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(12) **United States Design Patent** (10) **Patent No.:** **US D961,074 S**  
**Pfeffer et al.** (45) **Date of Patent:** **\*\* Aug. 16, 2022**

- (54) **SHAFT ATTACHABLE MEDICAL INSTRUMENT**
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- (52) **U.S. Cl.**  
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- (58) **Field of Classification Search**  
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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 |
| D624,651 S * | 9/2010  | Leroy .....       | D24/143 |
| D624,652 S * | 9/2010  | Carus .....       | D24/143 |
- (Continued)

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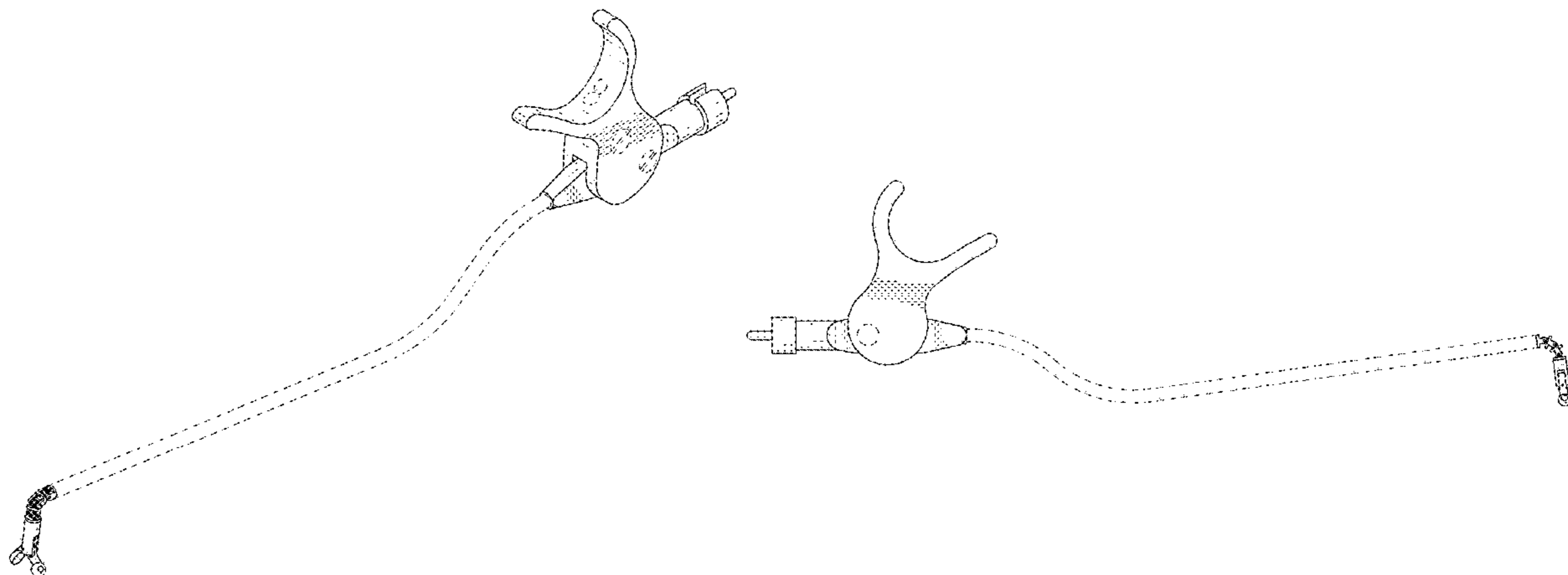
(57) **CLAIM**

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 a part of the claimed design, and no claim is made to the material illustrated with dashed lines.

