



US00D727495S

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

(10) **Patent No.:** **US D727,495 S**
(45) **Date of Patent:** **** Apr. 21, 2015**

(54) **NEEDLE GUIDE FOR ULTRASOUND PROBE**

(75) Inventors: **Matthew W. Bown**, West Bountiful, UT (US); **Amir Orome**, Sandy, UT (US)

(73) Assignee: **C. R. Bard, Inc.**, Murray Hill, NJ (US)

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

(21) Appl. No.: **29/428,638**

(22) Filed: **Aug. 1, 2012**

Related U.S. Application Data

(63) Continuation of application No. 13/335,587, filed on Dec. 22, 2011.

(51) **LOC (10) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/130**

(58) **Field of Classification Search**
USPC D24/127-131, 112-114, 133, 186;
606/181, 185; 604/264, 272, 115, 232,
604/187, 158, 164.08, 192, 263, 163, 181,
604/184, 198, 227; 600/459, 461, 101, 139,
600/143; 128/200.24, 207.14, 207.15
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | |
|-----------|---|---------|-------------|
| 4,058,114 | A | 11/1977 | Soldner |
| 4,108,165 | A | 8/1978 | Kopp et al. |
| 4,341,303 | A | 7/1982 | Britt |
| 4,346,717 | A | 8/1982 | Haerten |
| 4,363,326 | A | 12/1982 | Kopel |

(Continued)

FOREIGN PATENT DOCUMENTS

| | | | |
|----|----------|----|--------|
| DE | 2942405 | A1 | 4/1981 |
| JP | 01097440 | A | 4/1989 |

(Continued)

OTHER PUBLICATIONS

PCT/US2009/068828 filed Dec. 18, 2009 International Preliminary Report on Patentability dated Jun. 21, 2011.

(Continued)

Primary Examiner — David Muller

(74) *Attorney, Agent, or Firm* — Rutan & Tucker, LLP

(57) **CLAIM**

The ornamental design for a needle guide for an ultrasound probe, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a needle guide for an ultrasound probe, shown attached to an ultrasound probe that is shown in broken lines;

FIG. 2 is a rear perspective view of the needle guide for an ultrasound probe illustrated in FIG. 1, shown attached to an ultrasound probe that is shown in broken lines;

FIG. 3 is a front elevation view of the needle guide for an ultrasound probe illustrated in FIG. 1, shown attached to an ultrasound probe that is shown in broken lines;

FIG. 4 is a first side elevation view of the needle guide for an ultrasound probe illustrated in FIG. 1, shown attached to an ultrasound probe that is shown in broken lines;

FIG. 5 is a front perspective view of the needle guide for an ultrasound probe illustrated in FIG. 13, shown without the ultrasound probe;

FIG. 6 is a rear perspective view thereof;

FIG. 7 is a front elevation view thereof;

FIG. 8 is a top plan view thereof;

FIG. 9 is a rear elevation view thereof;

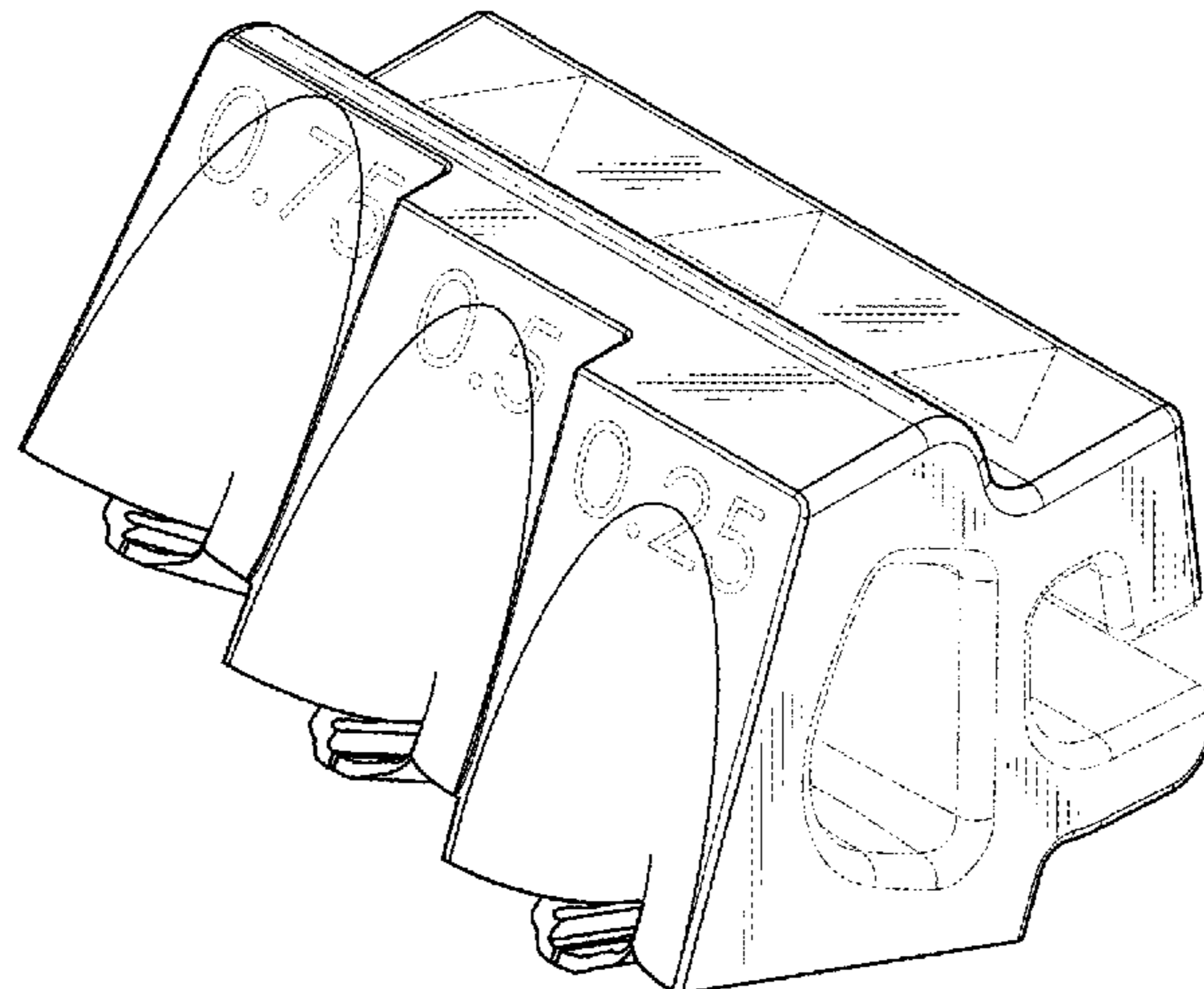
FIG. 10 is a bottom plan view thereof;

FIG. 11 is a first side elevation view thereof; and,

FIG. 12 is a second side elevation view thereof.

