



US00D800591S

(12) **United States Design Patent** (10) **Patent No.:** **US D800,591 S**  
**Brett et al.** (45) **Date of Patent:** **\*\* Oct. 24, 2017**

(54) **FLOWMETER**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **Homeserve Plc**, Walsall (GB)  
(72) Inventors: **Graham Brett**, London (GB); **Ben Mahon**, London (GB); **Richard Miles**, London (GB)

DE 3827444 A1 2/1990  
DE 19858307 6/2000

(Continued)

(73) Assignee: **Homeserve Plc**, Walsall (GB)

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

(21) Appl. No.: **29/564,630**

(22) Filed: **May 13, 2016**

(30) **Foreign Application Priority Data**

Mar. 31, 2016 (ES) ..... 003050236

(51) **LOC (10) Cl.** ..... **10-04**

(52) **U.S. Cl.**  
USPC ..... **D10/96**

(58) **Field of Classification Search**

USPC ..... D10/96

CPC ..... G01F 1/68; G01F 1/684; G01F 1/6842;  
G01F 1/6845; G01F 1/6847; G01F 1/688;  
G01F 1/6882; G01F 1/6884; G01F  
1/6886; G01F 1/6888; G01F 1/69; G01K  
12/02; G01K 2013/024; G01K 2013/026;  
G01M 3/26; G01M 3/28; G01M 3/2807

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,494,112 A 1/1985 Streib  
4,495,488 A 1/1985 Streib  
4,599,895 A 7/1986 Wiseman  
5,064,604 A 11/1991 Barton  
5,316,035 A 5/1994 Collins et al.  
5,415,033 A 5/1995 Maresca, Jr. et al.  
5,437,180 A 8/1995 Sowinski  
5,676,132 A 10/1997 Tillotson et al.

(Continued)

*Primary Examiner* — Antoine D Davis

(74) *Attorney, Agent, or Firm* — Knobbe Martens Olson & Bear LLP

(57) **CLAIM**

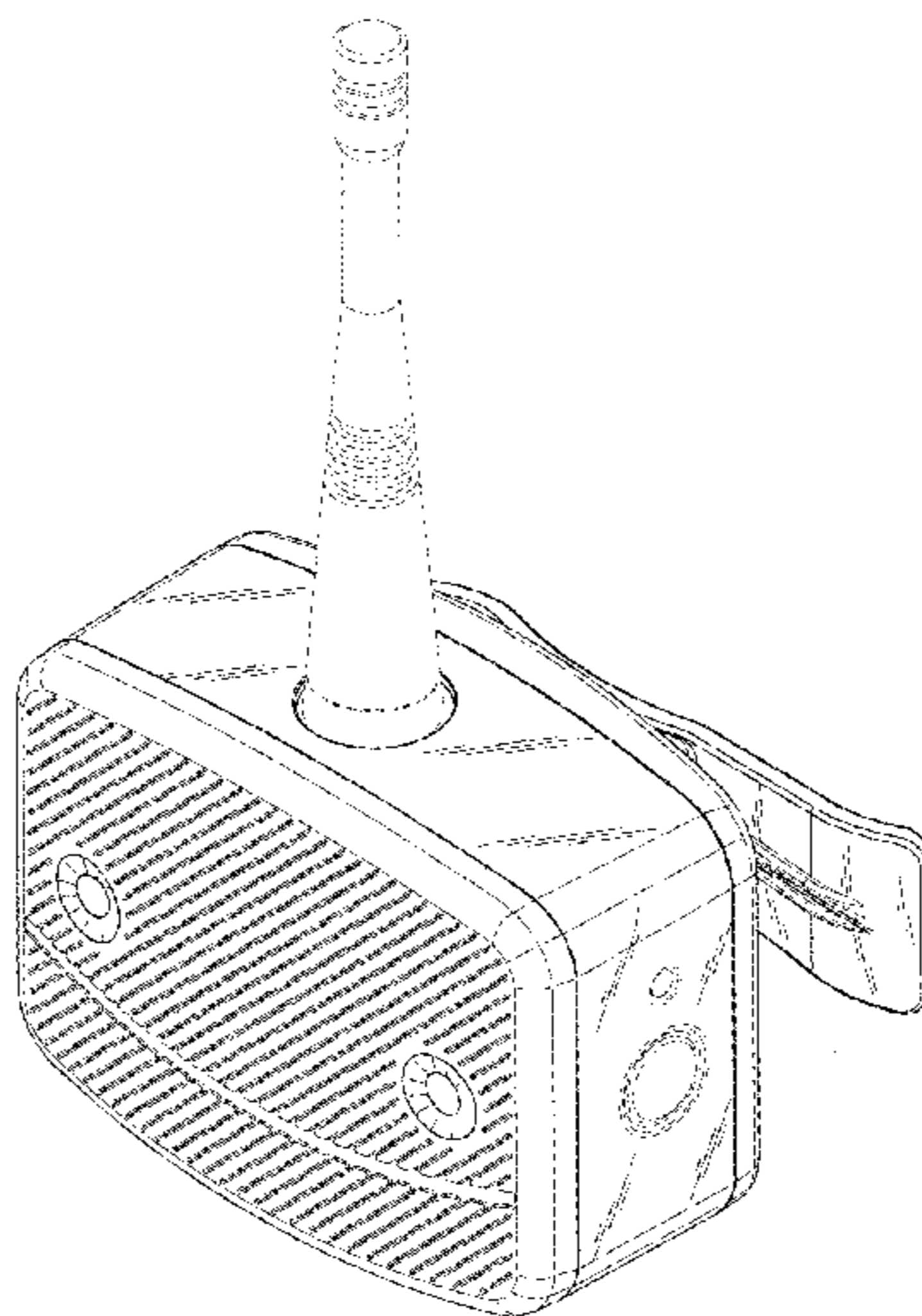
The ornamental design for a flowmeter, as shown and described.

