



US00D930830S

(12) **United States Design Patent** (10) **Patent No.:** **US D930,830 S**  
**Pfeffer et al.** (45) **Date of Patent:** **\*\* Sep. 14, 2021**

- (54) **SHAFT ATTACHABLE MEDICAL INSTRUMENT**
- (71) Applicant: **KARL STORZ SE & CO. KG**, Tuttlingen (DE)
- (72) Inventors: **Marian Pfeffer**, Tuttlingen (DE); **Ann-Kathrin Huber**, Tuttlingen (DE); **Daniel Kaercher**, Tuttlingen (DE); **Regis Besse**, Guyancourt (FR); **Yann Thouement**, Archamps (FR)
- (73) Assignee: **KARL STORZ SE & Co. KG**, Tuttlingen (DE)
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/699,421**
- (22) Filed: **Jul. 25, 2019**
- (30) **Foreign Application Priority Data**

- Jan. 25, 2019 (EM) ..... 006085023-0002
- (51) **LOC (13) Cl.** ..... **24-02**
- (52) **U.S. Cl.**  
USPC ..... **D24/143**
- (58) **Field of Classification Search**  
USPC ..... D24/133, 143, 145, 146, 147, 148, 137, D24/138, 144, 108, 117, 135, 141, 222, D24/149; D8/51, 68, 107, 57  
CPC ..... A61B 17/0684; A61B 17/068; A61B 17/0469; A61B 17/320092; A61B 17/32; A61B 18/1445; A61B 1/00087; A61B 1/00098; A61B 1/0052; A61B 1/00101; A61B 1/00066; A61B 1/0057; A61B 1/0011; A61B 1/00016; A61B 1/00; A61B 1/00052; A61B 1/267; A61B 17/122; A61B 17/28; A61B 17/282; A61B 17/2841; A61B 17/285; A61B 17/29; A61B 17/2909; A61B 17/295; A61B 2017/2926

See application file for complete search history.

- (56) **References Cited**
- U.S. PATENT DOCUMENTS
- |              |         |                   |         |
|--------------|---------|-------------------|---------|
| D378,611 S * | 3/1997  | Croley .....      | D24/144 |
| D493,888 S * | 8/2004  | Reschke .....     | D24/133 |
| D553,739 S * | 10/2007 | Stammberger ..... | D24/133 |
| D569,509 S * | 5/2008  | Melanson .....    | D24/133 |
| D621,932 S * | 8/2010  | Sonleiter .....   | D24/133 |
| D624,649 S * | 9/2010  | Seeh .....        | D24/137 |
- (Continued)

*Primary Examiner* — T Chase Nelson  
*Assistant Examiner* — Kelly L Gross  
(74) *Attorney, Agent, or Firm* — Muncy, Geissler, Olds & Lowe, P.C.

