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(12) **United States Design Patent** (10) **Patent No.:** **US D807,926 S**
Kunz (45) **Date of Patent:** **** Jan. 16, 2018**

(54) **COUPLER FOR A GROUND ENGAGING MACHINE IMPLEMENT**

2,427,651 A 9/1947 Baer
D182,143 S 2/1958 Petersen
2,982,035 A 5/1961 Stephenson

(Continued)

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FOREIGN PATENT DOCUMENTS

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CL 2068-1995 10/1996
CL 391-1998 11/1998

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

(Continued)

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OTHER PUBLICATIONS

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Caterpillar Inc., Cat® K Series™ Tooth Systems, brochure (4 pages), 2006.

(Continued)

Related U.S. Application Data

(63) Continuation of application No. 29/519,233, filed on Mar. 3, 2015, now Pat. No. Des. 768,730, and a continuation of application No. 29/462,274, filed on Aug. 1, 2013, now Pat. No. Des. 728,635.

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(51) **LOC (11) Cl.** **15-03**

(57) **CLAIM**

(52) **U.S. Cl.**
USPC **D15/29; D15/28**

The ornamental design for a coupler for a ground engaging machine implement, as shown and described.

(58) **Field of Classification Search**

DESCRIPTION

USPC D15/11, 28, 29; 37/456, 452, 450, 446, 37/454, 449, 453, 455, 903; 403/379.5, 403/DIG. 1; 111/152; 172/724, 730, 172/766, 770, 771, 721, 713, 699, 772
CPC Y10T 29/49826; Y10T 403/589; Y10T 403/7018; Y10T 403/7075; E02F 9/28; E02F 9/2825; E02F 9/2833; E02F 9/2866; E02F 9/2858; E02F 9/2808; E02F 9/2841
See application file for complete search history.

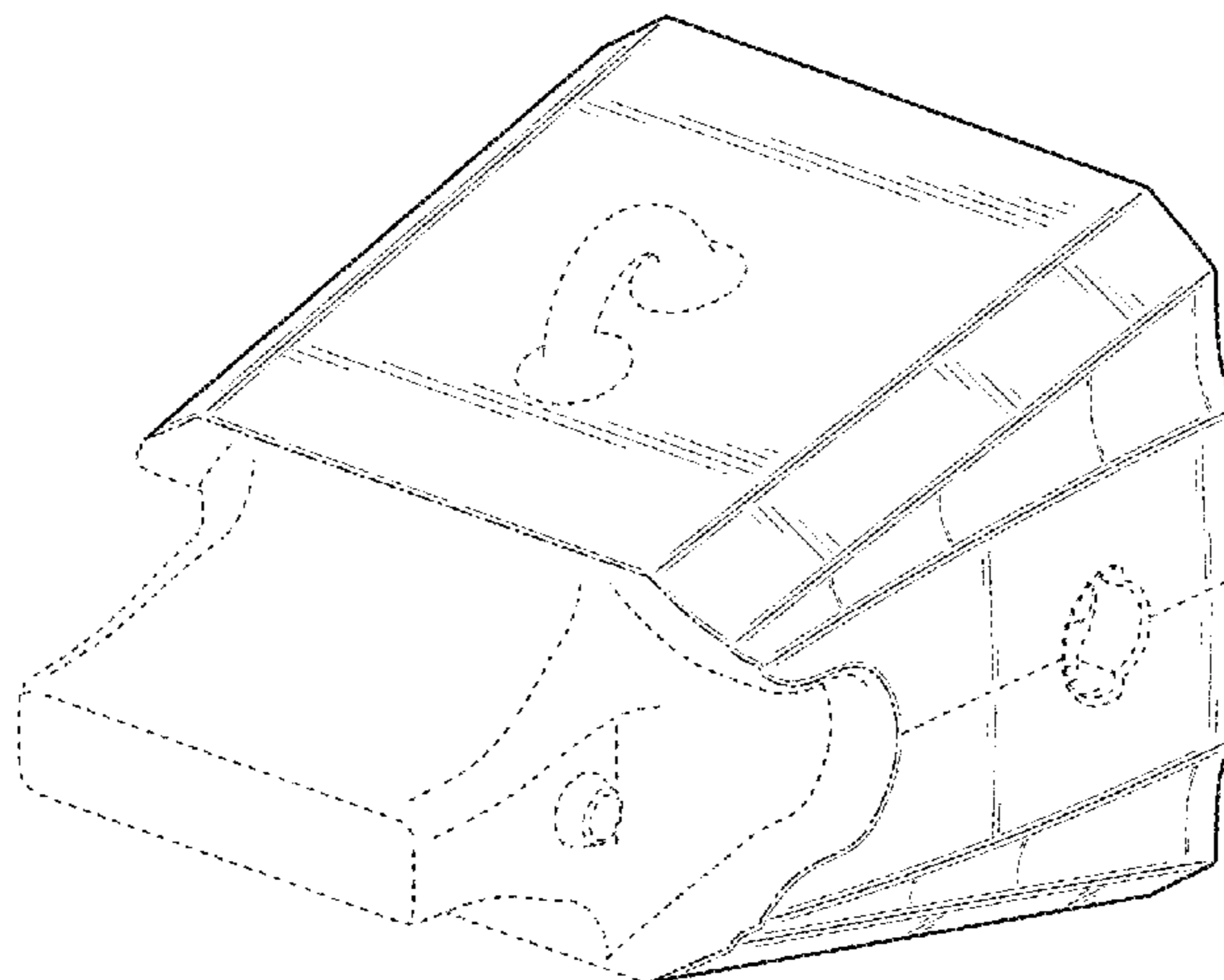
FIG. 1 is an upper, right-side perspective view of a coupler for a ground engaging machine implement showing my new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a right side view thereof, the left side view being a mirror image thereof;
FIG. 5 is a top view thereof;
FIG. 6 is a bottom view thereof; and,
FIG. 7 is a bottom, right side perspective view thereof.
The dashed broken lines illustrate structure or features which form no part of the claimed design.
The dot-dash broken lines illustrate boundaries which form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,220,186 A 3/1917 Chambers
1,384,701 A 7/1921 McMonegal
1,571,782 A 2/1926 Andrews
1,856,930 A 5/1932 Robin