**DESCRIPTION**

FIG. 1 is a front view of the flowmeter of the present design showing a front portion of the flowmeter; FIG. 2 is a first side view of the flowmeter of the present design showing a first side portion of the flowmeter; FIG. 3 is a second side view of the flowmeter of the present design showing a second side portion of the flowmeter; FIG. 4 is a back view of the flowmeter of the present design showing a back portion of the flowmeter; FIG. 5 is a top view of the flowmeter of the present design showing a top portion of the flowmeter; FIG. 6 is a bottom view of the flowmeter of the present design showing a bottom portion of the flowmeter; and, FIG. 7 is a perspective view of the flowmeter of the present design showing the front, top, and first side portions of the flowmeter.

The broken lines in the drawings depict unclaimed subject matter only and form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

5,763,774 A 6/1998 Ha et al.  
 5,764,539 A 6/1998 Rani  
 5,918,268 A 6/1999 Lukas et al.  
 5,948,969 A 9/1999 Fierro et al.  
 6,105,607 A 8/2000 Caise et al.  
 6,125,695 A 10/2000 Alvesteffer et al.  
 6,234,152 B1 5/2001 Fritz et al.  
 6,348,869 B1 2/2002 Ashworth  
 6,411,192 B1 6/2002 Landis  
 6,430,944 B1 8/2002 Ozawa  
 6,437,692 B1 8/2002 Petite et al.  
 6,508,235 B2 1/2003 Fabre  
 6,547,435 B1 4/2003 Grosswig et al.  
 6,658,931 B1 12/2003 Plumb et al.  
 6,681,582 B2 1/2004 Suzuki et al.  
 6,834,556 B2 12/2004 Cain et al.  
 6,837,271 B1 1/2005 Saint  
 6,866,089 B2 3/2005 Avila  
 6,883,369 B1 4/2005 Myhre  
 6,891,838 B1 5/2005 Petite et al.  
 6,914,893 B2 7/2005 Petite  
 7,031,851 B2 4/2006 Sherikar  
 7,053,767 B2 5/2006 Petite et al.  
 7,076,373 B1 7/2006 Munsterhuis et al.  
 7,084,778 B2 8/2006 Shoub  
 7,103,511 B2 9/2006 Petite  
 7,308,824 B2 12/2007 Trescott, Jr. et al.  
 7,358,860 B2 4/2008 Germouni et al.  
 7,468,661 B2 12/2008 Petite et al.  
 7,490,625 B1\* 2/2009 Johnson ..... G01M 3/3236  
 137/596.16  
 7,623,028 B2 11/2009 Kates  
 7,697,492 B2 4/2010 Petite  
 7,711,500 B1 5/2010 Killion et al.  
 8,643,716 B1 2/2014 Kalokitis et al.  
 8,935,106 B2 1/2015 Balogh et al.  
 9,146,172 B2 9/2015 Trescott  
 9,212,966 B2\* 12/2015 Scheucher ..... G01M 3/002  
 2001/0027684 A1 10/2001 Lotters et al.  
 2001/0052261 A1 12/2001 Lull et al.  
 2003/0048190 A1 3/2003 Landis et al.  
 2003/0079553 A1 5/2003 Cain et al.  
 2003/0221483 A1 12/2003 McMillan et al.  
 2004/0025585 A1 2/2004 Seki et al.  
 2004/0045352 A1 3/2004 Kamiunten et al.  
 2004/0194544 A1 10/2004 Tokuhisa et al.  
 2004/0225458 A1 11/2004 Sherikar  
 2005/0155663 A1 7/2005 Dhellemmes et al.  
 2005/0188776 A1 9/2005 Kunter et al.  
 2005/0193802 A1 9/2005 Tipler  
 2005/0229714 A1 10/2005 Willigen  
 2006/0161311 A1 7/2006 Vinson et al.  
 2006/0161357 A1 7/2006 Munsterhuis et al.  
 2006/0225507 A1 10/2006 Paulson  
 2006/0283236 A1 12/2006 Trescott, Jr. et al.  
 2007/0039662 A1 2/2007 Shuey  
 2007/0137297 A1 6/2007 Gehman et al.  
 2007/0160108 A1 7/2007 Kent  
 2007/0290134 A1 12/2007 Key et al.  
 2008/0008223 A1 1/2008 Guillet  
 2008/0034861 A1 2/2008 Bogнар  
 2008/0092644 A1 4/2008 Hasebe  
 2008/0133152 A1 6/2008 Nitschke et al.  
 2008/0168783 A1 7/2008 Kojima et al.  
 2008/0210002 A1 9/2008 Kamiunten et al.  
 2009/0071625 A1 3/2009 Lyon  
 2009/0094999 A1 4/2009 Leatherbarrow  
 2009/0308140 A1 12/2009 Haseloh et al.  
 2010/0037688 A1 2/2010 Inoue et al.  
 2010/0045951 A1 2/2010 Martens et al.  
 2010/0089459 A1 4/2010 Smirnov et al.