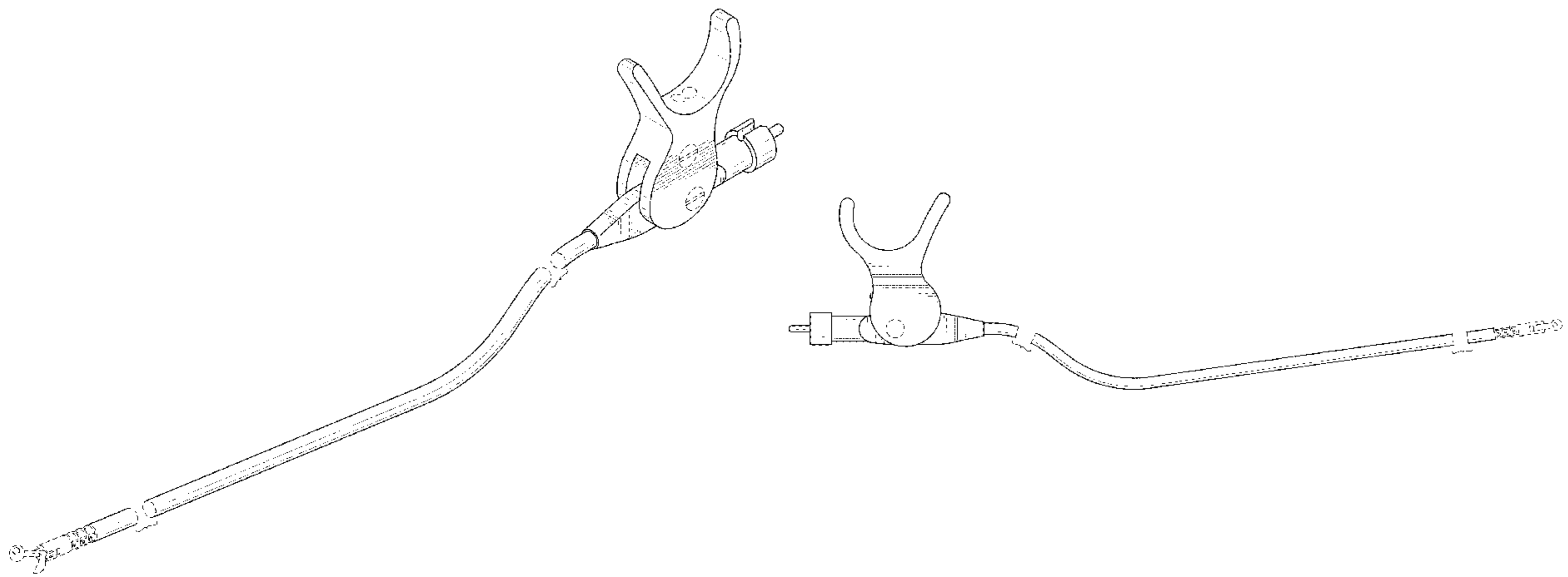
(57) **CLAIM**

The ornamental design for a shaft attachable medical instrument, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a shaft attachable medical instrument according to the present invention. FIG. 2 is a front view of the shaft attachable medical instrument of FIG. 1. FIG. 3 is a rear view of the shaft attachable medical instrument of FIG. 1. FIG. 4 is a left side view of the shaft attachable medical instrument of FIG. 1. FIG. 5 is a right side view of the shaft attachable medical instrument of FIG. 1. FIG. 6 is a top view of the shaft attachable medical instrument of FIG. 1; and, FIG. 7 is a bottom view of the shaft attachable medical instrument of FIG. 1. The dashed lines illustrate environment that does not form part of the claimed design. The dashed lines with brackets are symbolic breaks, and any portion of the shaft attachable medical instrument between the breakaways forms no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D624,651 S *	9/2010	Leroy	D24/143	9,872,724 B2 *	1/2018	Walberg	A61B 18/1445
D624,652 S *	9/2010	Carus	D24/143	9,872,726 B2 *	1/2018	Morisaki	A61B 18/1206
D625,806 S *	10/2010	Leroy	D24/143	9,968,343 B2 *	5/2018	Jeong	A61B 17/29
D625,807 S *	10/2010	Leroy	D24/143	10,016,207 B2 *	7/2018	Suzuki	A61B 34/70
D625,808 S *	10/2010	Leroy	D24/143	D828,558 S *	9/2018	Haerle	D24/146
D625,809 S *	10/2010	Cuschieri	D24/143	10,136,884 B2 *	11/2018	Graul	A61B 17/0401
D625,810 S *	10/2010	Cuschieri	D24/143	D840,034 S	2/2019	Pfeffer et al.	
D625,811 S *	10/2010	Cuschieri	D24/143	D844,139 S *	3/2019	Heard	D24/144
D625,812 S *	10/2010	Dapri	D24/143	D844,141 S *	3/2019	Lautemann	D24/146
D625,813 S *	10/2010	Dapri	D24/143	D845,479 S *	4/2019	Lautemann	D24/146
D625,814 S *	10/2010	Leroy	D24/143	D845,480 S *	4/2019	Lautemann	D24/146
D629,899 S *	12/2010	Meinero	D24/138	D845,481 S *	4/2019	Lautemann	D24/146
D638,938 S *	5/2011	Doll	D24/140	D845,482 S *	4/2019	Lautemann	D24/146
D641,872 S *	7/2011	Solingen	D24/143	D845,483 S *	4/2019	Lautemann	D24/146
D641,873 S *	7/2011	Solingen	D24/143	D847,992 S *	5/2019	Adams	D24/146
D641,874 S *	7/2011	Solingen	D24/143	D852,358 S *	6/2019	Matuschek	D24/138
D646,784 S *	10/2011	Solingen	D24/147	D852,955 S	7/2019	Pfeffer et al.	
D677,386 S *	3/2013	Bisleri	D24/148	D854,151 S *	7/2019	Shelton, IV	D24/145
D683,852 S *	6/2013	Gonzales	D24/133	10,383,648 B2 *	8/2019	Sholev	A61B 17/00234
