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(12) **United States Design Patent** (10) **Patent No.:** **US D951,204 S**
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(54) **CONNECTOR**

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(**) Term: **15 Years**

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Related U.S. Application Data

(63) Continuation of application No. 29/688,476, filed on Apr. 22, 2019, now Pat. No. Des. 928,716, which is (Continued)

(51) **LOC (13) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/147**

(58) **Field of Classification Search**

USPC D13/146, 147, 133, 154, 184, 199;
D14/432, 433

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D304,028 S 10/1989 Matsuzaki
D369,157 S 4/1996 Ohmori et al.

(Continued)

FOREIGN PATENT DOCUMENTS

AU 346798 S 2/2013
CL 3451-12 7/2013

(Continued)

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(57) **CLAIM**

The ornamental design for a connector, as shown and described.

DESCRIPTION

FIG. 1 is a top front perspective view of a connector showing the claimed design;

FIG. 2 is a bottom rear perspective view thereof;

FIG. 3 is a top view thereof;

FIG. 4 is a bottom view thereof;

FIG. 5 is a side view thereof;

FIG. 6 is another side view thereof;

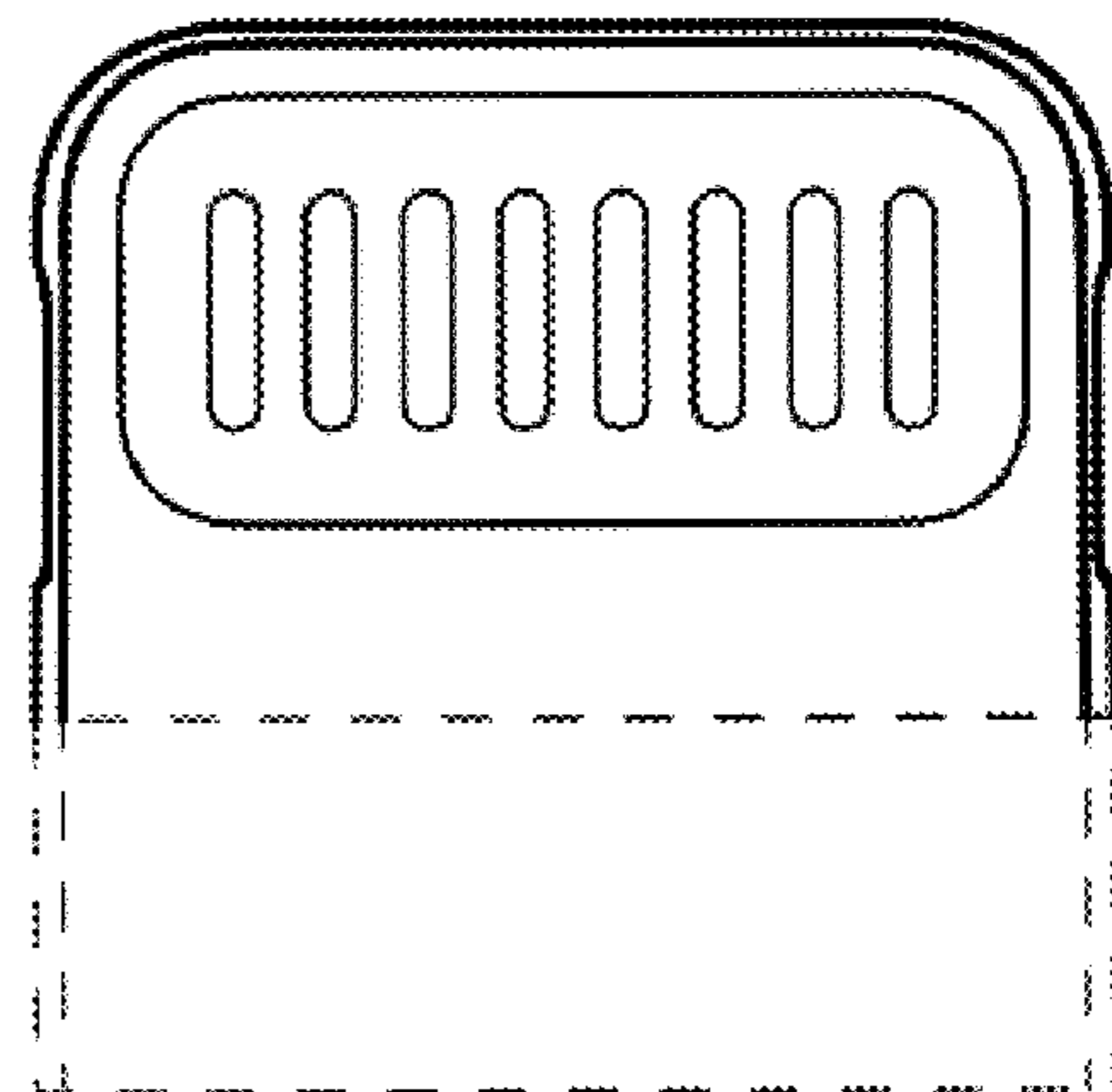
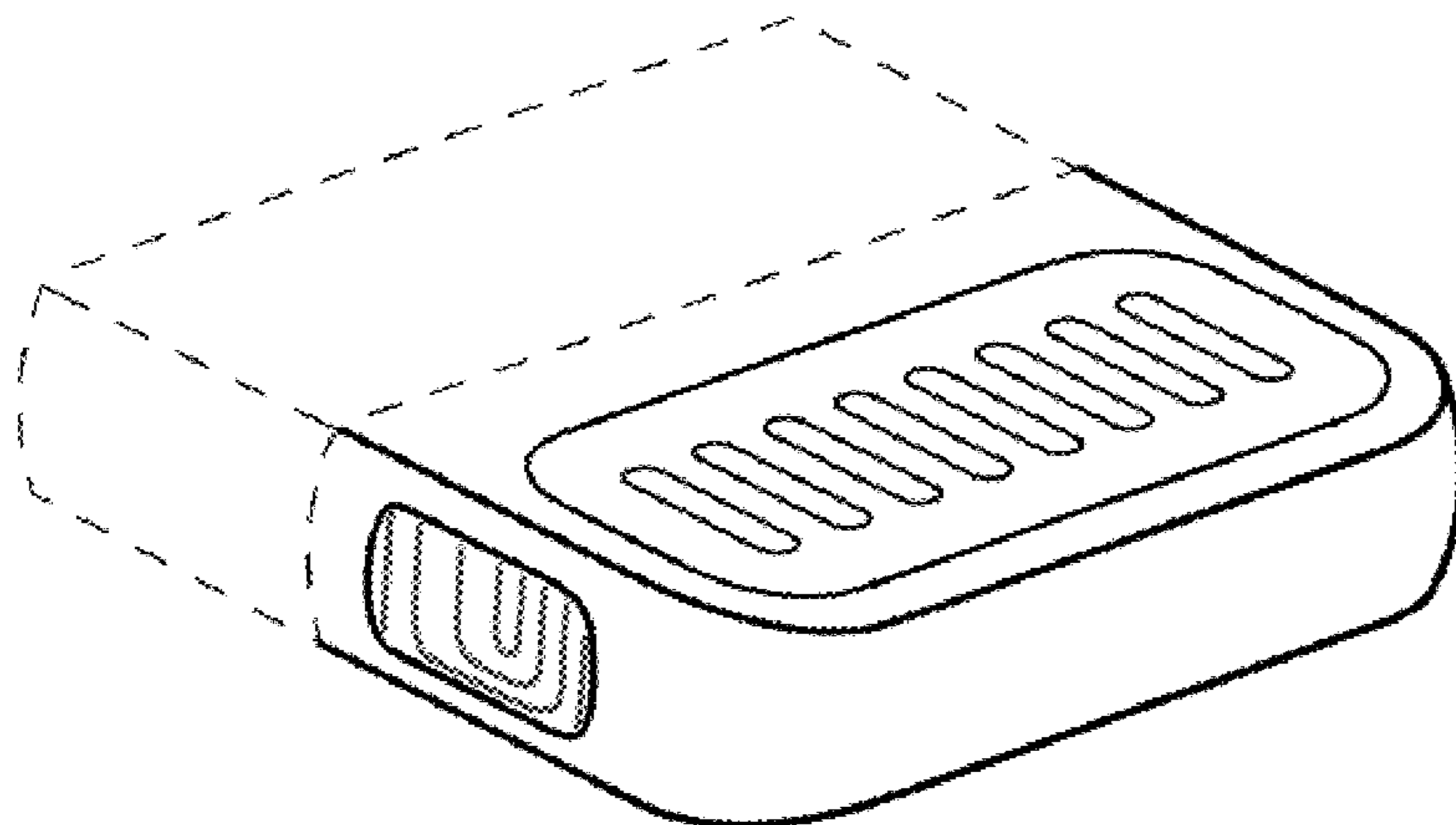
FIG. 7 is a front view thereof; and,

FIG. 8 is a rear view thereof.

The broken lines in the figures show portions of the connector that form no part of the claimed design.

