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(12) **United States Design Patent** (10) **Patent No.:** **US D884,173 S**
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(54) **BONE PUNCH**

(56) **References Cited**

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U.S. PATENT DOCUMENTS

D284,219 S * 6/1986 Green D24/145
5,273,519 A * 12/1993 Koros A61B 17/1611
606/170
D379,228 S * 5/1997 Rahimzadeh D24/143
5,961,531 A * 10/1999 Weber A61B 17/1611
604/22
6,126,674 A * 10/2000 Janzen A61B 17/1611
606/1
6,200,320 B1 * 3/2001 Michelson A61B 10/0096
606/170
D460,553 S * 7/2002 Koros D24/133
D463,859 S * 10/2002 Koros D24/147
D465,281 S * 11/2002 Lang D24/133
D535,398 S * 1/2007 Stammberger D24/133

(Continued)

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(30) **Foreign Application Priority Data**

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Aug. 11, 2017 (EM) 004143642-0003

(57) **CLAIM**

The ornamental design for a bone punch, as shown and described.

(51) **LOC (12) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/147**

DESCRIPTION

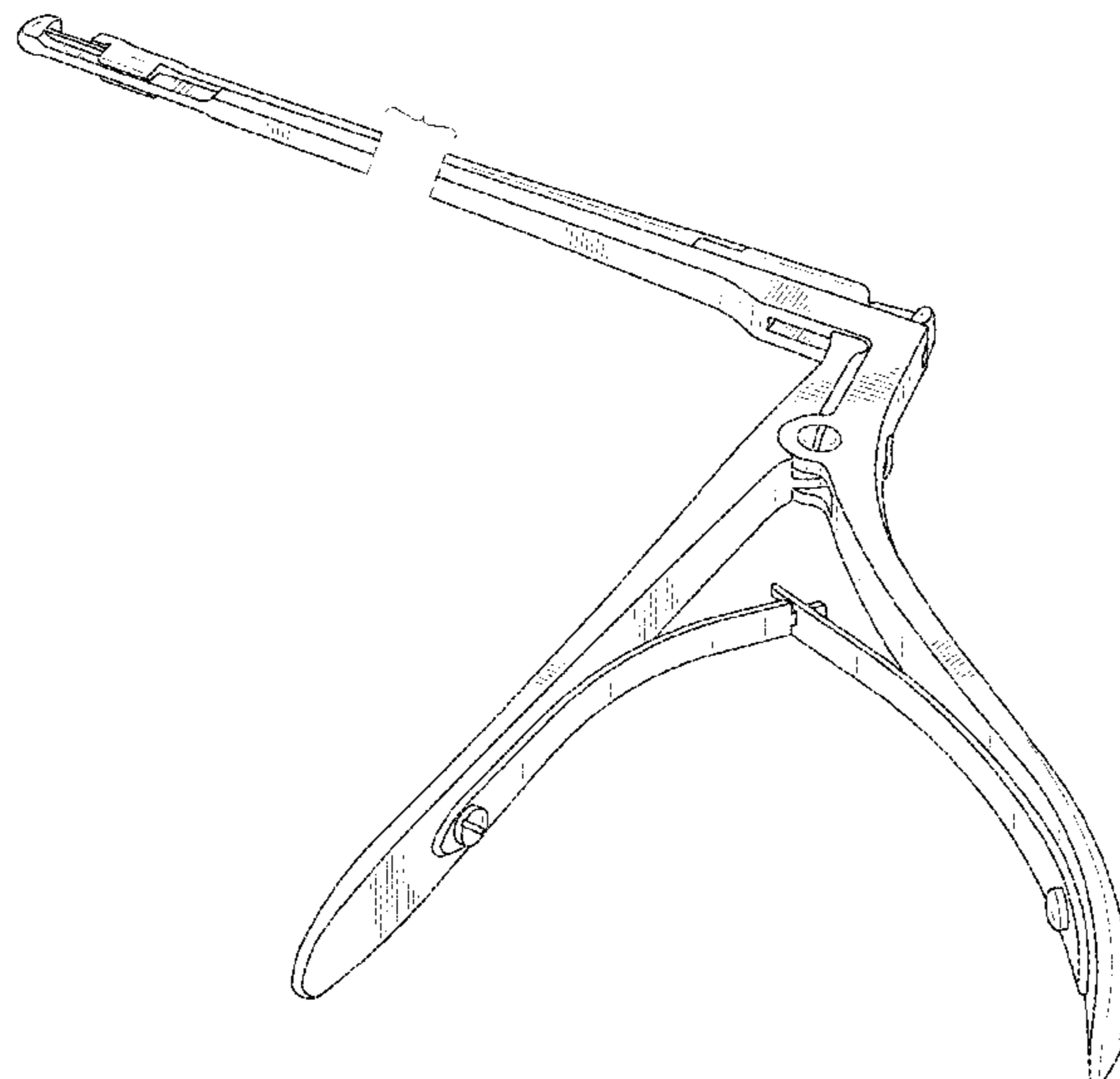
(58) **Field of Classification Search**

USPC D24/133, 143, 144, 145, 146, 147, 170
CPC . A61B 10/04; A61B 17/1604; A61B 17/1611;
A61B 17/1679; A61B 17/1688; A61B
