 S * 4/2016 Daniel D14/433
 D754,319 S * 4/2016 Park D23/385
 D755,127 S * 5/2016 Wong D13/137.2
 D755,792 S * 5/2016 Lessel D14/435
 D756,303 S * 5/2016 Kellenberger D13/137.1
 D756,953 S * 5/2016 Zhang D14/162
 D756,990 S * 5/2016 Akana D14/314
 D758,306 S * 6/2016 Colle D13/108
 D762,008 S * 7/2016 Pristatskiy D28/54.1
 D762,506 S * 8/2016 Windstrup D10/104.1
 D764,460 S * 8/2016 Veja D14/358
 D771,039 S * 11/2016 Windstrup D14/356
 D772,221 S * 11/2016 Kacin D14/308
 D773,706 S * 12/2016 Ookawa D26/51
 D776,352 S * 1/2017 Gagnon D28/54.1
 D777,593 S * 1/2017 Bolger D10/106.1
 D777,820 S * 1/2017 Zhang D16/218
 D778,184 S * 2/2017 Kikstra D10/106.6
 D780,729 S * 3/2017 Shin D14/242
 D780,995 S * 3/2017 Ayre D28/54.1
 D780,996 S * 3/2017 Ayre D28/54.1
 D782,429 S * 3/2017 Xianda D14/125
 D783,534 S * 4/2017 Visel D13/133
 D783,542 S * 4/2017 Marsden D13/156
 D785,218 S * 4/2017 Fletcher D26/63
 9,611,978 B2 * 4/2017 Manniche F16M 13/022
 D785,608 S * 5/2017 Weaver D14/240
 D786,415 S * 5/2017 Kim D23/359
 D786,791 S * 5/2017 Jeong D13/108
 D787,036 S * 5/2017 Kim D23/359
 D787,110 S * 5/2017 Hood D26/119
 D787,357 S * 5/2017 Akana D10/104.1
 2003/0081377 A1 5/2003 Lin
 2006/0050509 A9 3/2006 Dowling et al.
 2006/0109661 A1 5/2006 Coushaine et al.
 2009/0176391 A1 7/2009 Brock et al.
 2009/0195349 A1 8/2009 Frader-Thompson et al.
 2009/0260963 A1 10/2009 Eto
 2009/0321241 A1 12/2009 Zhen
 2010/0116629 A1 5/2010 Borissov et al.
 2011/0031819 A1 2/2011 Gunwall
 2011/0098867 A1 4/2011 Jonsson et al.
 2012/0060044 A1 * 3/2012 Jonsson G01D 4/002
 713/340
 2015/0345699 A1 * 12/2015 Manniche F16M 13/022
 29/428
 2015/0351266 A1 * 12/2015 Micko H05K 5/0217
 361/809
 2016/0161096 A1 * 6/2016 Boulanger F21V 21/02
 362/368
 2016/0281966 A1 * 9/2016 Meyer H01R 13/405
 2016/0290600 A1 * 10/2016 Biederman F21V 9/08
 2017/0112010 A1 * 4/2017 Alexander H05K 5/0286
 2017/0122534 A1 * 5/2017 Ticktin F21V 21/22
 2017/0122539 A1 * 5/2017 Dai F21V 23/0442
 2017/0139108 A1 * 5/2017 Boomgaarden G02B 6/0041

OTHER PUBLICATIONS

HomePlug Powerline Network Bridge, image post date Jul. 20, 2014, site visited Mar. 10, 2016, (online), <<http://www.amazon.com/Netgear-XE102US-HomePlug-Powerline-Network/dp/B002ZL06XS>>.*
 Network Bridge Interface Module, image post date 1996, site visited Mar. 10, 2016, (online), <<http://www.marinco.com/en/80-911-0057-00>>.*
 Cloud-based platform third-party devices, image post date Oct. 10, 2013, site visited Mar. 10, 2016, (online), <<http://www.greentechmedia.com/articles/read/greenwave-lands-19m-for-the-home-energy-cloud>>.*
 Waterproof Wireless Long Range Network Bridge Access Point WiFi Transmitter Receiver, image post date Jan. 13, 2015, site visited Mar. 10, 2016, (online), <<http://0086cctv.en.made-in-china>>.*