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,019,537 A 2/1962 Stephenson
 3,312,004 A 4/1967 Johnson
 3,623,247 A 11/1971 Stepe
 3,774,324 A 11/1973 Lafond
 3,823,496 A 7/1974 Querci et al.
 3,832,077 A 8/1974 Von Mehren
 3,967,399 A 7/1976 Heinold et al.
 4,052,802 A 10/1977 Moen et al.
 4,086,966 A 5/1978 Lanz et al.
 4,128,132 A 12/1978 Moen et al.
 4,182,057 A 1/1980 Klett et al.
 4,231,173 A 11/1980 Davis
 4,516,340 A 5/1985 Launder
 4,761,900 A 8/1988 Emrich
 4,776,113 A 10/1988 Bedford et al.
 4,848,013 A 7/1989 Bowman et al.
 4,918,843 A 4/1990 Kiesewetter et al.
 4,965,945 A 10/1990 Emrich
 5,205,057 A 4/1993 Garman
 D336,476 S 6/1993 Garman
 D339,592 S 9/1993 Johansson
 5,272,824 A 12/1993 Cornelius
 5,386,653 A 2/1995 Cornelius
 5,423,138 A 6/1995 Livesay et al.
 5,456,029 A * 10/1995 Cornelius E02F 9/2825
 172/713
 D365,577 S 12/1995 Ruvang
 5,561,925 A 10/1996 Livesay
 5,634,285 A 6/1997 Renski
 5,709,043 A 1/1998 Jones et al.
 D391,583 S 3/1998 Moreno
 5,743,033 A 4/1998 Gegel
 5,806,216 A 9/1998 Renski
 D399,511 S 10/1998 Launder et al.
 5,896,911 A 4/1999 Gegel
 D413,338 S 8/1999 Pueyo Molina
 5,937,550 A 8/1999 Emrich
 D414,193 S 9/1999 Launder et al.
 5,983,534 A 11/1999 Robinson et al.
 5,992,063 A 11/1999 Mack
 6,085,448 A 7/2000 Gale et al.
 6,092,958 A 7/2000 Gale
 6,145,224 A 11/2000 Stickling
 6,321,471 B2 11/2001 Fernandez Muñoz et al.
 D454,891 S 3/2002 Ketting et al.
 D458,614 S 6/2002 Esterhuysen et al.
 D460,464 S 7/2002 Ketting et al.
 D461,832 S 8/2002 Ketting et al.
 6,457,269 B1 10/2002 Esterhuysen et al.
 6,477,796 B1 11/2002 Cornelius
 6,766,602 B2 7/2004 Cox et al.
 6,865,828 B1 3/2005 Molino et al.
 6,871,426 B2 3/2005 Keech et al.
 7,100,315 B2 9/2006 Carpenter et al.
 7,219,454 B2 5/2007 Maher
 D552,632 S 10/2007 De Martiis
 D560,232 S 1/2008 De Martiis
 7,762,015 B2 7/2010 Smith et al.
 D624,943 S 10/2010 Gibbon
 8,117,772 B2 2/2012 Harder et al.
 8,122,622 B2 2/2012 Smith et al.
 8,127,475 B2 3/2012 Harder et al.
 8,170,756 B2 5/2012 Morey et al.
 8,229,631 B2 7/2012 Morey et al.
 8,393,097 B2 3/2013 Harder et al.
 D706,263 S 6/2014 Renski et al.
 D706,307 S 6/2014 Renski et al.
 D706,311 S 6/2014 Renski et al.
 D706,312 S 6/2014 Renski et al.
 D706,839 S 6/2014 Renski et al.
 D706,840 S 6/2014 Renski et al.
 D707,264 S 6/2014 Renski et al.
 D727,367 S 4/2015 Renski et al.
 D727,368 S 4/2015 Renski et al.