**1 Claim, 7 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D625,806 S \* 10/2010 Leroy ..... D24/143  
 D625,807 S \* 10/2010 Leroy ..... D24/143  
 D625,808 S \* 10/2010 Leroy ..... D24/143  
 D625,809 S \* 10/2010 Cuschieri ..... D24/143  
 D625,810 S \* 10/2010 Cuschieri ..... D24/143  
 D625,811 S \* 10/2010 Cuschieri ..... D24/143  
 D625,812 S \* 10/2010 Dapri ..... D24/143  
 D625,813 S \* 10/2010 Dapri ..... D24/143  
 D625,814 S \* 10/2010 Leroy ..... D24/143  
 D629,899 S \* 12/2010 Meinero ..... D24/138  
 D638,938 S \* 5/2011 Doll ..... D24/140  
 D641,872 S \* 7/2011 Solingen ..... D24/143  
 D641,873 S \* 7/2011 Solingen ..... D24/143  
 D641,874 S \* 7/2011 Solingen ..... D24/143  
 D646,784 S \* 10/2011 Solingen ..... D24/147  
 D677,386 S \* 3/2013 Bisleri ..... D24/148  
 D683,852 S \* 6/2013 Gonzales ..... D24/133  
 D700,324 S \* 2/2014 Affonce ..... D24/144  
 D708,328 S \* 7/2014 Bannerman ..... D24/141  
 D719,654 S \* 12/2014 Weitkamp ..... D24/143  
 9,028,492 B2 \* 5/2015 Kerr ..... A61B 18/1445  
 606/51  
 9,113,879 B2 \* 8/2015 Felder ..... A61B 17/068  
 D741,483 S \* 10/2015 Solingen ..... D24/146  
 9,204,923 B2 \* 12/2015 Manzo ..... A61B 34/71  
 D750,240 S \* 2/2016 Gonzales ..... D24/133  
 D753,298 S \* 4/2016 Hayamizu ..... D24/138  
 9,375,260 B2 \* 6/2016 Kerr ..... A61B 18/1445  
 9,402,619 B2 \* 8/2016 Grace ..... A61B 17/062  
 9,433,422 B2 \* 9/2016 Crainich ..... A61B 17/1285  
 9,451,947 B2 \* 9/2016 Benson ..... A61B 17/0469  
 D771,808 S \* 11/2016 Efinger ..... D24/137  
 D775,332 S \* 12/2016 Merz ..... D24/133  
 D777,914 S \* 1/2017 Wapler ..... D24/133  
 9,566,083 B2 \* 2/2017 Slater ..... A61B 17/3201  
 9,579,146 B2 \* 2/2017 Johnson ..... A61B 18/1445  
 D788,917 S \* 6/2017 Lautemann ..... D24/143  
 D788,920 S \* 6/2017 Lautemann ..... D24/143  
 D788,921 S \* 6/2017 Unger ..... D24/143  
 D788,922 S \* 6/2017 Unger ..... D24/143  
 D789,535 S \* 6/2017 Wittner ..... D24/146  
 D790,697 S \* 6/2017 Bresco Torras ..... D24/138  
 9,668,805 B2 \* 6/2017 Batchelor ..... A61B 18/1442  
 D791,317 S \* 7/2017 Bresco Torras ..... D24/138  
 9,700,335 B2 \* 7/2017 Reinauer ..... A61B 17/29  
 D796,041 S \* 8/2017 Preis ..... D24/143

9,814,480 B2 \* 11/2017 Tadano ..... A61B 34/71  
 9,833,232 B2 \* 12/2017 Woodard, Jr. .... A61B 17/29  
 9,872,724 B2 \* 1/2018 Walberg ..... A61B 18/1445  
 9,872,726 B2 \* 1/2018 Morisaki ..... A61B 18/1206  
 9,968,343 B2 \* 5/2018 Jeong ..... A61B 17/29  
 10,016,207 B2 \* 7/2018 Suzuki ..... A61B 34/70  
 D828,558 S \* 9/2018 Haerle ..... D24/146  
 10,136,884 B2 \* 11/2018 Graul ..... A61B 17/0401  
 D840,034 S 2/2019 Pfeffer et al.  
 D844,139 S \* 3/2019 Heard ..... D24/144  
 D844,141 S \* 3/2019 Lautemann ..... D24/146  
 D845,479 S \* 4/2019 Lautemann ..... D24/146  
 D845,480 S \* 4/2019 Lautemann ..... D24/146  
 D845,481 S \* 4/2019 Lautemann ..... D24/146  
 D845,482 S \* 4/2019 Lautemann ..... D24/146  
 D845,483 S \* 4/2019 Lautemann ..... D24/146  
 D847,992 S \* 5/2019 Adams ..... D24/146  
 D852,358 S \* 6/2019 Matuschek ..... D24/138  
 D852,955 S 7/2019 Pfeffer et al.  
 D854,151 S \* 7/2019 Shelton, IV ..... D24/145  
 10,383,648 B2 \* 8/2019 Sholev ..... A61B 17/00234  
 D858,766 S 9/2019 Pfeffer et al.  
 D860,441 S \* 9/2019 Spycher ..... D24/133  
 D860,452 S 9/2019 Pfeffer et al.  
 D863,007 S \* 10/2019 Lopez ..... D8/26  
 D871,574 S \* 12/2019 Lohk ..... D24/138  
 D871,575 S \* 12/2019 Lohk ..... D24/138  
 10,519,677 B2 \* 12/2019 Fujii ..... E04G 21/123  
 D874,647 S \* 2/2020 Cranfield ..... D24/138  
 10,617,439 B2 \* 4/2020 Deodhar ..... A61B 17/295  
 10,645,260 B2 \* 5/2020 Matthison-Hansen .....  
 H04N 7/102  
 D888,950 S \* 6/2020 Kuchta ..... D24/144  
 D888,953 S \* 6/2020 Baxter, III ..... D24/145  
 10,765,804 B2 \* 9/2020 Sohn ..... A61M 5/158  
 10,779,710 B2 \* 9/2020 Matthison-Hansen .....  
 A61B 1/0011  
 10,799,224 B2 \* 10/2020 Tasci ..... A61B 17/00234  
 10,842,518 B2 \* 11/2020 Williams ..... A61B 17/12  
 10,842,522 B2 \* 11/2020 Messerly ..... A61B 17/32092  
 D904,608 S \* 12/2020 Attinger ..... D24/138  
 10,864,003 B2 \* 12/2020 Ding ..... A61B 17/29  
 10,864,004 B2 \* 12/2020 Fujii ..... A61B 34/30  
 D912,814 S \* 3/2021 Merz ..... D24/143  
 D912,815 S \* 3/2021 Merz ..... D24/143  
 D912,817 S \* 3/2021 Merz ..... D24/143  
 2017/0150950 A1 \* 6/2017 Thouement ..... A61B 17/00

