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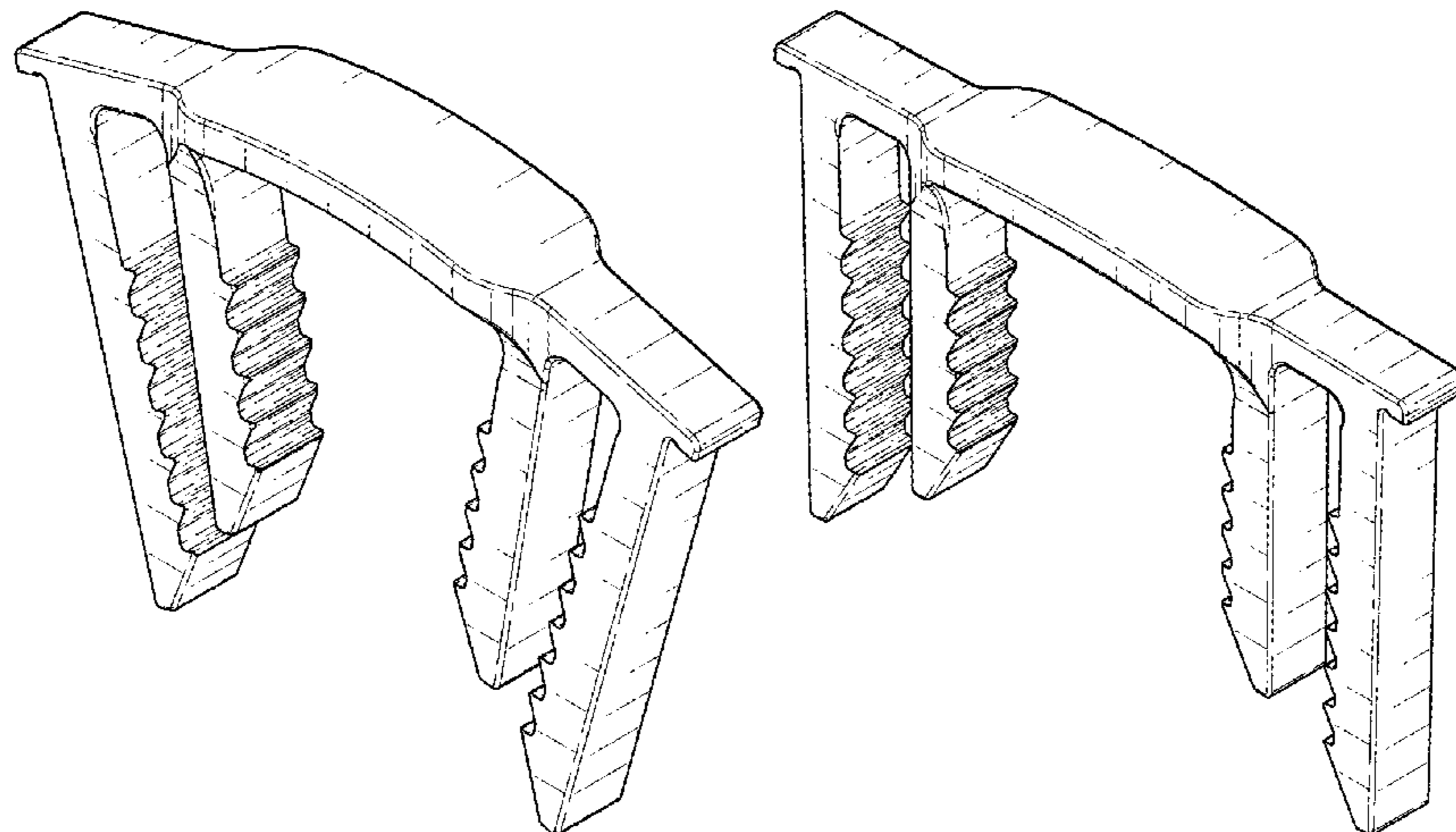
(12) **United States Design Patent** (10) **Patent No.:** **US D961,081 S**
Sayger et al. (45) **Date of Patent:** **** Aug. 16, 2022**

(54) **ORTHOPEDIC IMPLANT**
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(**) Term: **15 Years**
(21) Appl. No.: **29/758,800**
(22) Filed: **Nov. 18, 2020**
(51) **LOC (13) Cl.** **24-03**
(52) **U.S. Cl.**
USPC **D24/155**
(58) **Field of Classification Search**
USPC D24/155
CPC A61B 17/0642; A61B 17/0682; A61B 17/0644; F16B 15/06
See application file for complete search history.

4,848,328 A 7/1989 Laboureau et al.
4,852,558 A 8/1989 Outerbridge
4,874,122 A 10/1989 Froelich et al.
5,013,315 A 5/1991 Barrows
5,044,540 A 9/1991 Dulebohn
5,209,756 A 5/1993 Seedhom et al.
5,246,443 A 9/1993 Mai
5,258,012 A 11/1993 Luscombe et al.
5,352,229 A 10/1994 Goble et al.
5,395,372 A 3/1995 Holt et al.
5,425,489 A 6/1995 Shichman et al.
5,449,359 A 9/1995 Groiso
5,454,814 A 10/1995 Comte
5,456,400 A 10/1995 Shichman et al.
5,490,409 A 2/1996 Weber
5,498,749 A 3/1996 Heise et al.
5,520,700 A 5/1996 Beyar et al.
5,578,034 A 11/1996 Estes
5,607,425 A 3/1997 Rogozinski
5,628,740 A 5/1997 Mullane
5,634,926 A 6/1997 Jobe
5,660,188 A 8/1997 Groiso
5,662,655 A 9/1997 Laboureau et al.
5,716,357 A 2/1998 Rogozinski
5,749,564 A 5/1998 Malek
5,779,707 A 7/1998 Bertholet et al.
5,785,713 A 7/1998 Jobe
5,788,698 A 8/1998 Savornin
5,807,403 A 9/1998 Beyar et al.
5,853,414 A 12/1998 Groiso
5,904,682 A 5/1999 Rogozinski
5,931,839 A 8/1999 Medoff
5,947,968 A 9/1999 Rogozinski
5,947,999 A 9/1999 Groiso
5,972,000 A 10/1999 Beyar et al.
5,993,476 A 11/1999 Groiso
6,010,504 A 1/2000 Rogozinski
6,017,343 A 1/2000 Rogozinski
6,019,759 A 2/2000 Rogozinski
6,059,787 A 5/2000 Allen
6,089,435 A 7/2000 Malek
6,105,936 A 8/2000 Malek
6,120,503 A 9/2000 Michelson
6,179,840 B1 1/2001 Bowman
6,187,009 B1 2/2001 Herzog et al.
6,281,262 B1 8/2001 Shikinami
6,322,562 B1 11/2001 Wolter
6,334,446 B1 1/2002 Beyar
6,336,927 B2 1/2002 Rogozinski
6,348,054 B1 2/2002 Allen
6,364,884 B1 4/2002 Bowman et al.
6,379,354 B1 4/2002 Rogozinski
6,387,041 B1 5/2002 Harari et al.

(56) **References Cited**
U.S. PATENT DOCUMENTS

2,010,913 A 8/1935 Bruce
2,133,859 A 10/1938 Hawley
2,544,492 A 3/1951 Downing
2,811,073 A 10/1957 Klopstock
3,741,205 A 6/1973 Markolf et al.
3,939,828 A * 2/1976 Mohr A61B 17/68
606/221
4,263,903 A 4/1981 Griggs
4,278,091 A 7/1981 Borzone
4,415,111 A 11/1983 McHarrie et al.
4,438,769 A 3/1984 Pratt et al.
4,454,875 A 6/1984 Pratt et al.
4,484,570 A 11/1984 Sutter et al.
4,655,222 A 4/1987 Florez et al.
4,723,540 A 2/1988 Gilmer, Jr.
4,805,617 A 2/1989 Bedi et al.