The shade lines in the figures show contour and not surface ornamentation.

1 Claim, 1 Drawing Sheet



Related U.S. Application Data

a continuation of application No. 29/641,690, filed on Mar. 23, 2018, now Pat. No. Des. 846,502, which is a continuation of application No. 29/563,898, filed on May 9, 2016, now Pat. No. Des. 813,820, which is a continuation of application No. 29/502,958, filed on Sep. 22, 2014, now Pat. No. Des. 755,724, which is a continuation of application No. 29/485,445, filed on Mar. 19, 2014, now Pat. No. Des. 713,796, which is a continuation of application No. 29/455,174, filed on May 17, 2013, now Pat. No. Des. 705,176, which is a continuation of application No. 29/426,587, filed on Jul. 6, 2012, now Pat. No. Des. 684,539.

(58) **Field of Classification Search**

CPC ... H01R 4/02; H01R 4/24; H01R 4/26; H01R 13/02; H01R 13/03; H01R 13/04; H01R 13/05; H01R 13/055; H01R 13/40; H01R 13/42; H01R 13/428; H01R 13/432; H01R 13/5845; H01R 13/62; H01R 13/627; H01R 13/6271; H01R 13/6272; H01R 13/6278; H01R 13/658; H01R 13/6581; H01R 13/6585; H01R 24/20; H01R 24/28; H01R 24/58; H01R 24/60; H01R 24/62; H01R 24/66; H01R 2201/16; H01R 29/00

See application file for complete search history.

(56)

References Cited

U.S. PATENT DOCUMENTS

D399,047 S 10/1998 Yoshida et al.
 6,137,710 A 10/2000 Iwasaki et al.
 D452,245 S 12/2001 Wallace et al.
 D452,246 S 12/2001 Wallace et al.
 6,483,038 B2 11/2002 Lee et al.
 D487,747 S 3/2004 Yu et al.
 D525,977 S 8/2006 Yao
 7,094,089 B2 8/2006 Andre et al.
 D543,156 S 5/2007 Suckle
 D552,099 S 10/2007 Nishizawa et al.
 D558,145 S 12/2007 Stavoe et al.
 D563,899 S 3/2008 Goetz et al.
 7,354,312 B2 4/2008 Chuang
 D586,293 S 2/2009 Fujino
 D588,545 S 3/2009 Andre et al.
 D594,418 S 6/2009 Fujino et al.
 D607,886 S 1/2010 Bolotin et al.
 D612,809 S 3/2010 Zhao et al.
 D621,785 S 8/2010 Nickol
 D636,337 S 4/2011 Smith et al.
 D637,193 S 5/2011 Andre et al.
 D643,040 S 8/2011 Sedio et al.
 D655,296 S 3/2012 Andre et al.
 D656,147 S 3/2012 Schlossstein
 D658,665 S 5/2012 Akana et al.
 D659,150 S 5/2012 Andre
 D659,754 S 5/2012 Rossiter et al.
 D665,754 S 8/2012 Cobbett et al.
 D683,703 S 6/2013 Akana et al.
 D684,538 S 6/2013 Akana et al.
 D684,539 S 6/2013 Akana et al.
 D684,976 S 6/2013 Akana et al.
 8,454,388 B2 6/2013 Song
 8,535,102 B1 9/2013 Colahan et al.
 8,561,879 B2 10/2013 Jol et al.
 D693,828 S 11/2013 Akana et al.
 D694,243 S 11/2013 Akana et al.
 8,637,165 B2 1/2014 Siahaan et al.
 D699,188 S 2/2014 Akana et al.
 8,683,090 B2 3/2014 Mullins et al.
 D703,145 S 4/2014 Akana et al.
 8,708,745 B2 4/2014 Golko et al.