The broken line showing of parts of the drawings is included for the purpose of illustrating use and environment and forms no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,402,324 A 9/1983 Lindgren et al.
 4,408,611 A 10/1983 Enjoji
 4,469,106 A 9/1984 Harui
 4,497,325 A 2/1985 Wedel
 4,548,210 A 10/1985 Enjoji et al.
 4,576,175 A 3/1986 Epstein
 4,608,989 A 9/1986 Drue
 4,635,644 A 1/1987 Yagata
 4,662,870 A 5/1987 Augustine et al.
 4,681,103 A 7/1987 Boner et al.
 4,723,544 A 2/1988 Moore et al.
 4,742,829 A 5/1988 Law et al.
 4,838,506 A 6/1989 Cooper
 4,877,033 A 10/1989 Seitz, Jr.
 4,883,059 A 11/1989 Stedman et al.
 4,898,178 A 2/1990 Wedel
 4,899,756 A 2/1990 Sonek
 4,911,173 A 3/1990 Terwilliger
 5,052,396 A 10/1991 Wedel et al.
 5,076,279 A 12/1991 Arenson et al.
 5,100,387 A 3/1992 Ng
 5,138,748 A 8/1992 Welles
 5,235,987 A 8/1993 Wolfe
 5,265,614 A 11/1993 Hayakawa et al.
 5,280,427 A 1/1994 Magnusson et al.
 5,427,108 A 6/1995 Bollinger
 5,494,039 A 2/1996 Onik et al.
 5,623,931 A 4/1997 Wung et al.
 5,758,650 A 6/1998 Miller et al.
 5,911,707 A 6/1999 Wolvek et al.
 D412,032 S 7/1999 Mikula-Curtis et al.
 5,924,992 A 7/1999 Park et al.
 5,941,889 A 8/1999 Cermak
 6,050,954 A 4/2000 Mittermeier
 D424,693 S 5/2000 Pruter
 6,083,169 A 7/2000 Hansen
 6,095,981 A 8/2000 McGahan
 6,203,499 B1 3/2001 Imling et al.
 6,283,942 B1 9/2001 Staehlin et al.
 6,296,614 B1 10/2001 Pruter
 6,361,499 B1 3/2002 Bates et al.
 6,368,280 B1 4/2002 Cermak et al.
 6,379,307 B1 4/2002 Filly et al.
 6,425,871 B1 7/2002 Jaggi
 6,475,152 B1 11/2002 Kelly, Jr. et al.
 6,485,426 B2 11/2002 Sandhu
 6,612,990 B1 9/2003 Pruter
 6,695,786 B2 2/2004 Wang et al.
 6,743,177 B2 6/2004 Ito
 6,758,817 B1 7/2004 Pruter et al.
 6,814,704 B2 11/2004 Weilandt
 6,840,954 B2 1/2005 Dietz et al.
 6,884,219 B1 4/2005 Pruter
 7,022,082 B2 4/2006 Sonek
 7,087,024 B1 8/2006 Pruter
 7,322,990 B1 1/2008 Mark et al.
 7,351,205 B2 4/2008 Szczech et al.
 7,452,331 B1 11/2008 Pruter
 7,588,541 B2 9/2009 Floyd et al.
 7,635,336 B1 12/2009 Pruter
 7,670,294 B2 3/2010 Kisen et al.
 7,691,066 B2 4/2010 Kosaku
 7,837,627 B1 11/2010 Pruter
 D630,731 S * 1/2011 Schmutzer et al. D24/128
 7,909,815 B2 3/2011 Whitmore, III et al.
 7,976,469 B2 7/2011 Bonde et al.
 8,073,529 B2 12/2011 Cermak et al.
 8,075,495 B2 12/2011 Andreyko et al.
 8,118,743 B2 2/2012 Park et al.
 D655,813 S * 3/2012 Row et al. D24/129
 8,137,281 B2 3/2012 Huang et al.
 D659,825 S * 5/2012 Dillard, III D24/130
 D672,460 S * 12/2012 Baid D24/130
 8,430,889 B2 4/2013 Zeng et al.
 8,496,593 B2 7/2013 Park et al.

8,523,824 B2 9/2013 Teirstein et al.
 8,641,620 B2 * 2/2014 Lasser et al. 600/437
 8,647,280 B2 * 2/2014 Ooishi et al. 600/459
 8,696,583 B2 * 4/2014 Ohgishi et al. 600/459
 8,696,585 B2 * 4/2014 Addison et al. 600/500
 8,708,916 B2 * 4/2014 Okuno 600/459
 8,740,800 B2 * 6/2014 Wakabayashi et al. 600/459
 8,747,324 B1 * 6/2014 Pruter et al. 600/464
 8,795,183 B2 * 8/2014 Siebrecht et al. 600/459
 8,808,186 B2 * 8/2014 Fruland et al. 600/459
 2002/0123689 A1 9/2002 Furia
 2002/0133079 A1 9/2002 Sandhu
 2003/0144627 A1 7/2003 Woehr et al.
 2003/0195425 A1 10/2003 Ito
 2004/0133111 A1 7/2004 Szczech et al.
 2005/0113816 A1 5/2005 Whitmore et al.
 2005/0143753 A1 6/2005 Whitmore et al.
 2005/0267373 A1 12/2005 Lee
 2006/0129046 A1 6/2006 Stevens et al.
 2006/0150876 A1 7/2006 Green et al.
 2006/0241477 A1 10/2006 Sasady et al.
 2007/0016781 A1 1/2007 Asokan et al.
 2007/0038113 A1 2/2007 Oonuki et al.
 2007/0073155 A1 3/2007 Park et al.
 2007/0078346 A1 4/2007 Park et al.
 2007/0112272 A1 5/2007 Park et al.
 2007/0167817 A1 7/2007 Huang et al.
 2007/0276241 A1 11/2007 Park et al.
 2007/0276253 A1 11/2007 Park et al.
 2007/0282205 A1 12/2007 Furia
 2008/0033454 A1 2/2008 Lukoschek et al.
 2008/0300491 A1 12/2008 Bonde et al.
 2009/0143684 A1 6/2009 Cermak et al.
 2009/0171219 A1 7/2009 Uchibori
 2009/0247876 A1 10/2009 Cannon, Jr. et al.
 2009/0266957 A1 10/2009 Cermak
 2009/0270722 A1 10/2009 Floyd et al.
 2009/0275833 A1 11/2009 Ikeda et al.
 2010/0041990 A1 2/2010 Schlitt et al.
 2010/0106056 A1 4/2010 Norris
 2010/0160787 A1 6/2010 Gorzitze
 2010/0228131 A1 9/2010 Oonuki et al.
 2010/0247513 A1 9/2010 Agee et al.
 2010/0312121 A1 12/2010 Guan
 2011/0028847 A1 2/2011 Whitmore, III et al.
 2012/0165679 A1 6/2012 Orome et al.
 2012/0330159 A1 12/2012 Orome et al.
 2013/0150714 A1 6/2013 Howlett et al.
 2013/0245452 A1 9/2013 Gorzitze

FOREIGN PATENT DOCUMENTS

JP 03173542 A 7/1991
 JP 11128237 A 5/1999
 JP 21161683 6/2001
 JP 21340334 12/2001
 JP 23299654 10/2003
 JP 23334191 11/2003
 WO 0019906 4/2000
 WO 0040155 7/2000
 WO 0040155 A1 7/2000
 WO 2000040155 A1 7/2000
 WO 03094701 A2 11/2003
 WO 2004021898 A1 3/2004
 WO 2006060657 A2 6/2006
 WO 2007027511 A2 3/2007
 WO 2007040172 A1 4/2007
 WO 2007110076 A1 10/2007
 WO 2008024515 A2 2/2008
 WO 2009073653 A1 6/2009
 WO 2009090230 A1 7/2009
 WO 2010080637 A1 7/2010
 WO 2010084322 A1 7/2010
 WO 2012088458 6/2012
 WO 2012178109 12/2012
 WO 2013054168 A2 4/2013

OTHER PUBLICATIONS

(56)

References Cited

OTHER PUBLICATIONS

PCT/US2009/068828 filed Dec. 18, 2009 Search Report dated Mar. 3, 2010.

