



US00D954260S

(12) **United States Design Patent** (10) **Patent No.:** **US D954,260 S**
Wilson et al. (45) **Date of Patent:** **** *Jun. 7, 2022**

(54) **SURGICAL RETRACTOR**
(71) Applicant: **Warsaw Orthopedic, Inc.**, Warsaw, IN (US)
(72) Inventors: **Madeline G. Wilson**, Memphis, TN (US); **Mladen Djurasovic**, Louisville, KY (US); **Charles Hopkins Crawford, III**, Prospect, KY (US); **Jeffrey Lynn Gum**, Crestwood, KY (US); **Roger Kirk Owens, II**, Prospect, KY (US)
(73) Assignee: **Warsaw Orthopedic, Inc.**, Warsaw, IN (US)

3,626,471 A 12/1971 Florin
3,965,890 A 6/1976 Gauthier
4,718,151 A 1/1988 LeVahn et al.
5,027,793 A 7/1991 Englehart et al.
5,365,921 A 11/1994 Bookwaiter et al.
D369,860 S * 5/1996 Koros D24/133
D380,548 S * 7/1997 Koros D24/135
5,727,899 A 3/1998 Dobrovolny
D395,510 S * 6/1998 Furnish D24/135
D396,285 S * 7/1998 Koros D24/135
D411,299 S * 6/1999 Farascioni D24/135
5,928,139 A 7/1999 Koros et al.
5,957,835 A 9/1999 Anderson et al.
6,051,007 A 4/2000 Hogendijk et al.
6,074,343 A 6/2000 Nathanson et al.
6,206,826 B1 3/2001 Matthews et al.
6,322,500 B1 11/2001 Sikra et al.
6,345,946 B1 2/2002 Manini et al.
6,416,469 B1 7/2002 Phung et al.

(*) Notice: This patent is subject to a terminal disclaimer.
(**) Term: **15 Years**

FOREIGN PATENT DOCUMENTS

(21) Appl. No.: **29/782,255**
(22) Filed: **May 5, 2021**

EP 0951868 10/1999
WO 2015054070 4/2015

Related U.S. Application Data

Primary Examiner — Bridget L Eland

(63) Continuation of application No. 16/272,640, filed on Feb. 11, 2019.

(74) *Attorney, Agent, or Firm* — Sorell, Lenna & Schmidt, LLP

(51) **LOC (13) Cl.** **24-02**
(52) **U.S. Cl.**

(57) **CLAIM**

USPC **D24/135**

The ornamental design for a surgical retractor, as shown and described.

(58) **Field of Classification Search**
USPC D24/135, 133
CPC A61B 17/0206; A61B 34/30; A61B 90/50;
A61B 2017/00407; A61B 17/0218; A61B
2017/0256
See application file for complete search history.