D705,174 S 5/2014 Wong
 D705,175 S 5/2014 Chu
 D705,176 S 5/2014 Akana et al.
 8,721,356 B2 5/2014 Webb et al.
 8,724,281 B2 5/2014 Mullins et al.
 D707,680 S 6/2014 Akana et al.
 D707,681 S 6/2014 Akana et al.
 8,747,155 B2 6/2014 Weber et al.
 8,762,605 B2 6/2014 Terlizzi et al.
 D709,032 S 7/2014 Akana et al.
 8,777,666 B2 7/2014 Golko et al.
 8,799,527 B2 8/2014 Mullins et al.
 8,804,355 B2 8/2014 Uttermann et al.
 D712,279 S 9/2014 Akana et al.
 D713,350 S 9/2014 Akana et al.
 D713,351 S 9/2014 Akana et al.
 D713,352 S 9/2014 Akana et al.
 D713,353 S 9/2014 Akana et al.
 D713,354 S 9/2014 Akana et al.
 D713,795 S 9/2014 Yang
 D713,796 S 9/2014 Akana et al.
 8,845,363 B2 9/2014 Ii et al.
 D716,234 S 10/2014 Tien
 D716,235 S 10/2014 Tien
 D716,351 S 10/2014 Kitamura et al.
 8,882,529 B2 11/2014 Weber et al.
 8,886,849 B2 11/2014 Golembeski et al.
 8,888,510 B2 11/2014 Webb
 8,891,216 B2 11/2014 Mullins et al.
 8,898,348 B2 11/2014 Minoo et al.
 8,905,793 B2 12/2014 Golko et al.
 8,926,337 B2 1/2015 Siahaan et al.
 8,974,126 B2 3/2015 Sloey et al.
 8,984,188 B2 3/2015 Jol et al.
 8,986,029 B2 3/2015 Webb et al.
 9,004,960 B2 4/2015 Weber et al.
 9,011,161 B2 4/2015 Weber et al.
 9,011,172 B2 4/2015 Weber et al.
 9,011,179 B2 4/2015 Siahaan et al.
 9,021,159 B2 4/2015 Fritchman et al.
 D731,434 S 6/2015 Akana et al.
 D732,035 S 6/2015 Akana et al.
 9,054,478 B2 6/2015 Golko et al.
 9,059,531 B2 6/2015 Schmidt et al.
 9,065,212 B2 6/2015 Golko et al.
 D733,658 S 7/2015 Yang et al.
 9,092,233 B2 7/2015 Andrews et al.
 9,093,803 B2 7/2015 Soohoo et al.
 9,099,856 B2 8/2015 Uttermann et al.
 9,112,327 B2 8/2015 Sarwar et al.
 9,146,888 B2 9/2015 Terlizzi et al.
 D742,320 S 11/2015 Akana et al.
 D745,464 S 12/2015 Koenig
 9,240,700 B2 1/2016 Terlizzi et al.
 D748,581 S 2/2016 Chen
 D751,560 S 3/2016 Akana et al.
 D755,724 S 5/2016 Akana et al.
 D758,497 S 6/2016 Uhren et al.
 D760,657 S 7/2016 Hung
 D765,601 S 9/2016 Palmer
 9,495,307 B2 11/2016 Zadesky et al.
 9,640,885 B2 5/2017 Amini et al.
 9,673,784 B2 6/2017 Menzel et al.
 9,825,410 B2 11/2017 Scritzky et al.
 9,843,142 B2 12/2017 Hack et al.
 9,882,323 B2 1/2018 Tziviskos et al.
 D809,463 S 2/2018 Koenig
 D813,819 S 3/2018 Esses
 D813,820 S 3/2018 Akana et al.
 D815,598 S 4/2018 Koenig
 9,992,863 B2 6/2018 Amini et al.
 D824,388 S 7/2018 Fawcett et al.
 D826,171 S 8/2018 Wang et al.
 10,116,105 B2 10/2018 Wu et al.
 D832,793 S 11/2018 Vandiver
 D841,595 S 2/2019 Akana et al.
 10,199,784 B2 2/2019 Soohoo et al.
 10,236,683 B2 3/2019 Bacon et al.
 D846,502 S 4/2019 Akana et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