US D961,081 S

6,402,765 B1	6/2002	Monassevitch et al.	7,934,630 B2	5/2011	Shelton, IV et al.
6,402,766 B2	6/2002	Bowman et al.	7,935,126 B2	5/2011	Orbay et al.
6,406,480 B1	6/2002	Beyar et al.	7,942,903 B2	5/2011	Moskowitz et al.
6,423,073 B2	7/2002	Bowman	7,951,180 B2	5/2011	Moskowitz et al.
6,436,110 B2	8/2002	Bowman et al.	7,954,686 B2	6/2011	Baxter, III et al.
6,447,517 B1	9/2002	Bowman	7,955,388 B2	6/2011	Jensen et al.
6,497,707 B1	12/2002	Bowman et al.	7,963,982 B2	6/2011	Kirschman
6,544,273 B1	4/2003	Harari et al.	7,966,799 B2	6/2011	Morgan et al.
6,575,984 B2	6/2003	Beyar	7,972,363 B2	7/2011	Moskowitz et al.
6,575,998 B2	6/2003	Beyar	8,016,867 B2	9/2011	Bowman
6,582,435 B2	6/2003	Wellisz et al.	8,043,346 B2	10/2011	Markworth
6,592,610 B2	7/2003	Beyar	8,100,953 B2	1/2012	White et al.
6,635,058 B2	10/2003	Beyar et al.	8,105,367 B2	1/2012	Austin et al.
6,652,531 B2	11/2003	Wellisz et al.	8,114,139 B2	2/2012	Sournac et al.
D484,032 S *	12/2003	Del Re D8/390	8,137,351 B2	3/2012	Prandi
6,663,642 B2	12/2003	Beyar et al.	8,141,762 B2	3/2012	Bedi et al.
6,679,885 B2	1/2004	Wellisz	8,172,886 B2	5/2012	Castaneda et al.
6,709,437 B2	3/2004	Wellisz	8,177,819 B2	5/2012	Huebner et al.
6,730,110 B1	5/2004	Harari et al.	8,182,518 B2	5/2012	Butler et al.
6,746,455 B2	6/2004	Beyar et al.	8,186,560 B2	5/2012	Hess et al.
6,783,531 B2	8/2004	Allen	8,205,781 B2	6/2012	Baxter, III et al.
6,896,684 B2	5/2005	Monassevitch et al.	8,220,690 B2	7/2012	Hess et al.
6,966,911 B2	11/2005	Groiso	8,231,627 B2	7/2012	Huebner et al.
6,974,461 B1	12/2005	Wolter	8,231,662 B2	7/2012	Huebner
7,044,951 B2	5/2006	Medoff et al.	8,241,326 B2	8/2012	Harari et al.
7,090,676 B2	8/2006	Huebner et al.	8,241,338 B2	8/2012	Castaneda et al.
7,147,640 B2	12/2006	Huebner et al.	8,252,032 B2	8/2012	White et al.
7,153,309 B2	12/2006	Huebner et al.	8,257,370 B2	9/2012	Moskowitz et al.
7,179,260 B2	2/2007	Gerlach et al.	8,262,711 B2	9/2012	Hess
7,189,237 B2	3/2007	Huebner	8,287,543 B2	10/2012	Medoff
7,214,232 B2	5/2007	Bowman et al.	8,317,070 B2	11/2012	Hueil et al.
7,226,408 B2	6/2007	Harai et al.	8,337,537 B2	12/2012	Pelo et al.
7,229,452 B2	6/2007	Kayan	8,348,129 B2	1/2013	Bedi et al.
7,235,079 B2	6/2007	Jensen et al.	8,348,131 B2	1/2013	Omaits et al.
7,250,054 B2	7/2007	Allen et al.	8,353,913 B2	1/2013	Moskowitz et al.
7,255,701 B2	8/2007	Allen et al.	8,360,297 B2	1/2013	Shelton, IV et al.
7,311,712 B2	12/2007	Dalton	8,365,976 B2	2/2013	Hess et al.
7,326,212 B2	2/2008	Huebner	8,382,807 B2	2/2013	Austin et al.
D574,956 S	8/2008	Grim	8,393,517 B2	3/2013	Milo
7,438,209 B1	10/2008	Hess et al.	8,398,717 B2	3/2013	Kleinman
7,473,255 B2	1/2009	McGarity et al.	8,413,872 B2	4/2013	Patel
7,473,257 B2	1/2009	Knopfle et al.	8,425,574 B2	4/2013	Huebner et al.
D586,915 S *	2/2009	Grim D24/145	8,425,575 B2	4/2013	Huebner et al.
7,500,979 B2	3/2009	Hueil et al.	8,425,576 B2	4/2013	Anderson et al.
7,506,791 B2	3/2009	Omaits et al.	8,430,292 B2	4/2013	Patel et al.
7,537,596 B2	5/2009	Jensen	8,449,561 B2	5/2013	Bowman
7,537,603 B2	5/2009	Huebner et al.	8,453,908 B2	6/2013	Bedi et al.
7,537,604 B2	5/2009	Huebner	8,464,923 B2	6/2013	Shelton, IV
7,556,647 B2	7/2009	Drews et al.	8,475,504 B2	7/2013	Gillard et al.
7,562,105 B2	7/2009	Liu et al.	8,485,412 B2	7/2013	Shelton, IV et al.
7,578,825 B2	8/2009	Huebner	8,486,116 B2	7/2013	Heilman
7,604,151 B2	10/2009	Hess et al.	8,496,693 B2	7/2013	Robinson
7,618,441 B2	11/2009	Groiso	8,499,993 B2	8/2013	Shelton, IV et al.
7,651,498 B2	1/2010	Shifrin et al.	8,518,090 B2	8/2013	Huebner et al.
7,665,647 B2	2/2010	Shelton, IV et al.	8,523,919 B2	9/2013	Huebner et al.
7,669,746 B2	3/2010	Shelton, IV	8,540,129 B2	9/2013	Baxter, III et al.
7,669,747 B2	3/2010	Weisenburgh, II et al.	8,540,133 B2	9/2013	Bedi et al.
7,673,781 B2	3/2010	Swayze et al.	D691,720 S	10/2013	Cheney et al.
7,673,782 B2	3/2010	Hess et al.	8,545,540 B2	10/2013	Castaneda et al.
7,704,251 B2	4/2010	Huebner et al.	8,561,870 B2	10/2013	Baxter, III et al.
7,704,279 B2	4/2010	Moskowitz et al.	8,567,656 B2	10/2013	Shelton, IV et al.
7,717,945 B2	5/2010	Jensen et al.	8,574,270 B2	11/2013	Hess et al.
7,735,703 B2	6/2010	Morgan et al.	8,584,853 B2	11/2013	Knight et al.
7,740,634 B2	6/2010	Orbay et al.	8,585,743 B2	11/2013	Ampuero et al.
7,766,209 B2	8/2010	Baxter, III et al.	8,590,762 B2	11/2013	Hess et al.
7,766,948 B1	8/2010	Leung	8,596,514 B2	12/2013	Miller et al.
7,771,433 B2	8/2010	Orbay et al.	8,603,161 B2	12/2013	Drews et al.
7,794,475 B2	9/2010	Hess et al.	8,636,187 B2	1/2014	Hueil et al.
7,832,612 B2	11/2010	Baxter, III et al.	8,652,142 B2	2/2014	Geissler
7,846,188 B2	12/2010	Moskowitz et al.	8,652,180 B2	2/2014	Federspiel et al.
7,857,186 B2	12/2010	Baxter, III et al.	8,657,820 B2	2/2014	Kubiak et al.
7,857,836 B2	12/2010	Huebner et al.	8,668,130 B2	3/2014	Hess et al.
7,867,265 B2	1/2011	Beutter	8,672,208 B2	3/2014	Hess et al.
7,905,381 B2	3/2011	Baxter, III et al.	8,672,828 B2	3/2014	Harari et al.
7,905,910 B2	3/2011	Gerlach et al.	8,679,123 B2	3/2014	Kinmon et al.
7,909,858 B2	3/2011	Gerlach et al.	D705,930 S	5/2014	Cheney
7,914,532 B2	3/2011	Shaver et al.	8,720,766 B2	5/2014	Hess et al.
7,918,879 B2	4/2011	Yeung et al.	8,727,197 B2	5/2014	Hess et al.
7,927,332 B2	4/2011	Huebner et al.	8,728,128 B2	5/2014	Hawkes

DE	20001879	3/2000
EP	0092383	10/1983
EP	0682920	11/1995
EP	0768062	4/1997
EP	0826340	3/1998
EP	0857462	8/1998
EP	1870042	12/2007
FR	2628312	9/1989
FR	2694696	2/1994
FR	2725126	4/1996
FR	2874166	2/2006
FR	2874316	2/2006
FR	2927527	8/2009
FR	2935256	3/2010
FR	2980966	4/2013
GB	2471648	1/2011
WO	WO1992017122	10/1992
WO	WO2001056489	8/2001
WO	WO2008129061	10/2008
WO	WO2009091770	7/2009
WO	WO2010004602	1/2010
WO	WO2013186205	12/2013
WO	WO2015004391	1/2015

OTHER PUBLICATIONS

DePuy Synthes, BME Elite Implant Technique Overview, (Oct. 25, 2017), 2 pp.

DePuy Synthes, BME Elite Continuous Compression Implant, (May 2017), 3 pp.

Medshape, Inc., DynaClip Bone Fixation System Procedure Guide, (2018, Rev. May 2020), 2 pp.

Medshape, Inc., DynaClip Forte Bone Fixation System Product Information Sheet, (May 2020), 2 pp.

* cited by examiner

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(57) **CLAIM**

The ornamental design for an orthopedic implant, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of an orthopedic implant in a first configuration.

FIG. 2 is a bottom perspective view of the orthopedic implant of FIG. 1 in the first configuration.

FIG. 3 is a front view of the orthopedic implant of FIG. 1 in the first configuration. A rear view of the orthopedic implant of FIG. 1 in the first configuration is the same as the front view of FIG. 3.

FIG. 4 is a left view of the orthopedic implant of FIG. 1 in the first configuration. A right view of the orthopedic implant of FIG. 1 in the first configuration is the same as the left view of FIG. 4.

FIG. 5 is a top view of the orthopedic implant of FIG. 1 in the first configuration.

FIG. 6 is a bottom view of the orthopedic implant of FIG. 1 in the first configuration.

FIG. 7 is a top perspective view of the orthopedic implant of FIGS. 1-6 in a second configuration.

FIG. 8 is a bottom perspective view of the orthopedic implant of FIG. 7 in the second configuration.

FIG. 9 is a front view of the orthopedic implant of FIG. 7 in the second configuration. A rear view of the orthopedic implant of FIG. 7 in the second configuration is the same as the front view of FIG. 9.

FIG. 10 is a left view of the orthopedic implant of FIG. 7 in the second configuration. A right view of the orthopedic implant of FIG. 7 in the second configuration is the same as the left view of FIG. 10.

FIG. 11 is a top view of the orthopedic implant of FIG. 7 in the second configuration.

FIG. 12 is a bottom view of the orthopedic implant of FIG. 7 in the second configuration.

FIG. 13 is a top perspective view of another orthopedic implant in a first configuration.

FIG. 14 is a bottom perspective view of the orthopedic implant of FIG. 13 in the first configuration.

FIG. 15 is a front view of the orthopedic implant of FIG. 13 in the first configuration. A rear view of the orthopedic implant of FIG. 13 in the first configuration is the same as the front view of FIG. 15.

FIG. 16 is a left view of the orthopedic implant of FIG. 13 in the first configuration. A right view of the orthopedic implant of FIG. 13 in the first configuration is the same as the left view of FIG. 16.

FIG. 17 is a top view of the orthopedic implant of FIG. 13 in the first configuration.

FIG. 18 is a bottom view of the orthopedic implant of FIG. 13 in the first configuration.

FIG. 19 is a top perspective view of the orthopedic implant of FIGS. 13-18 in a second configuration.

FIG. 20 is a bottom perspective view of the orthopedic implant of FIG. 19 in the second configuration.

FIG. 21 is a front view of the orthopedic implant of FIG. 19 in the second configuration. A rear view of the orthopedic implant of FIG. 19 in the second configuration is the same as the front view of FIG. 21.

FIG. 22 is a left view of the orthopedic implant of FIG. 19 in the second configuration. A right view of the orthopedic implant of FIG. 19 in the second configuration is the same as the left view of FIG. 22.

FIG. 23 is a top view of the orthopedic implant of FIG. 19 in the second configuration; and,

FIG. 24 is a bottom view of the orthopedic implant of FIG. 19 in the second configuration.

