



US00D812110S

(12) **United States Design Patent** (10) **Patent No.:** **US D812,110 S**
Hesla (45) **Date of Patent:** **** Mar. 6, 2018**

(54) **SCRAPER ARM**

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(73) Assignee: **Pro Mags LLC**, Wakonda, SD (US)

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

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(22) Filed: **Feb. 19, 2016**

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

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

(58) **Field of Classification Search**

USPC D15/10, 11, 27, 28, 29; 111/157, 200,
111/135, 137, 164, 52, 140, 167, 163;
172/166, 602, 741-744, 748, 452, 536,
172/736

CPC A01B 37/00; A01B 39/00; A01B 39/22;
A01B 76/00; A01B 71/04; A01B 71/00;
A01C 5/00; A01C 5/06; A01C 5/062;
B60S 1/68; B60S 1/00

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,805,486 A * 9/1957 Barrett G01B 5/0028
33/610
3,115,192 A * 12/1963 Bushmeyer A01B 15/18
172/166
3,261,411 A 7/1966 Youngberg et al.
(Continued)

FOREIGN PATENT DOCUMENTS

JP 70026300 3/1970
JP 59-140149 8/1984

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(57) **CLAIM**

The ornamental design for a scraper arm, as shown and described.

DESCRIPTION

FIG. 1 is a top right perspective view of the scraper arm; FIG. 2 is a front view of the scraper arm, taken from the frame of reference of FIG. 1;

FIG. 3 is a rear view of the scraper arm, taken from the frame of reference of FIG. 1;

FIG. 4 is a right side view of the scraper arm, taken from the frame of reference of FIG. 1;

FIG. 5 is a left side view of the scraper arm, taken from the frame of reference of FIG. 1;

FIG. 6 is a top view of the scraper arm, taken from the frame of reference of FIG. 1;

FIG. 7 is a bottom view of the scraper arm, taken from the frame of reference of FIG. 1;

FIG. 8 is a bottom left perspective view of the scraper arm, taken from the frame of reference of FIG. 1;

FIG. 9 is another top right perspective view of the scraper arm;

FIG. 10 is a front view of the scraper arm, taken from the frame of reference of FIG. 9;

FIG. 11 is a rear view of the scraper arm, taken from the frame of reference of FIG. 9;

FIG. 12 is a right side view of the scraper arm, taken from the frame of reference of FIG. 9;

FIG. 13 is a left side view of the scraper arm, taken from the frame of reference of FIG. 9;

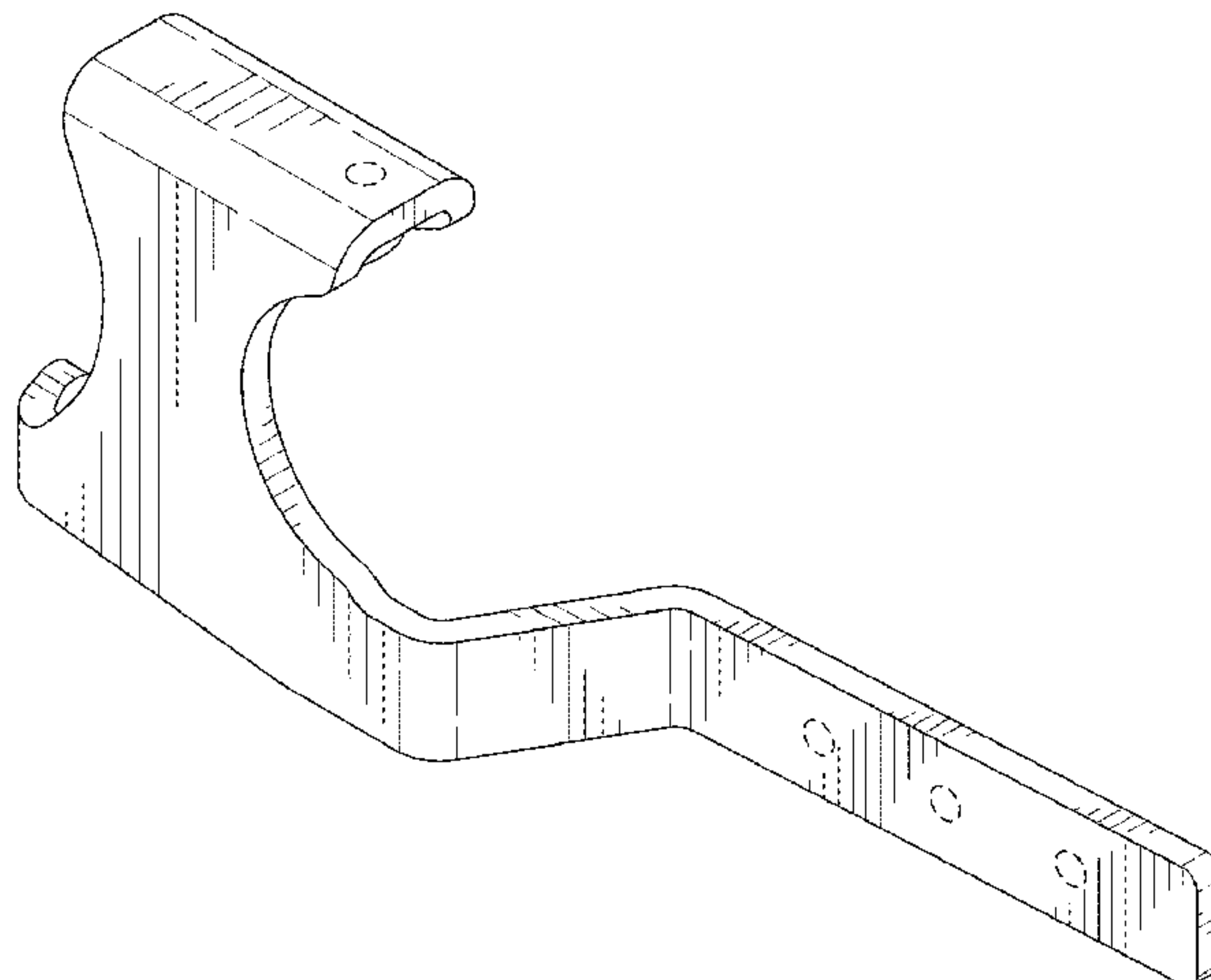
FIG. 14 is a top view of the scraper arm, taken from the frame of reference of FIG. 9;

FIG. 15 is a bottom view of the scraper arm, taken from the frame of reference of FIG. 9; and,

FIG. 16. is a bottom left perspective view of the scraper arm, taken from the frame of reference of FIG. 9.

The broken lines are included for the purpose of illustrating unclaimed portions of the scraper arm and form no part of the claimed design.