2010/0110437 A1 5/2010 Furtaw et al.  
 2010/0206090 A1 8/2010 Stack  
 2011/0025511 A1 2/2011 Wien  
 2011/0061841 A1 3/2011 Zolock et al.  
 2011/0100114 A1 5/2011 de Corral  
 2011/0178736 A1 7/2011 Westra et al.  
 2011/0295540 A1 12/2011 Makinen  
 2011/0296910 A1 12/2011 Lopez et al.  
 2012/0097253 A1 4/2012 Eutsler  
 2012/0180877 A1 7/2012 Pallais  
 2012/0191381 A1 7/2012 Takakura et al.  
 2012/0206272 A1 8/2012 Borlee  
 2012/0279316 A1 11/2012 Gaarder  
 2012/0324985 A1 12/2012 Gu et al.  
 2013/0041588 A1 2/2013 Johnson et al.  
 2013/0066568 A1 3/2013 Alonso  
 2013/0081449 A1 4/2013 Li et al.  
 2013/0174649 A1 7/2013 Hains et al.  
 2014/0034145 A1 2/2014 Burt  
 2014/0049008 A1 2/2014 Ziegler  
 2014/0109882 A1 4/2014 Hoegl et al.  
 2014/0260549 A1 9/2014 Dudar et al.  
 2014/0261693 A1 9/2014 Geerligs et al.  
 2014/0290335 A1 10/2014 Shanks  
 2014/0298919 A1 10/2014 Milley et al.  
 2014/0348205 A1 11/2014 Shaw et al.  
 2015/0020587 A1 1/2015 Milley et al.  
 2015/0120133 A1 4/2015 Dudar et al.  
 2015/0134277 A1 5/2015 Van Doorn  
 2015/0219522 A1 8/2015 Tseng et al.  
 2015/0300908 A1 10/2015 Laramee et al.  
 2015/0337679 A1 11/2015 Everwyn et al.  
 2015/0376874 A1 12/2015 Breedlove  
 2016/0265955 A1 9/2016 Easey et al.

FOREIGN PATENT DOCUMENTS

DE 19921256 A1 11/2000  
 DE 102004061261 A1 6/2006  
 DE 102013006874 A1 10/2014  
 DE 202014100330 U1 5/2015  
 EP 0989396 A2 3/2000  
 EP 1247082 A2 10/2002  
 EP 1643230 B1 4/2010  
 EP 2126531 B1 9/2011  
 EP 2518465 A2 10/2012  
 EP 2840362 A1 2/2015  
 EP 3067671 A1 9/2016  
 ES 2354673 A1 3/2011  
 FR 2763665 11/1998  
 GB 1504334 3/1978  
 GB 1517740 7/1978  
 GB 2452043 A 2/2009  
 GB 2475257 5/2011  
 WO WO 96/26425 8/1996  
 WO WO 97/26520 7/1997  
 WO WO 01/25743 4/2001  
 WO WO 01/98736 12/2001  
 WO WO 2004/025241 3/2004  
 WO WO 2009/024746 2/2009  
 WO WO 2010/103521 9/2010  
 WO WO 2010/139914 12/2010  
 WO WO 2011/107101 9/2011  
 WO WO 2012/033908 3/2012  
 WO WO 2014/194982 12/2014  
 WO WO 2015/028629 3/2015  
 WO WO 2015/097407 7/2015  
 WO WO 2015/166265 11/2015  
 WO WO 2015/166429 11/2015  
 WO WO 2015/178904 11/2015  
 WO WO 2016/110696 7/2016  
 WO WO 2016/146500 9/2016