17/24; A61B 17/29; A61B 17/32053;
A61B 2017/00398; A61B 2017/00464;
A61B 2017/00477; A61B 2017/2926;
A61B 2017/2946; A61B 2090/0813;
A61B 90/03; A61B 10/0096; A61B
10/025; A61B 17/1671; A61B 17/32002;
A61B 2010/0225; A61B 2017/0023;
A61B 2017/0046; A61B 2017/00473;
A61B 2017/00969; A61B 2017/292;
A61B 2017/2923

FIG. 1 is a front perspective view of a bone punch.
FIG. 2 is a front view of the bone punch of FIG. 1.
FIG. 3 is a rear view of the bone punch of FIG. 1.
FIG. 4 is a left side view of the bone punch of FIG. 1.
FIG. 5 is a right side view of the bone punch of FIG. 1.
FIG. 6 is a top view of the bone punch of FIG. 1; and,
FIG. 7 is a bottom view of the bone punch of FIG. 1.
The broken lines shown in FIGS. 1-7 illustrate a symbolic
break in length. The appearance of any portion of the bone
punch between the break lines forms no part of the claimed
design.

See application file for complete search history.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D548,836	S *	8/2007	Lang	D24/146
D611,146	S *	3/2010	Way	D24/133
D619,252	S *	7/2010	Way	D24/133
D619,253	S *	7/2010	Way	D24/133
D646,784	S *	10/2011	Solingen	D24/147
9,089,345	B2 *	7/2015	Funnell	A61B 17/1604
2009/0082799	A1 *	3/2009	Haunschild	A61B 17/1604 606/184
2019/0029704	A1 *	1/2019	Rominger	A61B 17/1611