1 Claim, 16 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,599,729	A *	8/1971	Greemore	A01B 35/22 172/741	7,357,193	B2	4/2008	Harmon et al.	
3,833,067	A	9/1974	Peterson, Jr. et al.		7,360,495	B1 *	4/2008	Martin	A01C 7/203 111/164
4,294,181	A *	10/1981	Smith	A01B 39/08 111/121	D594,478	S *	6/2009	Greuel	D15/28
4,760,806	A	8/1988	Bigbee et al.		D596,203	S	7/2009	Schaffert	
4,882,957	A	11/1989	Wright et al.		7,730,962	B1	6/2010	Kester	
5,078,528	A *	1/1992	Schmidt	B60G 7/02 403/365	7,823,521	B1	11/2010	Smith	
5,269,237	A	12/1993	Baker et al.		8,104,543	B2	1/2012	Hesla	
5,269,380	A	12/1993	Lofquist et al.		8,186,287	B2 *	5/2012	Schilling	A01C 7/203 111/167
5,427,038	A	6/1995	Ege		9,113,587	B2	8/2015	Hesla	
5,431,233	A	7/1995	Schmidt		9,204,590	B2 *	12/2015	Schaffert	A01C 5/04
5,483,907	A	1/1996	Gaalswyk		9,204,591	B2	12/2015	Hesla	
5,802,995	A *	9/1998	Baughner	A01C 5/068 111/140	9,232,689	B2 *	1/2016	Trevino	A01C 7/06
5,884,711	A	3/1999	Shoup		9,456,542	B2 *	10/2016	Schaffert	A01C 5/064
5,904,107	A	5/1999	Kester		9,769,971	B2 *	9/2017	Hesla	A01B 15/16
5,970,891	A	10/1999	Schlagel		2005/0072344	A1 *	4/2005	Kester	A01B 71/04 111/135
D440,985	S *	4/2001	Noonan	D15/28	2008/0011208	A1 *	1/2008	Martin	A01C 5/066 111/167
6,321,667	B1	11/2001	Shoup		2008/0066662	A1 *	3/2008	Hesla	A01C 5/064 111/164
6,386,127	B1	5/2002	Prairie et al.		2016/0120092	A1 *	5/2016	Bianchi	A01B 23/06 172/558
					2017/0000014	A1 *	1/2017	Anderson	A01C 5/068