D864,963 S 10/2019 Luo
 D877,082 S 3/2020 Wu
 D877,083 S 3/2020 Wu
 10,651,614 B1 5/2020 Sun et al.
 D896,762 S 9/2020 Hu et al.
 D906,979 S 1/2021 Chen
 D928,716 S 8/2021 Akana et al.
 11,095,119 B2* 8/2021 Bacon H01R 24/60
 2002/0170972 A1 11/2002 Kim
 2003/0225954 A1 12/2003 Wu
 2005/0003153 A1 1/2005 Shiraishi
 2005/0124219 A1 6/2005 Chen et al.
 2005/0202727 A1 9/2005 Andre et al.
 2010/0151734 A1 6/2010 Wu et al.
 2011/0199729 A1 8/2011 Hsieh
 2012/0252256 A1 10/2012 Zhu et al.
 2013/0084760 A1 4/2013 Siahaan et al.
 2013/0115817 A1 5/2013 Terlizzi et al.
 2013/0175326 A1 7/2013 Jol et al.
 2013/0210261 A1 8/2013 Weber et al.
 2013/0238823 A1 9/2013 Terlizzi et al.
 2013/0244472 A1 9/2013 Weber et al.
 2013/0244489 A1 9/2013 Terlizzi et al.
 2013/0244491 A1 9/2013 Sarwar et al.
 2013/0244492 A1 9/2013 Golko et al.
 2013/0279055 A1 10/2013 Mullins et al.
 2013/0286522 A1 10/2013 Mullins et al.
 2013/0304942 A1 11/2013 Golembeski et al.
 2013/0305066 A1 11/2013 Mullins et al.
 2014/0013012 A1 1/2014 Terlizzi et al.
 2014/0057479 A1 2/2014 Weber et al.
 2014/0068933 A1 3/2014 Brickner et al.
 2014/0069709 A1 3/2014 Schmidt et al.
 2014/0069710 A1 3/2014 Webb et al.
 2014/0069714 A1 3/2014 Uttermann et al.
 2014/0070774 A1 3/2014 Terlizzi et al.
 2014/0073170 A1 3/2014 Golko et al.
 2014/0073178 A1 3/2014 Webb et al.
 2014/0073182 A1 3/2014 Li et al.
 2014/0073183 A1 3/2014 Golko et al.
 2014/0073185 A1 3/2014 Siahaan et al.
 2014/0073186 A1 3/2014 Webb
 2014/0073191 A1 3/2014 Colahan et al.
 2014/0073193 A1 3/2014 Soohoo et al.
 2014/0073201 A1 3/2014 Weber et al.
 2014/0073206 A1 3/2014 Golko et al.
 2014/0075051 A1 3/2014 Zadesky et al.
 2014/0075061 A1 3/2014 Fritchman et al.
 2014/0075067 A1 3/2014 Mullins et al.
 2014/0075169 A1 3/2014 Andrews et al.
 2014/0075210 A1 3/2014 Rich et al.
 2014/0273607 A1 9/2014 Orand et al.
 2014/0294656 A1 10/2014 Brickner et al.

2014/0329412 A1 11/2014 Chen
 2015/0008031 A1 1/2015 Uttermann et al.
 2015/0072557 A1 3/2015 Kamei et al.
 2015/0072565 A1 3/2015 Golko et al.
 2015/0126069 A1 5/2015 Little et al.
 2015/0311622 A1 10/2015 Kuo
 2015/0340782 A1 11/2015 Amini et al.
 2015/0340783 A1 11/2015 Lee et al.
 2016/0049753 A1 2/2016 Soohoo et al.
 2016/0118755 A1 4/2016 Chen et al.
 2016/0149353 A1 5/2016 Chen et al.
 2016/0218459 A1 7/2016 Hung
 2016/0276781 A1 9/2016 Hsu
 2016/0336698 A1 11/2016 Chang
 2017/0033514 A1 2/2017 Wang
 2017/0302021 A9 10/2017 Amini et al.
 2017/0324200 A1 11/2017 Gorin et al.
 2018/0069343 A1 3/2018 Kasar et al.
 2018/0233845 A1 8/2018 Chen et al.
 2019/0148864 A1 5/2019 Zhao
 2019/0393705 A1 12/2019 Lieblein
 2020/0235535 A1 7/2020 Tsai et al.

FOREIGN PATENT DOCUMENTS

CN 3318934 D 9/2003
 CN 3548996 8/2006
 CN 300769712 D 4/2008
 CN 300815849 D 8/2008
 CN 301033912 D 10/2009
 CN D131168 S 10/2009
 CN 301375454 S 11/2010
 CN 301545702 S 5/2011
 CN 301853485 S 3/2012
 CN 301877461 S 4/2012
 CN 301890363 S 4/2012
 CN 301901718 S 5/2012
 CN 203103611 U 7/2013
 CN 203225414 U 10/2013
 CN 102269849 B 9/2014
 EM 000623848-0001 2/2007
 EM 001222905-0018 10/2010
 JP D1154087 9/2002
 WO WO-2006074348 A1 7/2006
 WO WO-2011150403 A1 12/2011
 WO WO-2011160138 A2 12/2011
 WO WO-2011163256 A1 12/2011
 WO WO-2011163260 A1 12/2011
 WO WO-2012103383 A2 8/2012
 WO WO-2013081704 A1 6/2013
 WO WO-2014039110 A1 3/2014
 WO WO-2014040224 A1 3/2014
 WO WO-2014040231 A1 3/2014
 WO WO-2014042860 A1 3/2014