PCT/US2009/068828 filed Dec. 18, 2009 Written Opinion dated Mar. 3, 2010.

PCT/US2011/066940 filed Dec. 22, 2011 International Preliminary Report on Patentability dated Jul. 4, 2013.

PCT/US2012/043877 filed Jun. 22, 2012 International Search Report and Written Opinion dated Sep. 24, 2012.

U.S. Appl. No. 12/642,456, filed Dec. 18, 2009 Final Office Action dated Nov. 23, 2012.

U.S. Appl. No. 12/642,456, filed Dec. 18, 2009 Non-Final Office Action dated Jul. 2, 2012.

U.S. Appl. No. 12/642,456, filed Dec. 18, 2009 Notice of Allowance dated Jul. 12, 2013.

U.S. Appl. No. 13/335,587, filed Dec. 22, 2011 Non-Final Office Action dated Mar. 12, 2014.

U.S. Appl. No. 13/886,196, filed May 2, 2013 Advisory Action dated Jun. 13, 2014.

U.S. Appl. No. 13/886,196, filed May 2, 2013 Final Office Action dated Apr. 10, 2014.

U.S. Appl. No. 13/886,196, filed May 2, 2013 Non-Final Office Action dated Dec. 19, 2013.

PCT/US2011/066940 filed Dec. 22, 2011 International Search Report and Written Opinion dated Apr. 20, 2012.