* cited by examiner

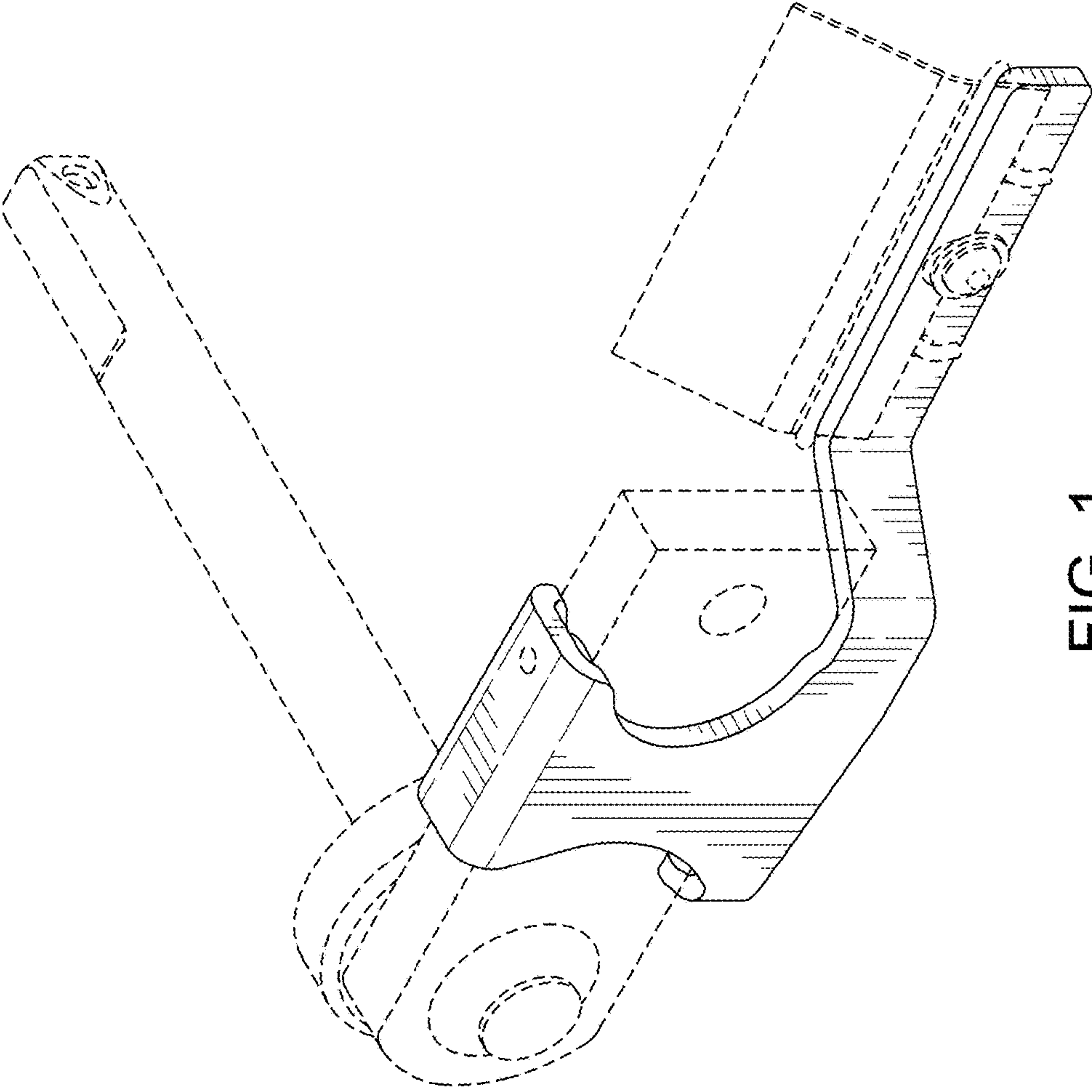


FIG. 1

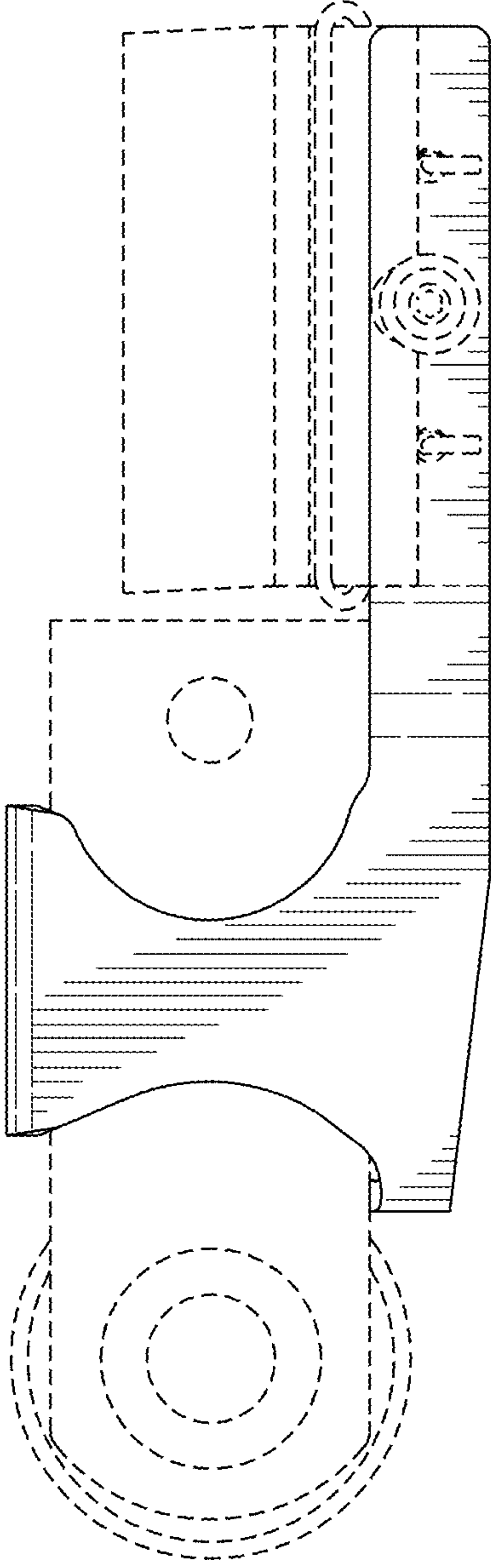


FIG. 2