\* cited by examiner

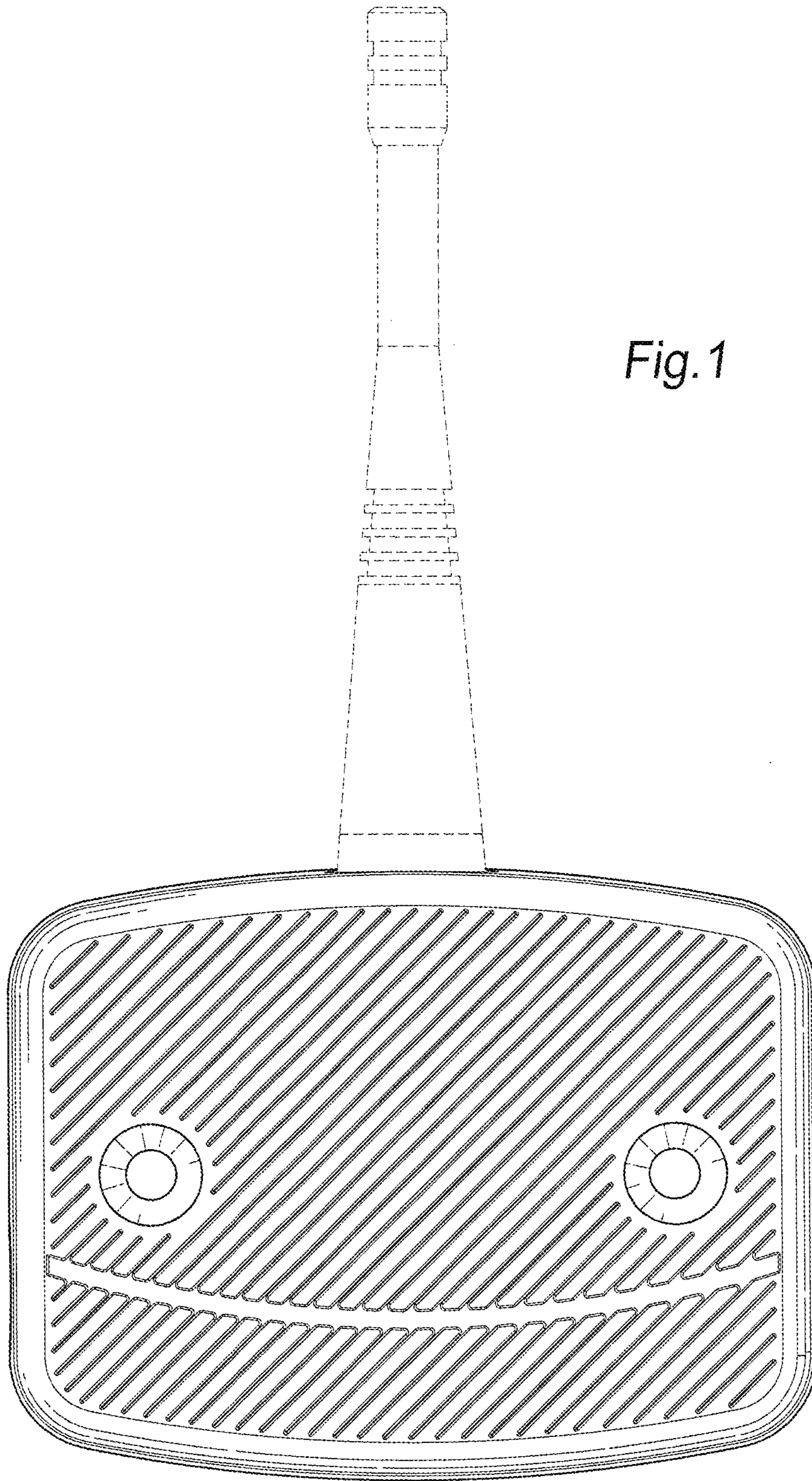


Fig. 1