* cited by examiner

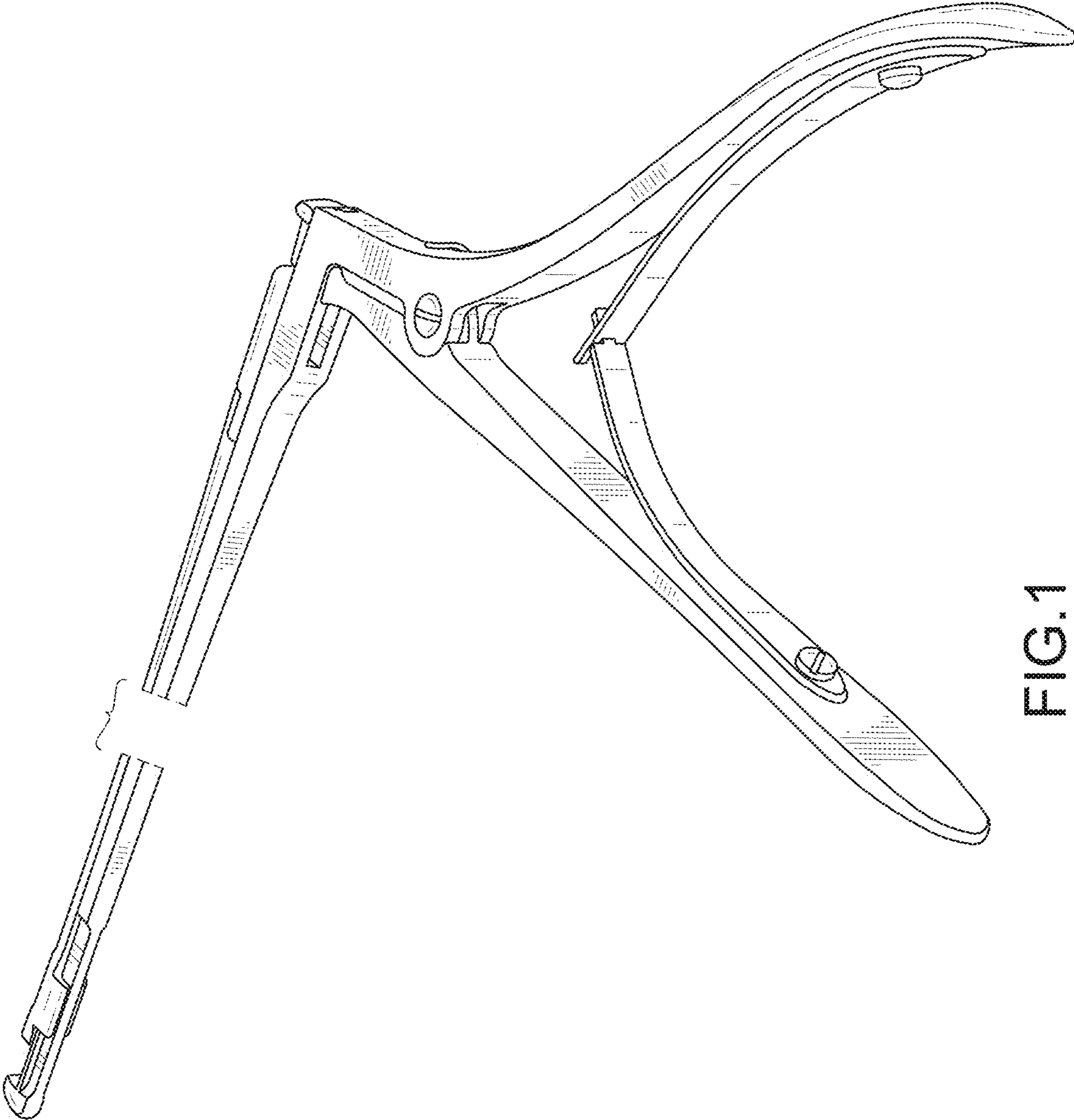


FIG.1

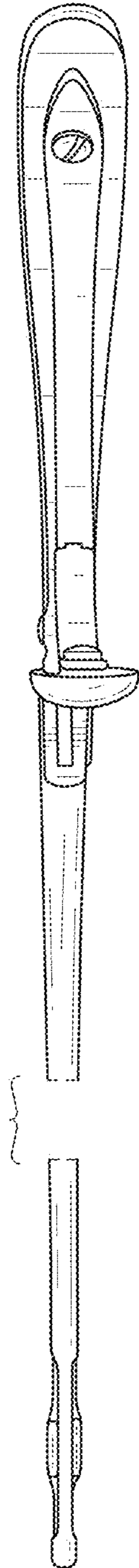


FIG.2