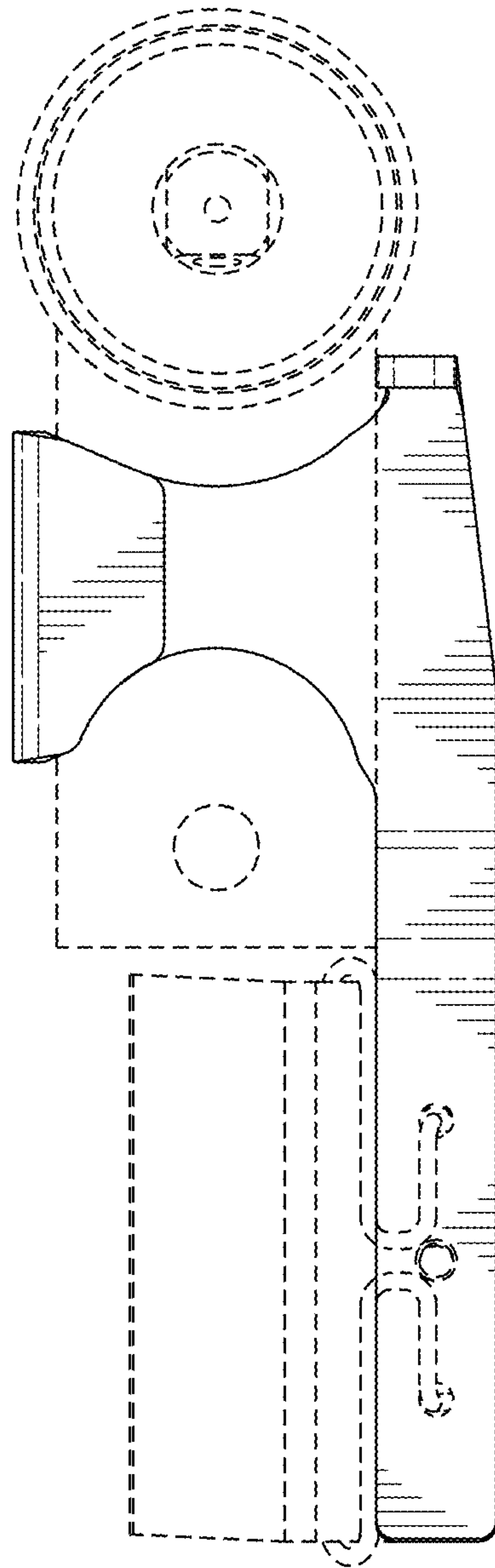


FIG. 3

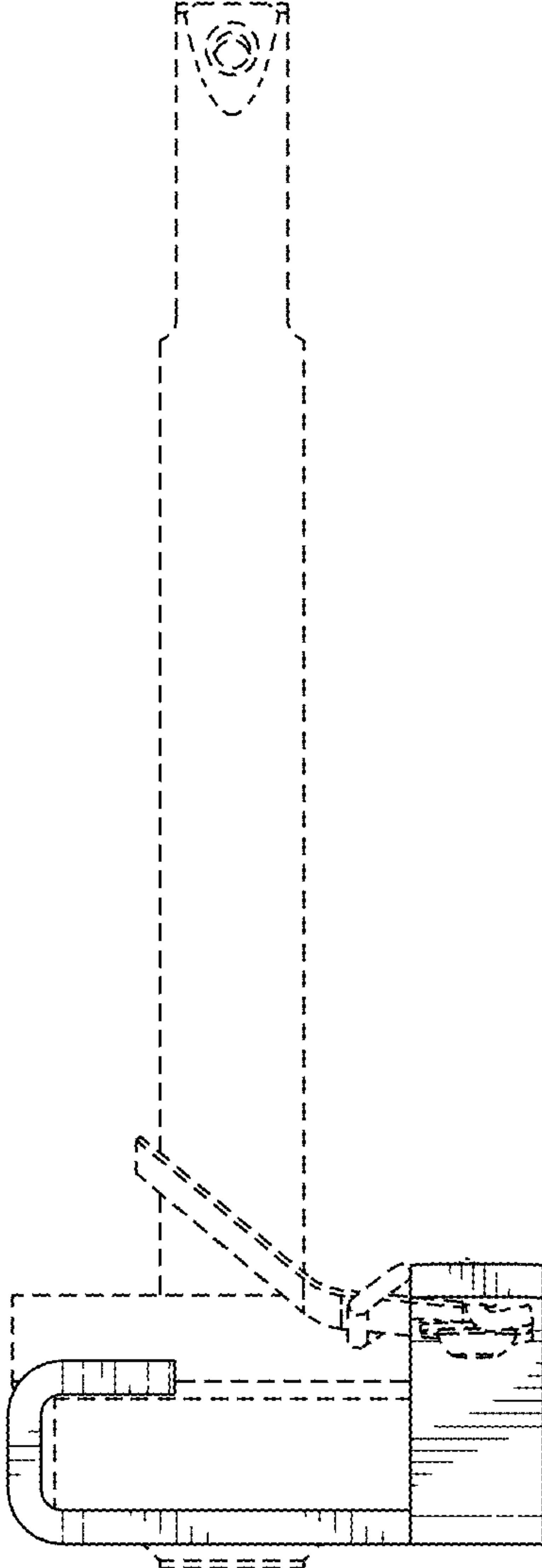


FIG. 4

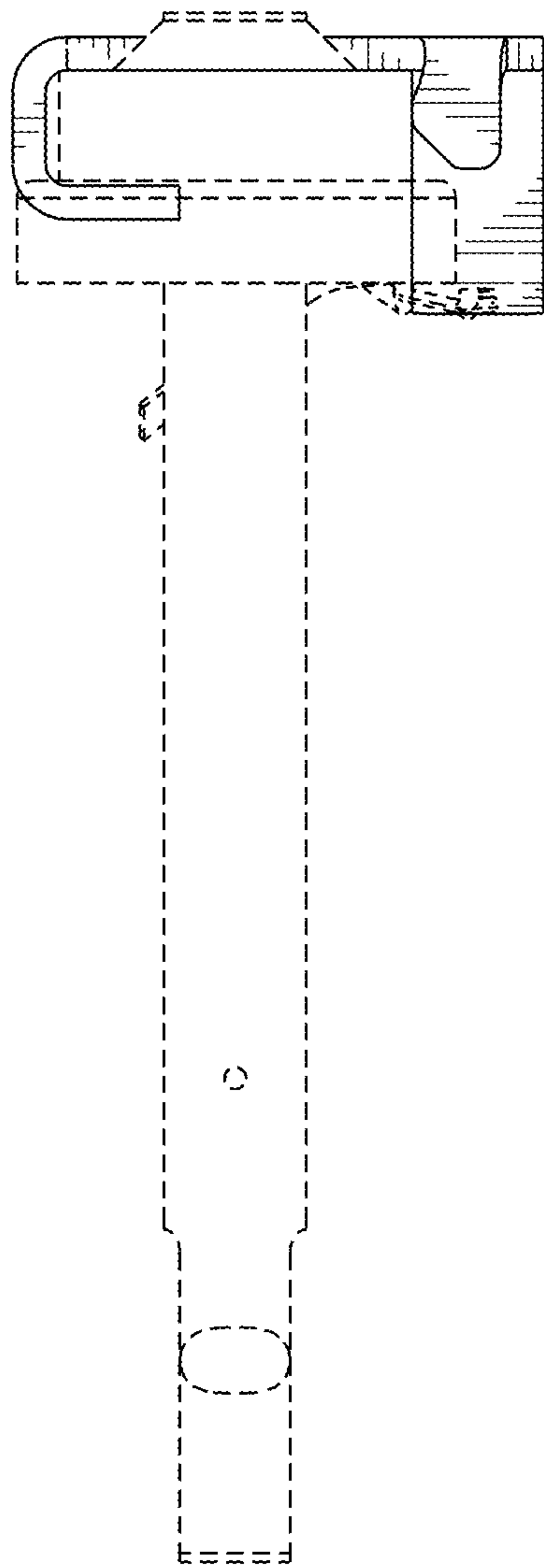


FIG. 5