\* cited by examiner

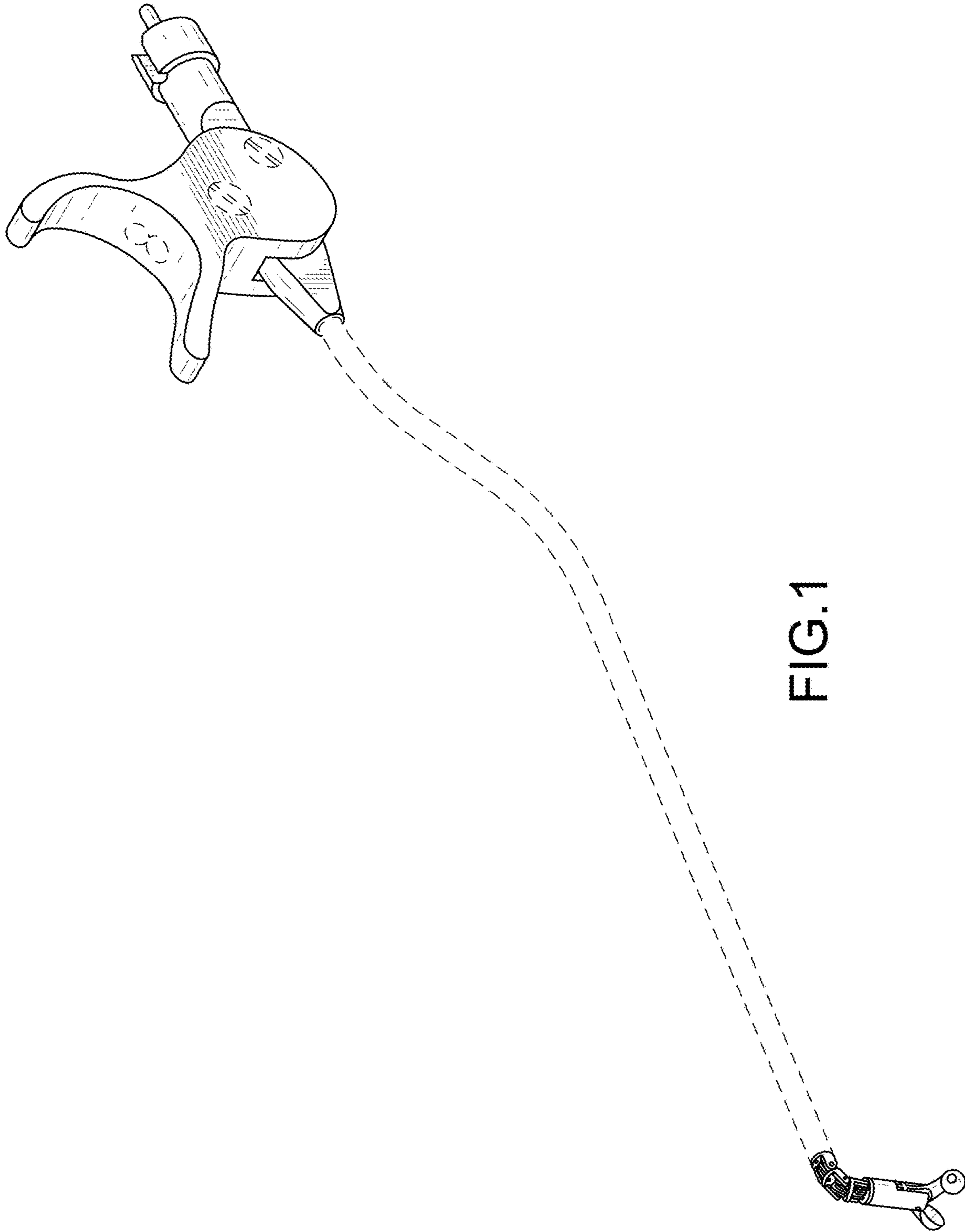


FIG. 1

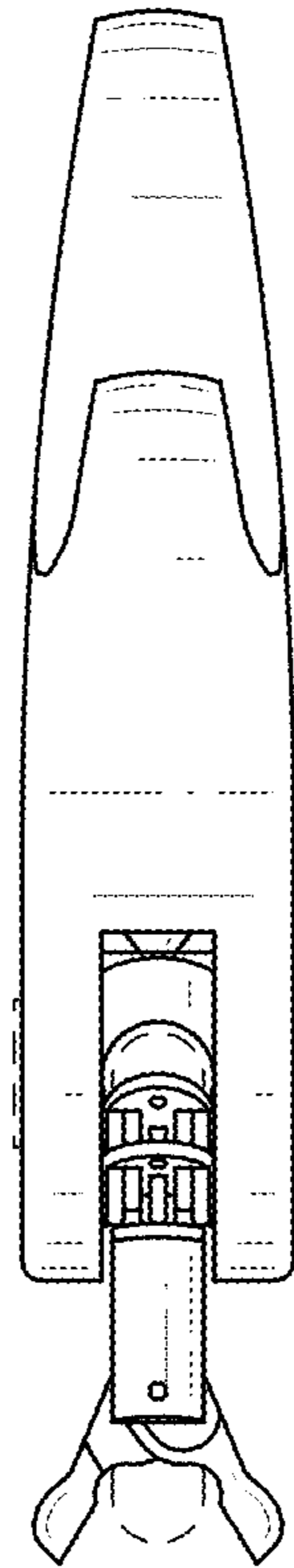


FIG.2