1 Claim, 8 Drawing Sheets

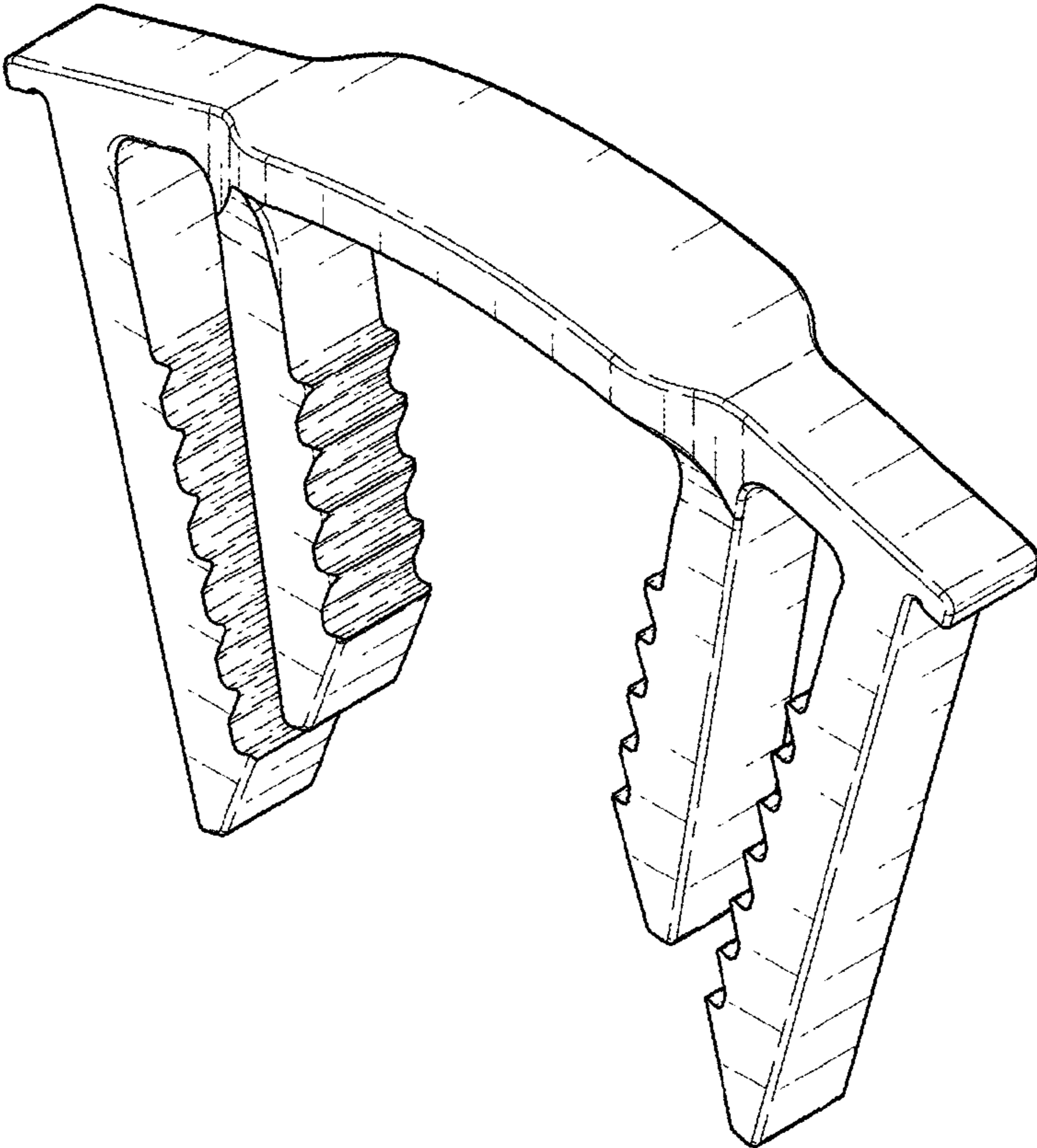


FIG. 1

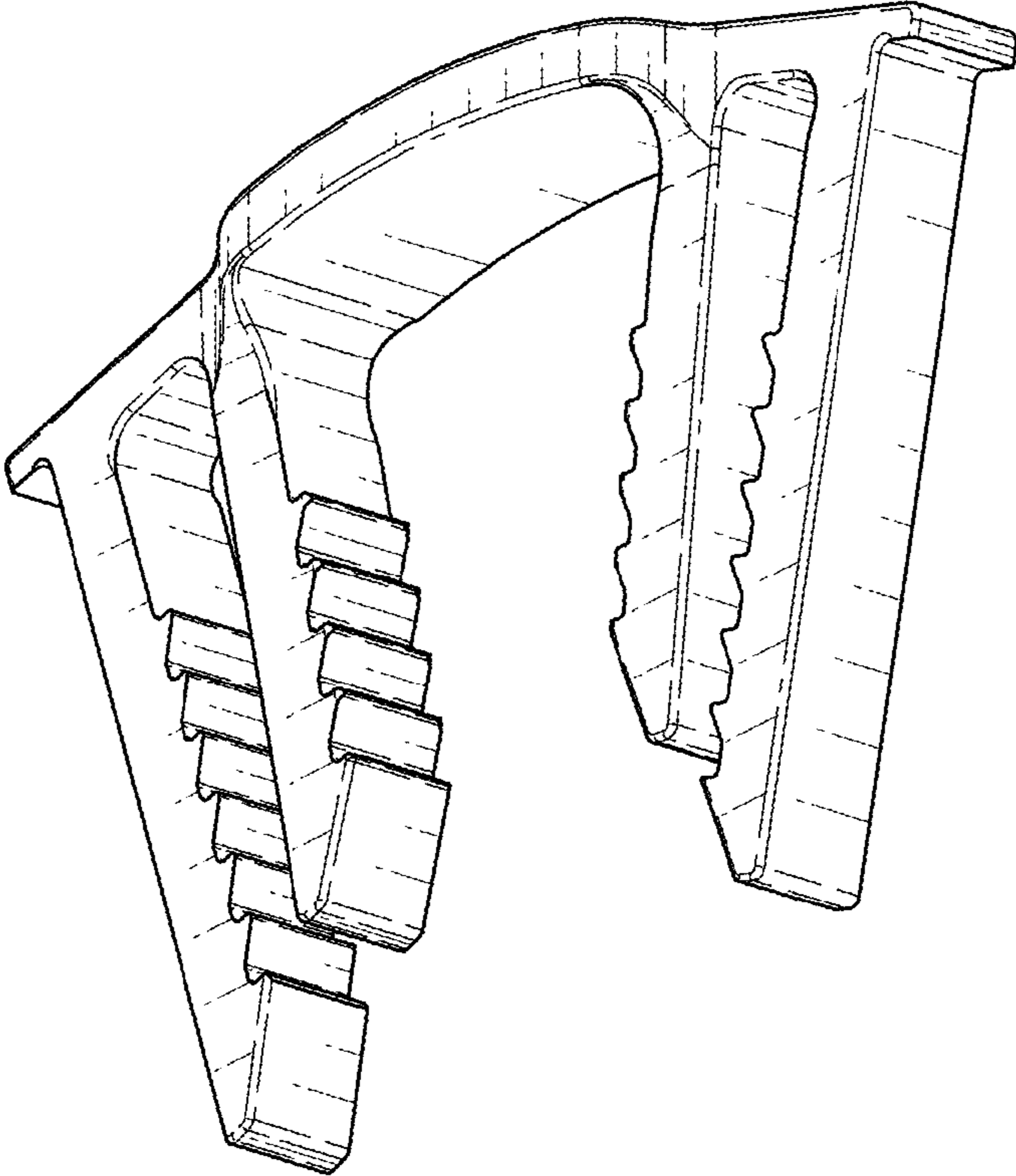


FIG. 2

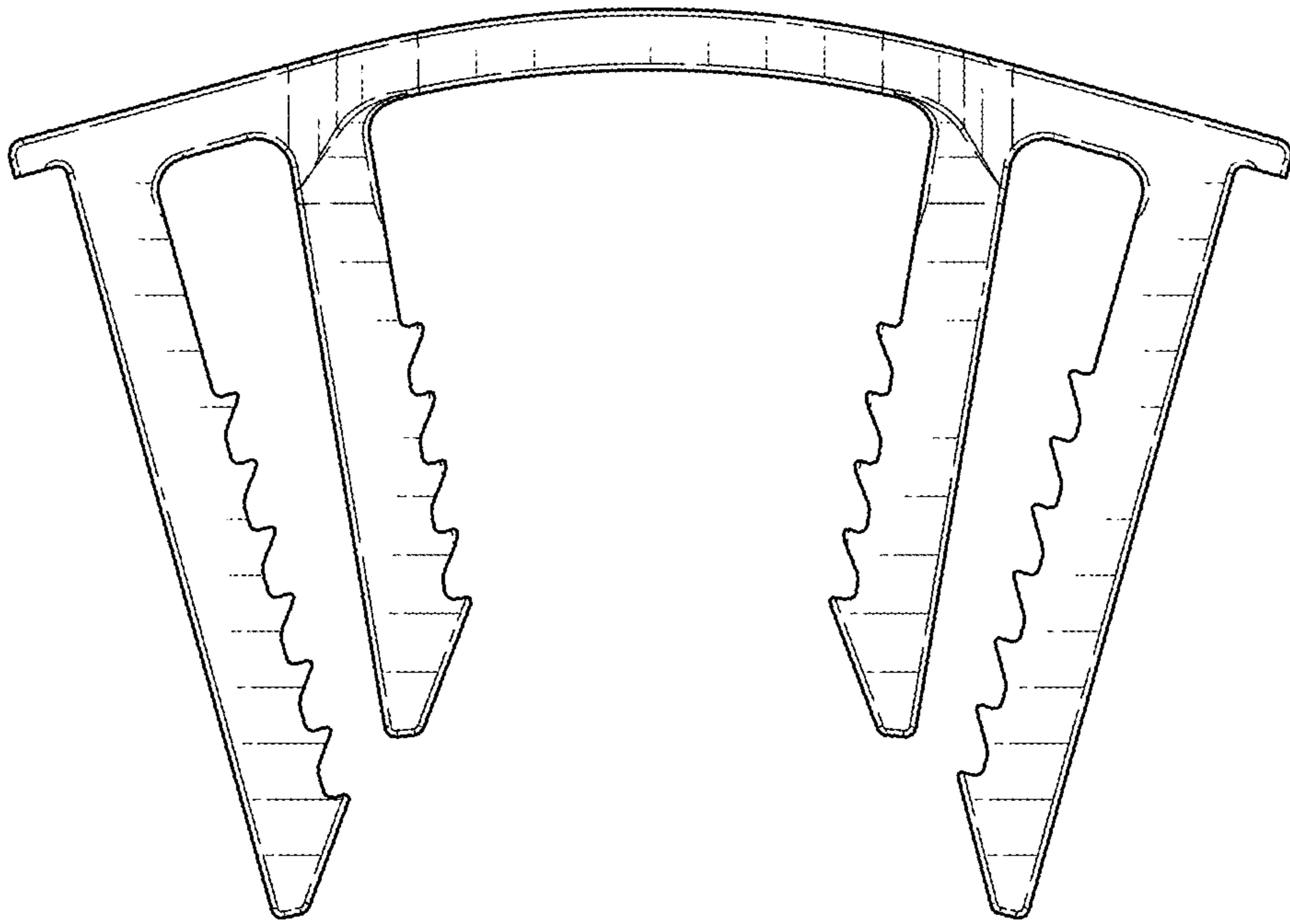


FIG. 3

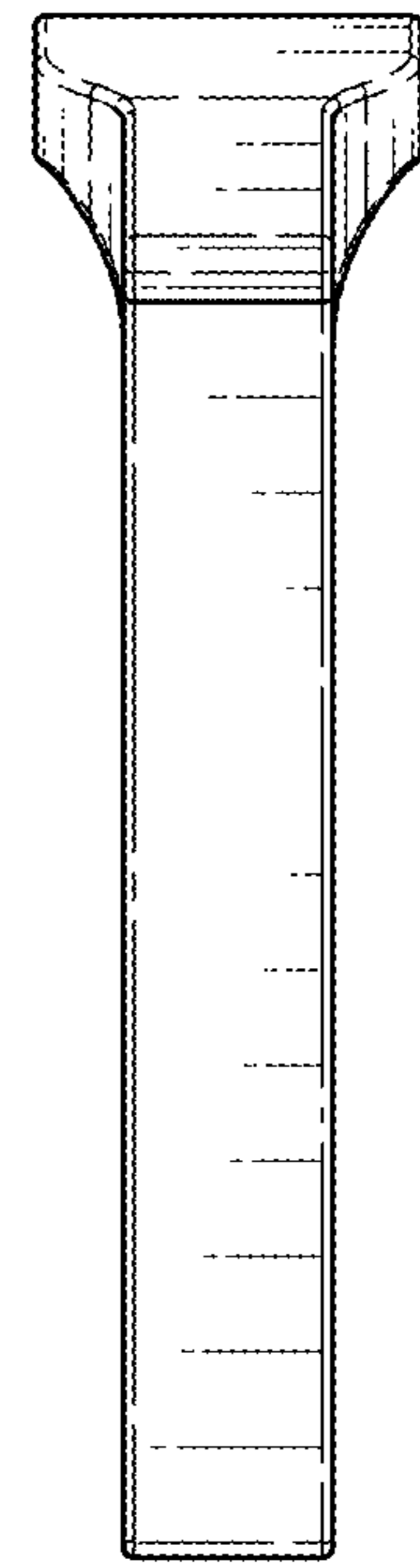


FIG. 4