* cited by examiner

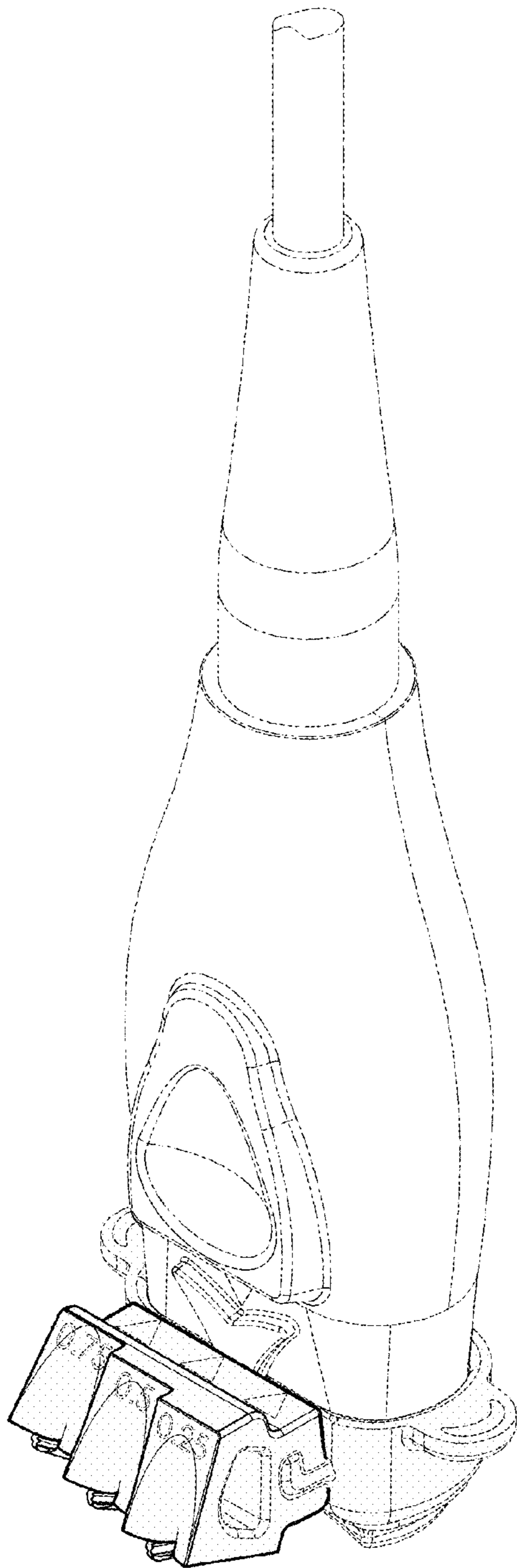


FIG. 1

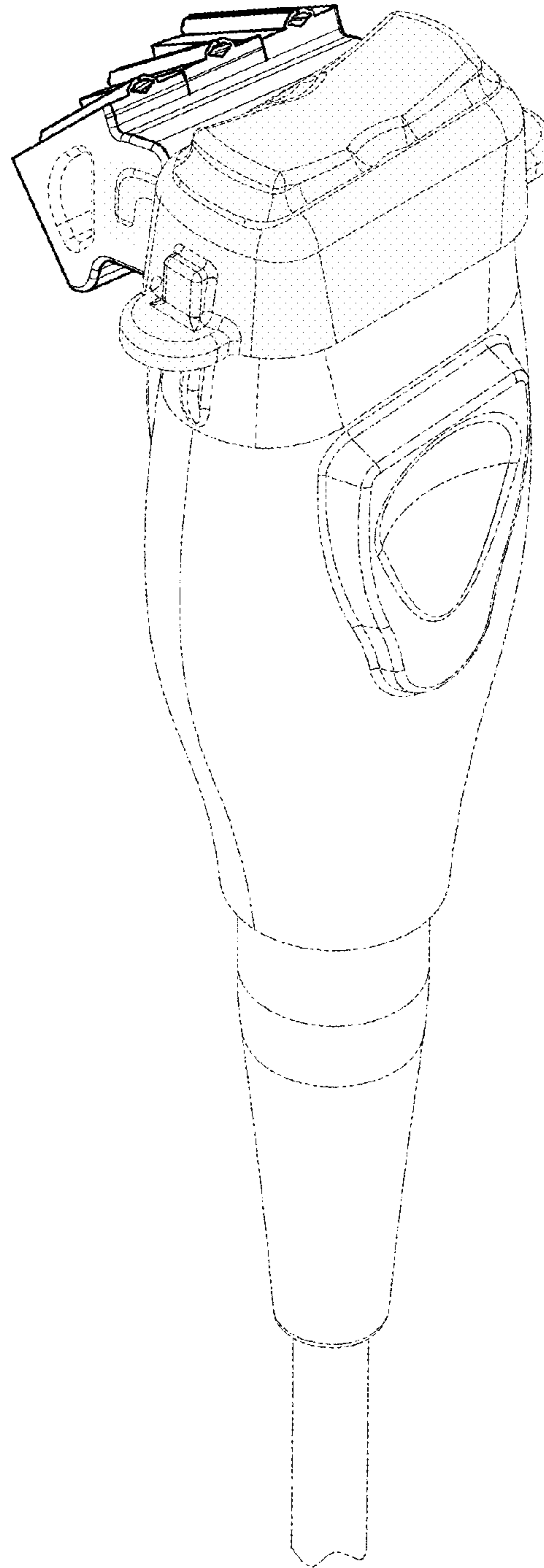


FIG. 2