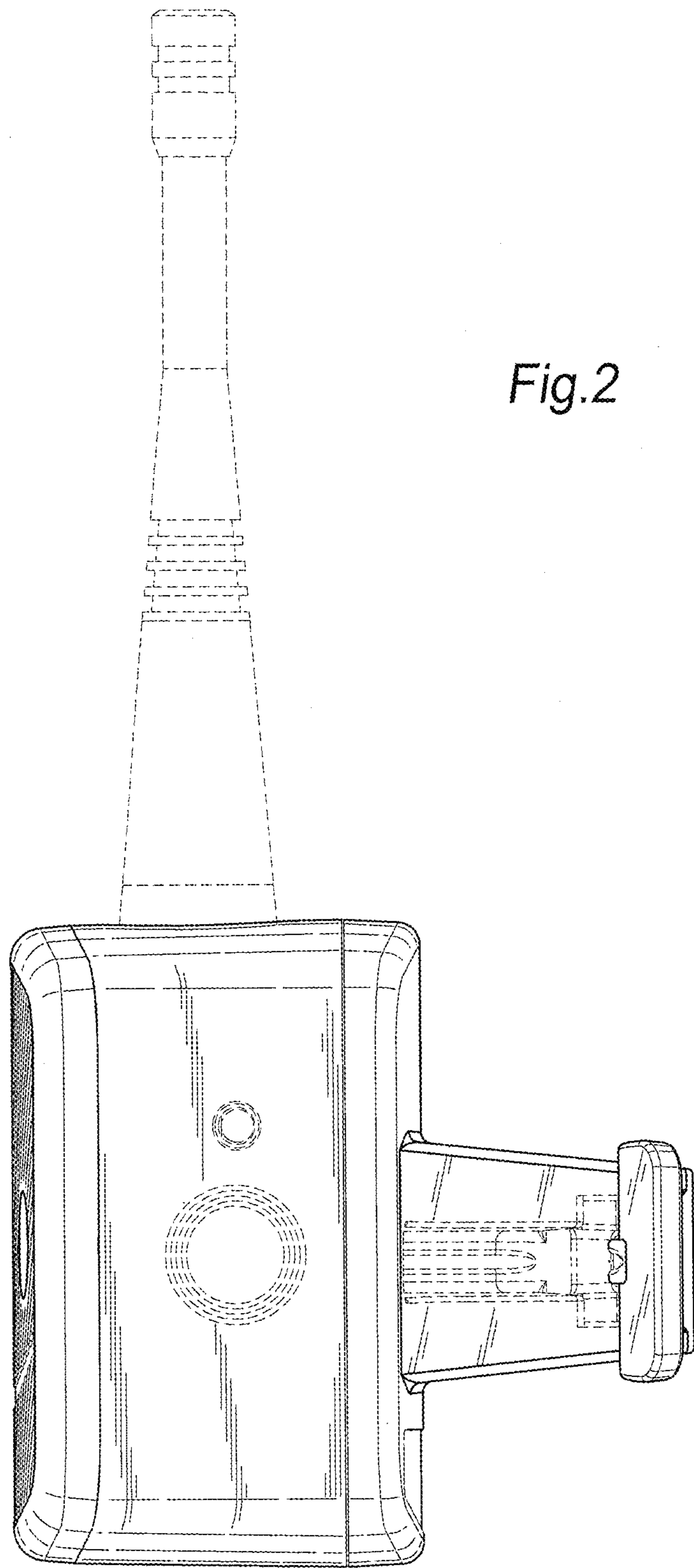
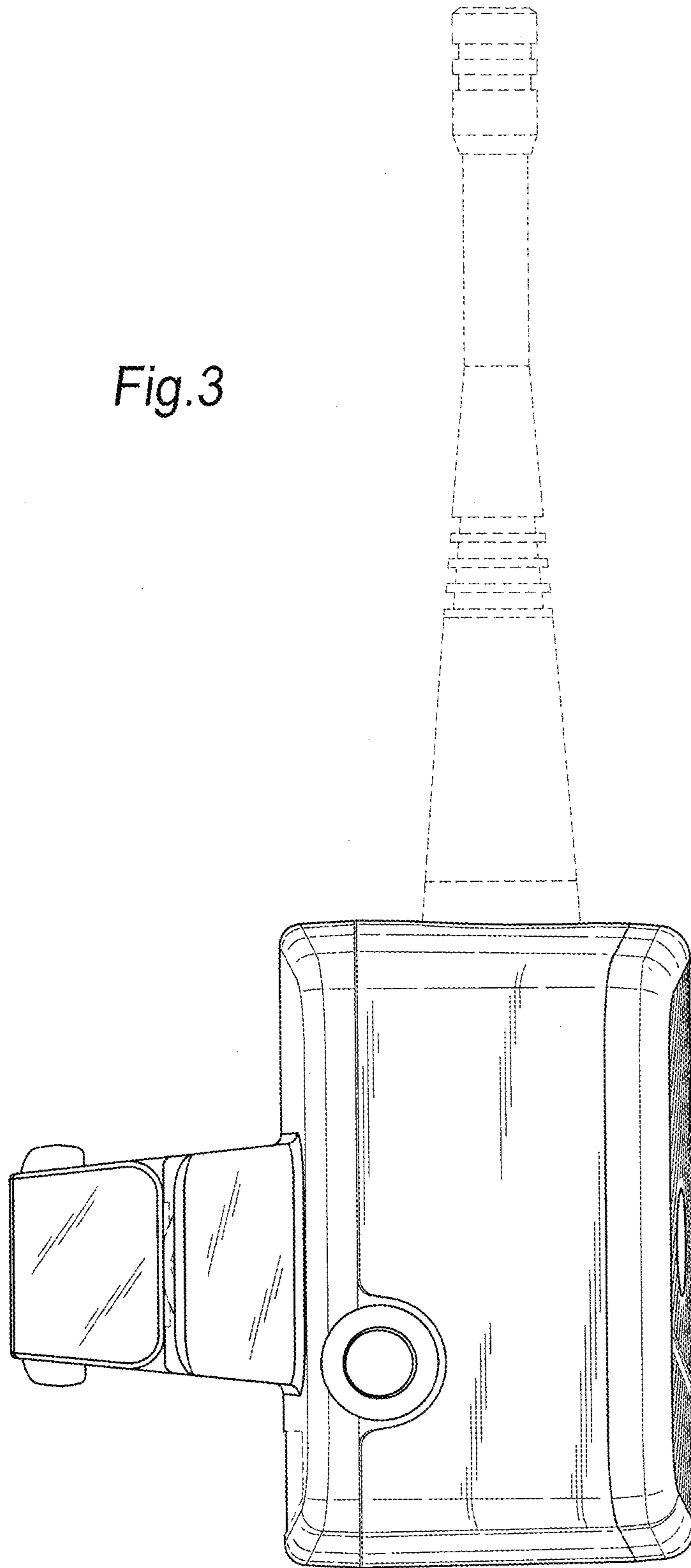