DESCRIPTION

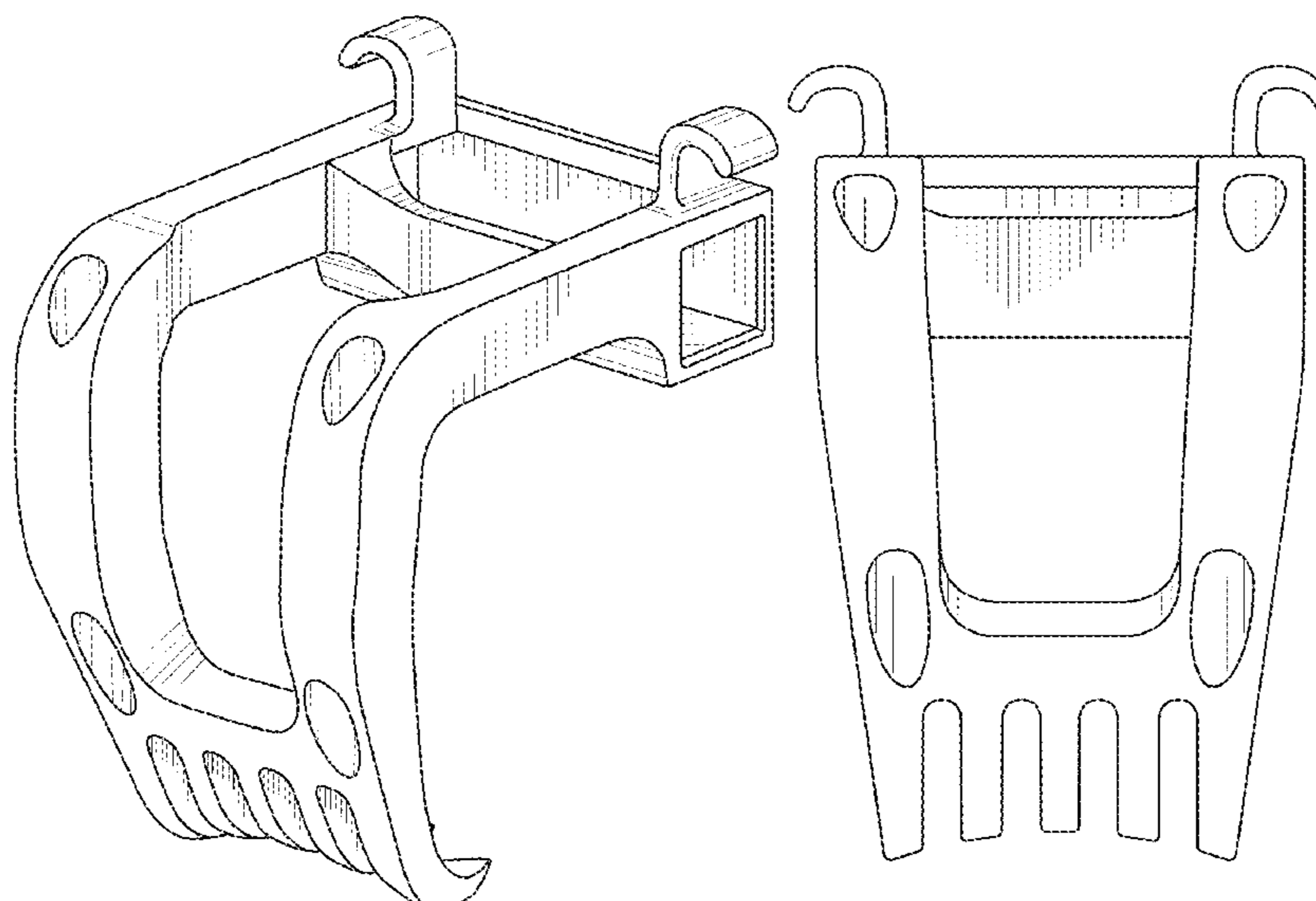
(56) **References Cited**

FIG. 1 is a perspective view of a surgical retractor;
FIG. 2 is a front view of the surgical retractor;
FIG. 3 is a side view of the surgical retractor;
FIG. 4 is a back view of the surgical retractor;
FIG. 5 is a side view of the surgical retractor;
FIG. 6 is a top view of the surgical retractor; and,
FIG. 7 is a bottom view of the surgical retractor.

U.S. PATENT DOCUMENTS

1,706,500 A 3/1929 Smith
2,698,795 A 11/1954 Greishaber

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,458,079 B1	10/2002	Cohn et al.			
6,500,116 B1	12/2002	Knapp			
6,599,240 B2	7/2003	Puchovsky et al.			
7,033,377 B2	4/2006	Miller, III			
7,097,616 B2	8/2006	Bjork et al.			
7,125,380 B2	10/2006	Yager			
7,207,949 B2	4/2007	Miles et al.			
7,404,792 B2	7/2008	Spence et al.			
7,513,869 B2	4/2009	Branch et al.			
7,594,888 B2	9/2009	Raymond et al.			
7,618,431 B2	11/2009	Roehm, III			
D612,494 S *	3/2010	Ott	.....	D24/135	
D612,495 S *	3/2010	Ott	.....	D24/135	
7,691,057 B2	4/2010	Miles et al.			
7,785,253 B1	8/2010	Arambula et al.			
7,803,176 B2	9/2010	Teague et al.			
7,892,173 B2	2/2011	Miles et al.			
7,905,840 B2	3/2011	Pimenta et al.			
7,920,922 B2	4/2011	Gharib et al.			
7,935,051 B2	5/2011	Miles et al.			
7,962,191 B2	6/2011	Marino et al.			
7,981,029 B2	7/2011	Branch et al.			
8,000,782 B2	8/2011	Gharib et al.			
8,005,535 B2	8/2011	Gharib et al.			
8,016,767 B2	9/2011	Miles et al.			
8,038,611 B2	10/2011	Raymond et al.			
8,047,987 B2	11/2011	Grey et al.			
8,055,349 B2	11/2011	Gharib et al.			
8,062,217 B2	11/2011	Boucher et al.			
8,062,218 B2	11/2011	Sebastian et al.			
D652,519 S	1/2012	Miles et al.			
D652,921 S	1/2012	Miles et al.			
D652,922 S	1/2012	Miles et al.			
8,114,019 B2	2/2012	Miles et al.			
8,133,173 B2	3/2012	Miles et al.			
8,137,284 B2	3/2012	Miles et al.			