* cited by examiner

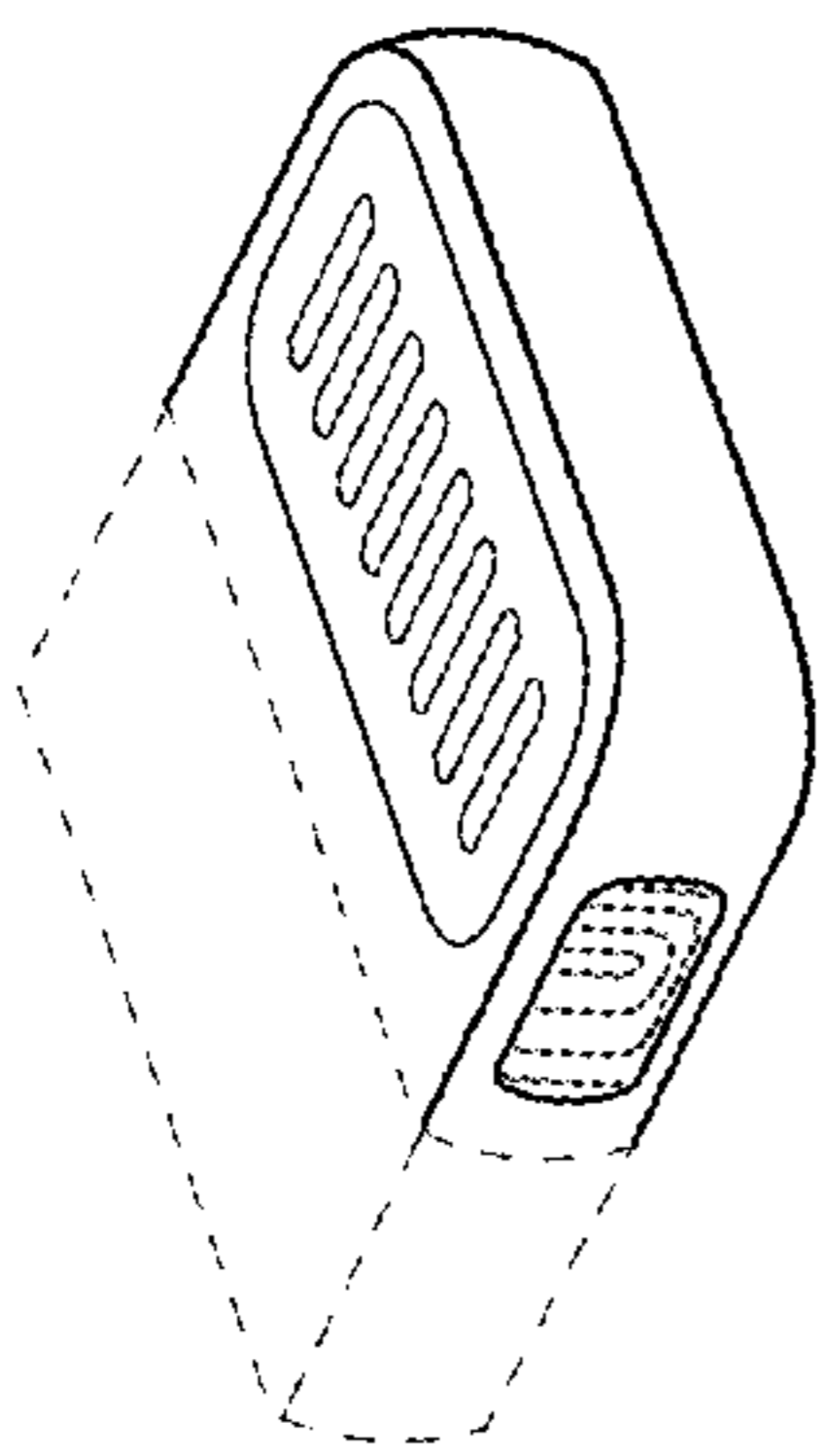


FIG. 1

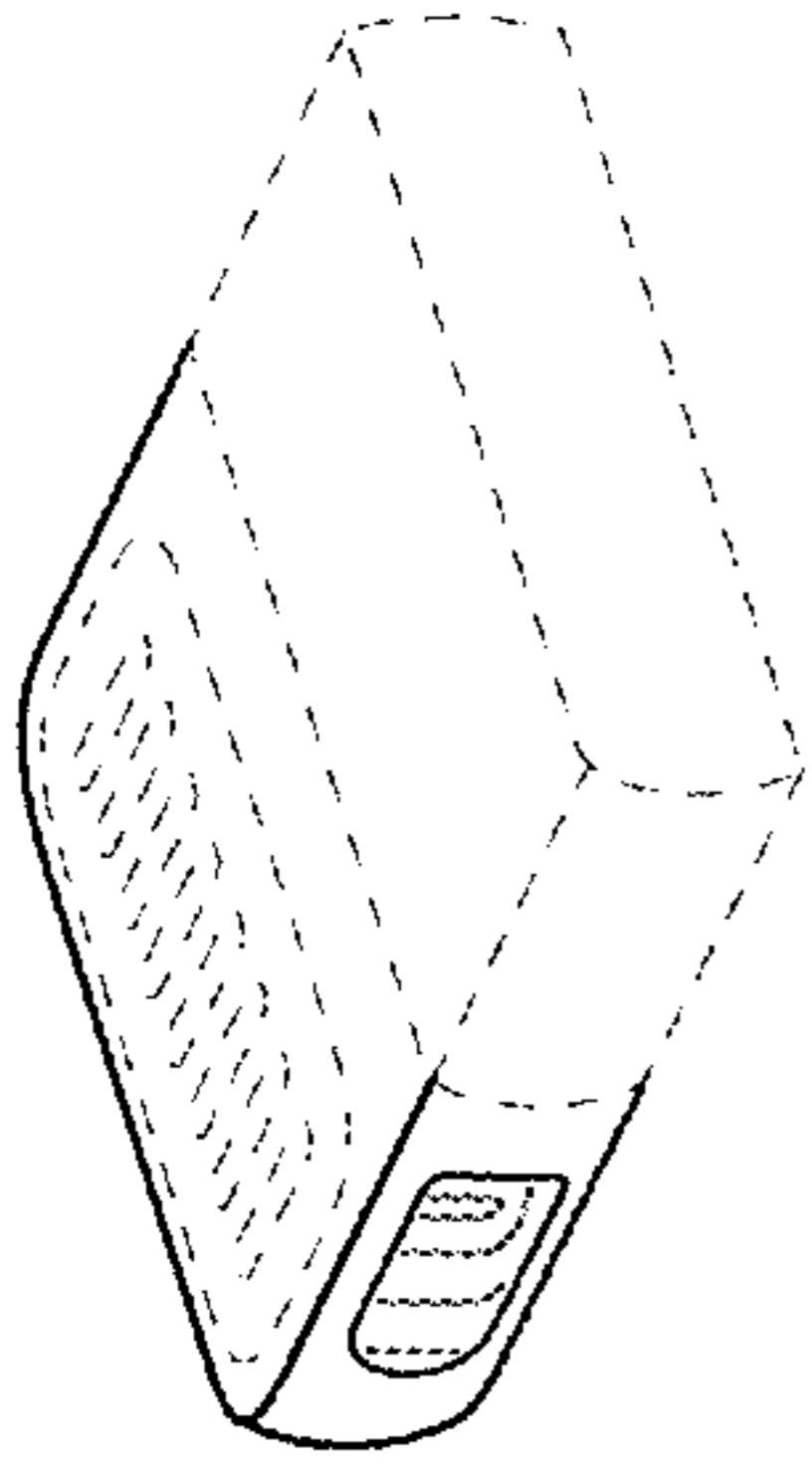