Fig.2

Fig.3



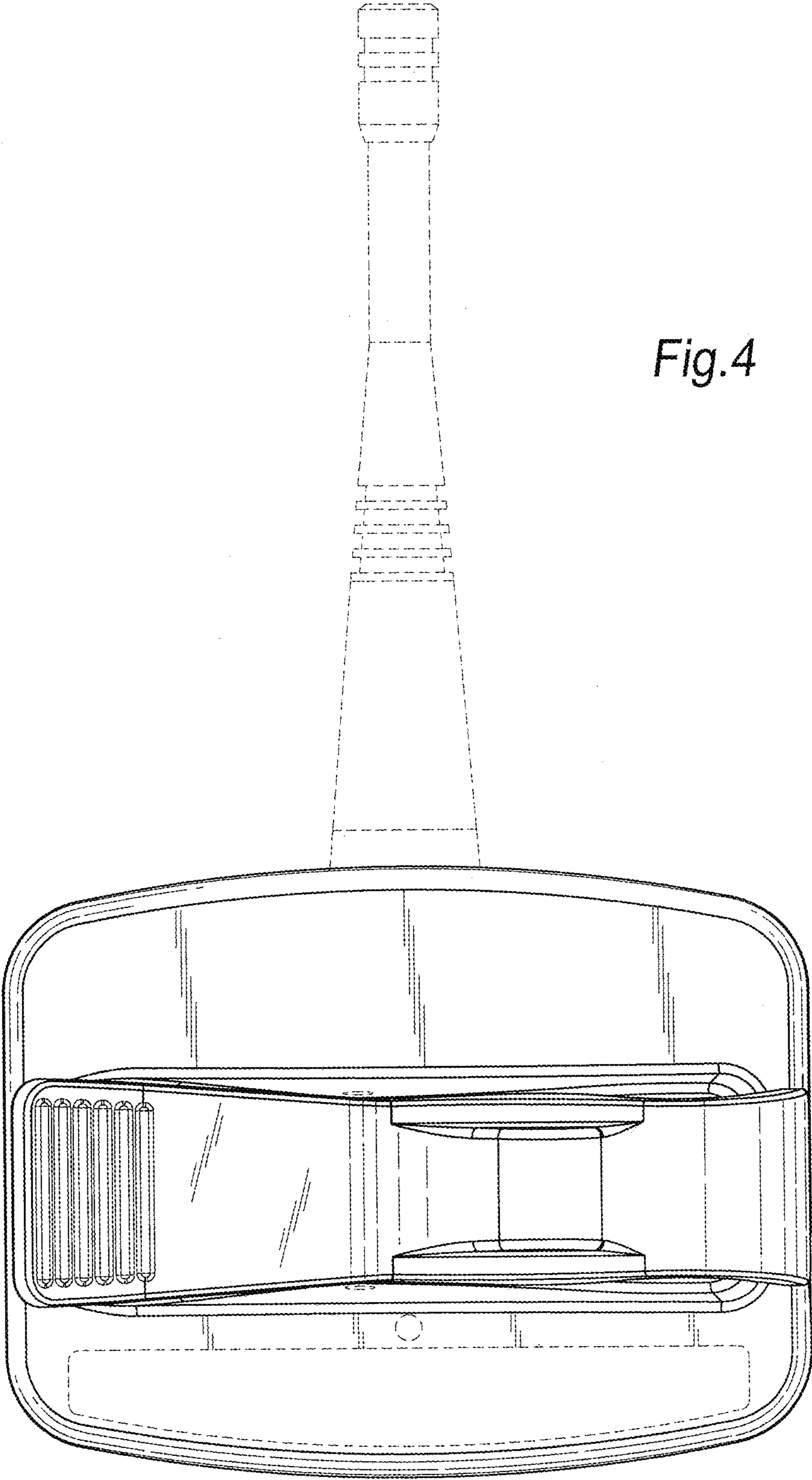


Fig. 4