D658,286 S *	4/2012	Ryshkus	.....	D24/135	
8,165,653 B2	4/2012	Marino et al.			
8,172,750 B2	5/2012	Miles et al.			
8,182,423 B2	5/2012	Miles et al.			
8,187,179 B2	5/2012	Miles et al.			
8,192,356 B2	6/2012	Miles et al.			
8,192,357 B2	6/2012	Miles et al.			
D666,292 S	8/2012	Miles et al.			
D666,923 S	8/2012	Miles et al.			
D666,924 S	8/2012	Miles et al.			
8,244,343 B2	8/2012	Gharib et al.			
8,303,498 B2	11/2012	Miles et al.			
8,343,046 B2	1/2013	Miles et al.			
8,353,826 B2	1/2013	Weiman			
8,357,184 B2	1/2013	Woolley et al.			
8,579,809 B2	11/2013	Parker			
8,636,655 B1	1/2014	Childs			
8,657,819 B2	2/2014	Murner et al.			
8,882,662 B2	11/2014	Charles			
8,974,381 B1 *	3/2015	Lovell	.....	A61B 90/30 600/232	
9,044,280 B1	6/2015	Arambula et al.			
9,138,217 B2	9/2015	Smith et al.			
D884,169 S *	5/2020	Hartson	.....	D24/143	
2004/0176665 A1	9/2004	Branch et al.			
2006/0224044 A1	10/2006	Marchek et al.			
2007/0161865 A1	7/2007	Fakhrai			
2007/0203400 A1	8/2007	Santilli			
2007/0208227 A1	9/2007	Smith et al.			
2007/0293729 A1	12/2007	Grey et al.			
2008/0077171 A1	3/2008	Blain et al.			
2008/0108877 A1	5/2008	Bayat			
2008/0132766 A1	6/2008	Dant et al.			
2009/0105547 A1 *	4/2009	Vayser	.....	A61B 17/0206 600/228	
2009/0118774 A1	5/2009	Miller, III			
2011/0046448 A1	2/2011	Paolitto et al.			
2012/0010472 A1	1/2012	Spann			
2012/0088979 A1	4/2012	Nunley et al.			
2012/0245431 A1	9/2012	Baudouin et al.			
2012/0283521 A1	11/2012	Smith et al.			
2013/0103103 A1	4/2013	Mire et al.			
2013/0190575 A1	7/2013	Mast et al.			
2013/0274557 A1	10/2013	Bowman et al.			
2014/0039267 A1	2/2014	Seex et al.			
2014/0066719 A1	3/2014	Nichter			
2014/0135584 A1	5/2014	Lee et al.			
2015/0088030 A1	3/2015	Taylor			
2015/0099939 A1	4/2015	Beck et al.			
2015/0100129 A1	4/2015	Waugh et al.			
2020/0253594 A1 *	8/2020	Wilson	.....	A61B 17/7074	
2020/0253595 A1 *	8/2020	McBride, Jr.	.....	A61B 90/50	