D700,324 S *	2/2014	Affonce	D24/144	D858,766 S *	9/2019	Pfeffer	D24/143
D708,328 S *	7/2014	Bannerman	D24/141	D860,441 S *	9/2019	Spycher	D24/133
D719,654 S *	12/2014	Weitkamp	D24/143	D860,452 S	9/2019	Pfeffer et al.	
9,028,492 B2 *	5/2015	Kerr	A61B 18/1445 606/51	D863,007 S *	10/2019	Lopez	D8/26
9,113,879 B2 *	8/2015	Felder	A61B 17/068	D871,574 S *	12/2019	Lohk	D24/138
D741,483 S *	10/2015	Solingen	D24/146	D871,575 S *	12/2019	Lohk	D24/138
9,204,923 B2 *	12/2015	Manzo	A61B 34/71	10,519,677 B2 *	12/2019	Fujii	E04G 21/123
D750,240 S *	2/2016	Gonzales	D24/133	D874,647 S *	2/2020	Cranfield	D24/138
D753,298 S *	4/2016	Hayamizu	D24/138	10,617,439 B2 *	4/2020	Deodhar	A61B 17/295
9,375,260 B2 *	6/2016	Kerr	A61B 18/1445	10,645,260 B2 *	5/2020	Matthison-Hansen	
9,402,619 B2 *	8/2016	Grace	A61B 17/062				H04N 7/102
9,433,422 B2 *	9/2016	Crainich	A61B 17/1285	D888,950 S *	6/2020	Kuchta	D24/144
9,451,947 B2 *	9/2016	Benson	A61B 17/0469	D888,953 S *	6/2020	Baxter, III	D24/145
D771,808 S *	11/2016	Efinger	D24/137	10,765,804 B2 *	9/2020	Sohn	A61M 5/158
D775,332 S *	12/2016	Merz	D24/133	10,779,710 B2 *	9/2020	Matthison-Hansen	
D777,914 S *	1/2017	Wapler	D24/133				A61B 1/0011
9,566,083 B2 *	2/2017	Slater	A61B 17/3201	10,799,224 B2 *	10/2020	Tasci	A61B 17/00234
9,579,146 B2 *	2/2017	Johnson	A61B 18/1445	10,842,518 B2 *	11/2020	Williams	A61B 17/12
D788,917 S *	6/2017	Lautemann	D24/143	10,842,522 B2 *	11/2020	Messerly	A61B 17/320092
D788,920 S *	6/2017	Lautemann	D24/143	D904,608 S *	12/2020	Attinger	D24/138
D788,921 S *	6/2017	Unger	D24/143	10,864,003 B2 *	12/2020	Ding	A61B 17/29
D788,922 S *	6/2017	Unger	D24/143	10,864,004 B2 *	12/2020	Fujii	A61B 34/30
D789,535 S *	6/2017	Wittner	D24/146	D912,814 S *	3/2021	Merz	D24/143
D790,697 S *	6/2017	Torras	D24/138	D912,815 S *	3/2021	Merz	D24/143
9,668,805 B2 *	6/2017	Batchelor	A61B 18/1442	D912,817 S *	3/2021	Merz	D24/143
D791,317 S *	7/2017	Bresco Torras	D24/138	D915,590 S *	4/2021	Fujisaki	D24/146
9,700,335 B2 *	7/2017	Reinauer	A61B 17/29	D917,041 S *	4/2021	Stengele	D24/112
D796,041 S *	8/2017	Preis	D24/143	10,973,569 B2 *	4/2021	Robinson	A61B 18/1442
9,814,480 B2 *	11/2017	Tadano	A61B 34/71	10,987,153 B2 *	4/2021	Wang	A61B 18/1442
9,833,232 B2 *	12/2017	Woodard, Jr.	A61B 17/29	D920,510 S *	5/2021	Funakoshi	D24/138
				D923,176 S *	6/2021	Bradley	D24/144
				D924,401 S *	7/2021	Wittke	D24/146
				2017/0150950 A1 *	6/2017	Thouement	A61B 17/00