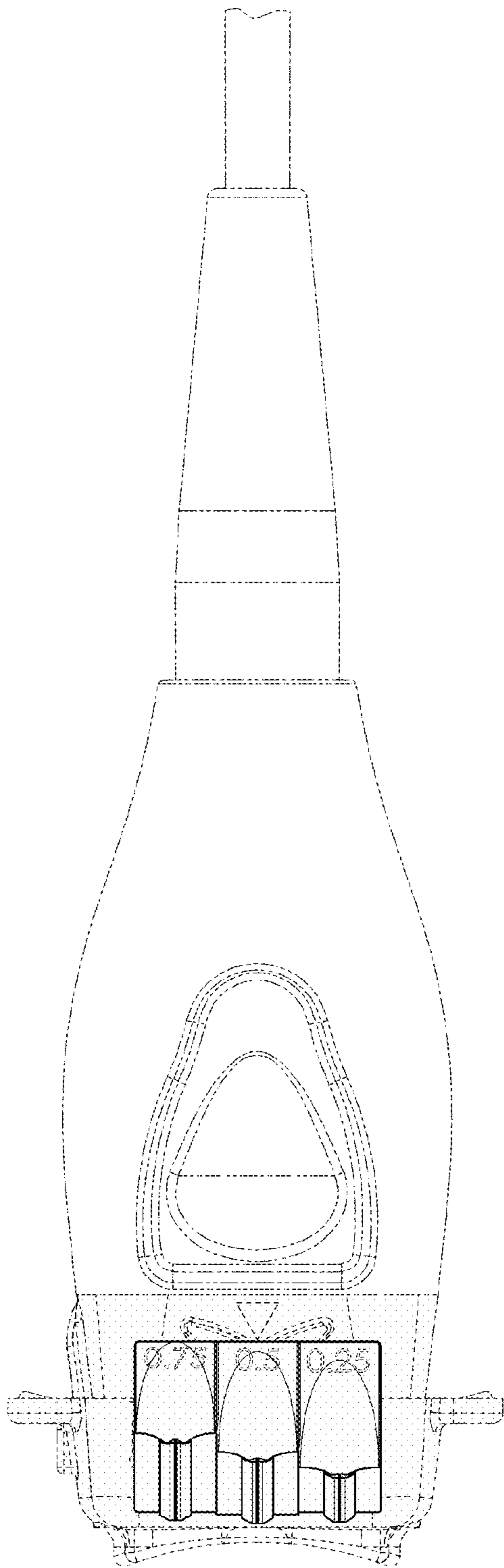


FIG. 3

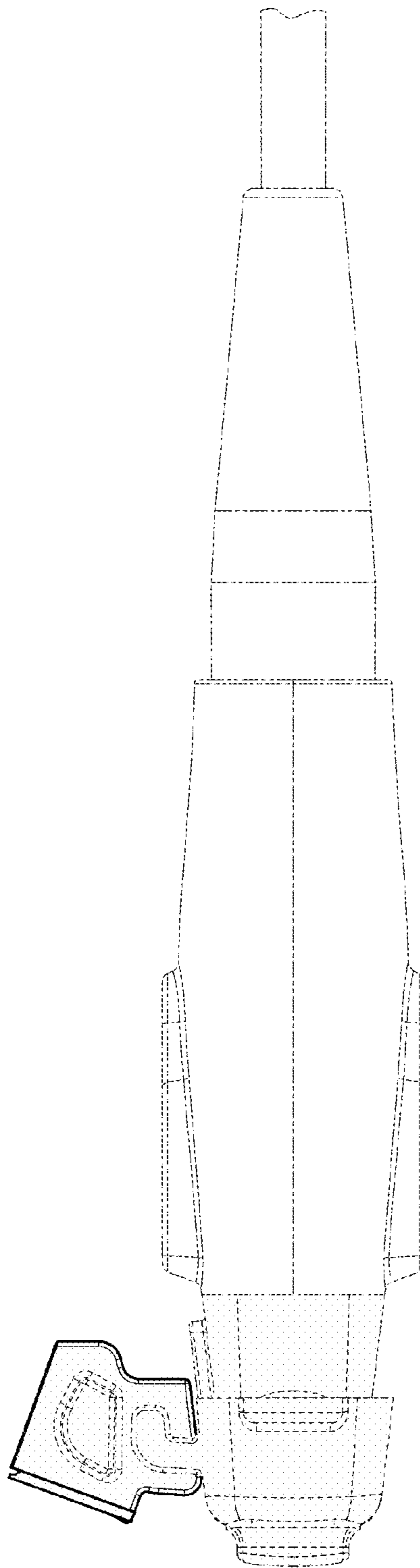


FIG. 4

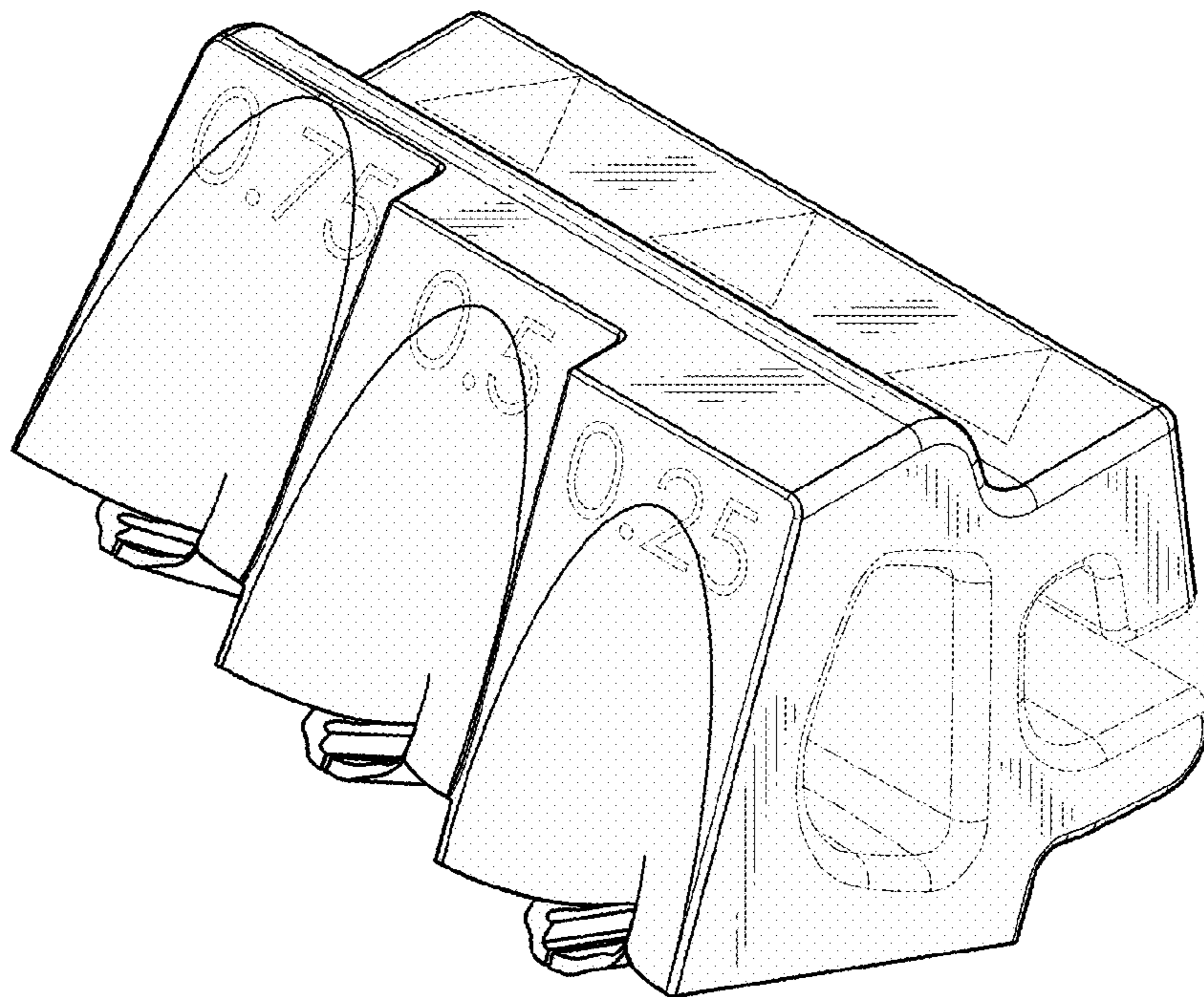