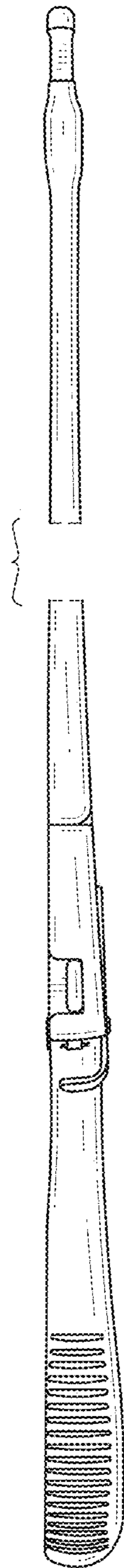


FIG. 3

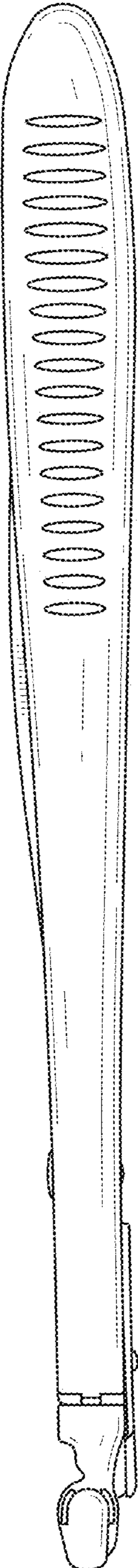


FIG.4

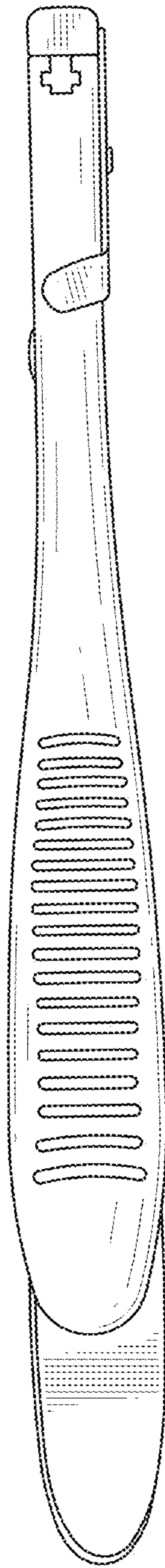