D727,369 S 4/2015 Renski et al.
 D727,979 S 4/2015 Renski et al.
 D727,980 S 4/2015 Renski et al.
 D727,981 S 4/2015 Renski et al.
 D727,982 S 4/2015 Renski et al.
 D728,635 S * 5/2015 Kunz D15/28
 D728,636 S 5/2015 Kunz
 D728,637 S 5/2015 Kunz
 9,228,324 B2 * 1/2016 Kunz E02F 9/2858
 D748,685 S * 2/2016 Kunz D15/28
 D749,147 S * 2/2016 Kunz D15/28
 9,273,448 B2 * 3/2016 Kunz E02F 9/2858
 9,290,914 B2 * 3/2016 Kunz E02F 9/2858
 2002/0195259 A1 12/2002 Satzler
 2004/0010949 A1 1/2004 Laguarda et al.
 2007/0204490 A1 9/2007 Jones et al.
 2008/0148608 A1 6/2008 Harder et al.
 2008/0201997 A1 8/2008 Armstrong
 2009/0282711 A1 11/2009 Naher et al.
 2011/0035970 A1 2/2011 Smith et al.
 2011/0035971 A1 2/2011 Smith et al.
 2011/0035972 A1 2/2011 Harder et al.
 2012/0186113 A1 7/2012 Harder et al.
 2012/0210612 A1 8/2012 Harder et al.
 2012/0297649 A1 11/2012 Gomar
 2015/0033596 A1 2/2015 Kunz

FOREIGN PATENT DOCUMENTS

CL 1193-1999 9/1999
 CL 223-1999 11/1999
 CL 1457-1999 11/1999
 CL 1583-1999 6/2000
 CL 2671-2005 7/2006
 CL 3115-2005 9/2006
 CL 3116-2005 9/2006
 CL 173-2008 8/2008
 CL 174-2008 8/2008
 CL 2524-2008 1/2009
 CL 1764-2008 7/2009
 CL 618-2010 11/2010
 CL 739-2010 12/2010
 CL 291-2012 11/2012
 EM 000089099-0001-0003 10/2003
 EM 000877477-0001-0009 1/2008
 EM 000895396-0001-0015 3/2008
 GB 1049195 3/1988
 GB 1050103 4/1988
 GB 2010025 4/1990
 GB 2010026 4/1990
 GB 2057051 12/1995
 GB 2057052 12/1995
 GB 2057053 12/1995
 GB 2060104 4/1996
 GB 2060105 4/1996
 GB 2057055 5/1996
 GB 2091441 10/1999
 GB 2091502 10/1999
 GB 2095654 3/2000
 GB 2097590 3/2000
 GB 2097591 4/2000
 GB 2097592 4/2000
 GB 2097593 5/2000
 GB 2104929 3/2001
 GB 2106421 4/2001

OTHER PUBLICATIONS

Hensley Industries, Inc., Extreme Service™, Specification Guide, Mining Teeth and Adapters, (XS85- XS342 Series, TS922-TS1222 Series, XSC12 and XSC127, Mar. 2011, (31 pages).
 ESCO® Corp., Nemisys®, Mining Lip System, © 2013 (5 pages).
 ESCO® Corp., ESCO Posilok® Plus Mining Tooth System, © 2009 (4 pages).