FIG. 5

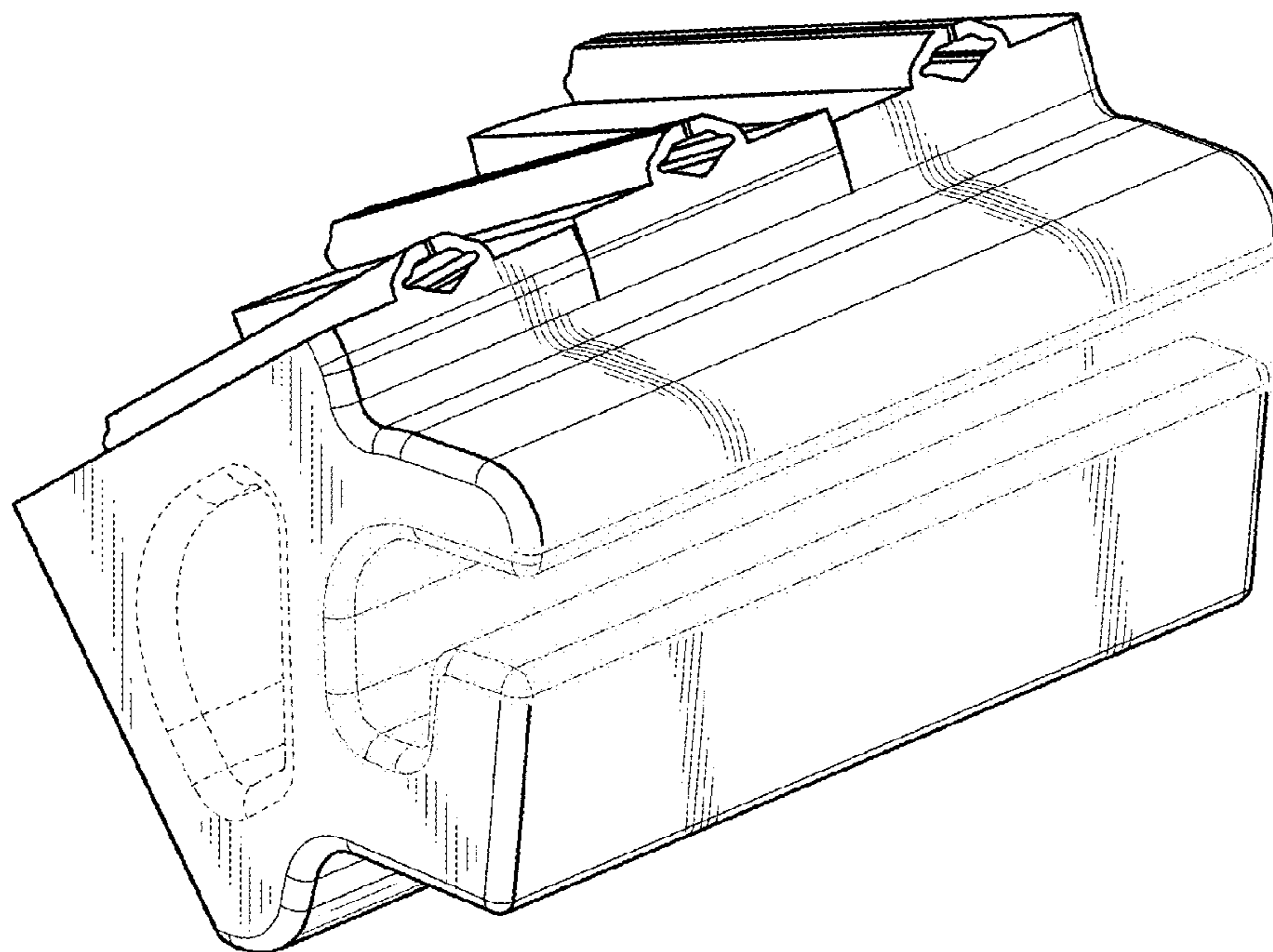


FIG. 6

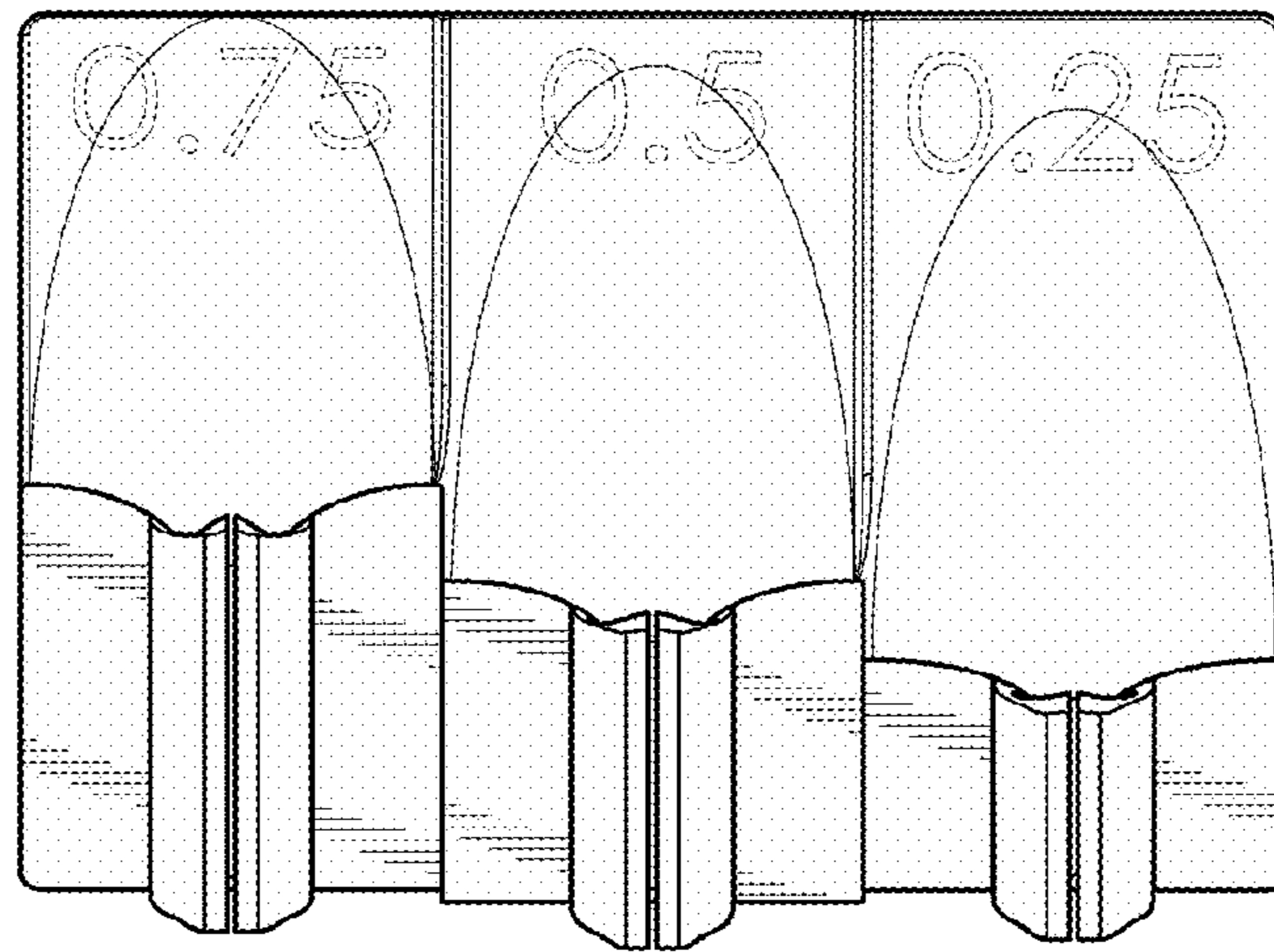


FIG. 7