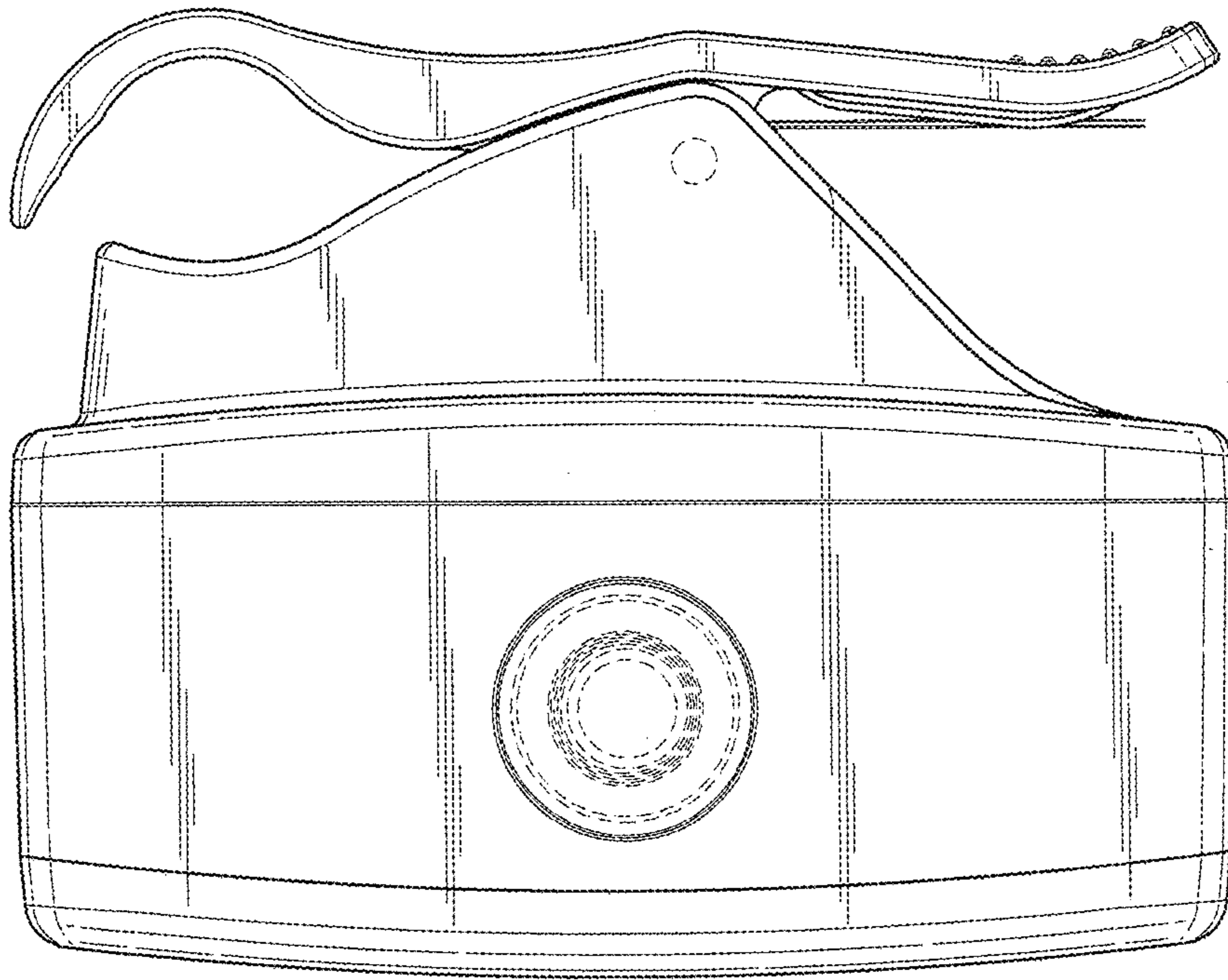


Fig. 5

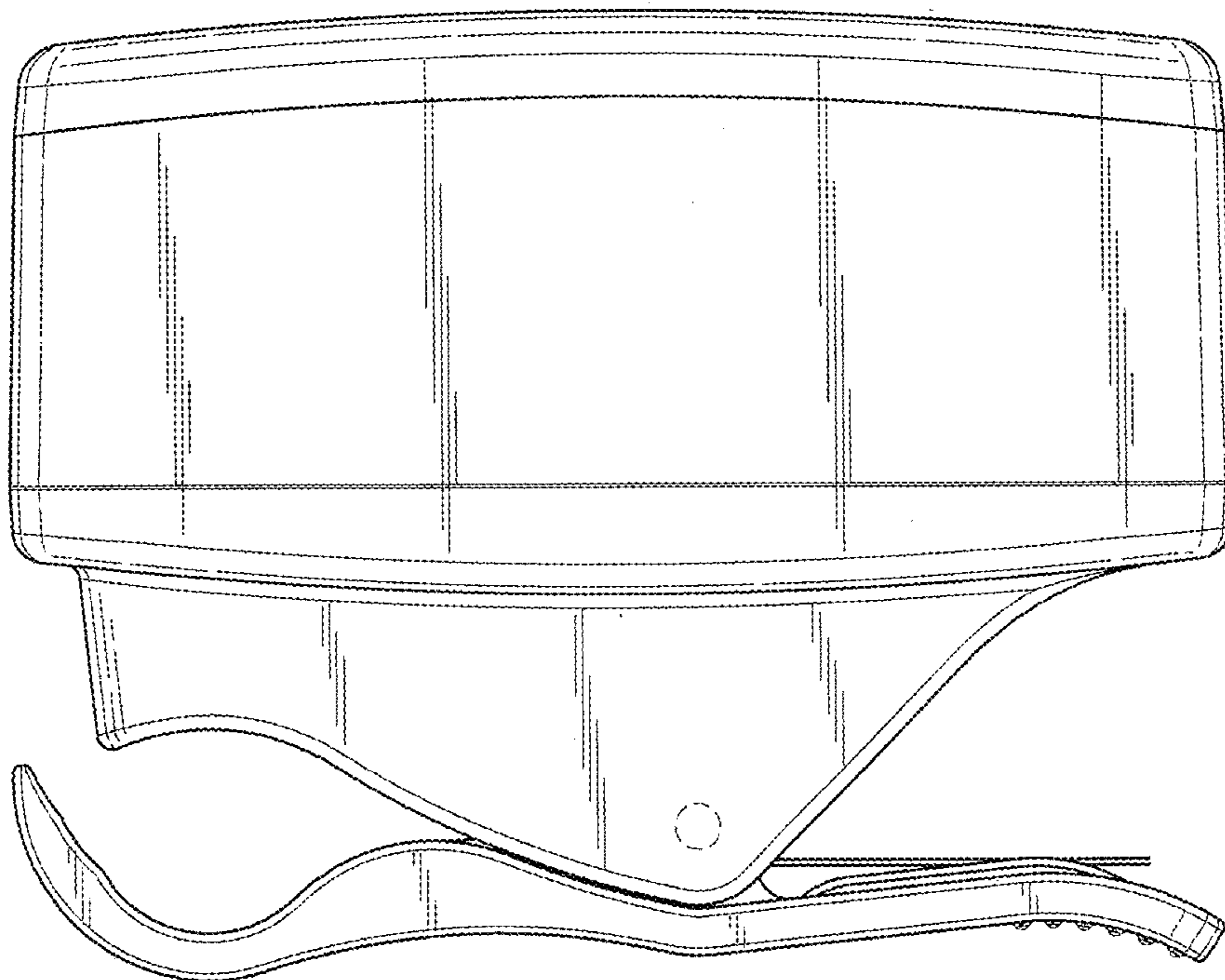