* cited by examiner

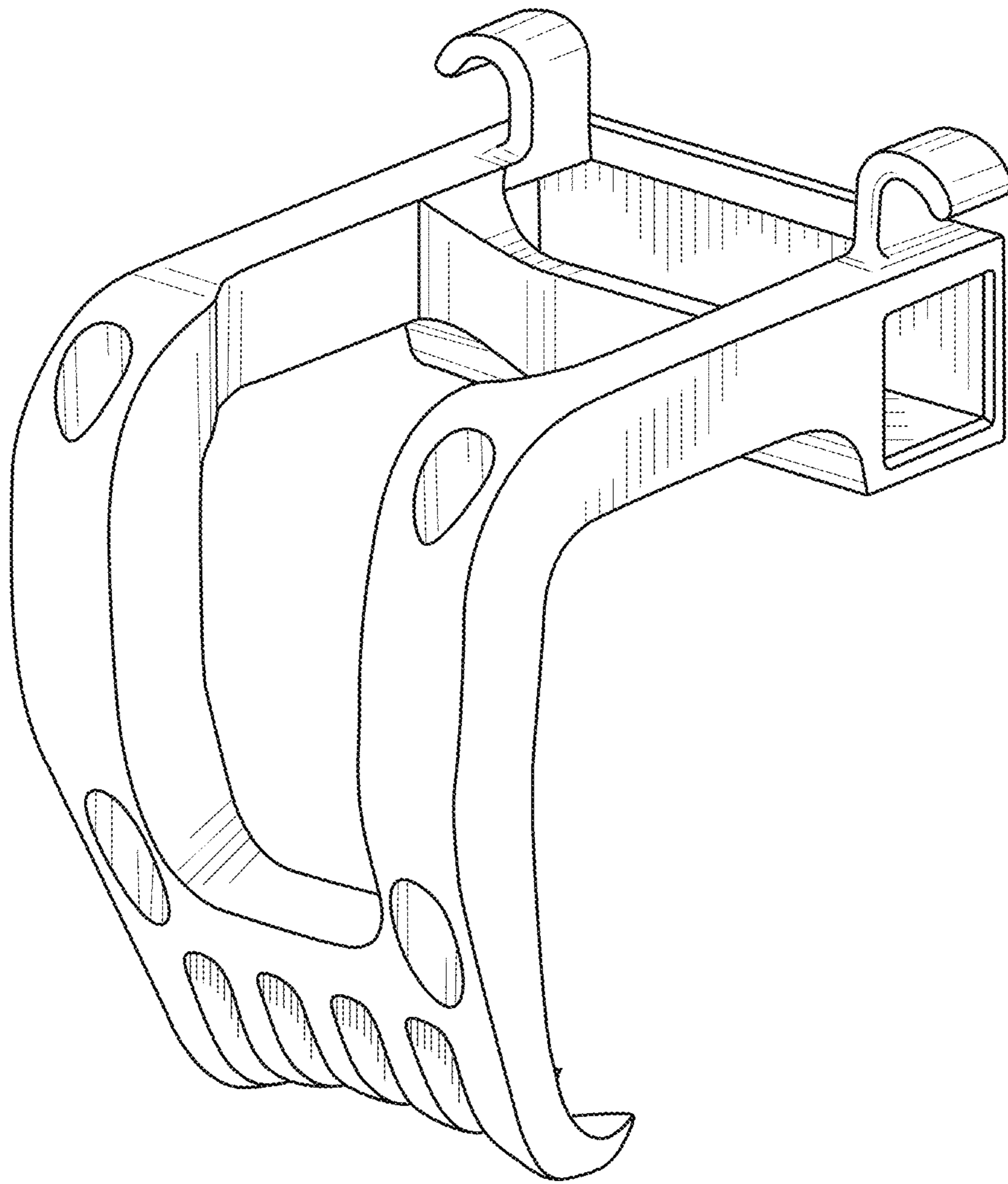


FIG. 1