* cited by examiner

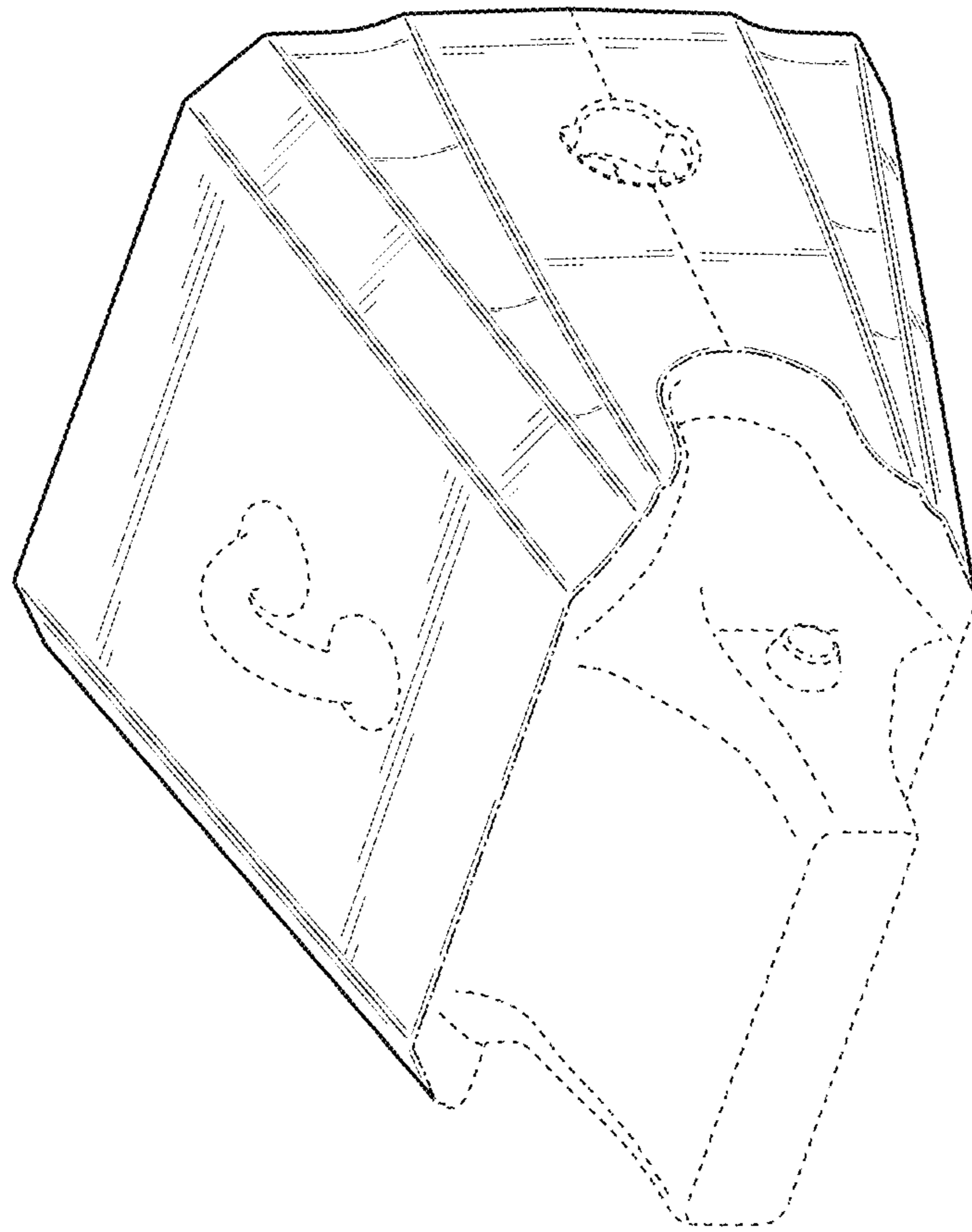


FIG. 1