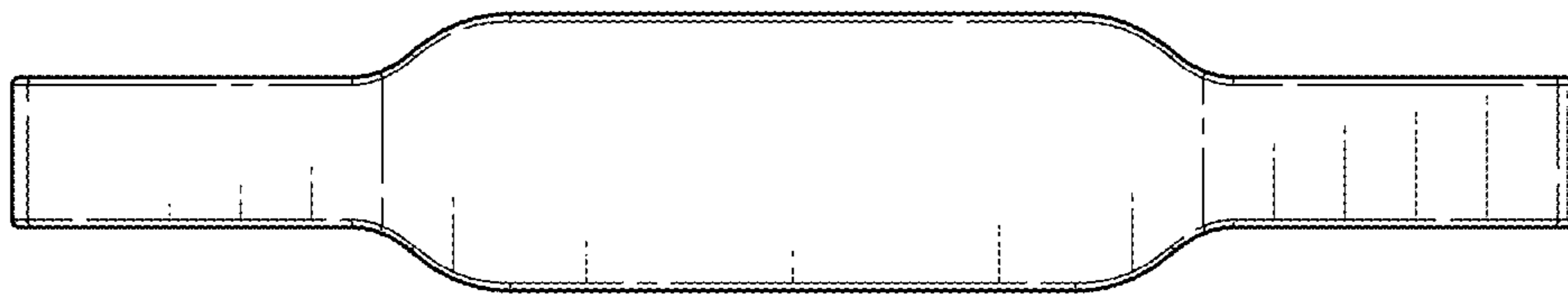


FIG. 5

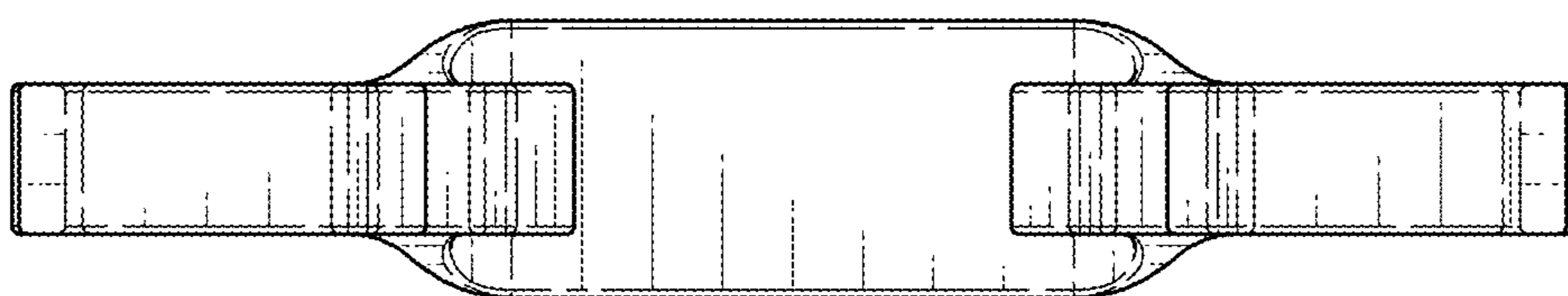


FIG. 6

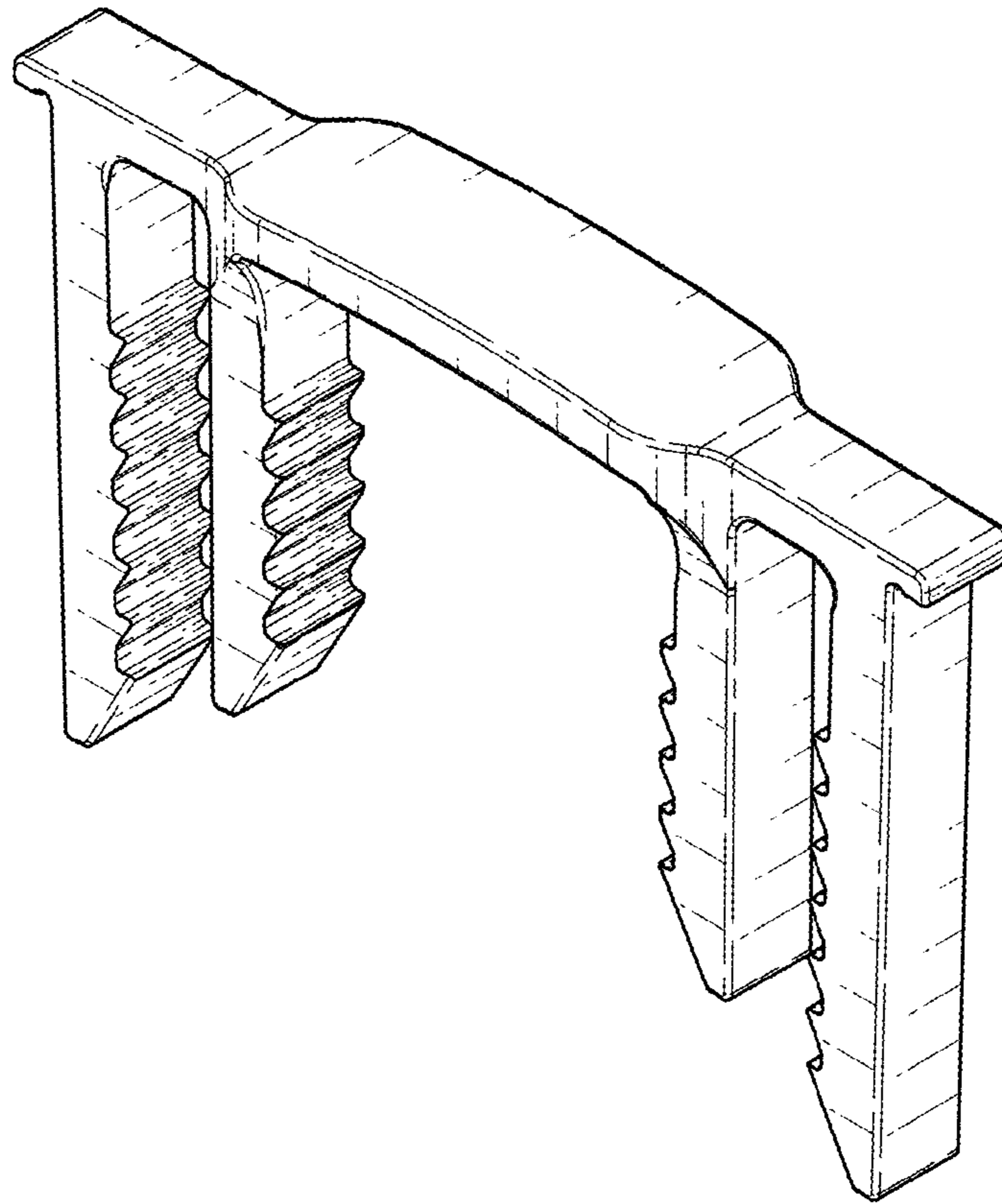


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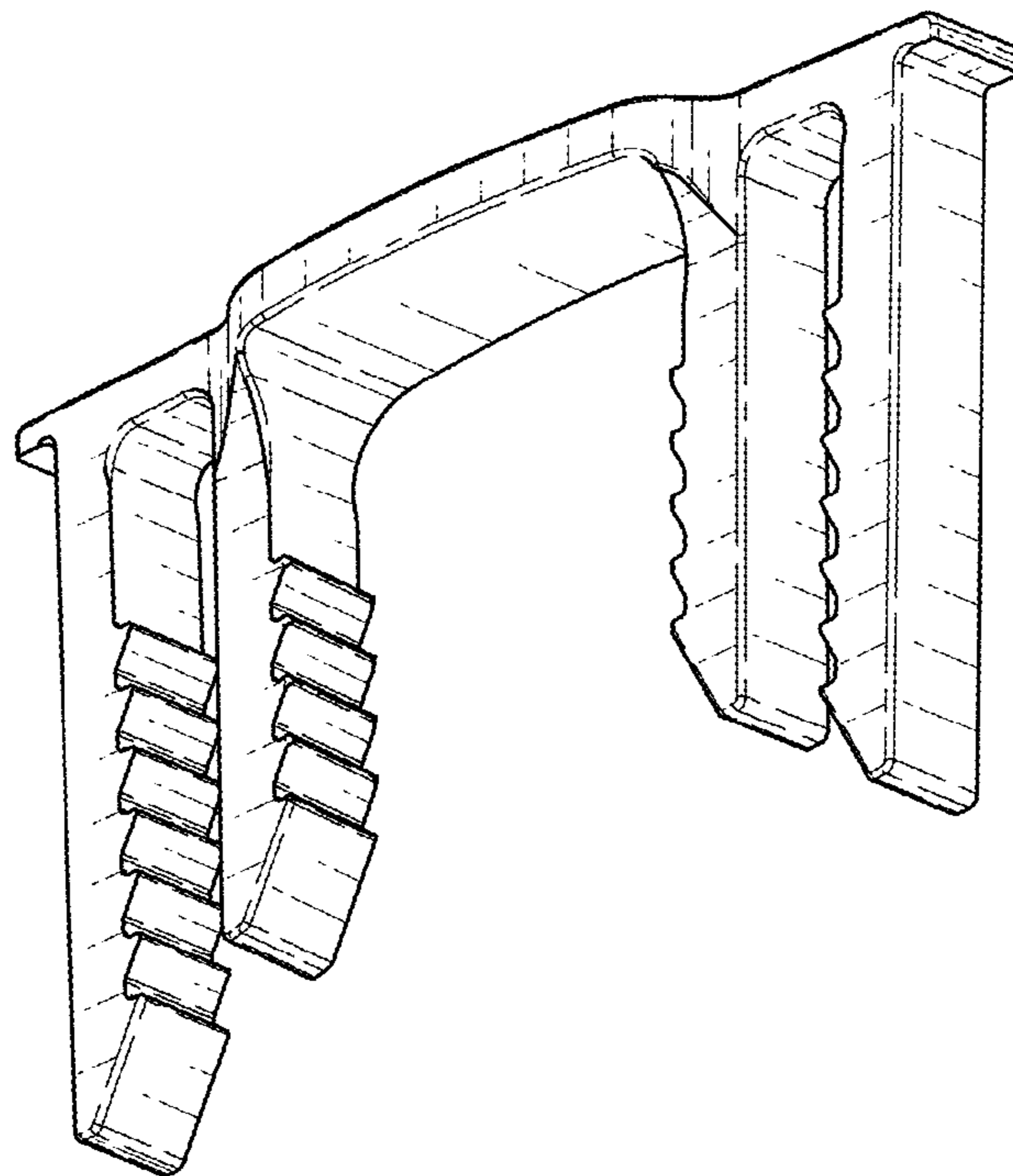