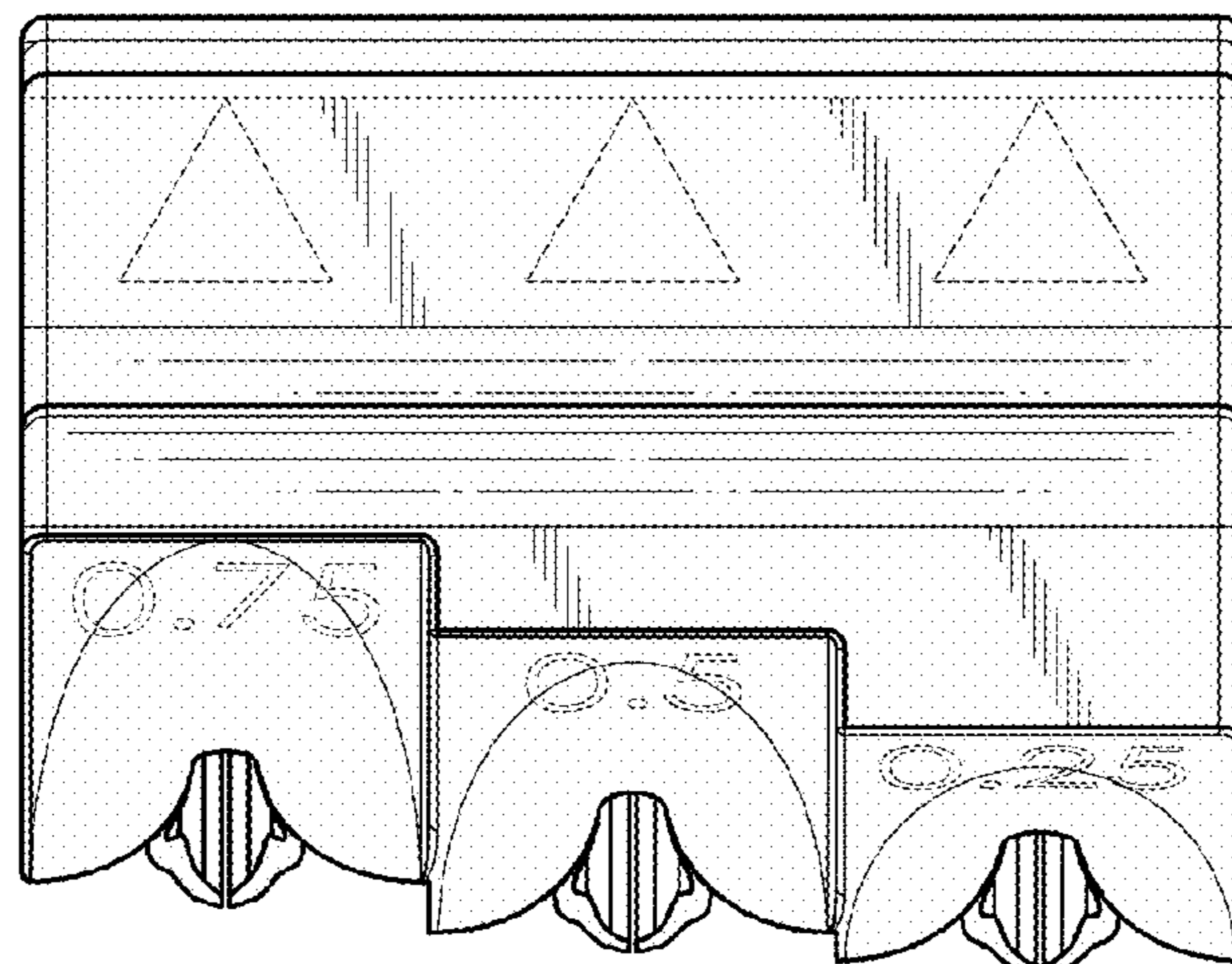


FIG. 8

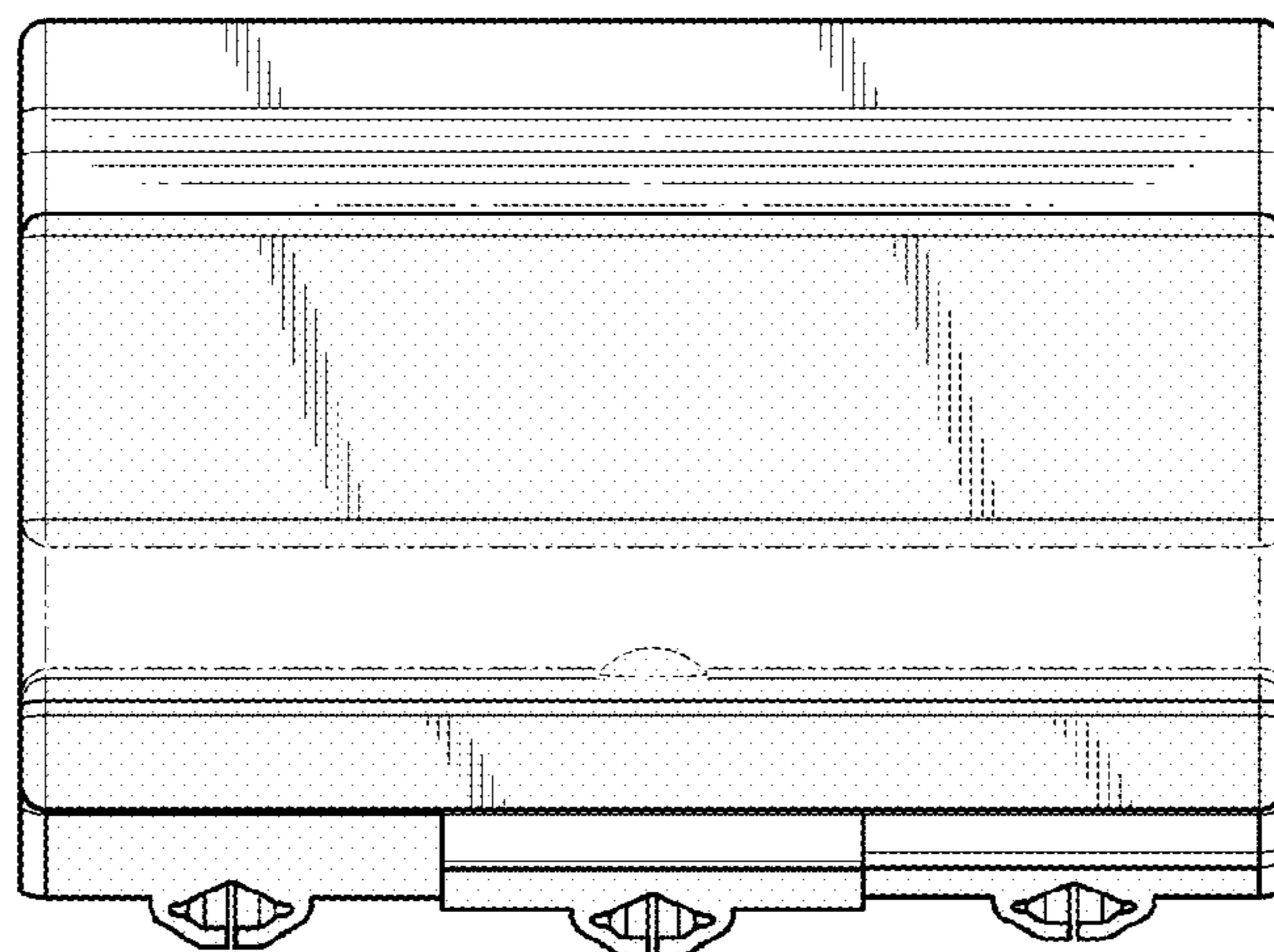


FIG. 9

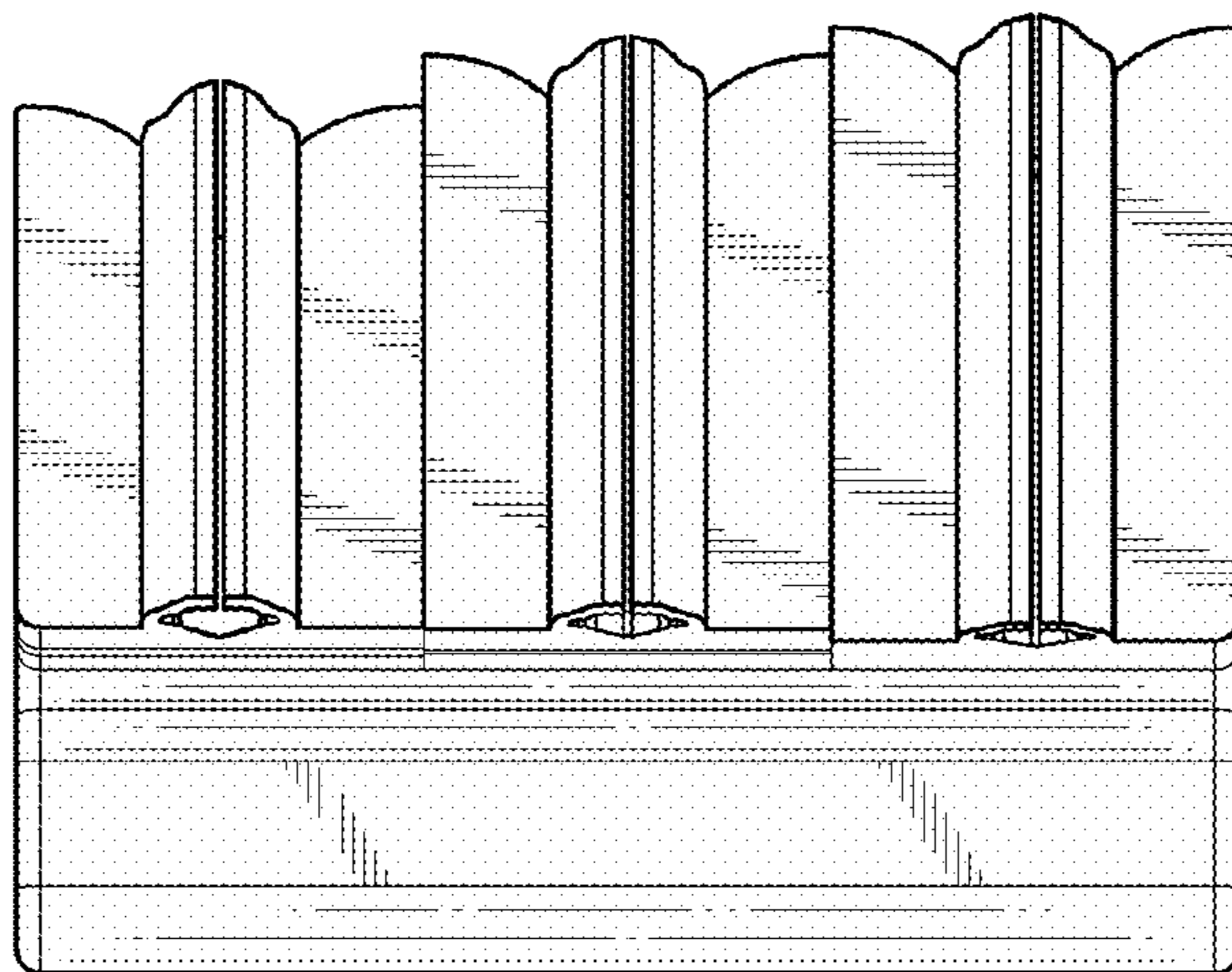