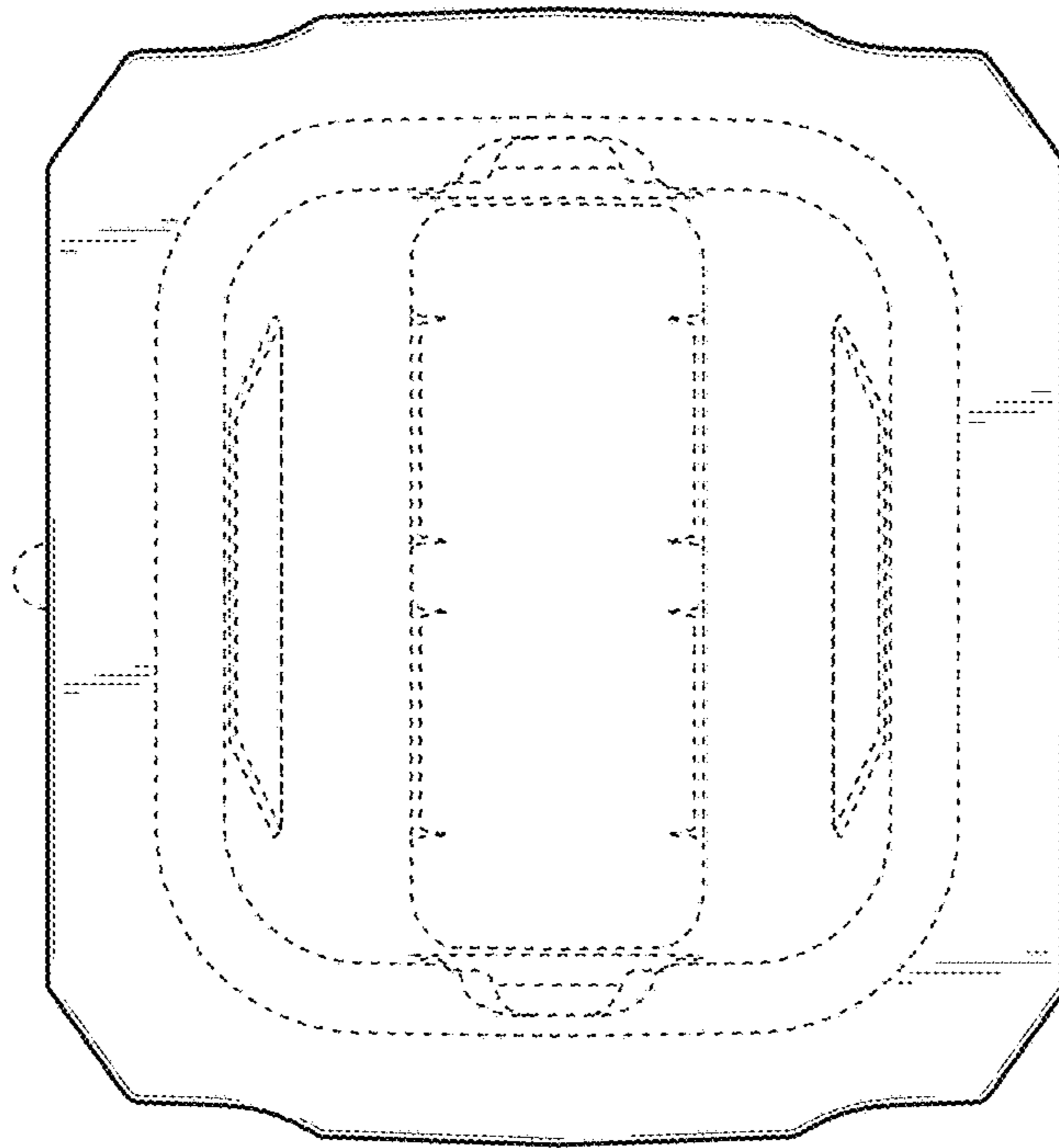


FIG. 3

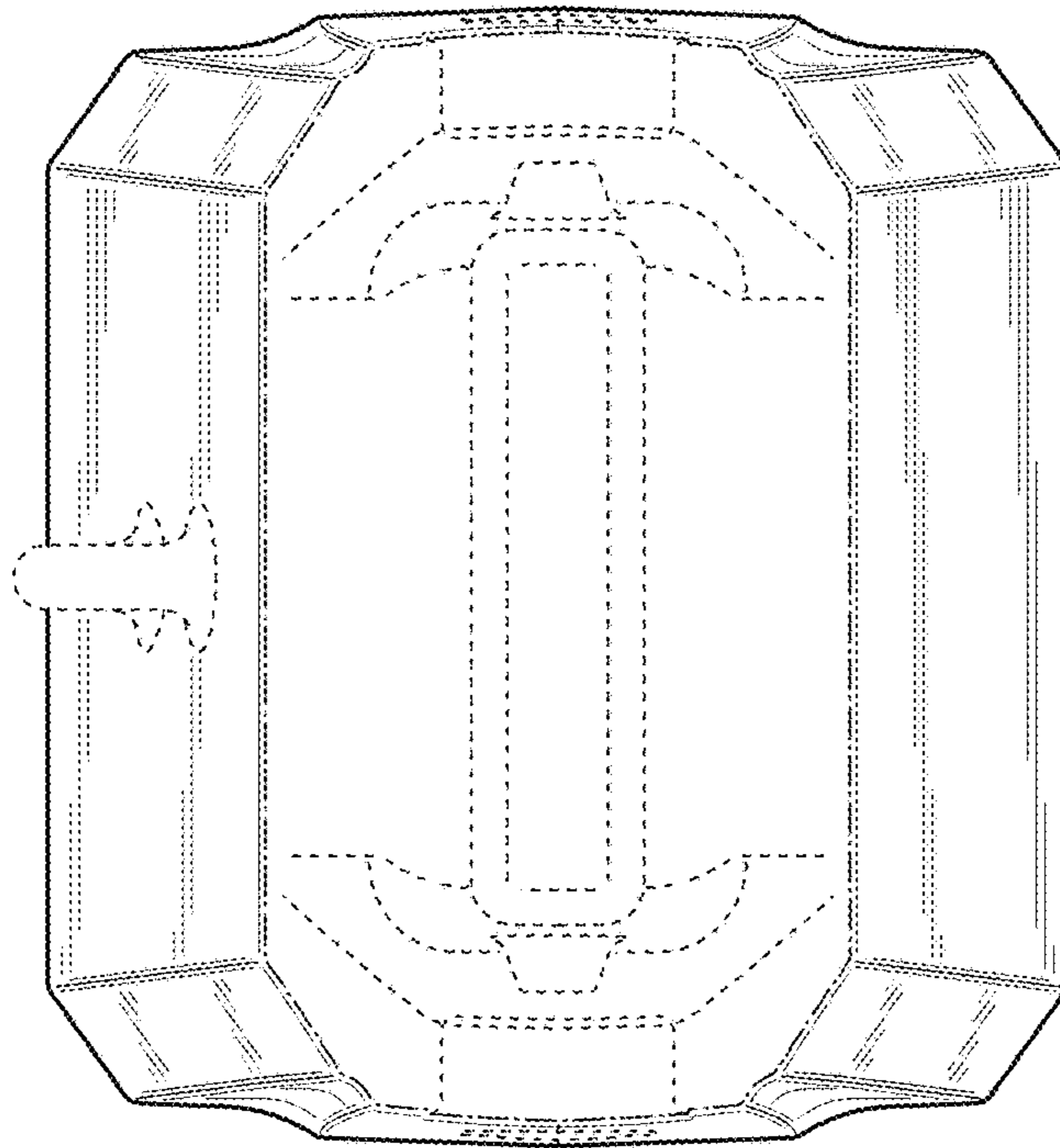