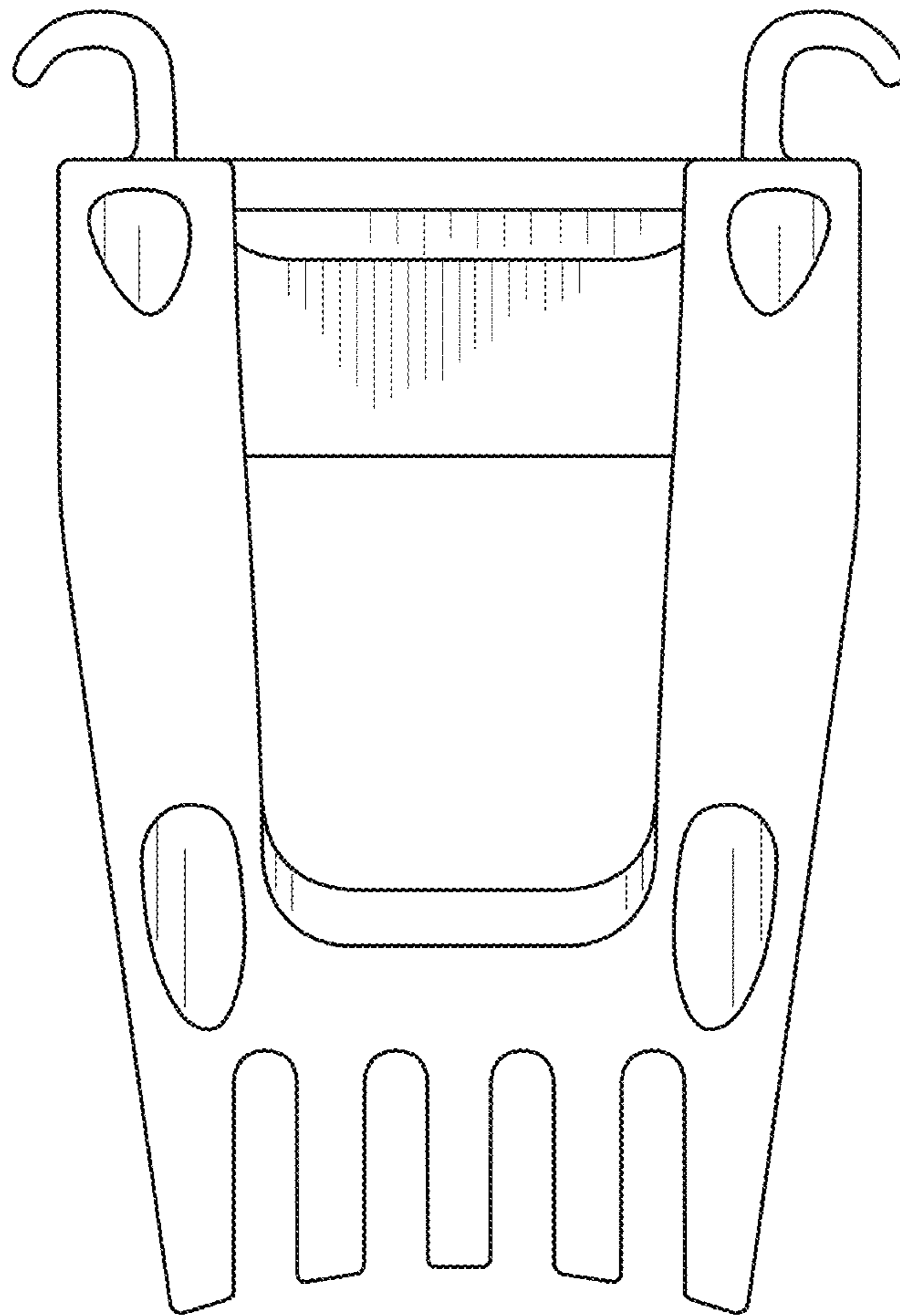


FIG. 2

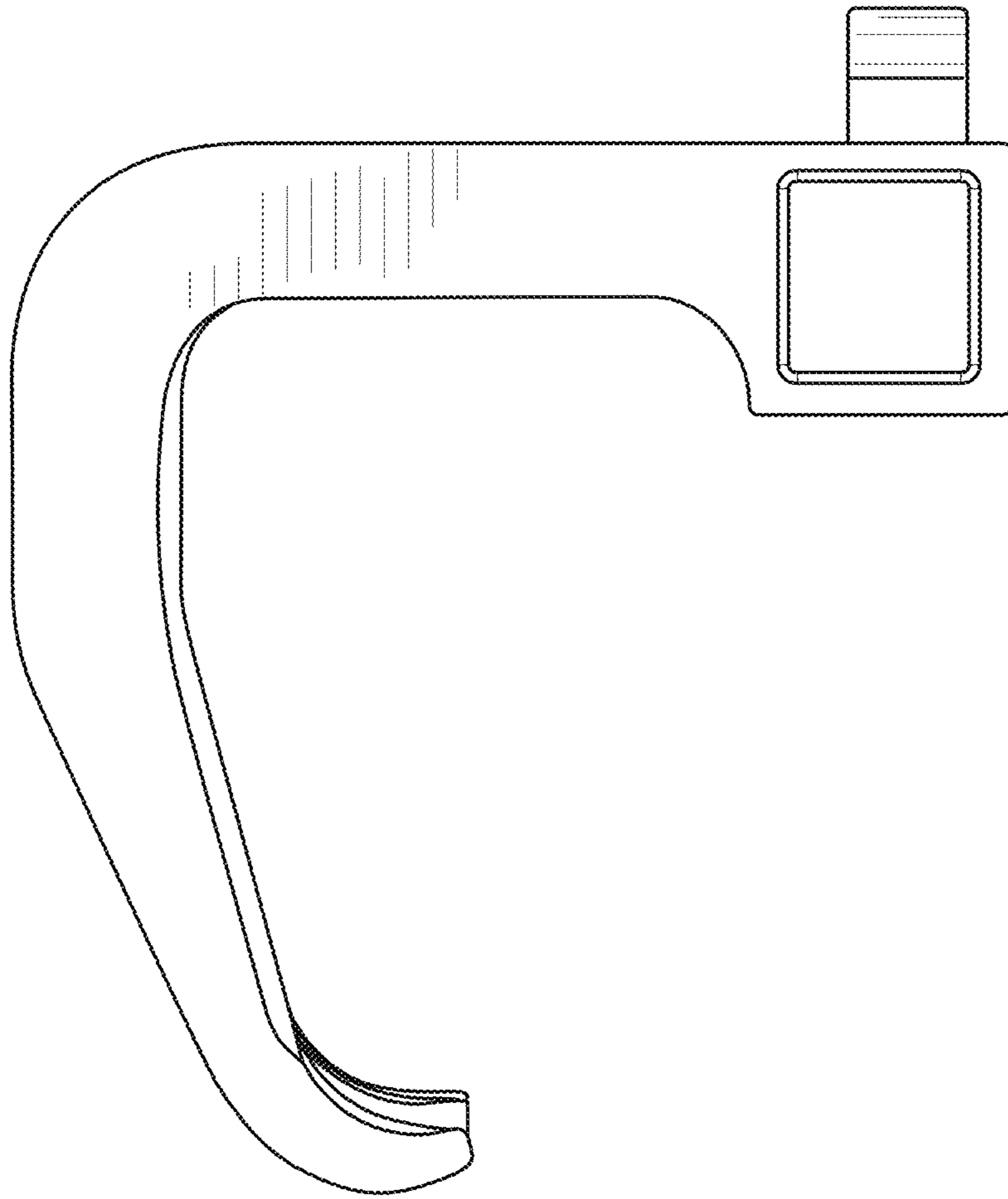