\* cited by examiner

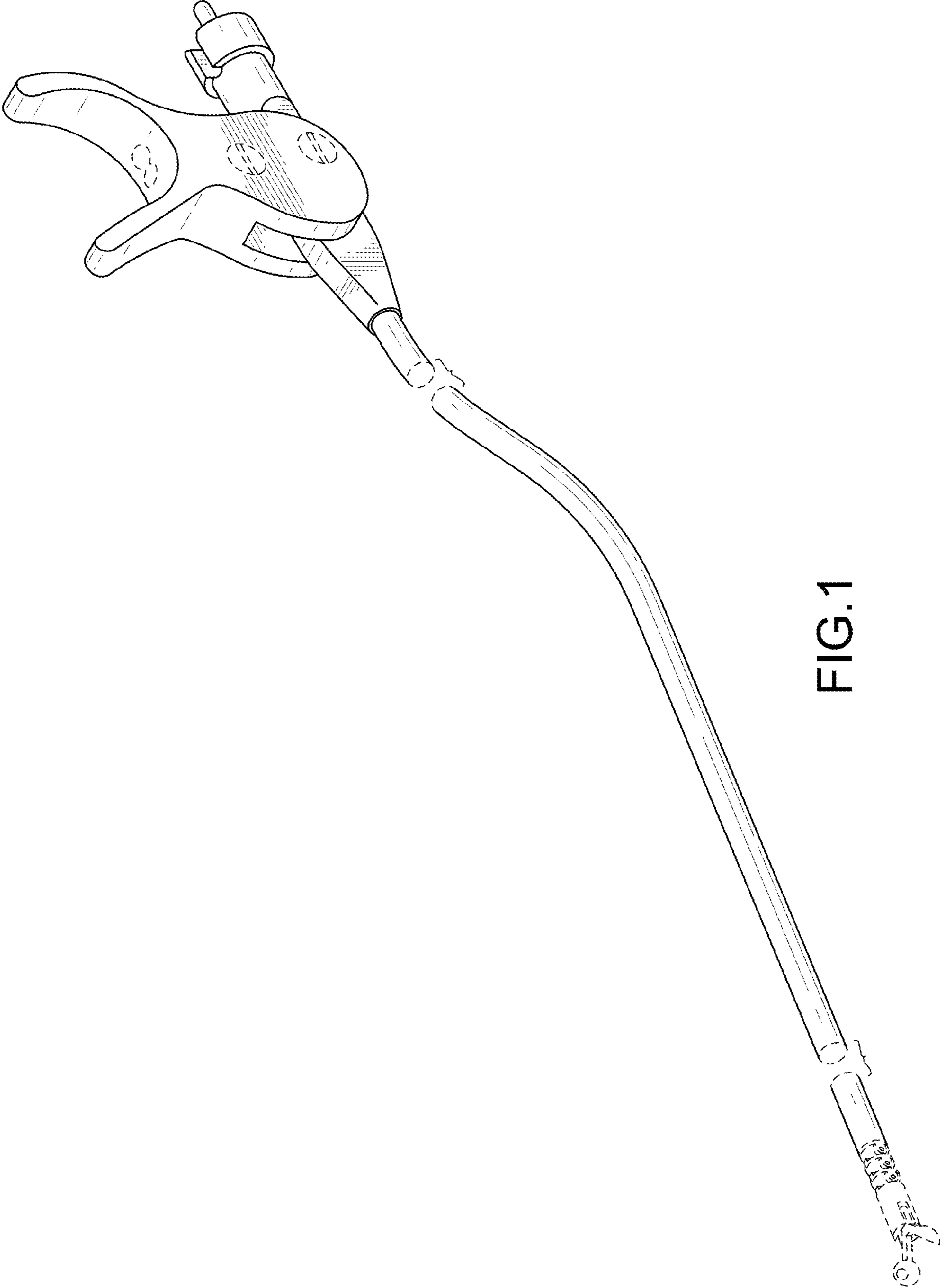


FIG. 1

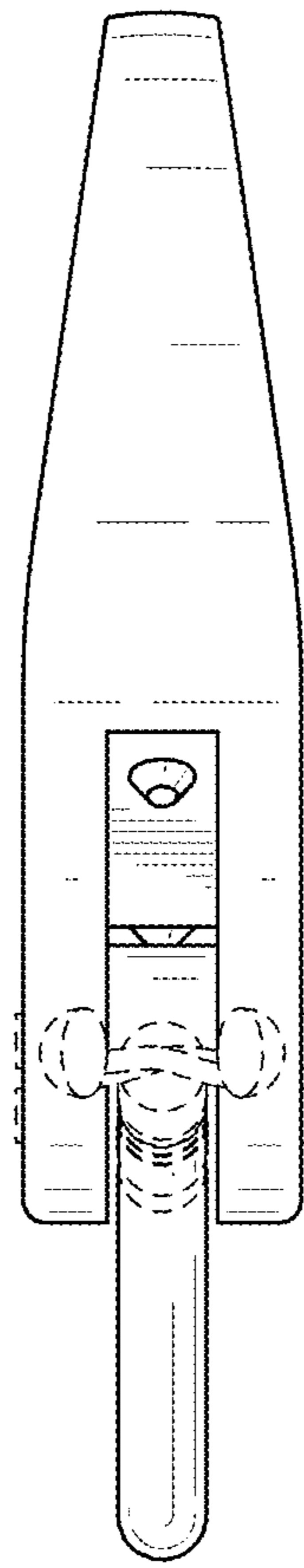


FIG.2