FIG. 8

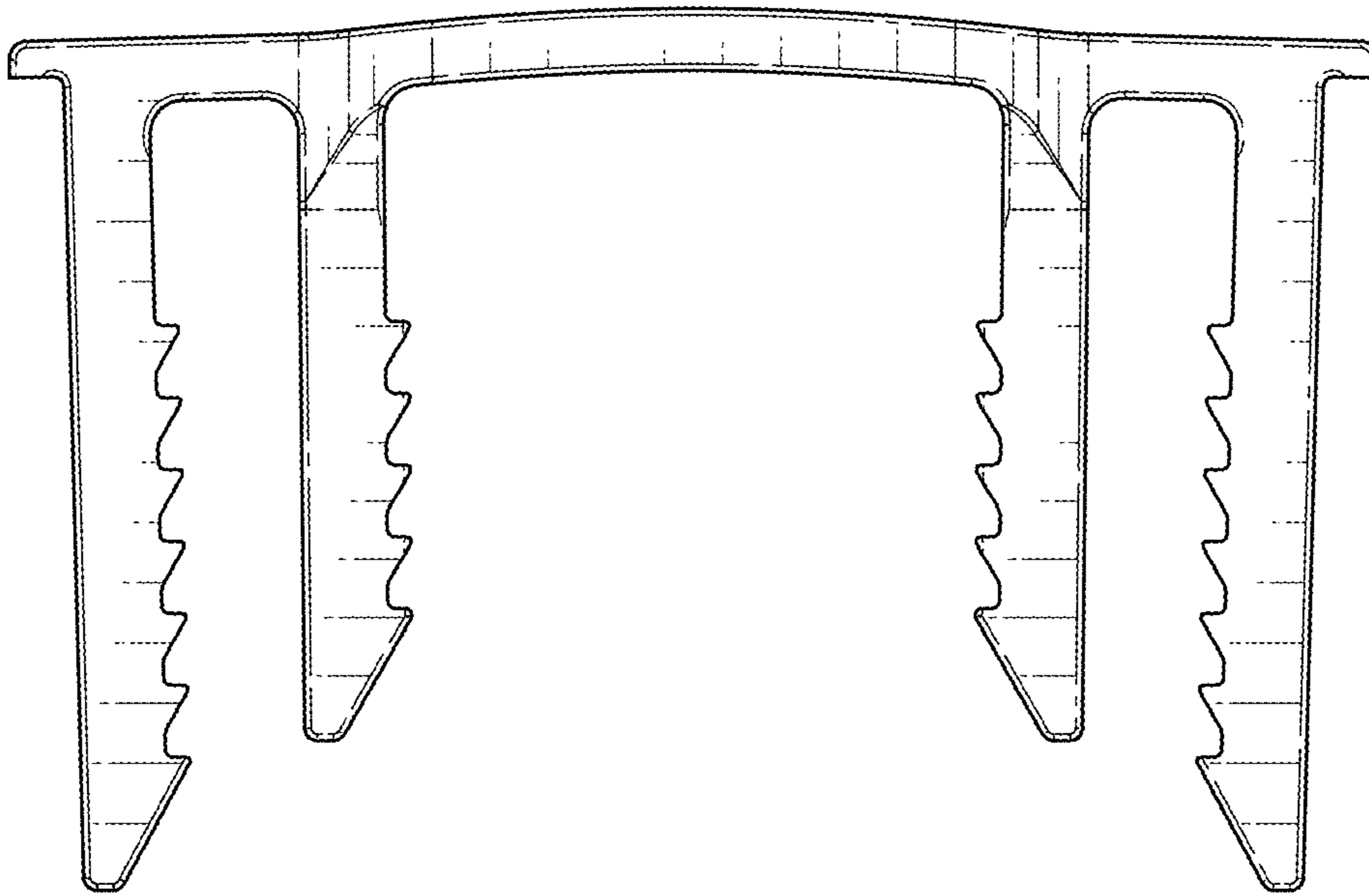


FIG. 9

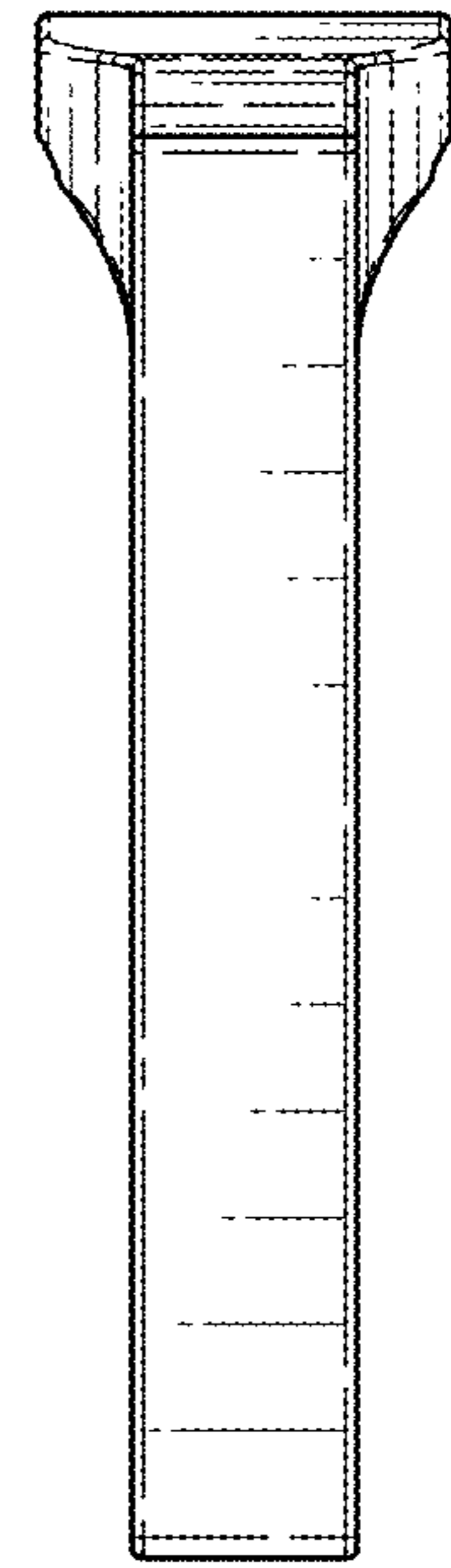


FIG. 10

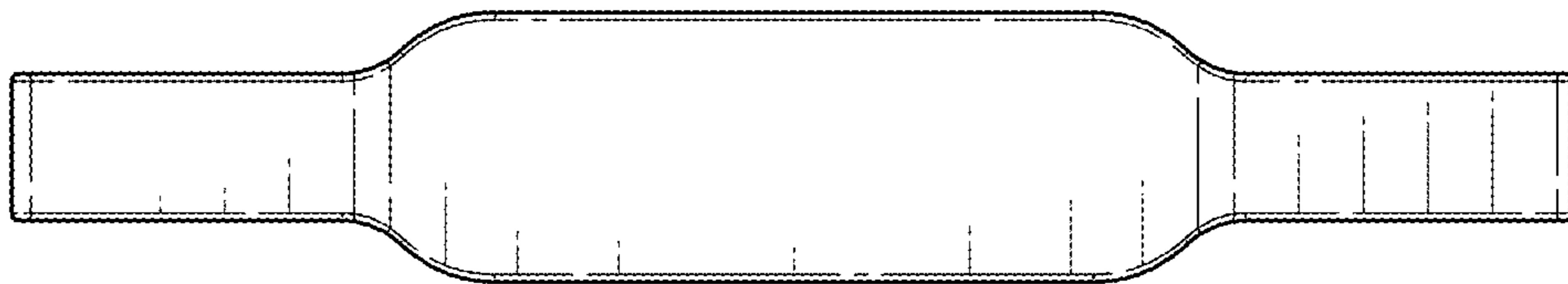


FIG. 11

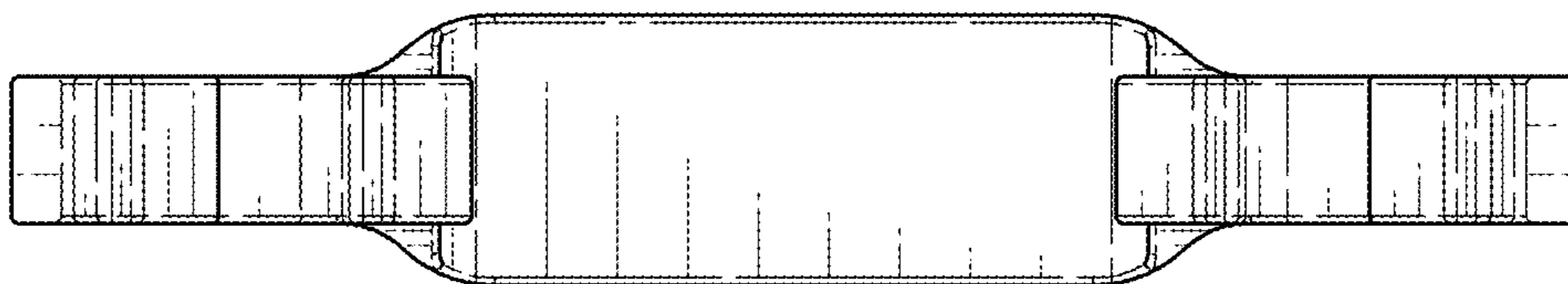