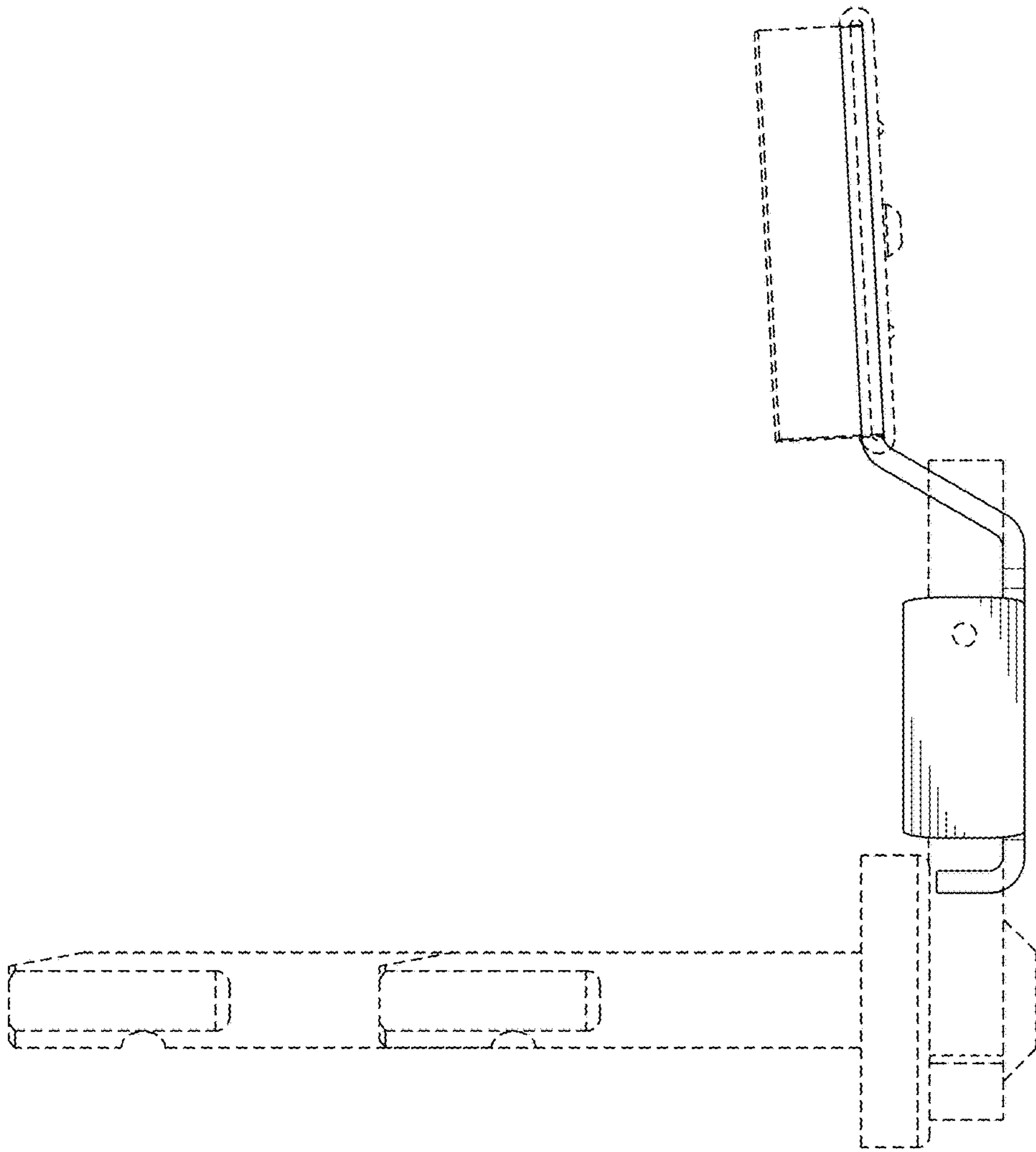


FIG. 6

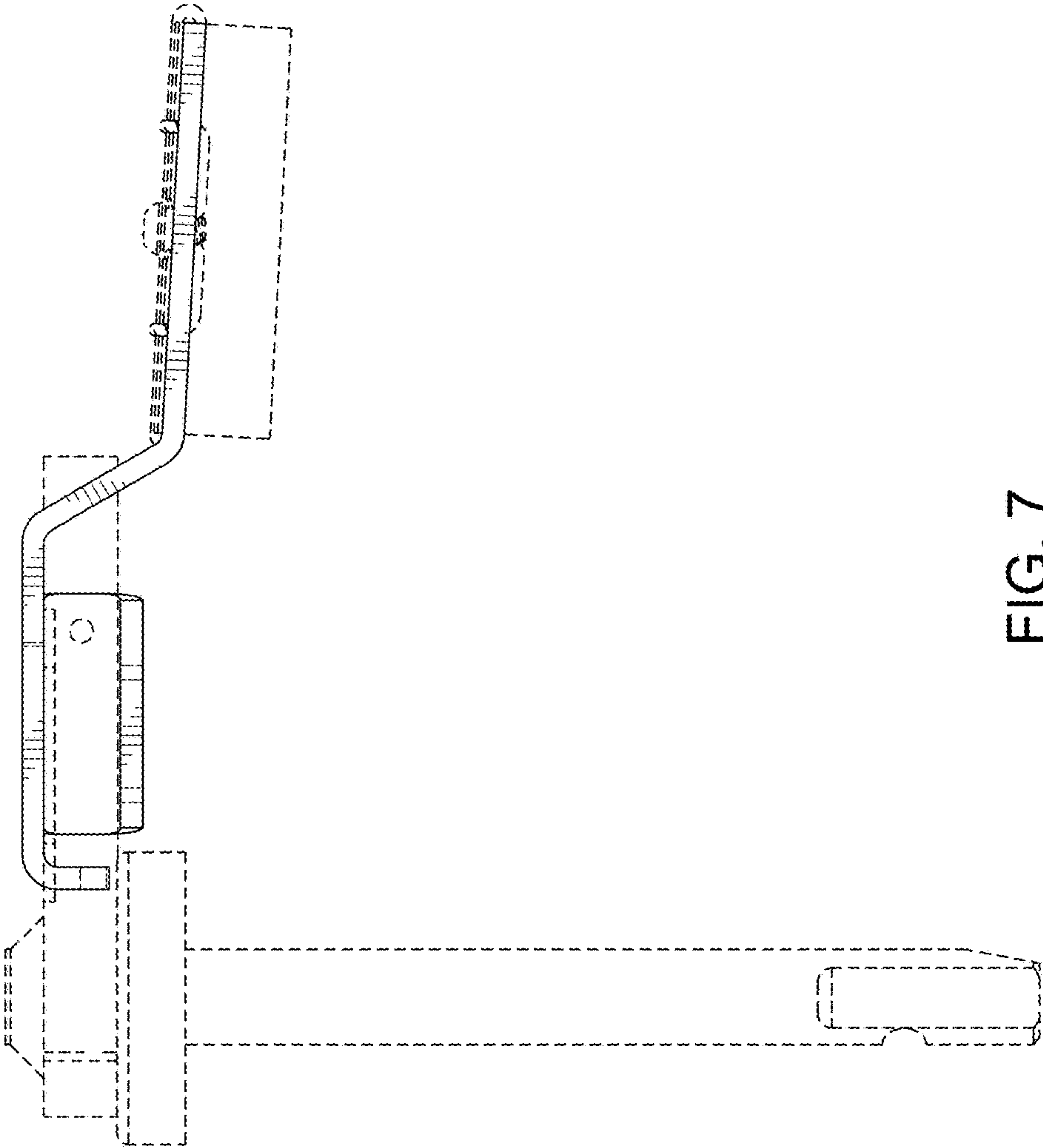


FIG. 7

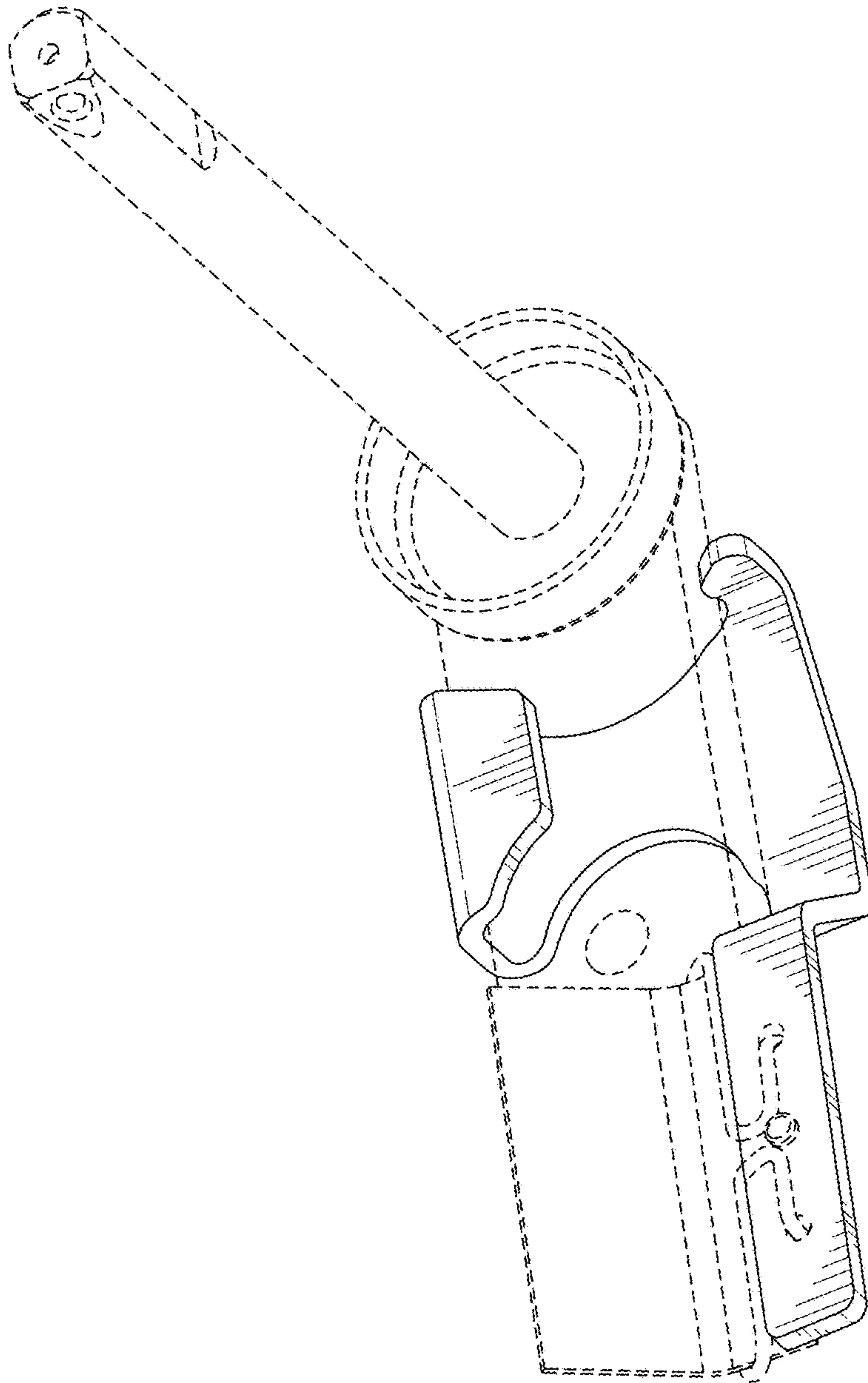