(56)

References Cited

OTHER PUBLICATIONS

com/product/joKnCfEdnTDb/China-Outdoor-5-10-Kilometer-Waterproof-Wireless-Long-Range-Network-Bridge-Access-Point-WiFi-Transmitter-Receiver.html>.*

Aeon Labs, Aeotec DSC24xxx-ZWUS Smart Switch 7-Wave Appliance Module Manual, Jan. 27, 2013, Retrieved from <http://www.smarthome.com/manuals/75514-ins.pdf> on Jun. 27, 2014.

D-Link Wi-Fi Smart Plug and Wi-Fi Motion Sensor, image post date Aug. 6, 2014, site visited May 7, 2015, (online), <<http://www.gadgetreview.com/2014/08/d-l-in-k-wi-fi-smart-plug-and-wi-fi-motion-sensor-review>>.

European Union Office for Harmonization in the Internal Market (OHIM), Registered Community Design No. 002473421-0005, May 29, 2014.

European Union Office for Harmonization in the Internal Market (OHIM), Registered Community Design No. 002473421-0001, May 29, 2014.

European Union Office for Harmonization in the Internal Market (OHIM), Registered Community Design No. 002473421-0002, May 29, 2014.

European Union Office for Harmonization in the Internal Market (OHIM), Registered Community Design No. 002473421-0003, May 29, 2014.

European Union Office for Harmonization in the Internal Market (OHIM), Registered Community Design No. 002473421-0004, May 29, 2014.

European Union Office for Harmonization in the Internal Market (OHIM), Registered Community Design No. 002473421-0006, May 29, 2014.

EZ-Bridge-Ultra5, image post date Feb. 2, 2011, site visited Mar. 10, 2016, (online), <<http://web.archive.org/web/20110202091936/http://ez-bridge.com>>.

Heath/Zenith, Heath/Zenith Remote Control Products Operating Instructions, Apr. 19, 2006, Retrieved from <http://www.smarthome.com/manuals/25066.pdf> on Jun. 17, 2014.

HomeLink Broadband Network Bridge, image post date Aug. 8, 2000, site visited Mar. 10, 2016, (online), <<http://www.amazon.com/Cisco-Linksys-HomeLink-Broadband-Network-Bridge/dp/B00004SBA5>>.

HomePlug Powerline Network Bridge, image post date Jul. 20, 2014, site visited Mar. 10, 2016, (online), <<http://www.amazon.com/Netgear-XE102US-HomePlug-Powerline-Network/dp/B002ZLO6XS>>.

Ingersol Rand, Schlage Nexia RP200RNX Z-Wave Wireless Plug-in Dimmer Module User Guide, 2011, Retrieved from <http://www.smarthome.com/manuals/51215.pdf> on Jun. 27, 2014.

Insteon, Insteon Hub Owner's Manual, Sep. 27, 2013, retrieved from <http://www.smarthome.com/manuals/2242-x22.pdf> on Jun. 27, 2014.

Insteon, Insteon Outdoor Wireless IP Camera Owners Manual, Aug. 27, 2012, retrieved from <http://www.smarthome.com/manuals/75791.pdf> on Jun. 27, 2014.

Motion Sensor Light Switches, image post date Aug. 14, 2014, site visited May 7, 2015, (online), <<http://web.archive.org/web/20140814060133/http://www.p-wholesale.com/e-store/M/M-pp.html>>.

MR.BEAMS, Installation Instructions for Wireless Motion Sensor LED Spotlight MB330/360, Sep. 24, 2013, Retrieved from <http://www.mrbeams.com/uploads/MB330-MB360%20Spotlight.pdf> on Jun. 27, 2014.

Netgear, Inc., Powerline 500 WIFI Access Point—XWNB5201 Data Sheet, Oct. 17, 2012, retrieved from http://www.downloads.netgear.com/files/GDC/XWNB5201/XWNB5201_PA_DS_17Oct12.pdf on Jun. 27, 2014.