FIG. 12

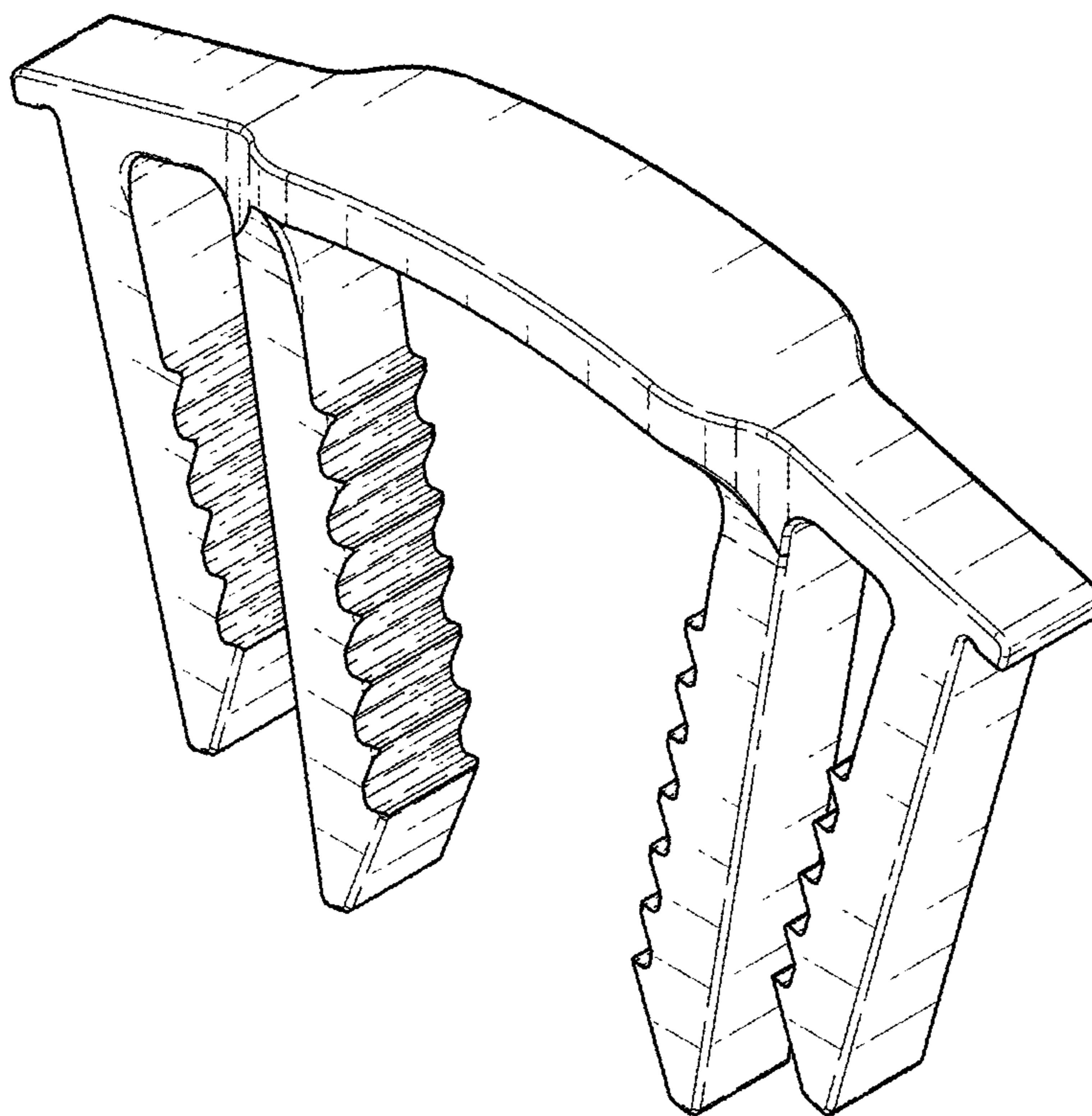


FIG. 13

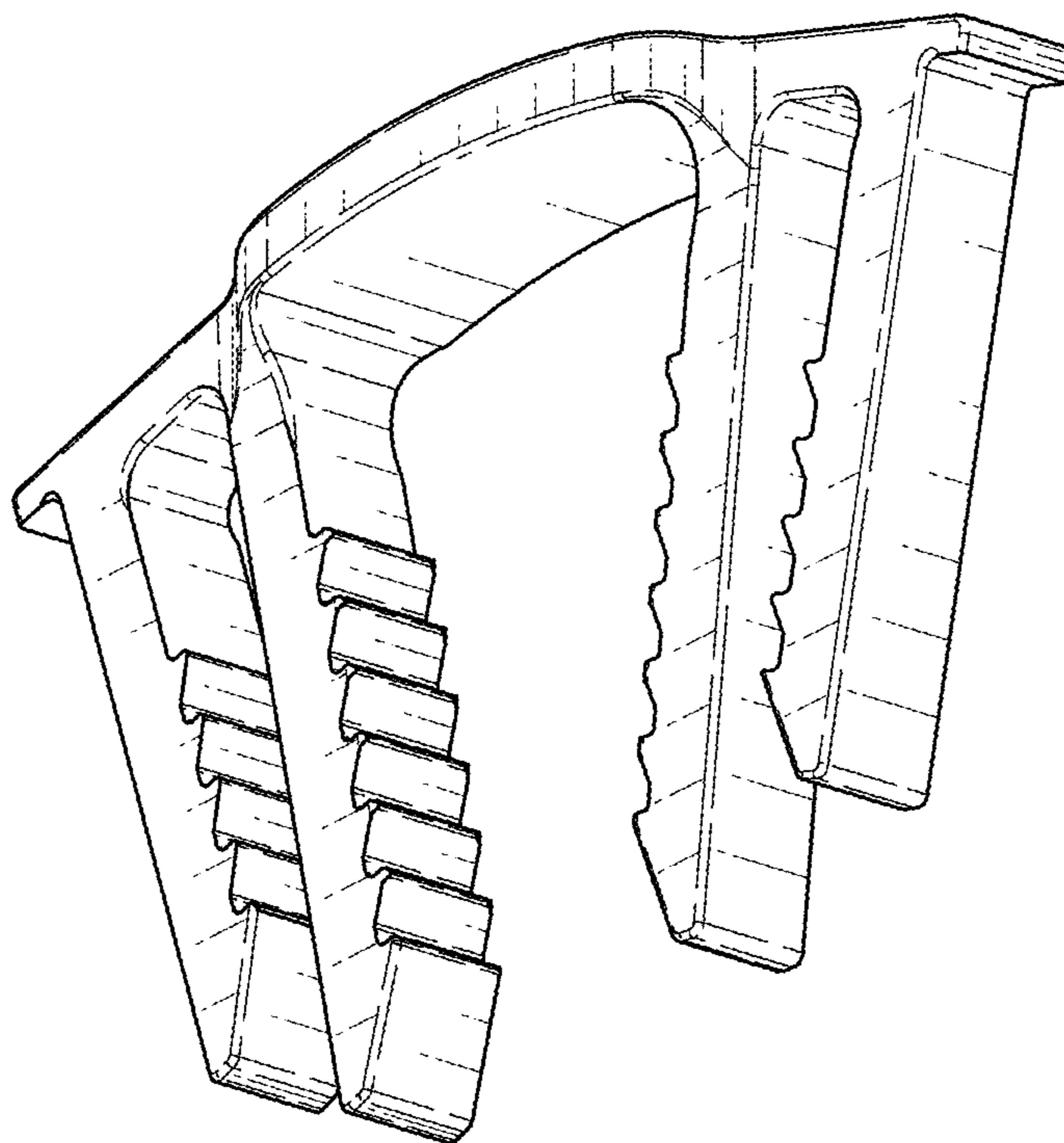


FIG. 14

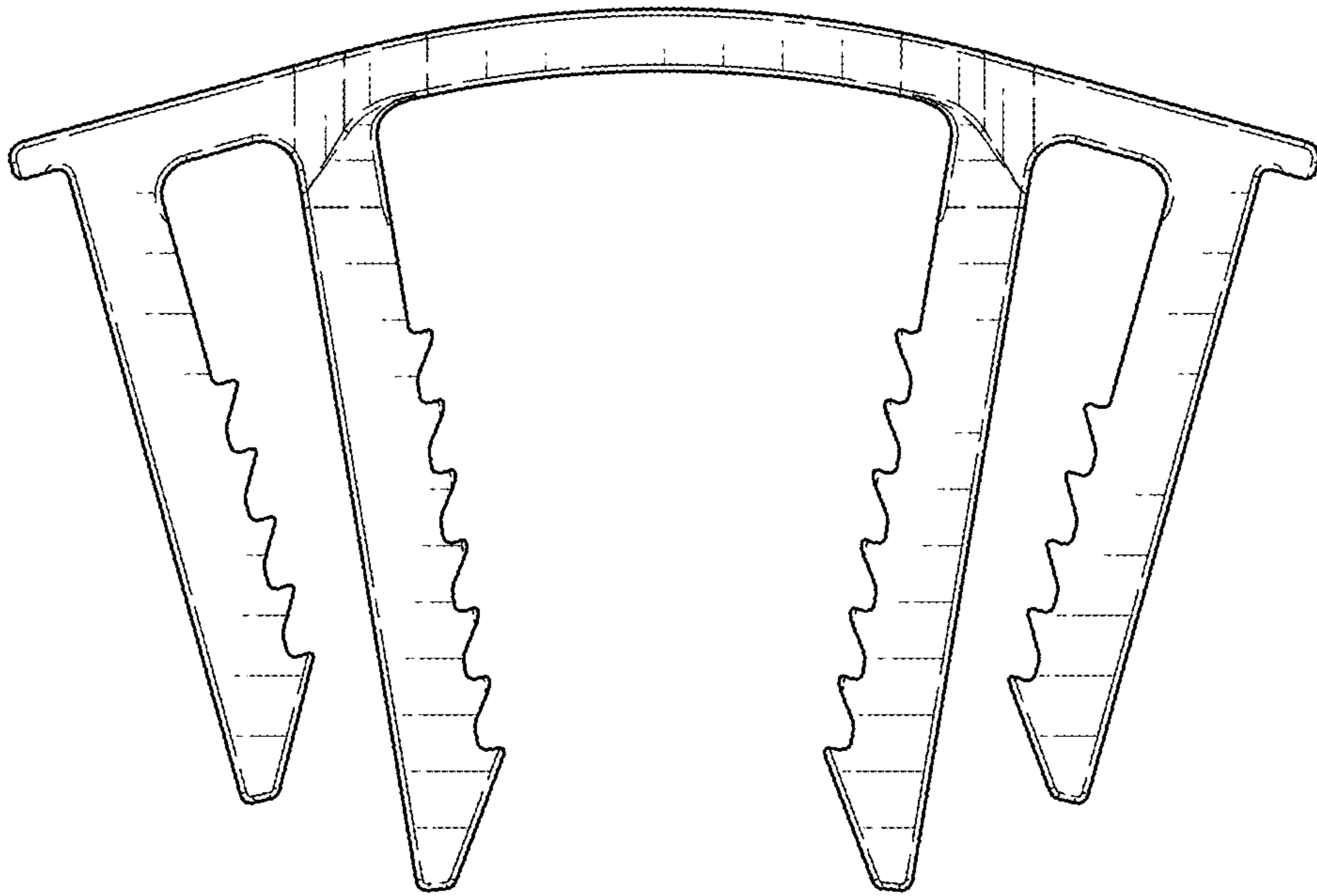


FIG. 15

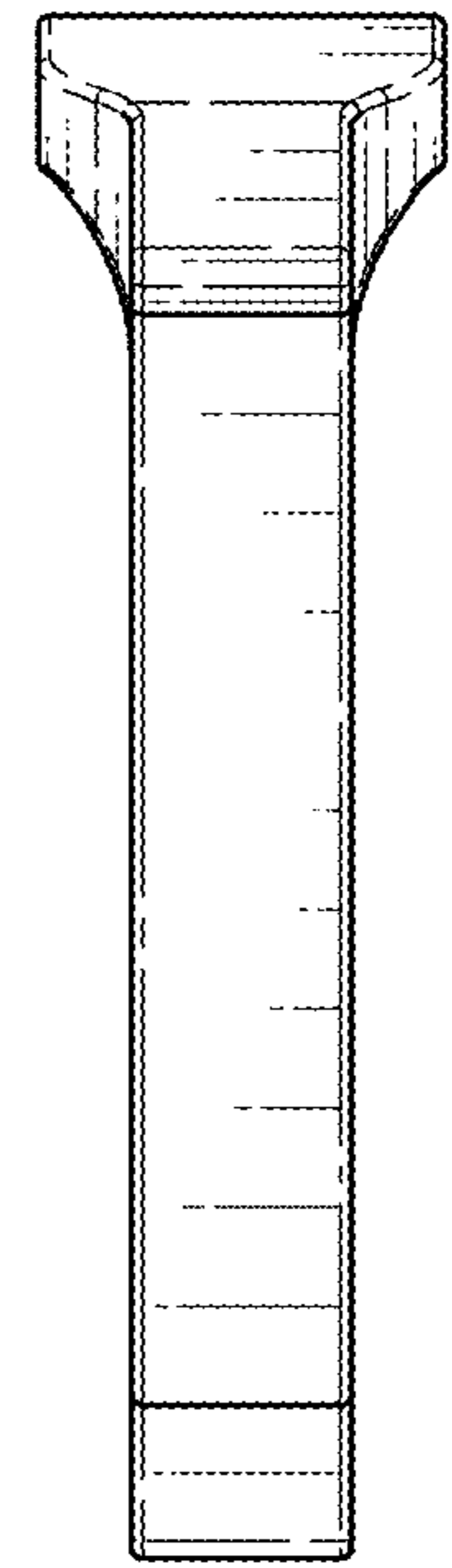