FIG. 8

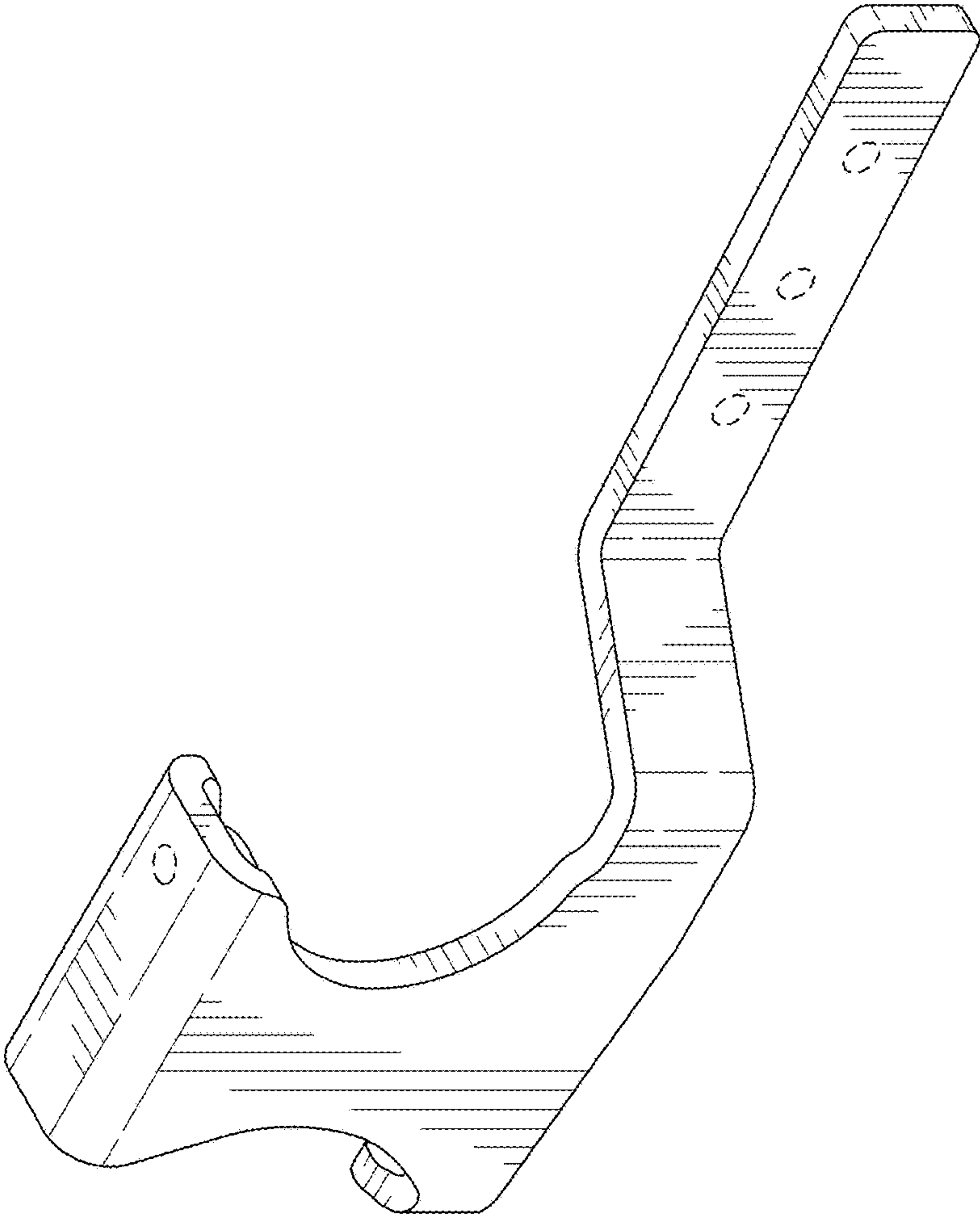


FIG. 9

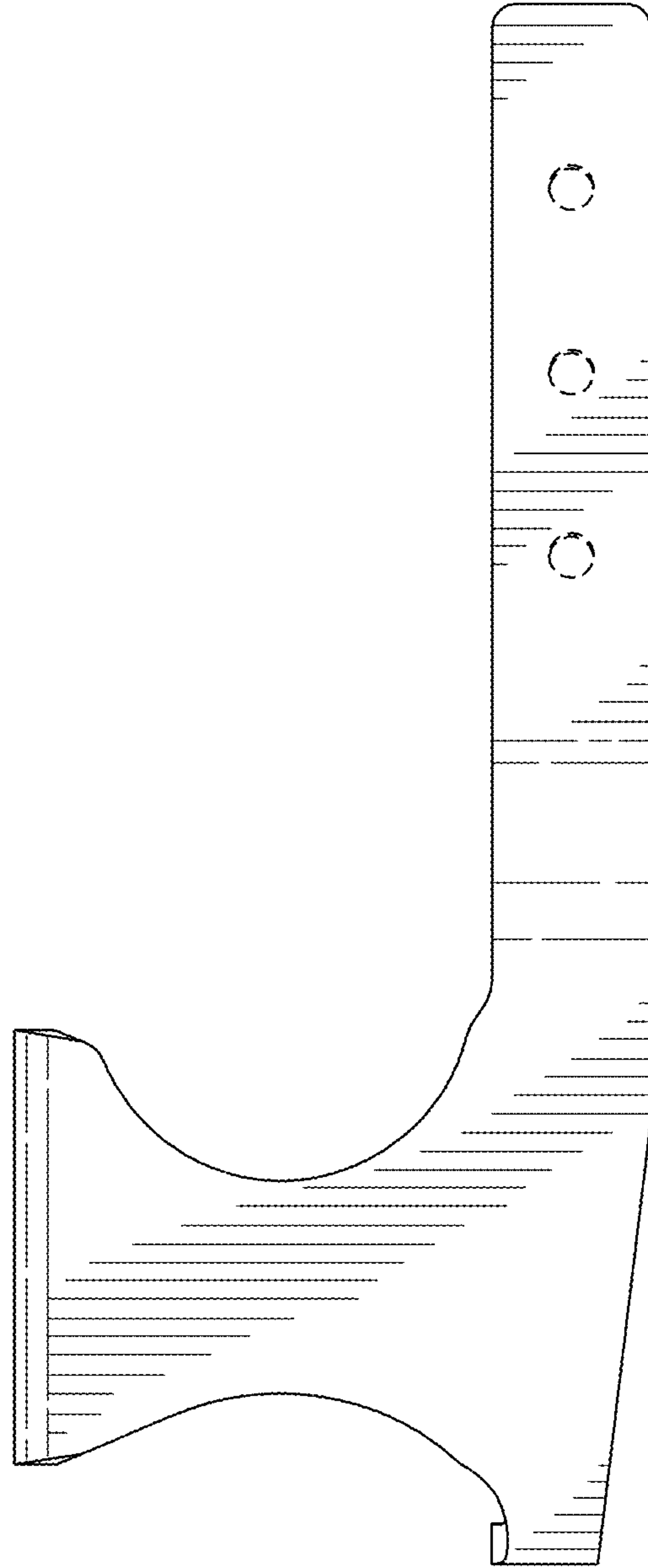


FIG. 10

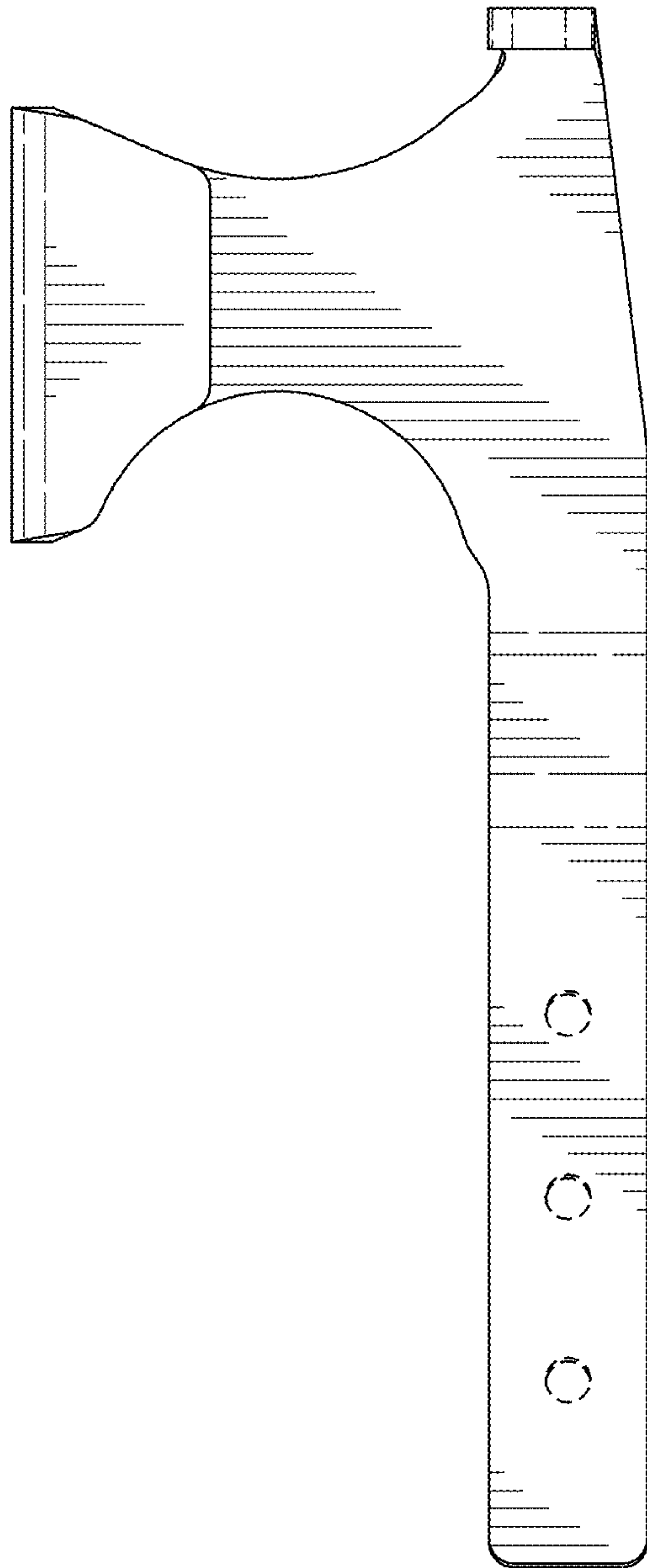