Fig. 6

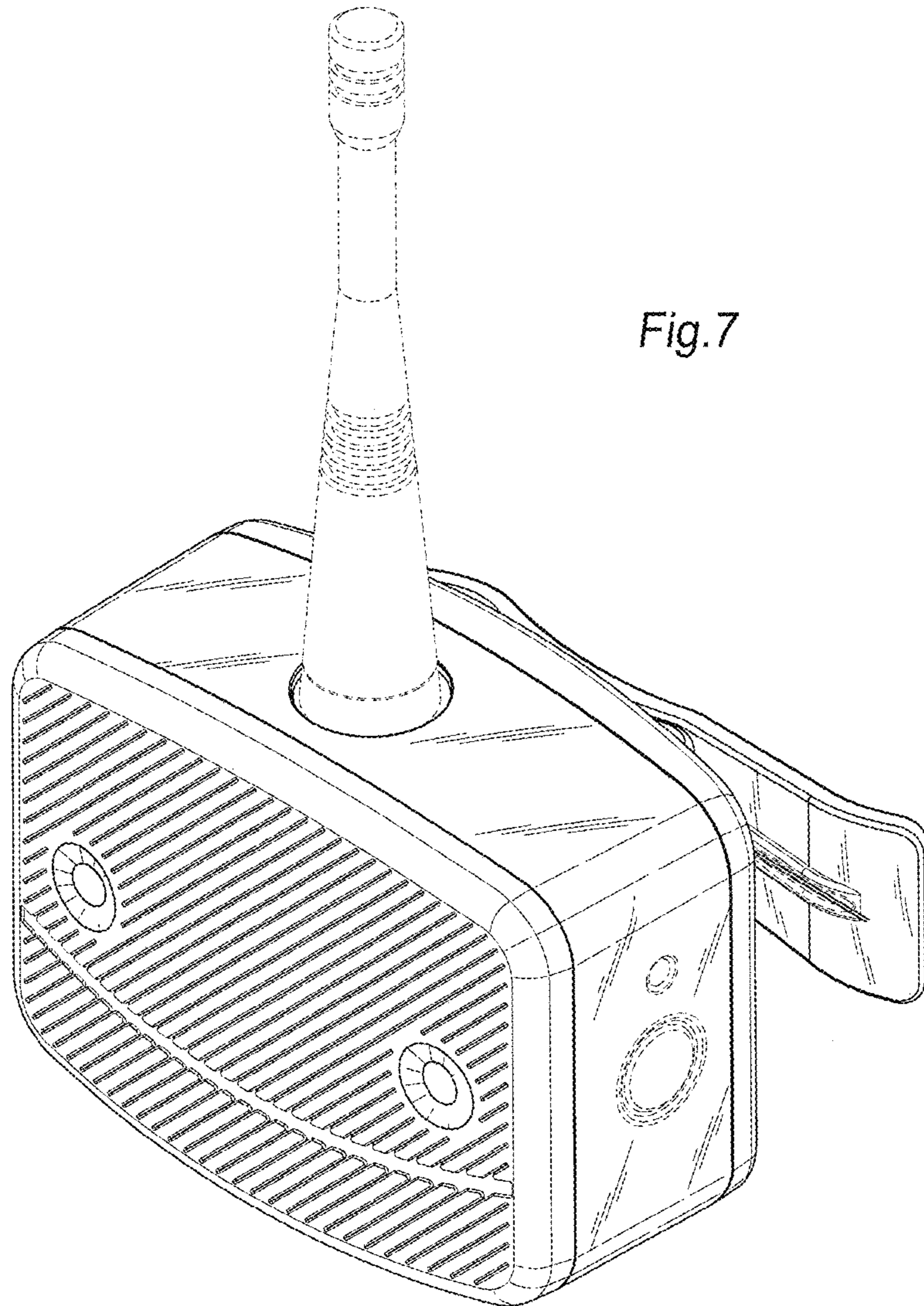


Fig.7