FIG.5

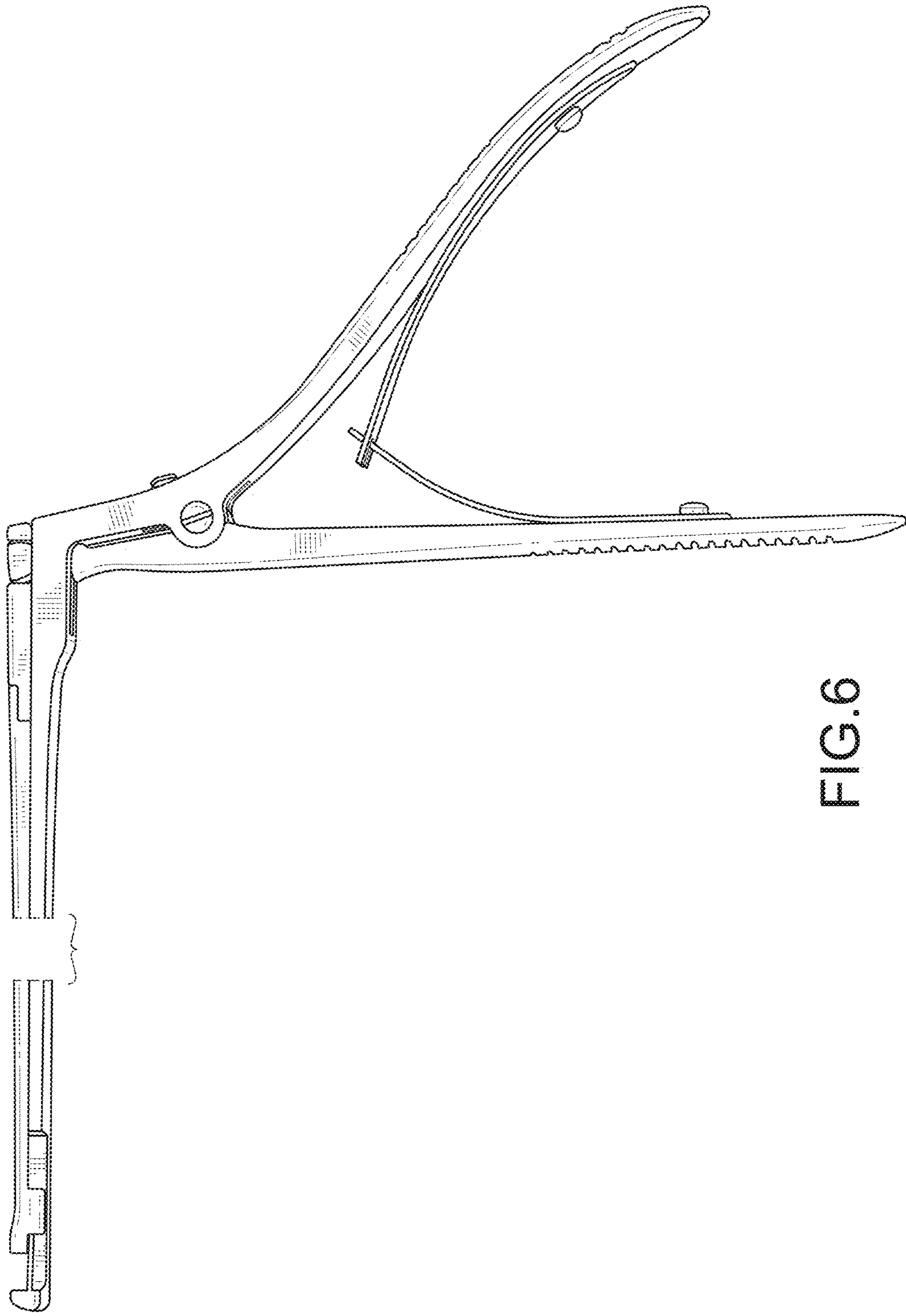


FIG.6

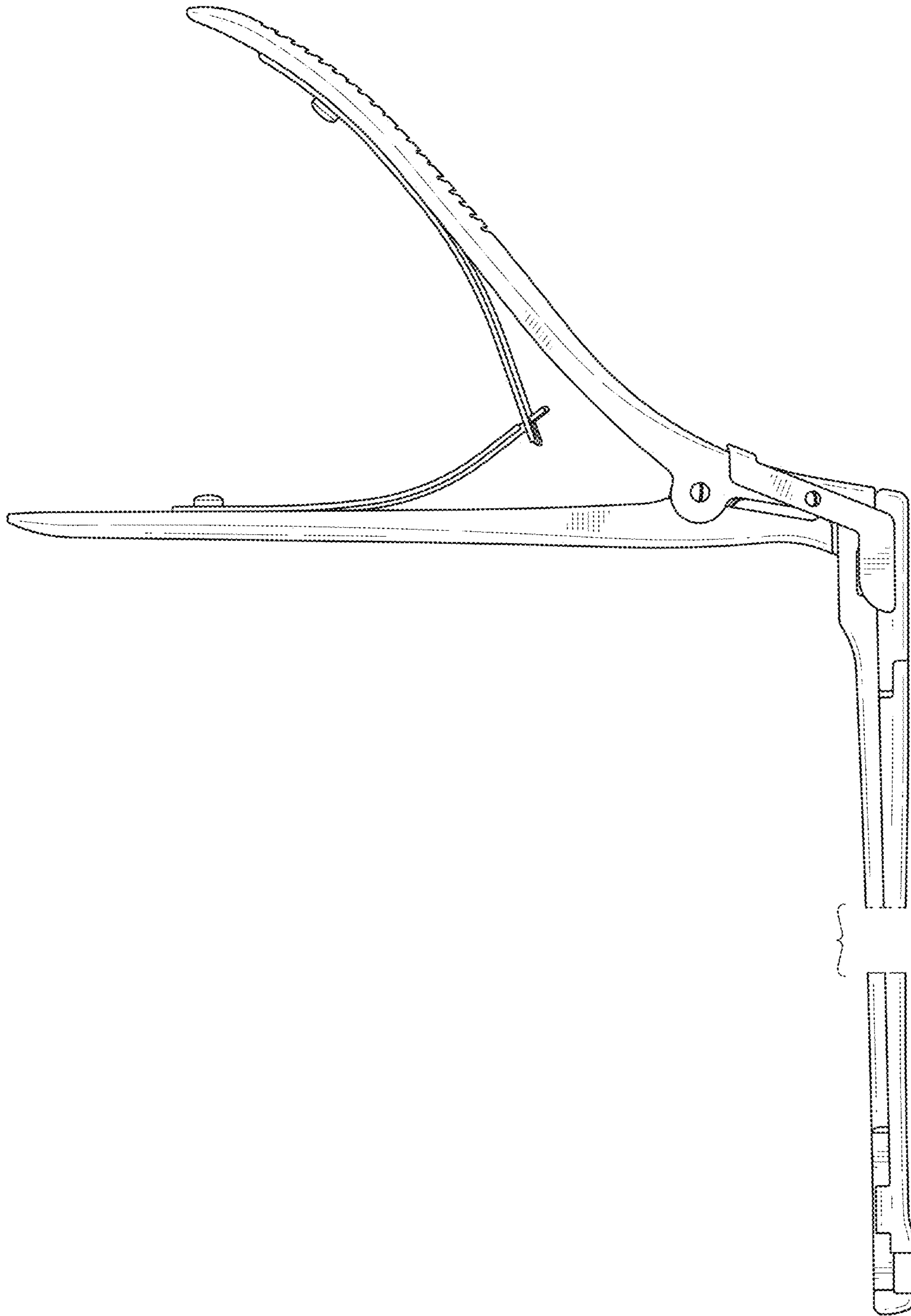


FIG.7