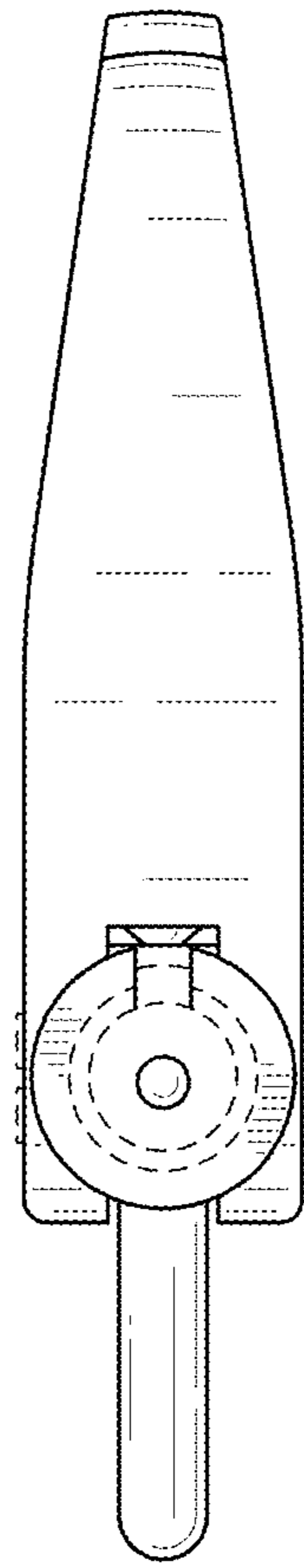


FIG.3

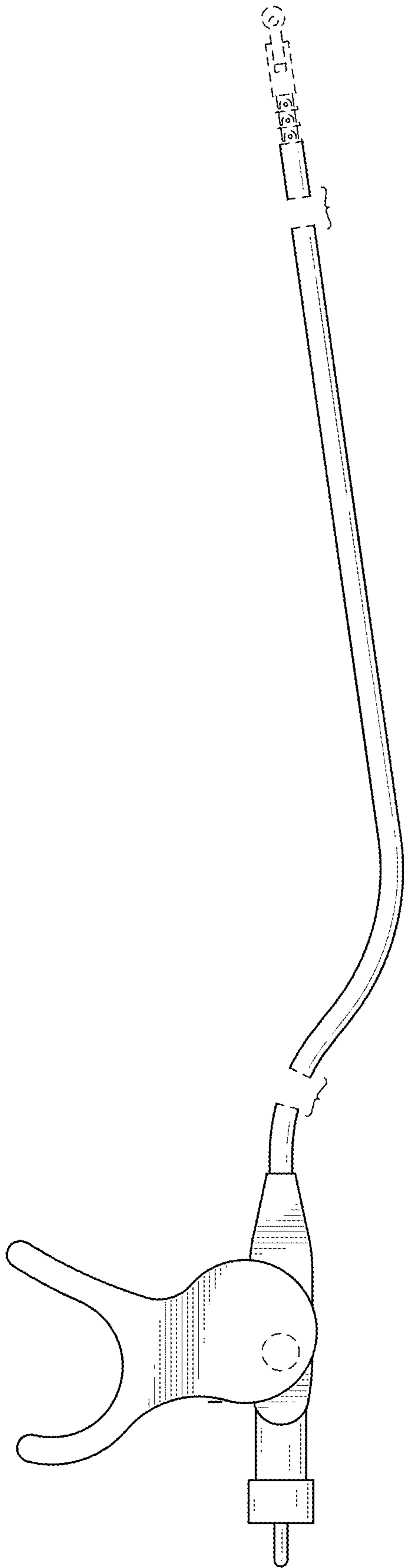


FIG.4

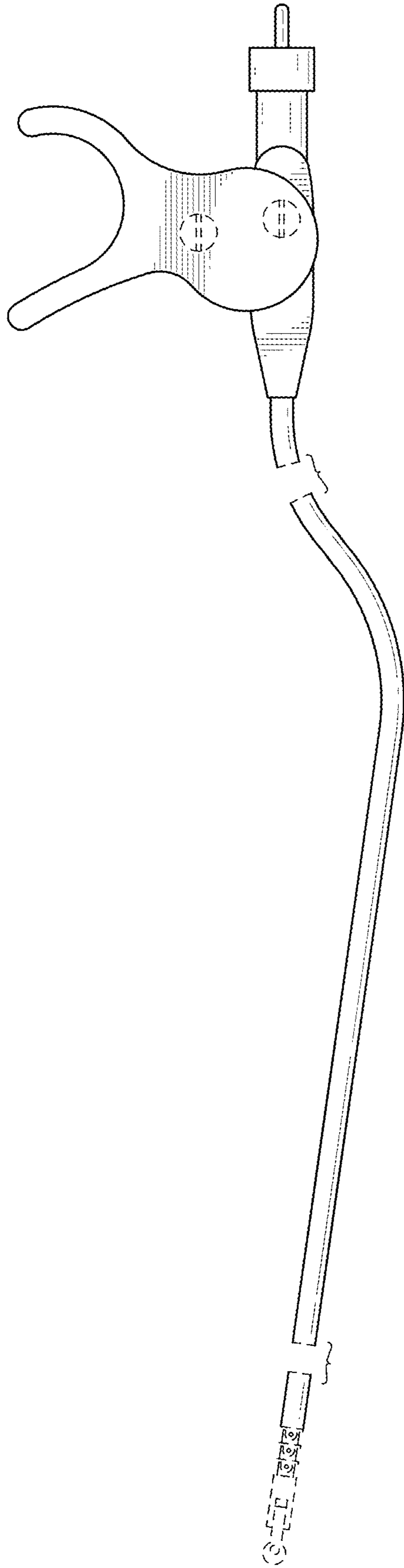


FIG.5

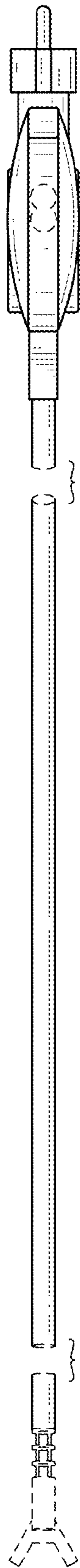


FIG.6



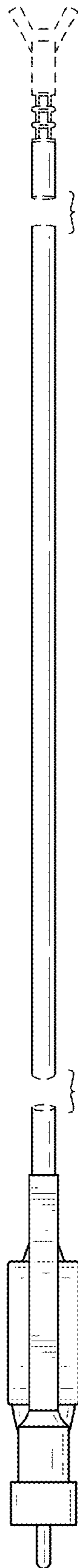


FIG.7