FIG. 2

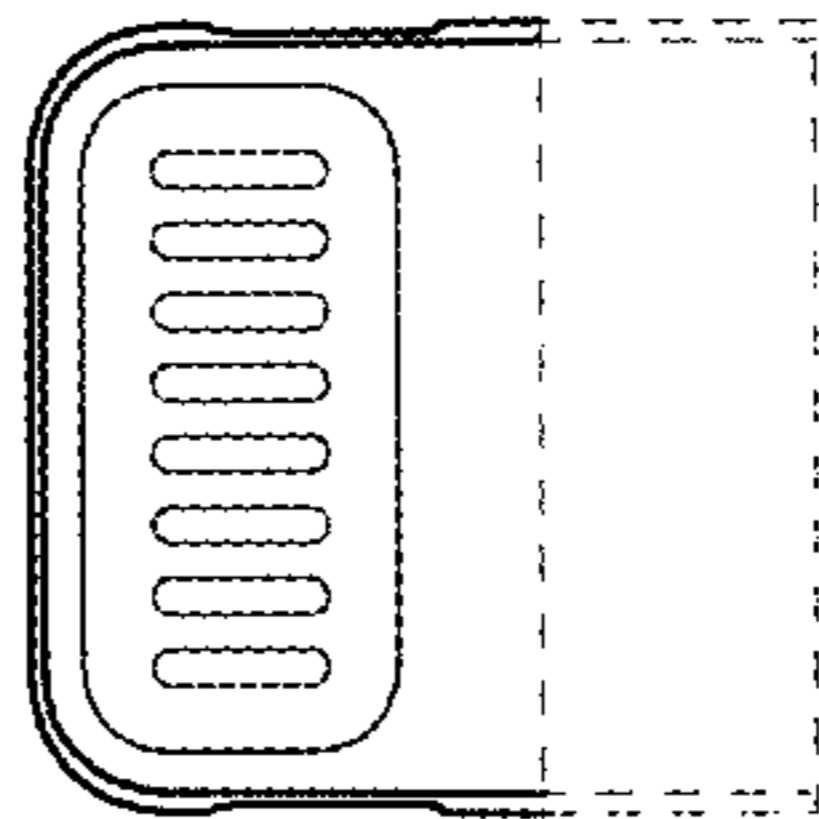


FIG. 3

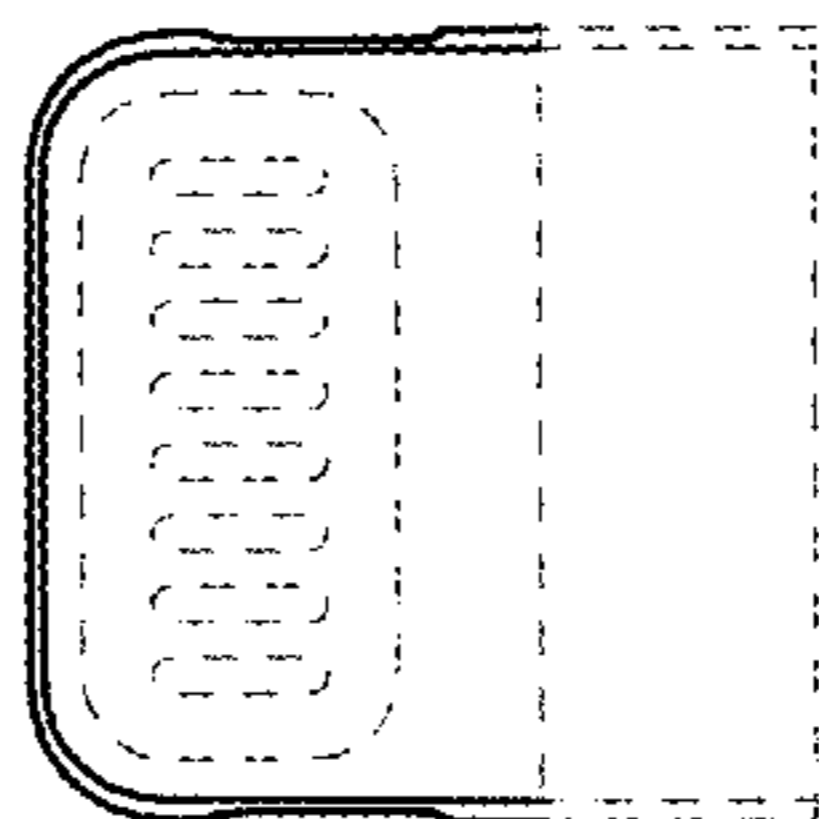


FIG. 4