FIG. 16

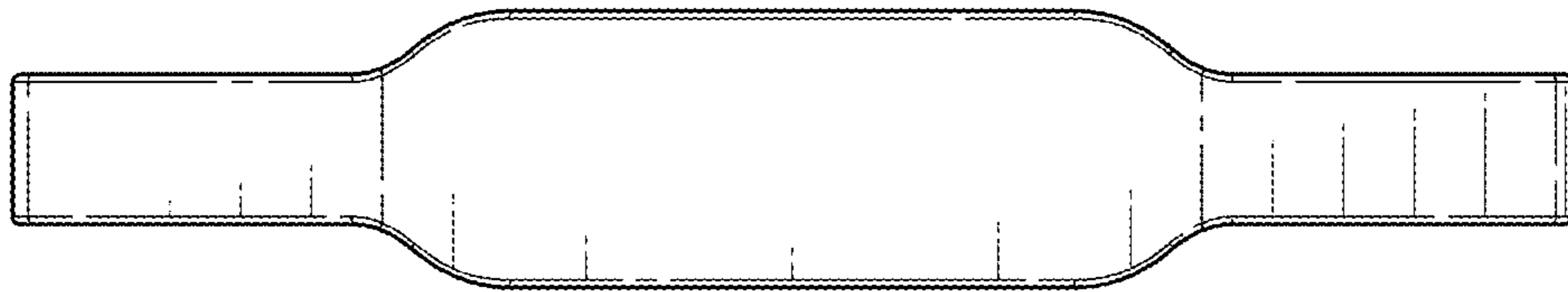


FIG. 17

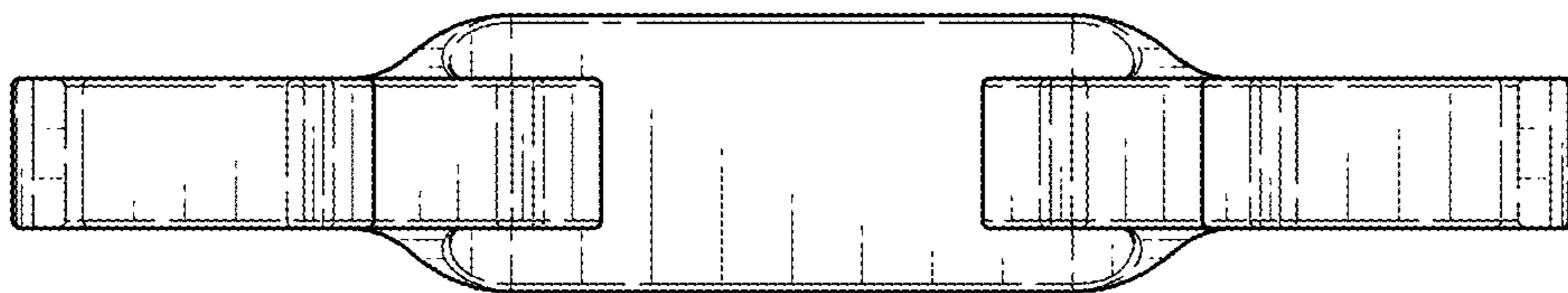


FIG. 18

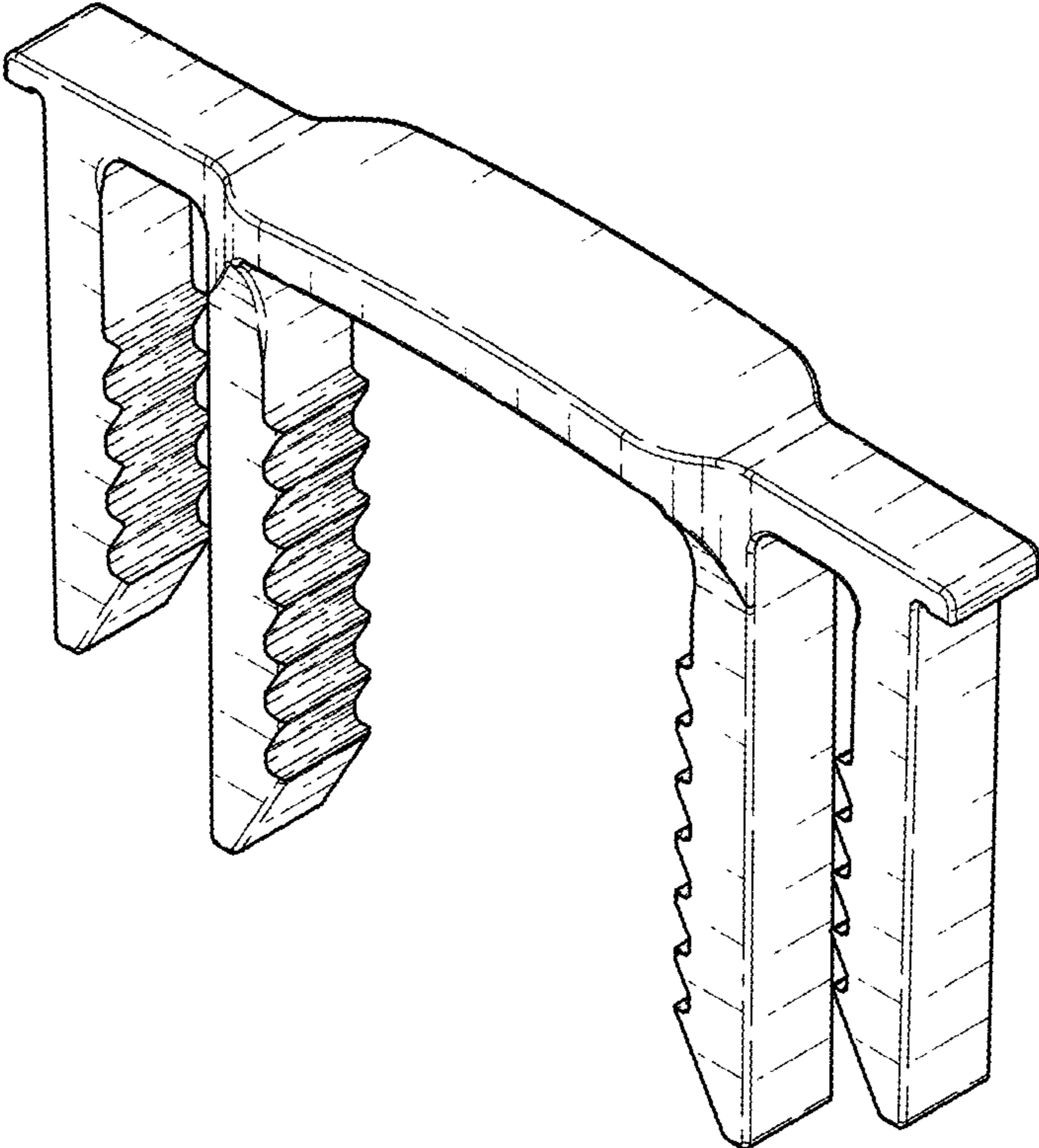


FIG. 19

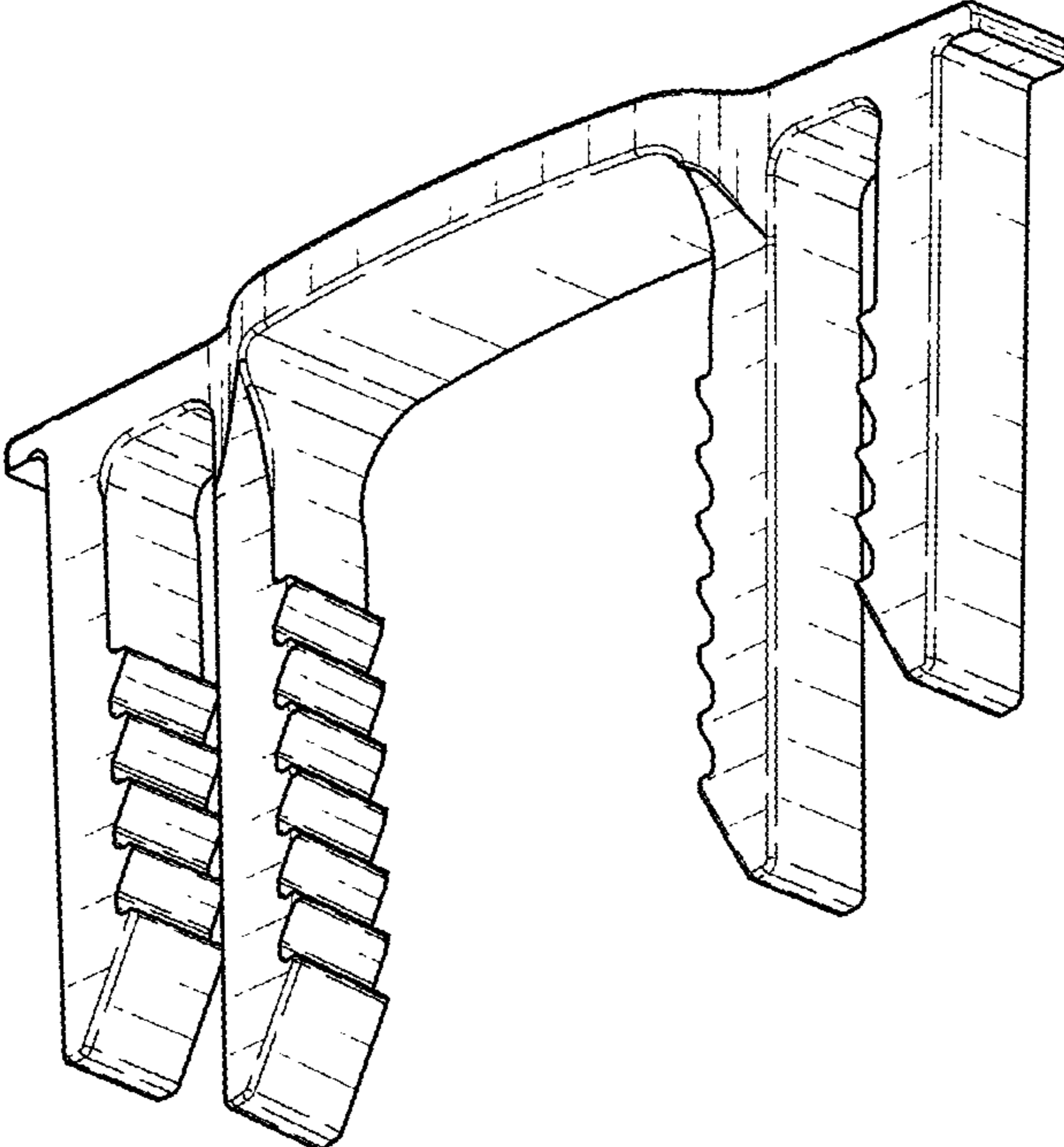


FIG. 20