FIG. 11

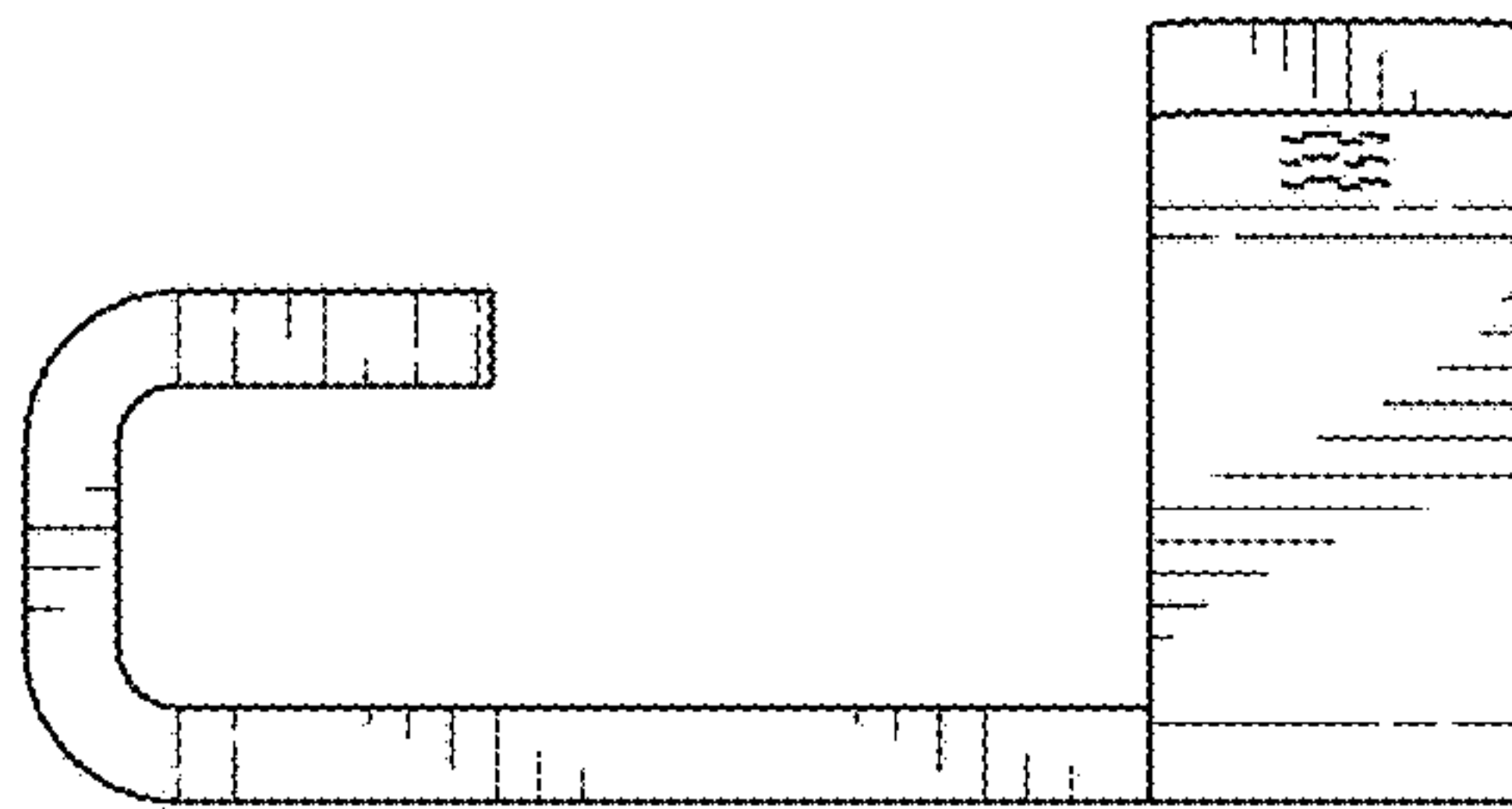


FIG. 12

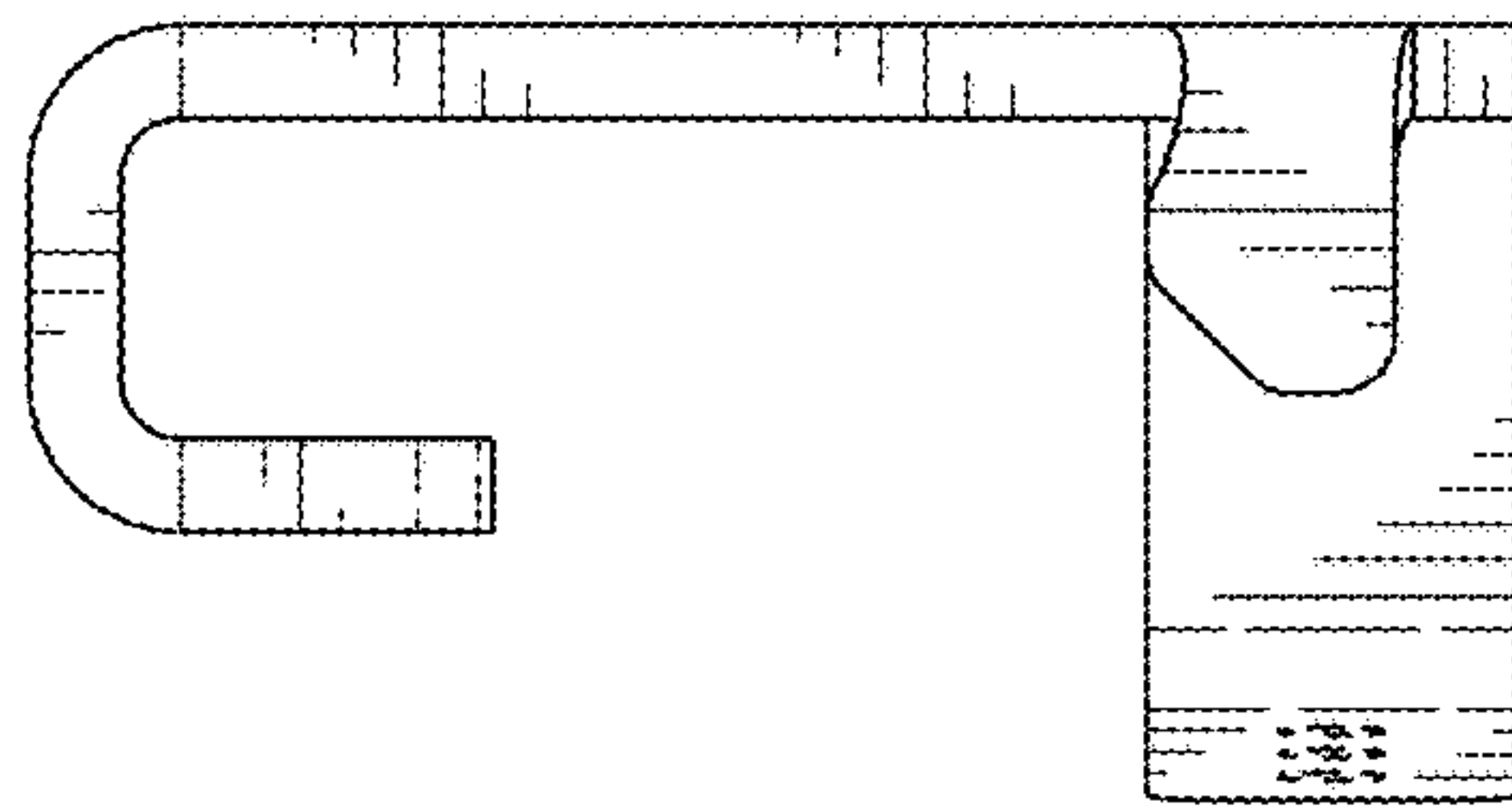


FIG. 13