FIG. 2

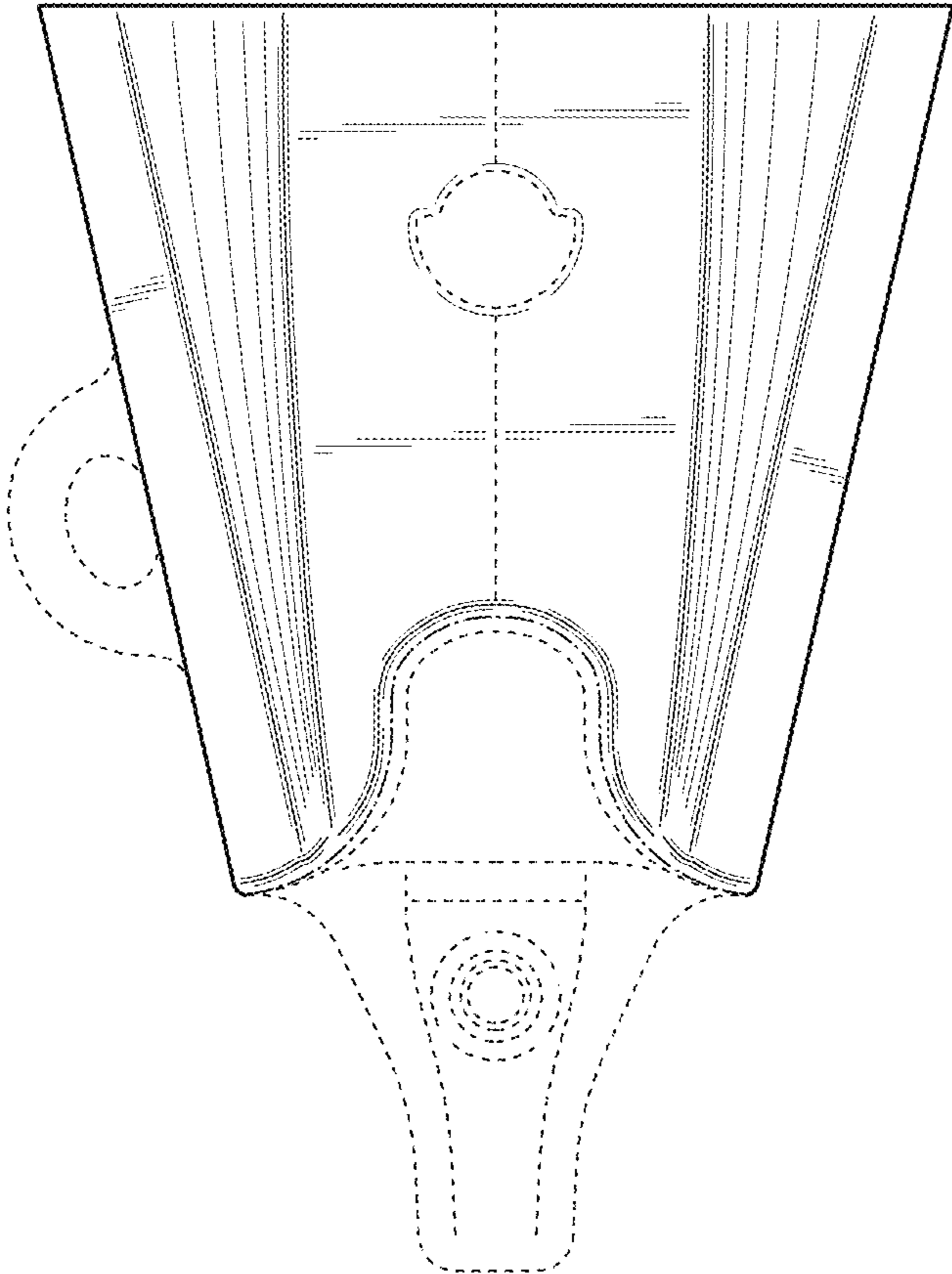


FIG. 4