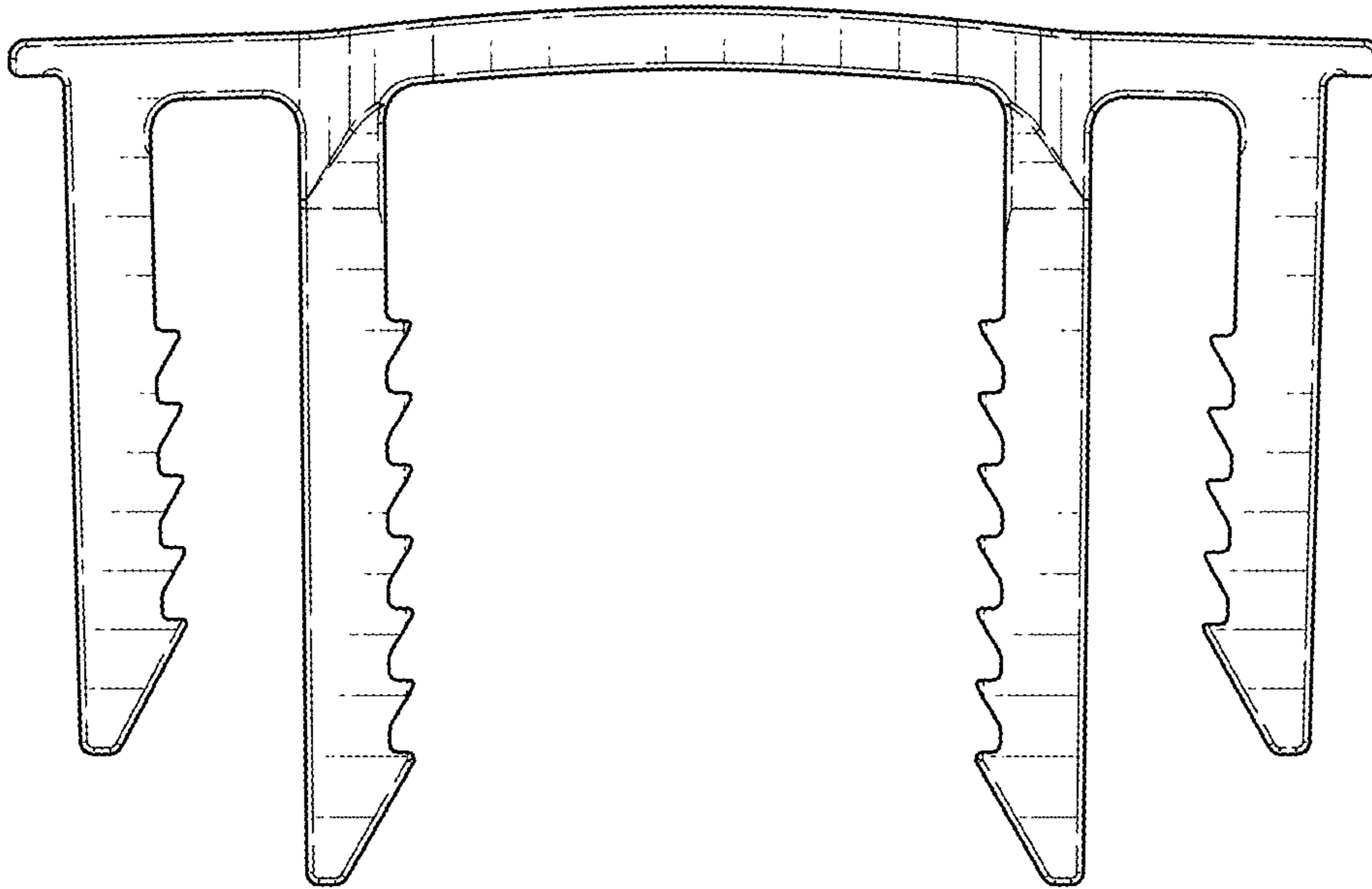


FIG. 21

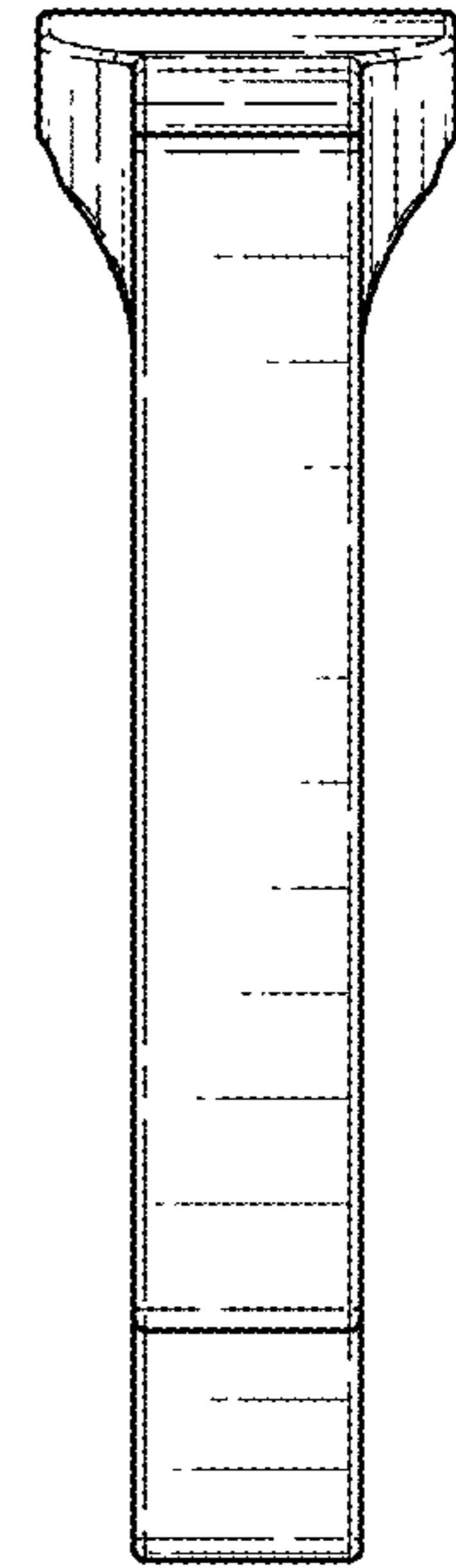


FIG. 22

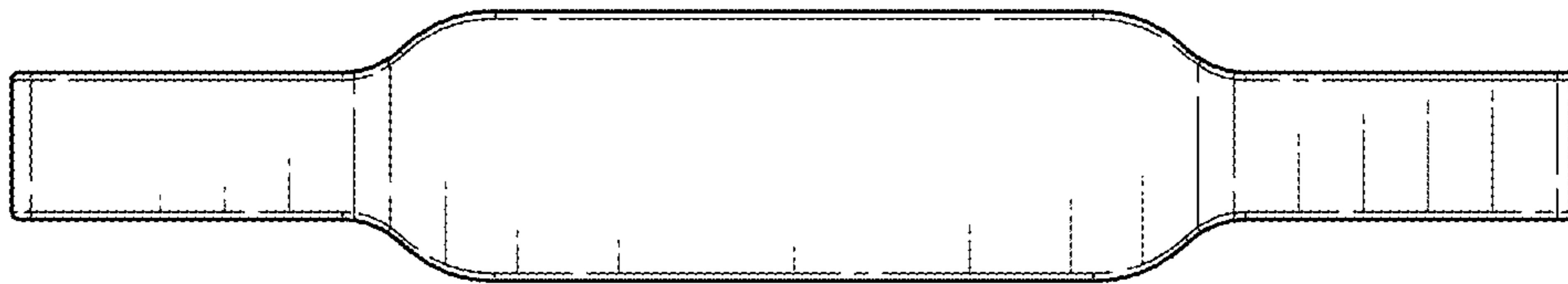


FIG. 23

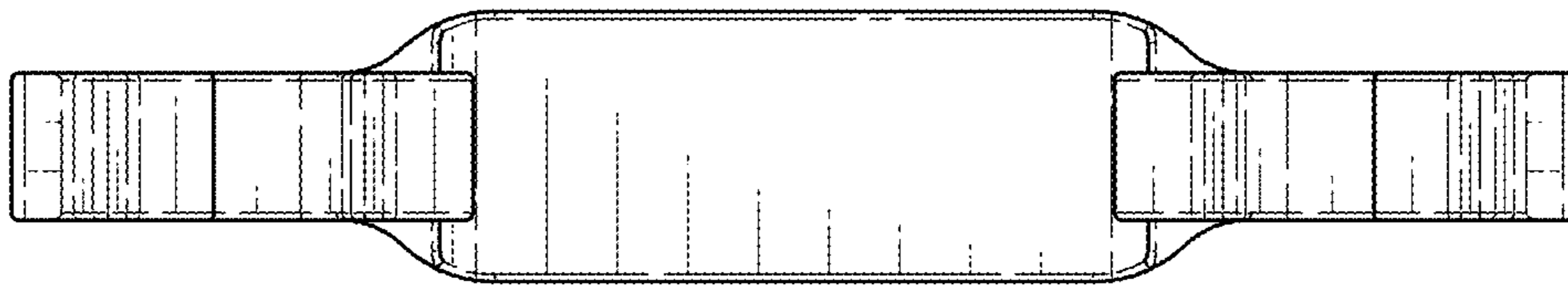


FIG. 24