Smarthome, Product page for Belkin F7D7602 NetCam HD Wi-Fi Camera with Night Vision, Jan. 24, 2013, retrieved from <http://www.smarthome.com/44120/Belkin-F7D7602-NetCam-/HD-Wi-Fi-Camera-with-Night-Vision/p.aspx> on May 27, 2014.

Vera Control, LTD, Micasaverde Quick-Start Guide, Jan. 23, 2012, retrieved from <http://www.smarthome.com/manuals/13705-ins.pdf> on Jun. 27, 2014.

W z-wave motion sensor, image post date Oct. 17, 2013, site visited May 7, 2015, (online), <<https://www.tineye.com/search/9a4193be7351ch1d55a4dcfeffb89e397e0c5dbd/?pluginver=>>>.

Waterproof Wireless Long Range Network Bridge Access Point WiFi Transmitter Receiver, image post date Jan. 13, 2015, site visited Mar. 10, 2016, (online), <<http://0086cctv.en.made-in-china.com/product/joKaEdnTDb/China-Outdoor-5-10-Kilometer-Waterproof-Wireless-Long-Range-Network-Bridge-Access-Point-WiFi-Transmitter-Receiver.html>>.

* cited by examiner

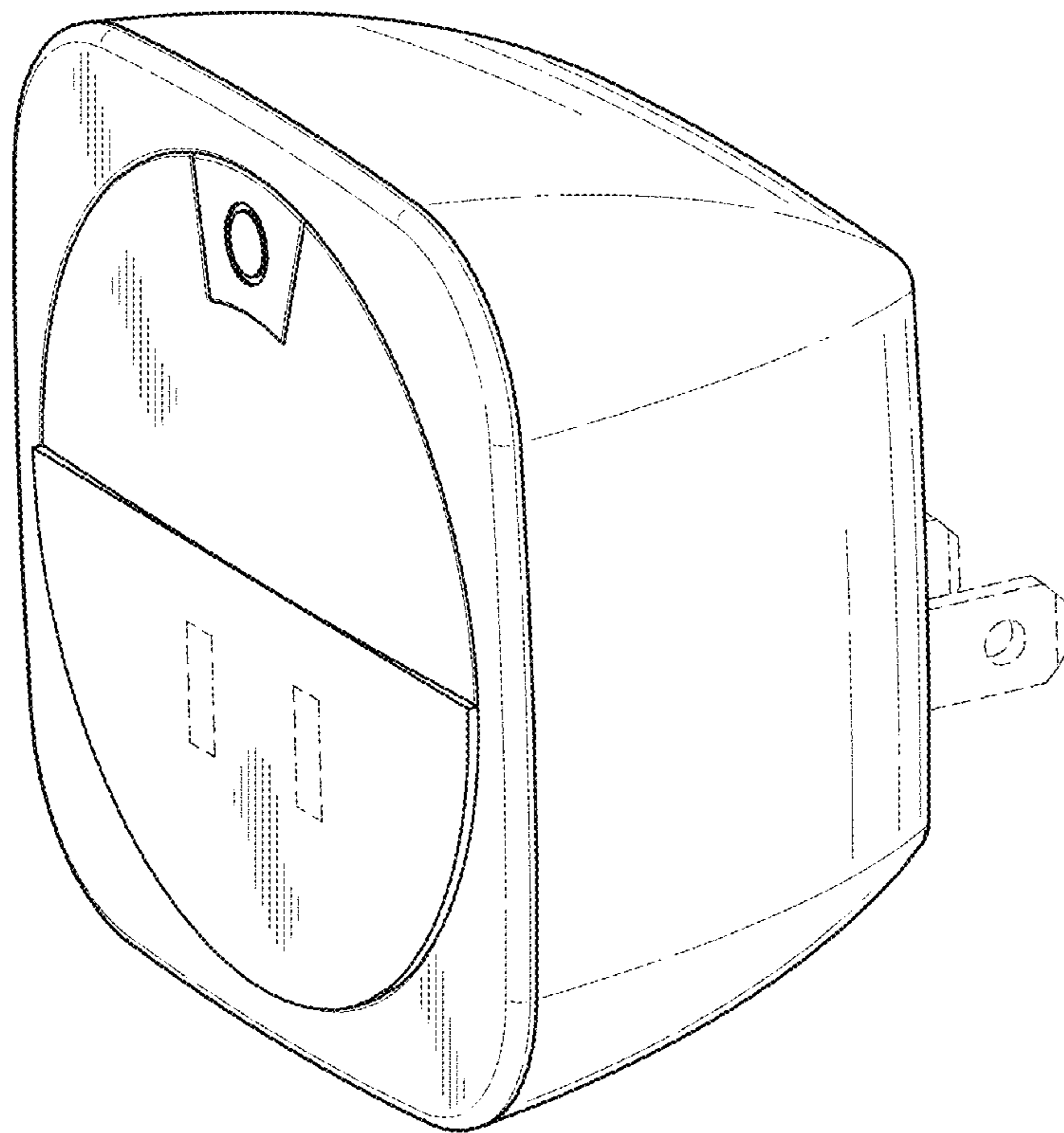


FIG. 1

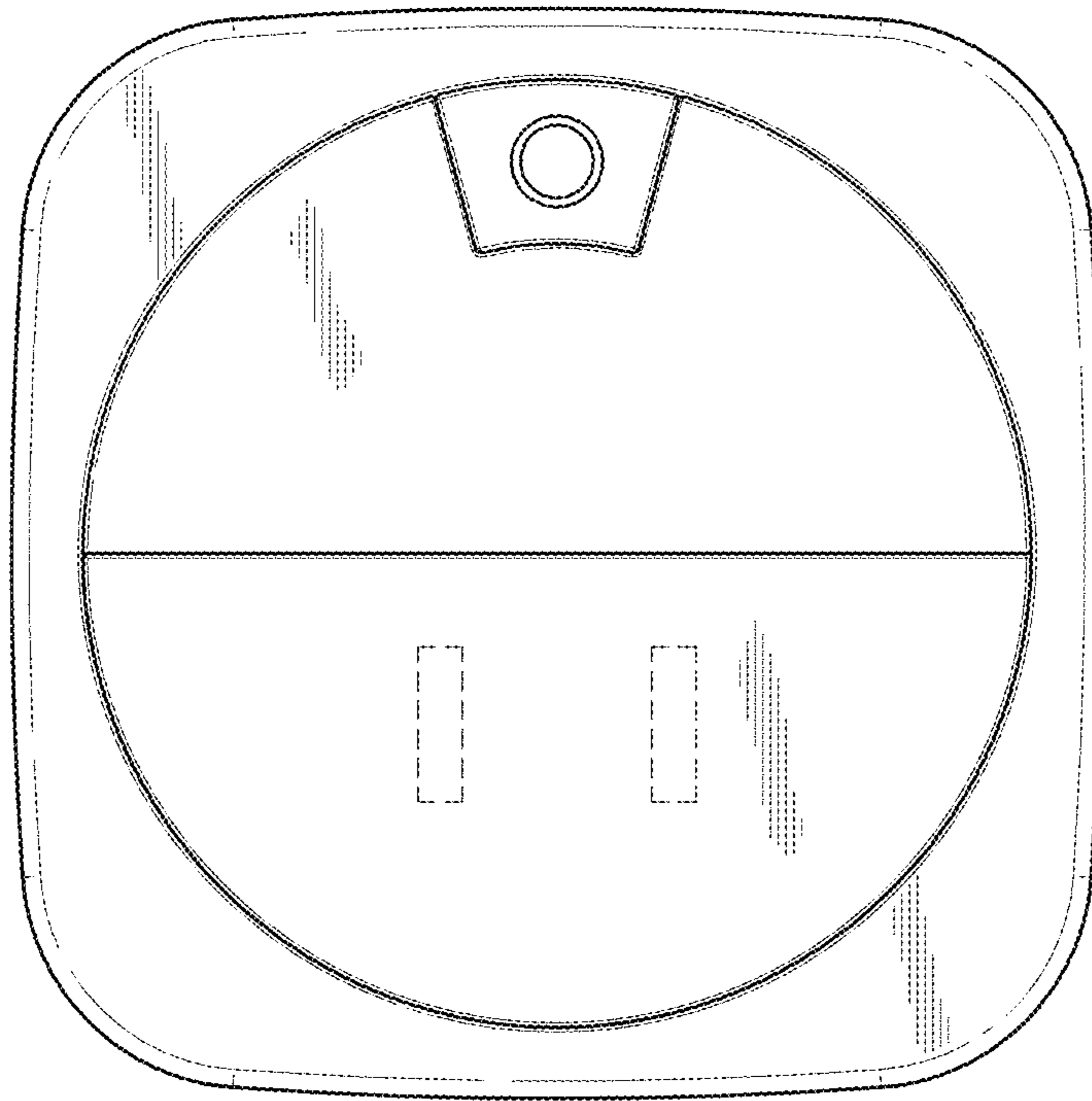


FIG. 2