FIG. 3

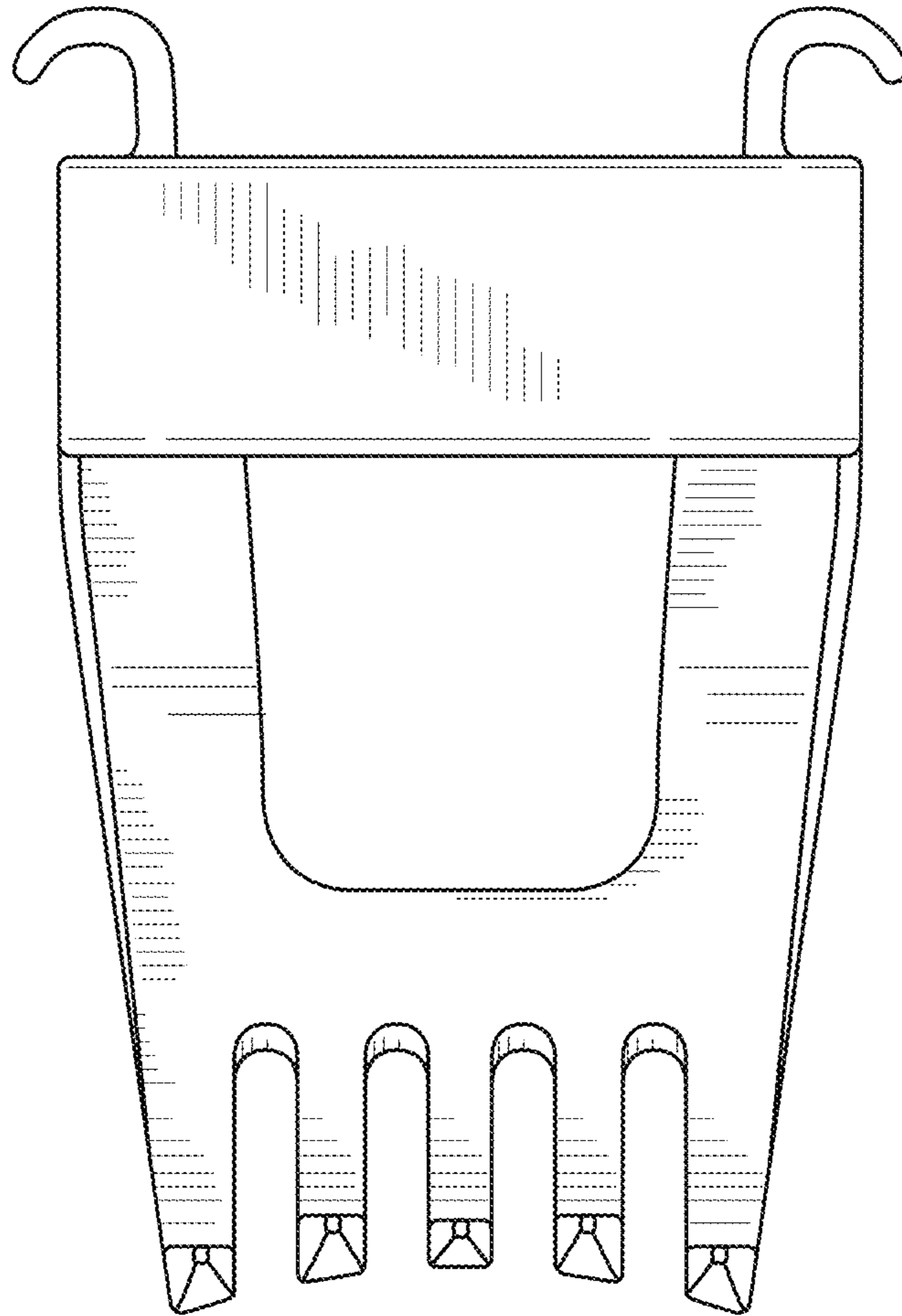


FIG. 4