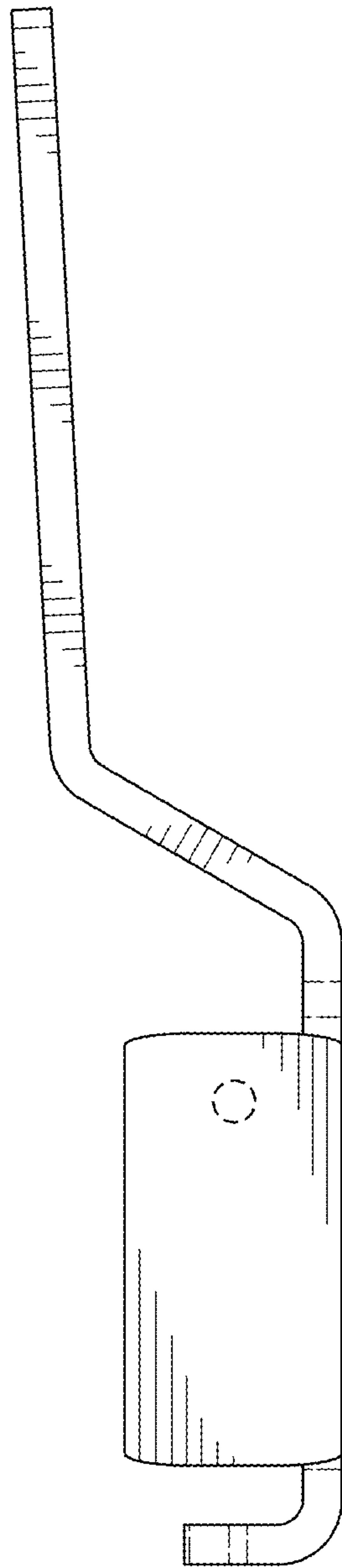


FIG. 14

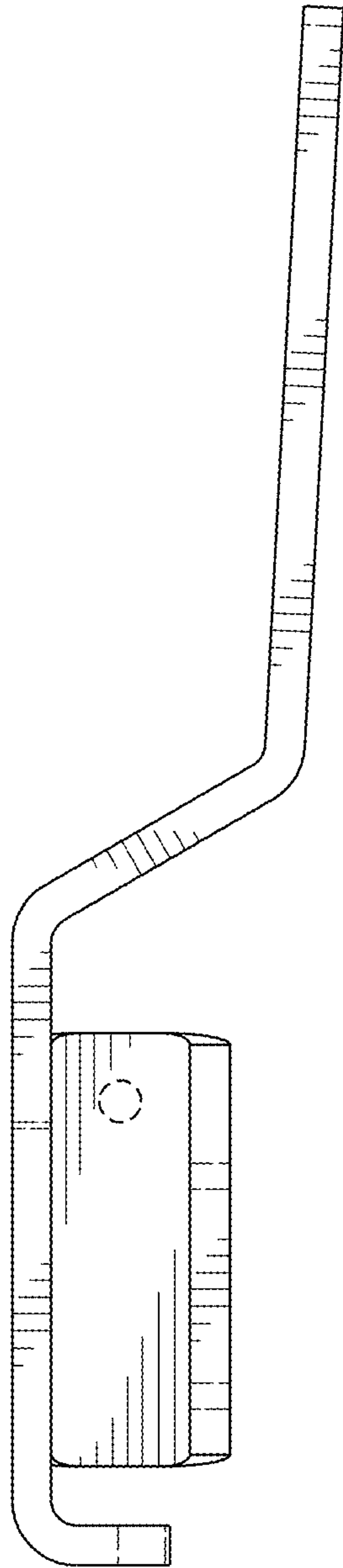


FIG. 15

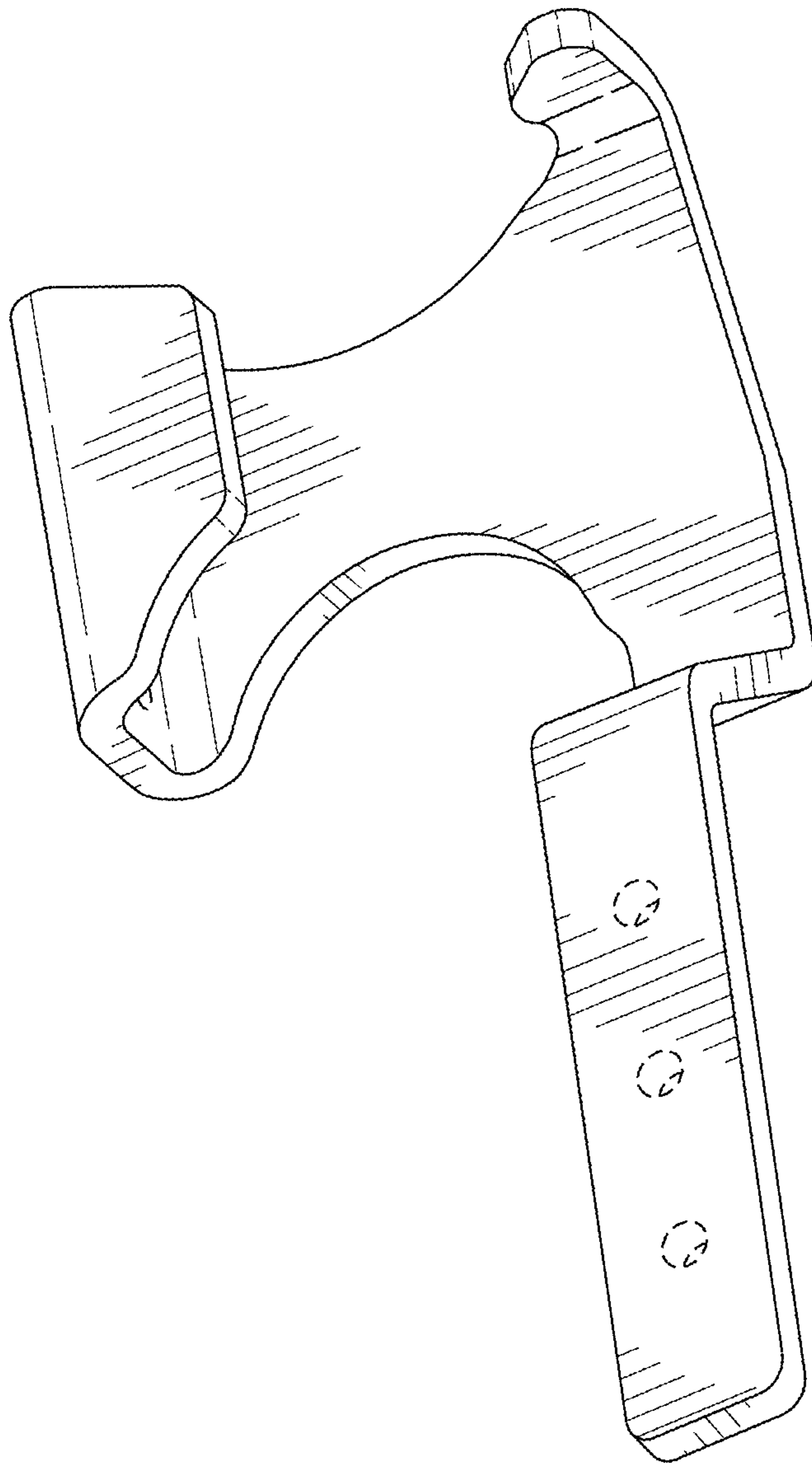


FIG. 16