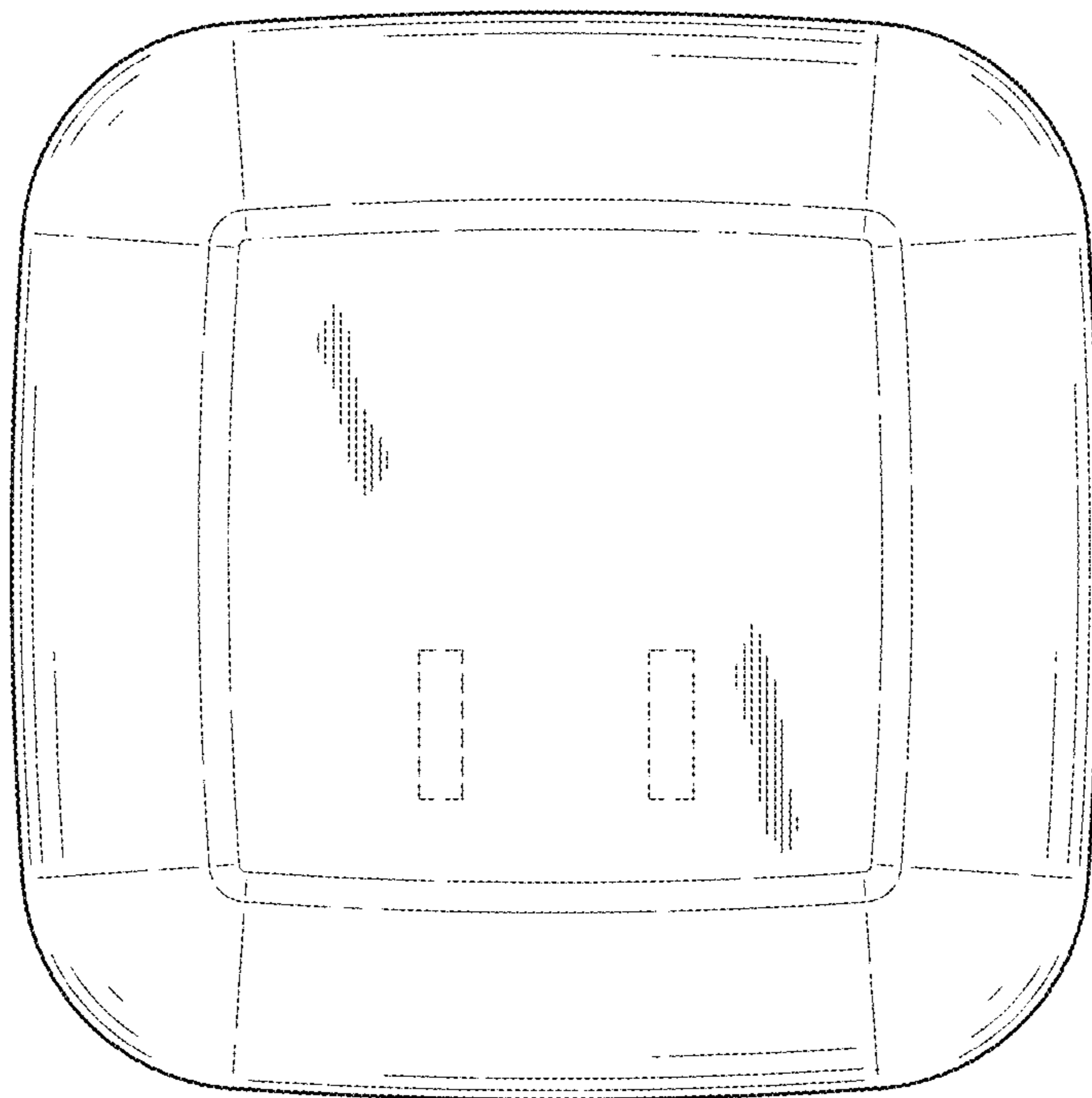


FIG. 3

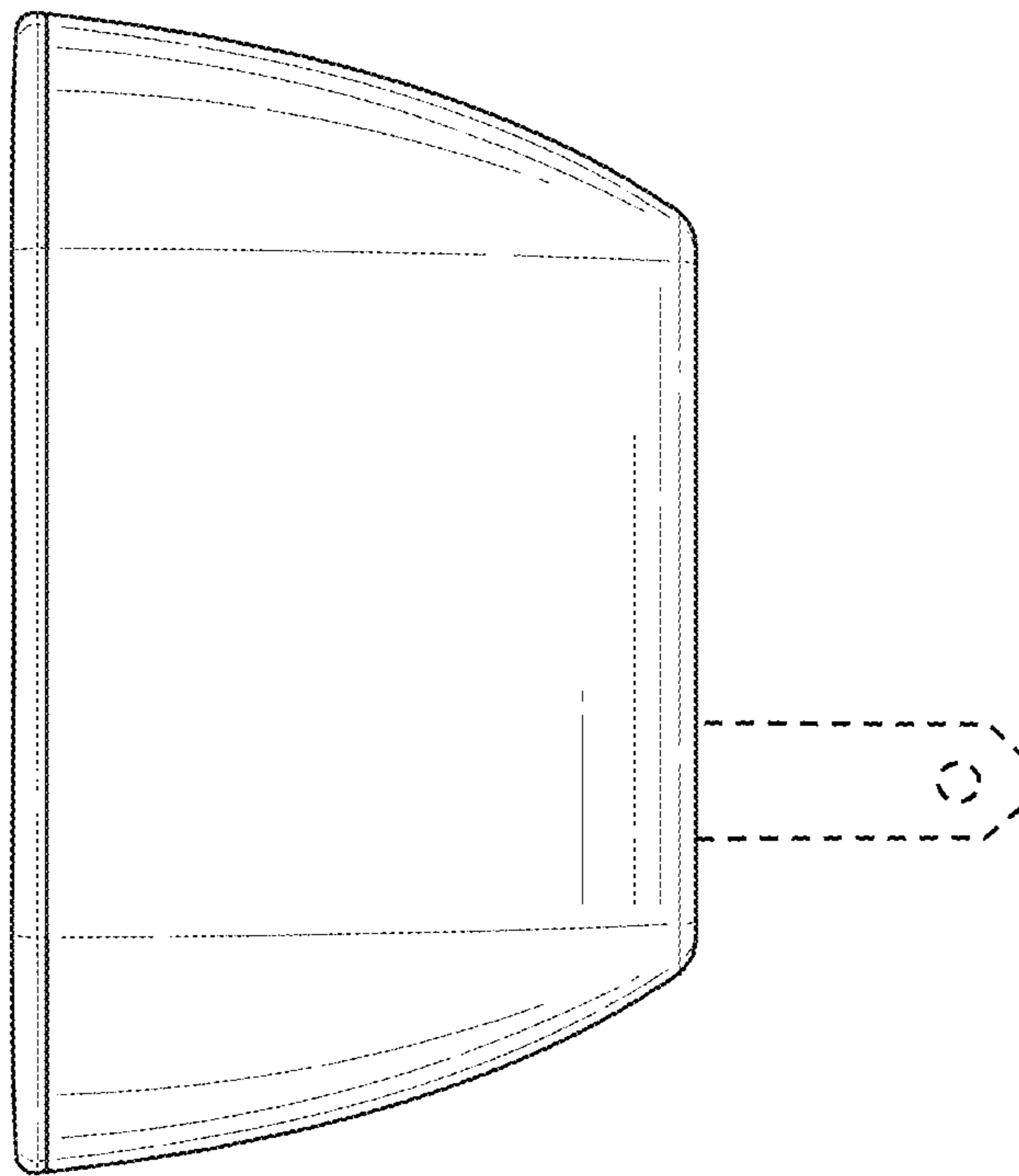


FIG. 4

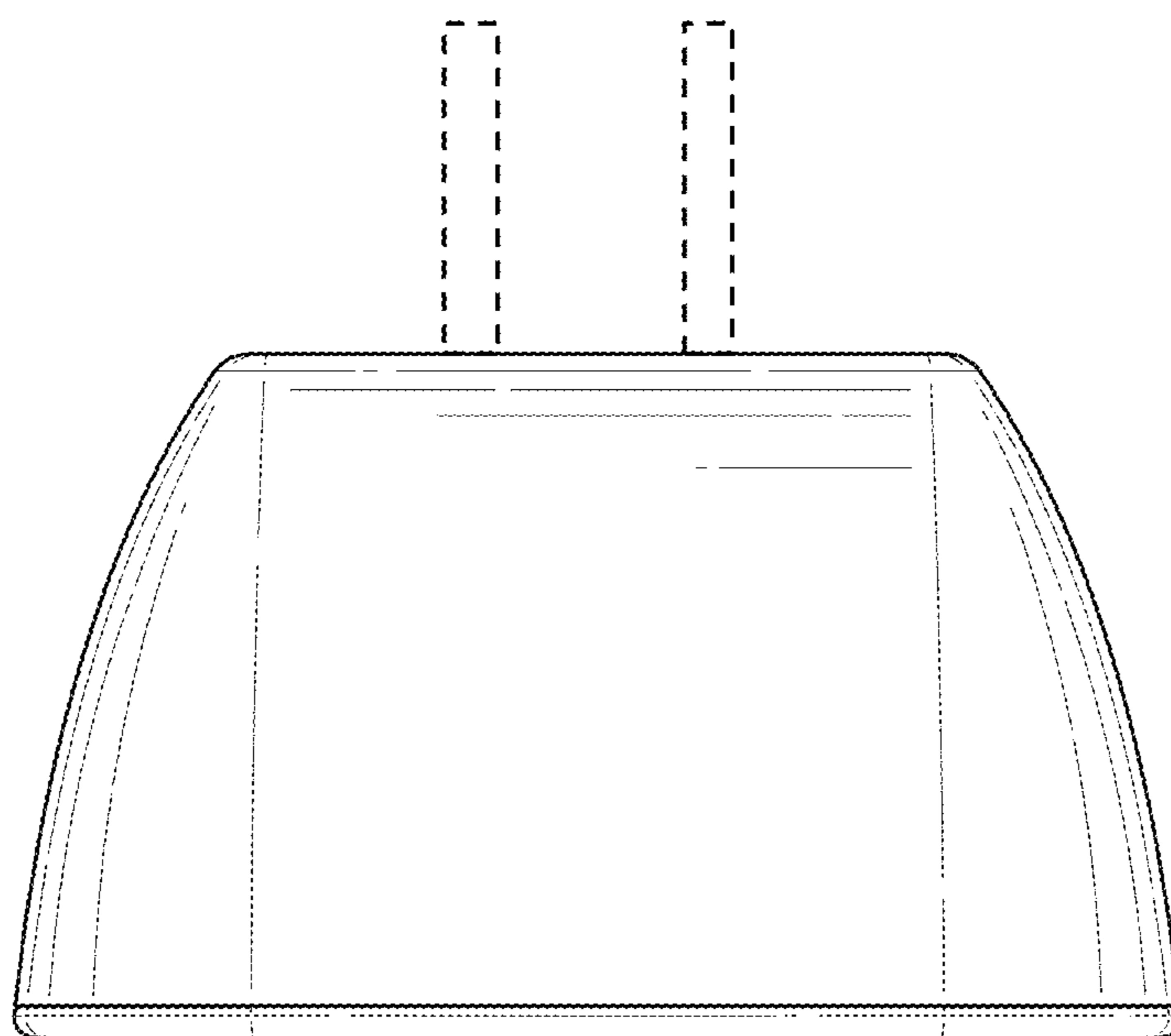


FIG. 5

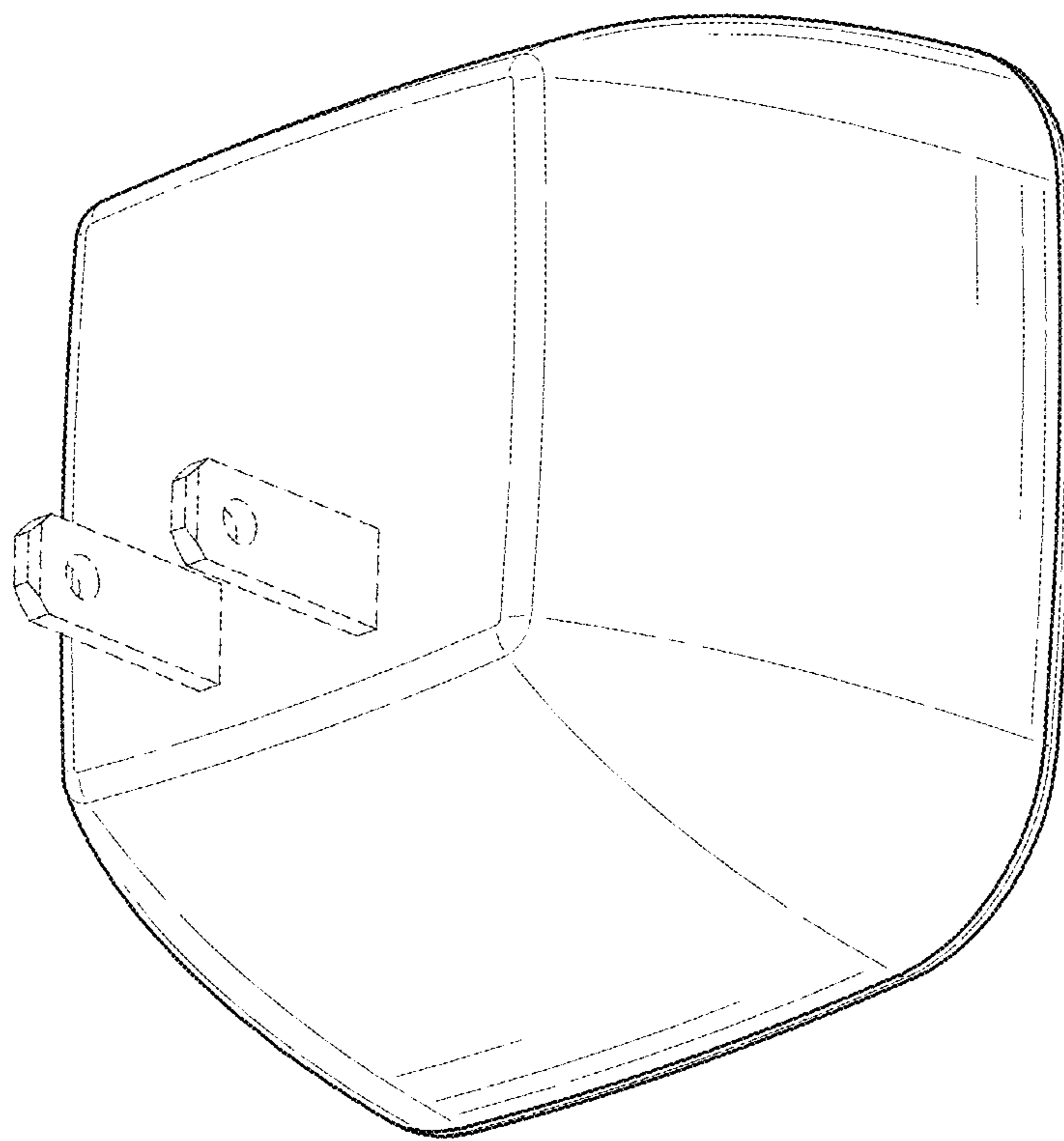


FIG. 6