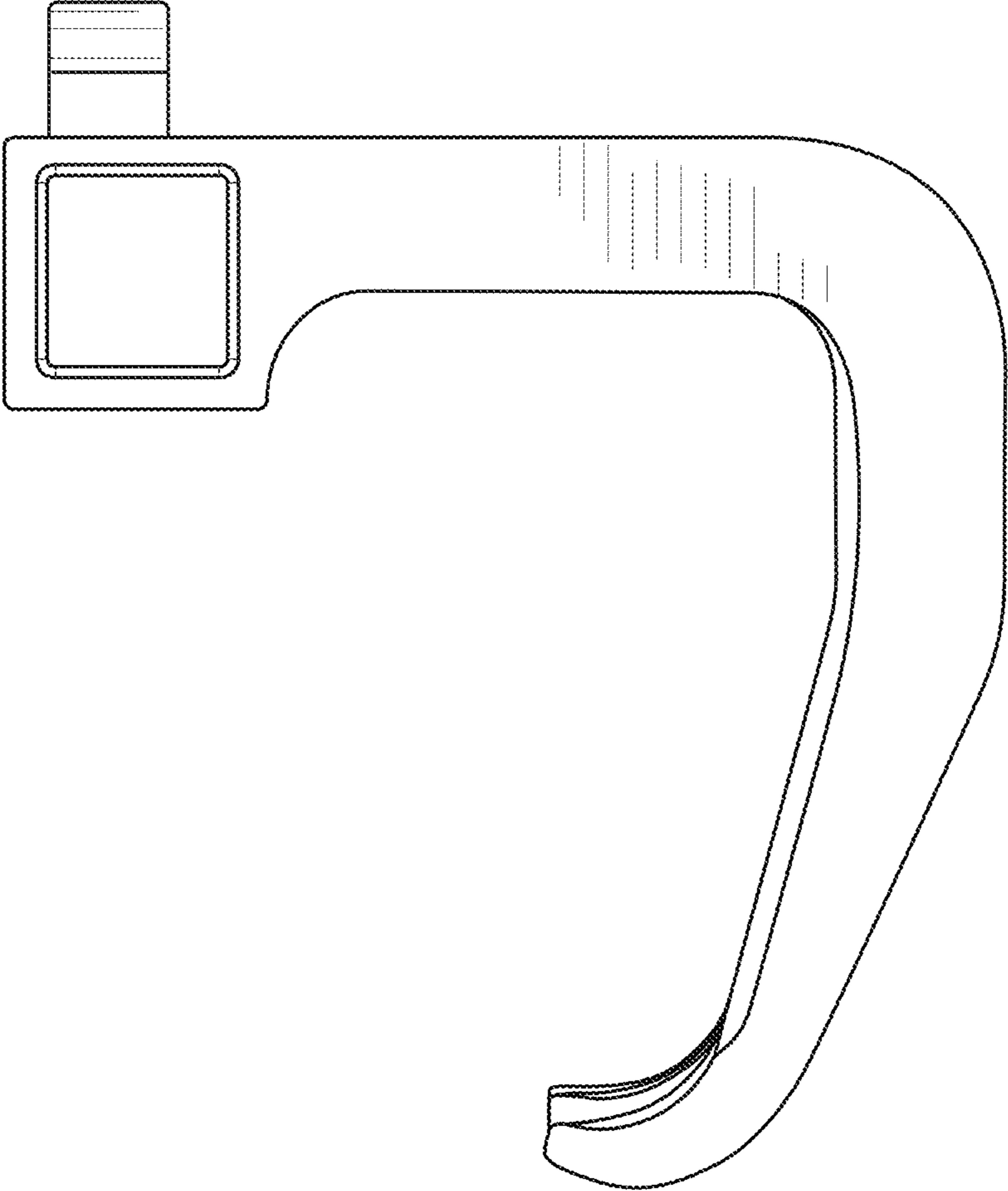


FIG. 5

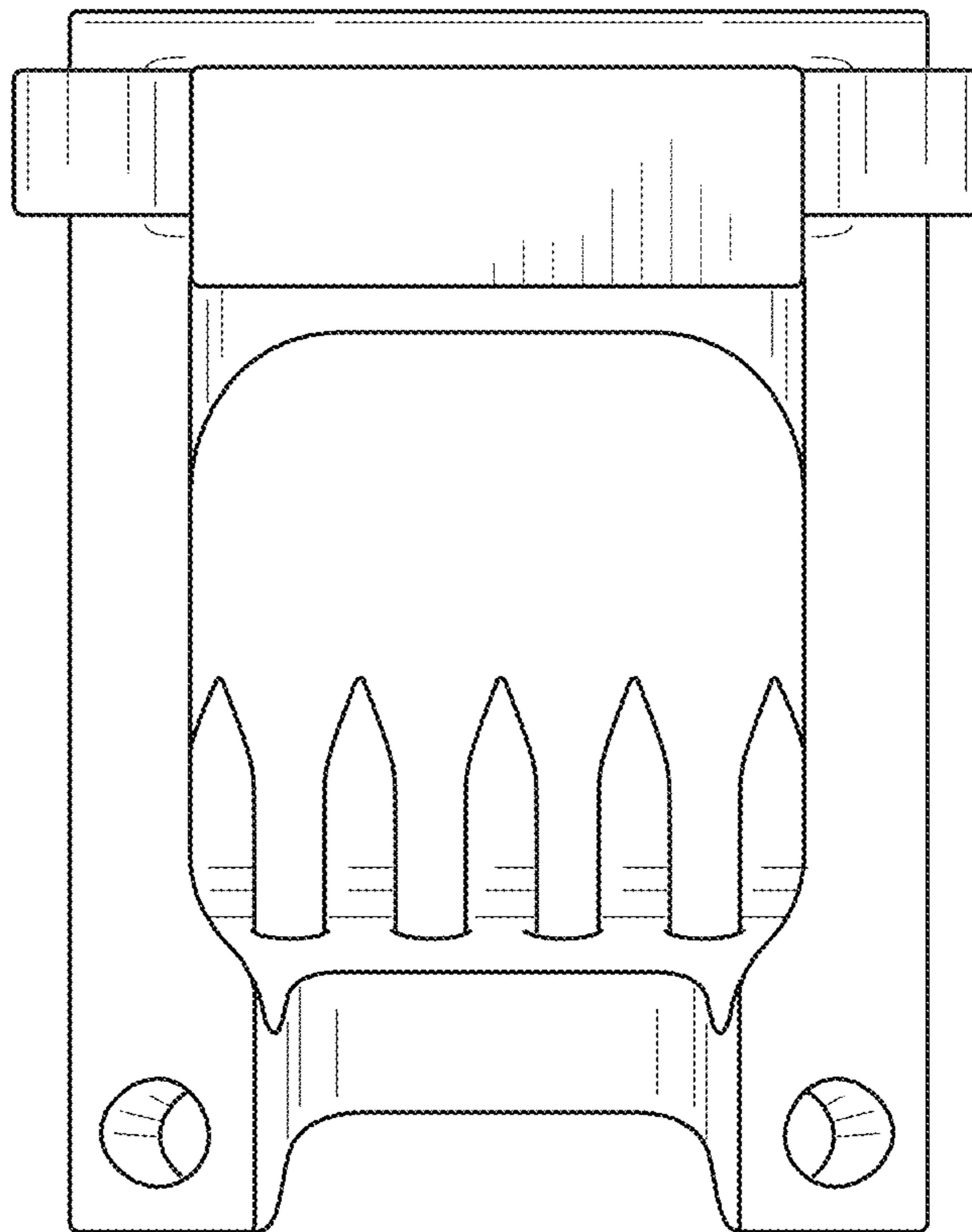