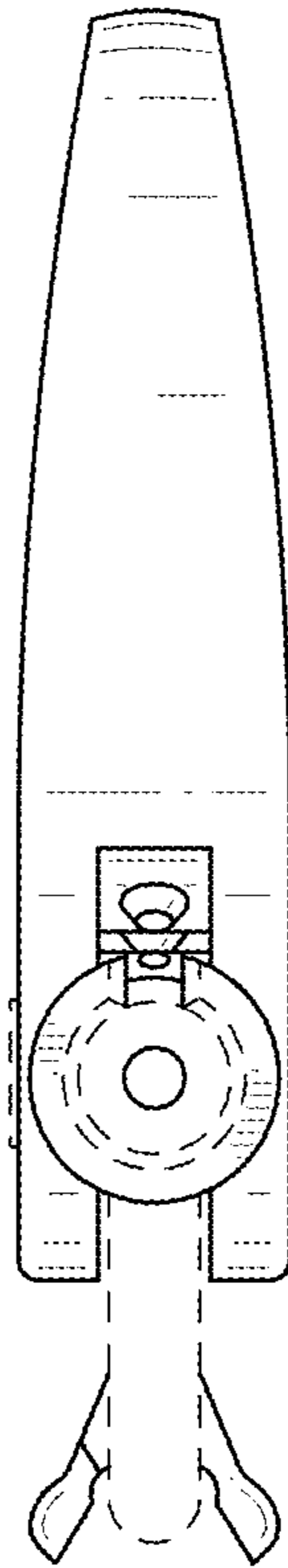


FIG.3

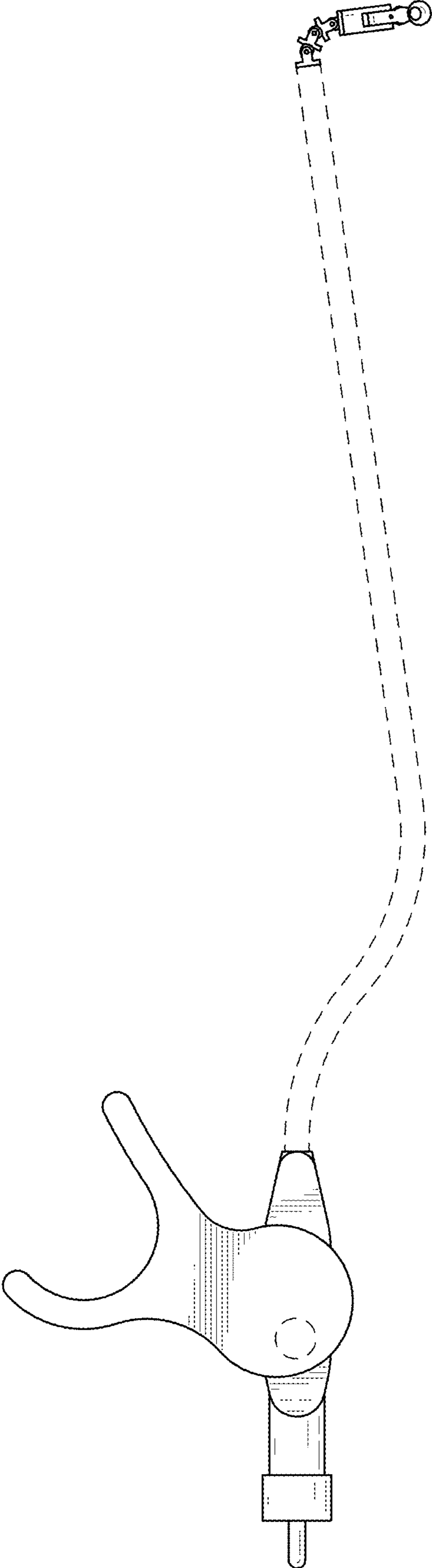


FIG.4

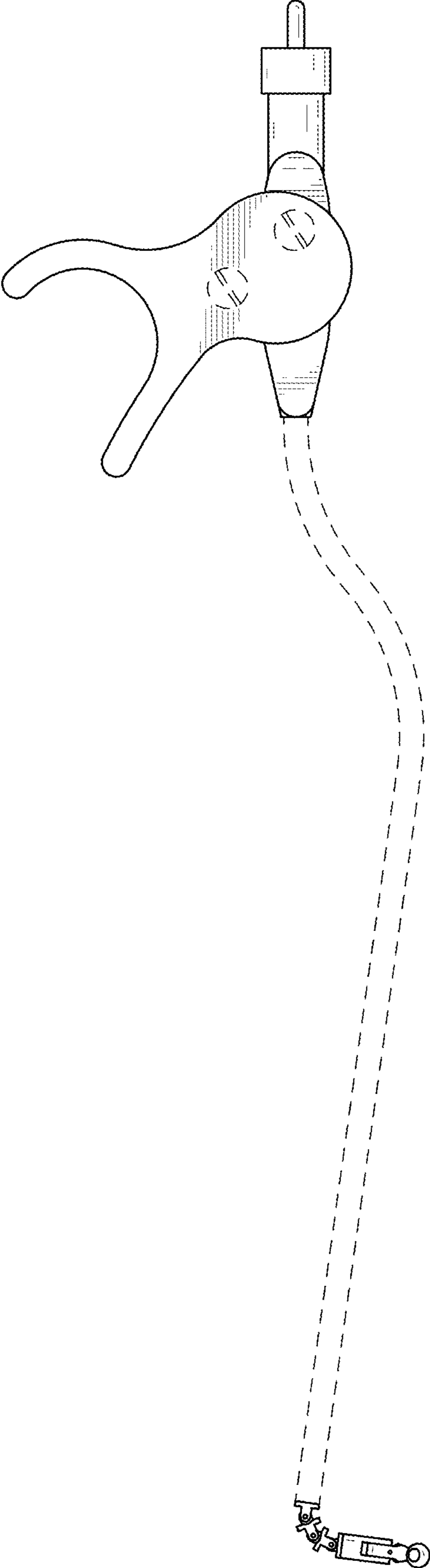


FIG.5

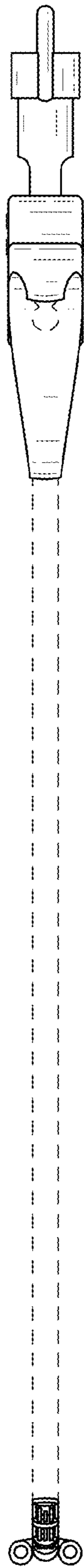


FIG.6



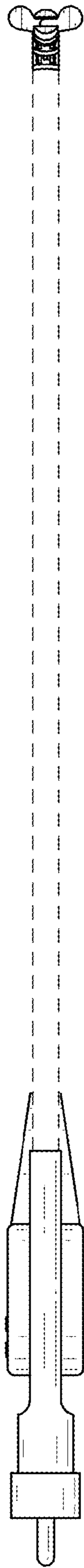


FIG.7