FIG. 10

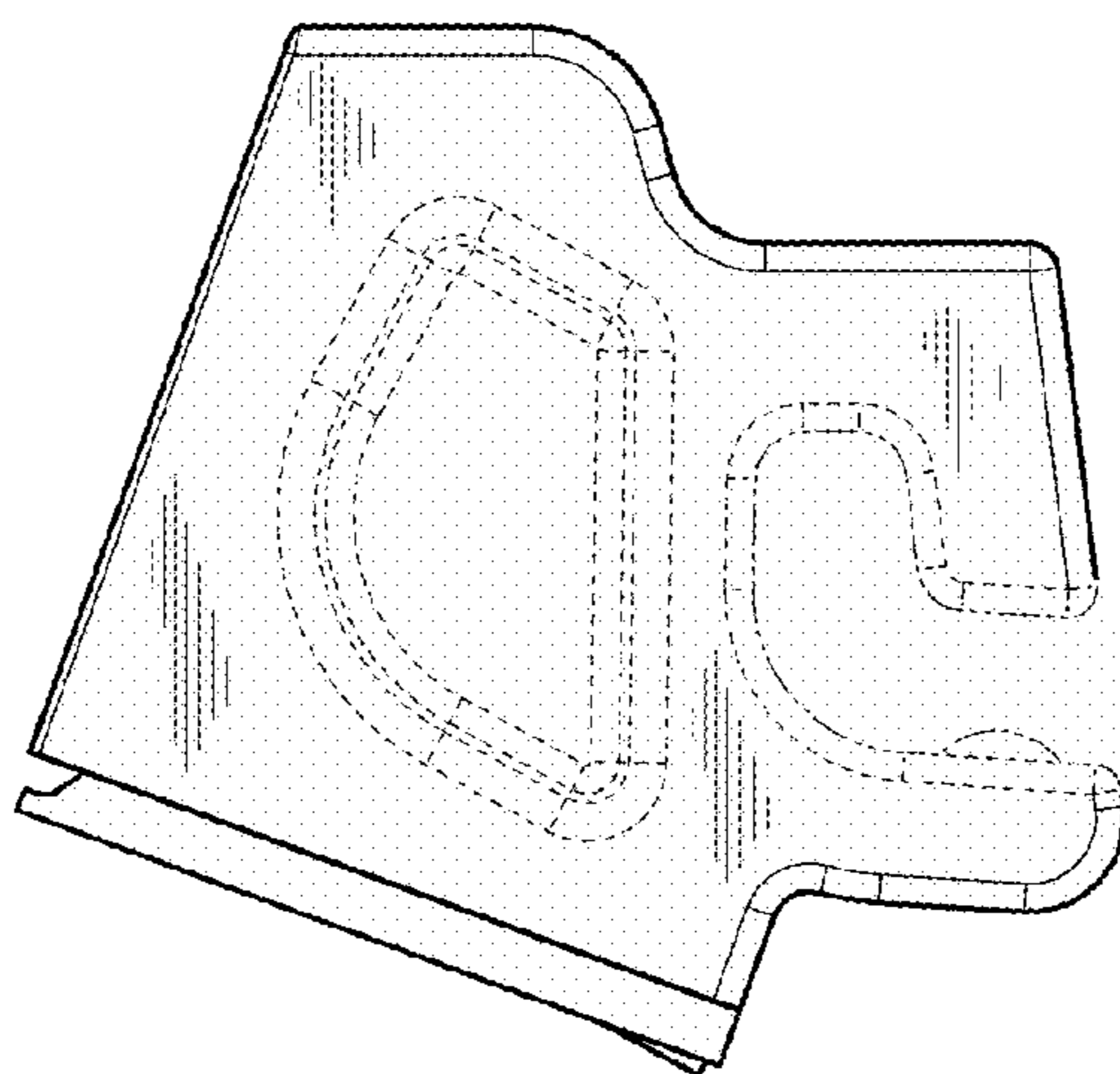


FIG. 11

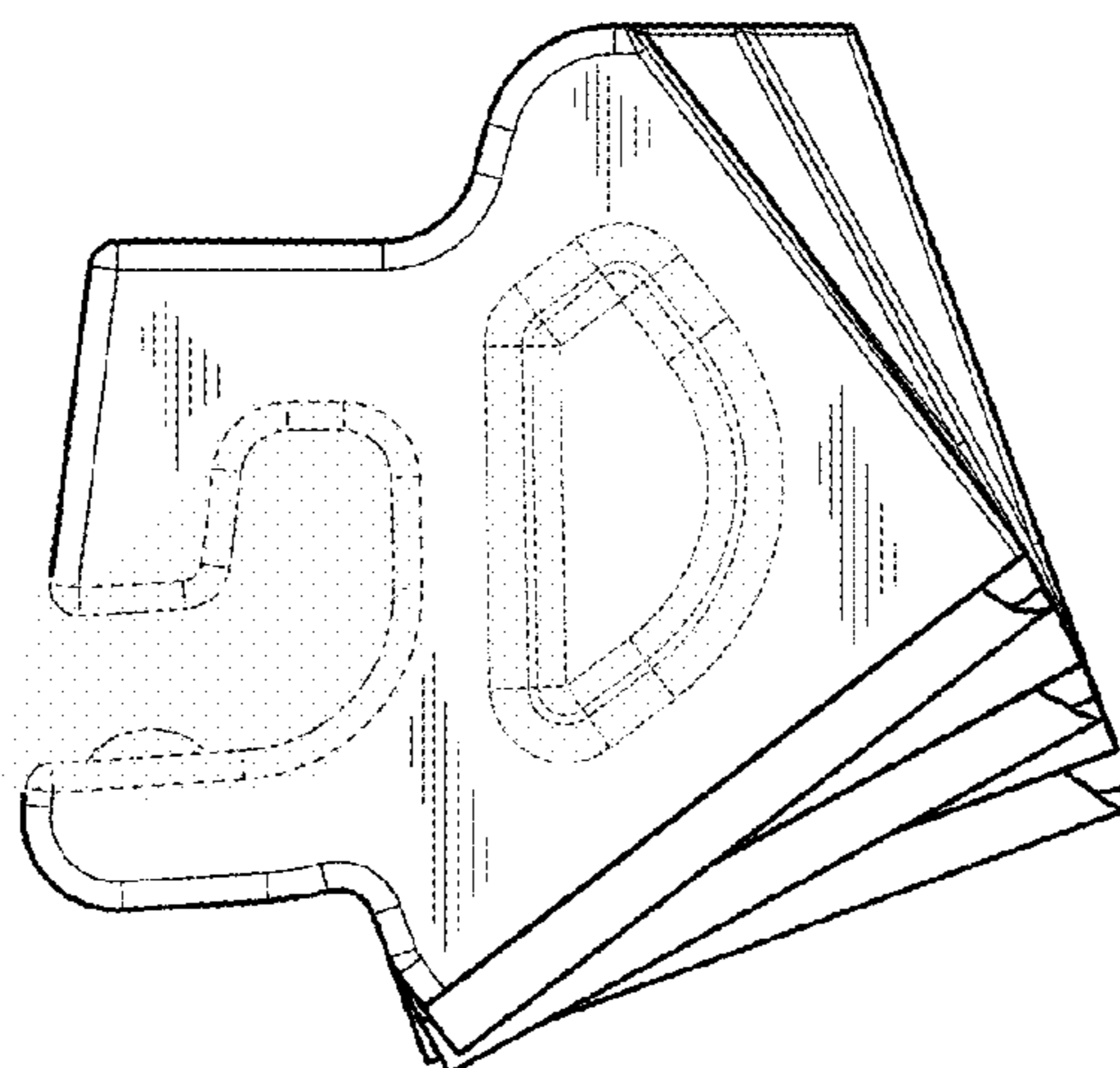


FIG. 12