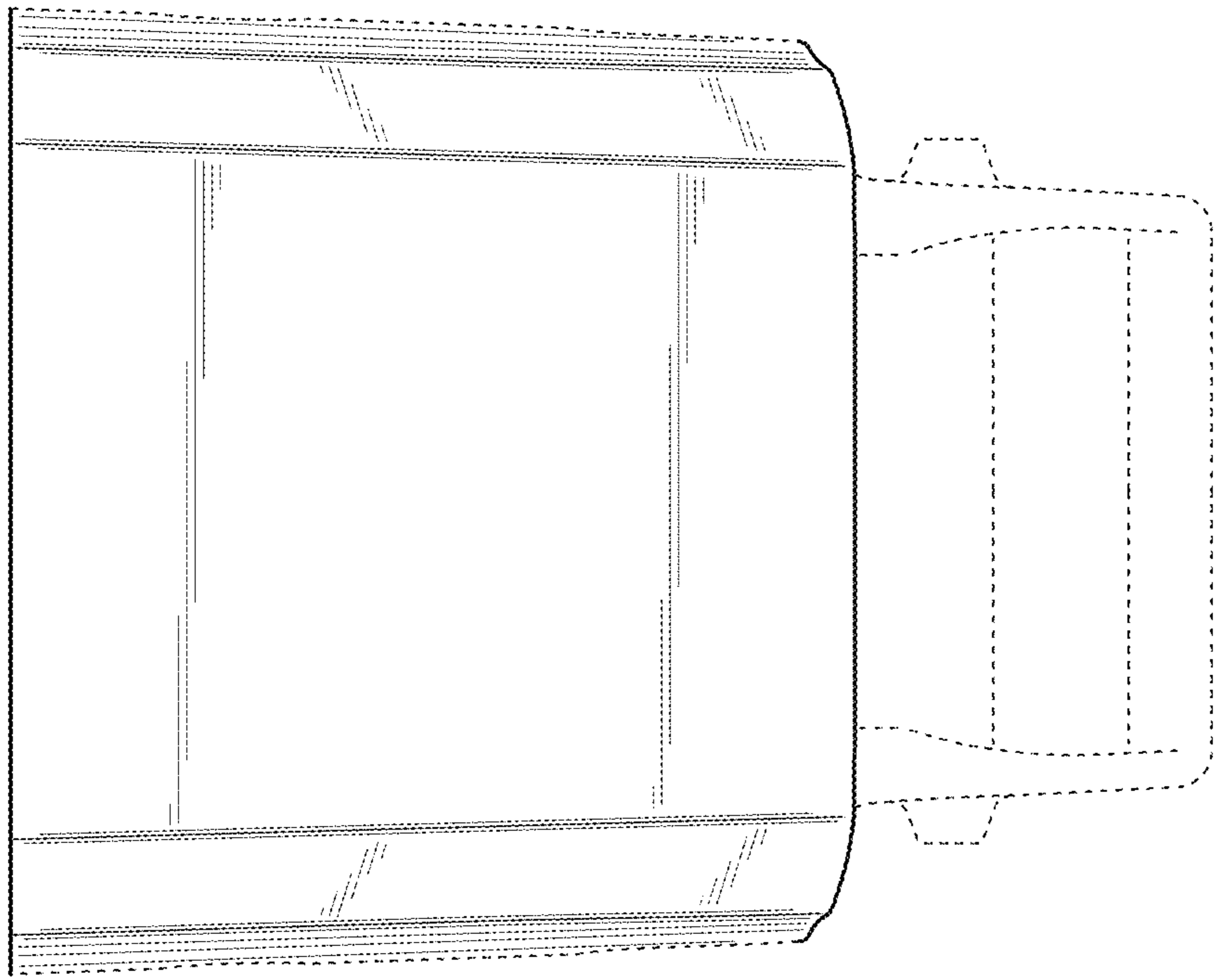


FIG. 6

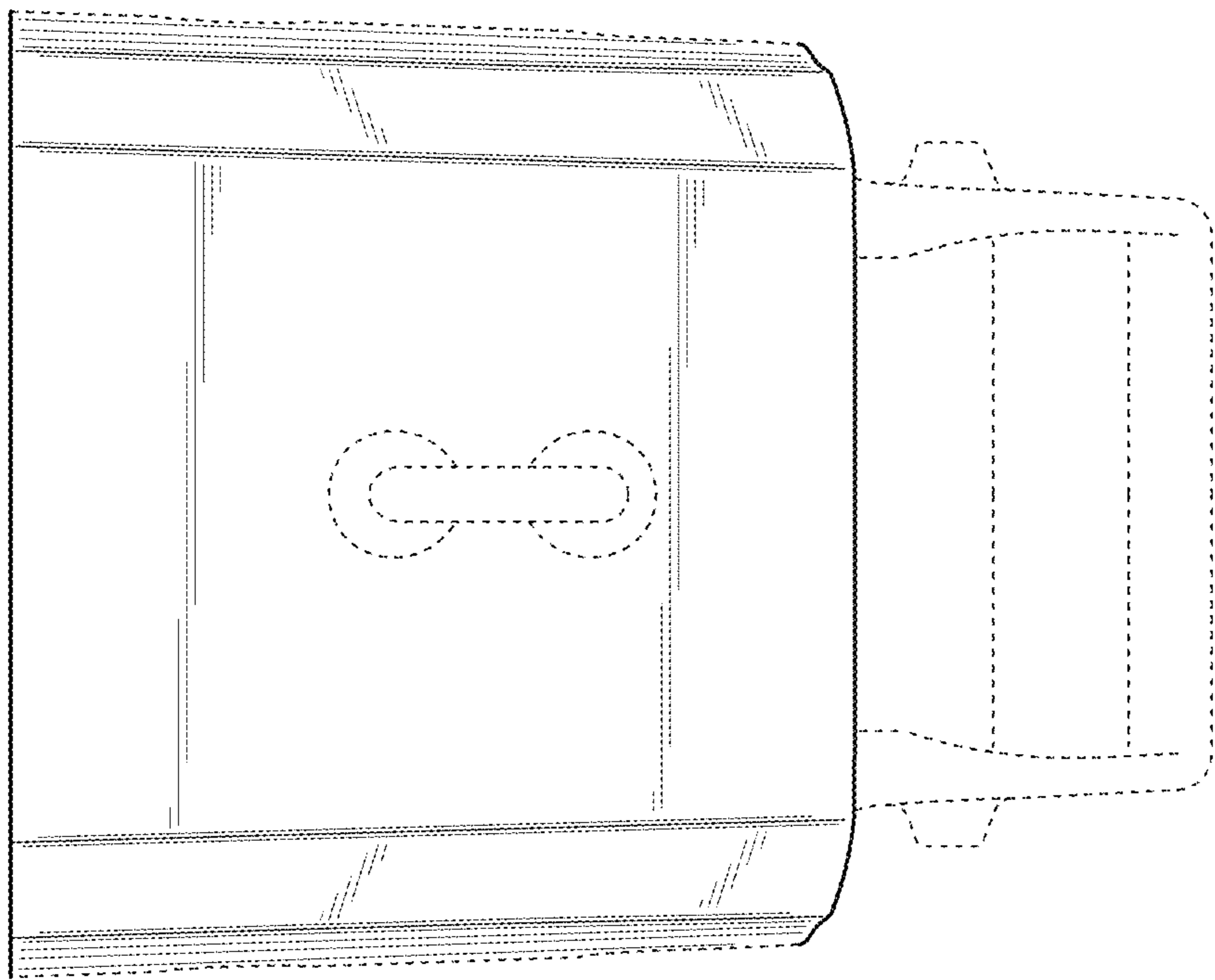