FIG. 6

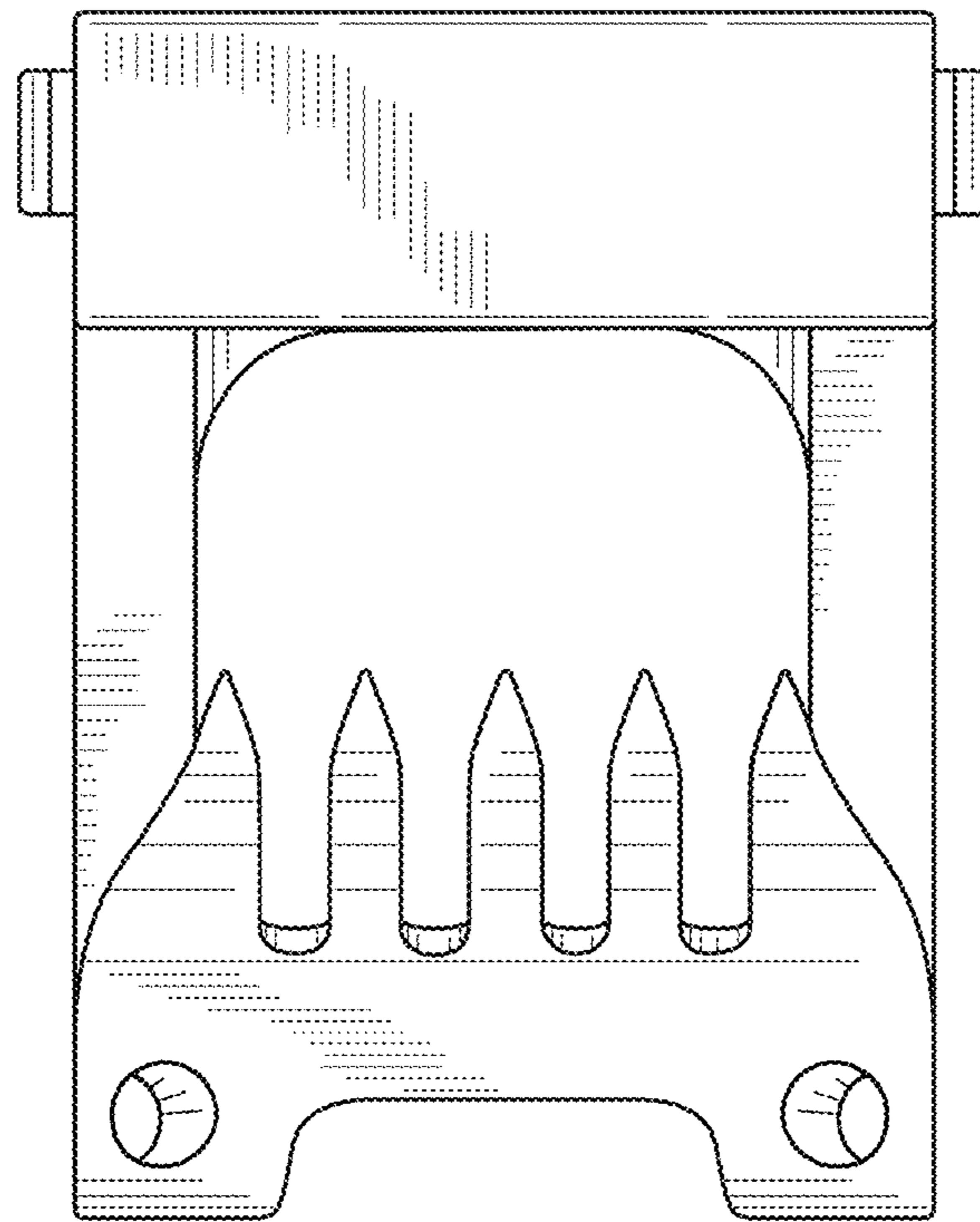


FIG. 7