FIG. 5

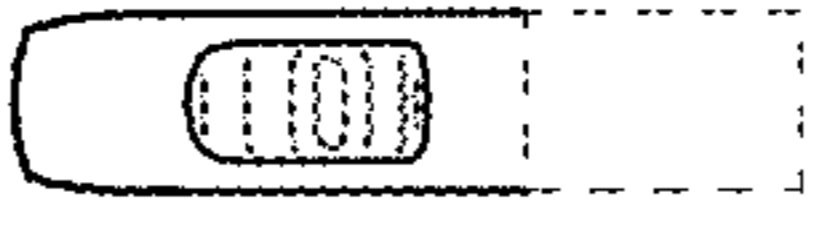


FIG. 6



FIG. 7

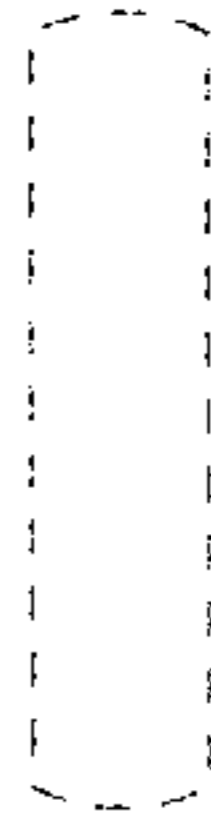


FIG. 8