FIG. 5

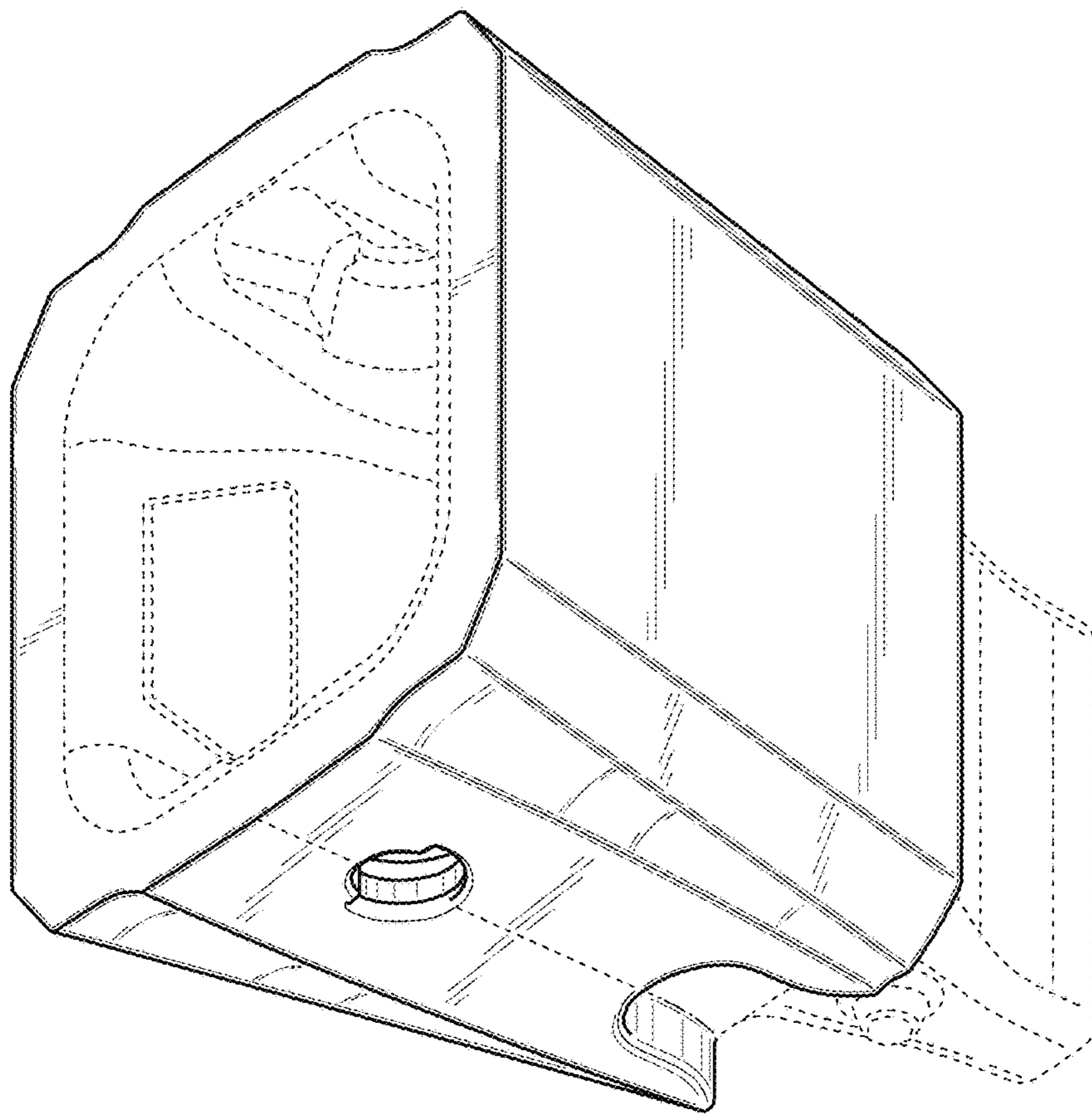


FIG. 7