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(12)

United States Design Patent

Sykes et al.

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(54) MEDICAL INFLATION DEVICE

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(73) Assignee: Merit Medical Systems, Inc., South Jordan, UT (US)

(**) Term: 15 Years

(21) Appl. No.: 29/699,642

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(58) Field of Classification Search

USPC D24/127-131, 112-114, 133, 186; 606/181, 185; 604/97.03, 98.01, 99.01, 604/264, 272, 115, 232, 187, 158, 164.08, 604/192, 263, 163, 181, 184, 198, 227; 600/101, 139, 143; 128/200.24, 207.14, 128/207.15

CPC A61M 25/10182; A61M 2025/0002; A61M 25/10184; A61M 2205/3334; H01R 13/44

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

4,161,891 A 7/1979 Bossert

D285,241 S * 8/1986 Reece D23/231

4,651,738 A 3/1987 Demer et al.

4,655,749 A 4/1987 Fischione

4,723,938 A 2/1988 Goodin et al.

4,758,223 A 7/1988 Rydell

4,781,192 A 11/1988 Demer

4,919,121 A 4/1990 Rydell et al.

4,940,459 A 7/1990 Noce

5,047,015 A 9/1991 Foote et al.

5,057,078 A 10/1991 Foote et al.

D323,876 S * 2/1992 Furusawa D23/231

5,150,853 A 9/1992 Bernard et al.

5,163,904 A 11/1992 Lampropoulos et al.

(Continued)

FOREIGN PATENT DOCUMENTS

EP 0213765 3/1987

EP 0396353 3/1995

(Continued)

OTHER PUBLICATIONS

Merit Medical website, Basixtouch Inflation Device, Aug. 12, 2016,<https://www.merit.com/cardiac-intervention/intervention/inflation-devices/basixtouch-inflation-device/> (Year: 2016).*

(Continued)

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(74) Attorney, Agent, or Firm — Dorsey & Whitney LLP

(57) CLAIM

The ornamental design for a medical inflation device, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of medical inflation device showing our new design.

FIG. 2 is a rear perspective view thereof.

FIG. 3 is a front view thereof.

FIG. 4 is a rear view thereof.

FIG. 5 is a top view thereof.

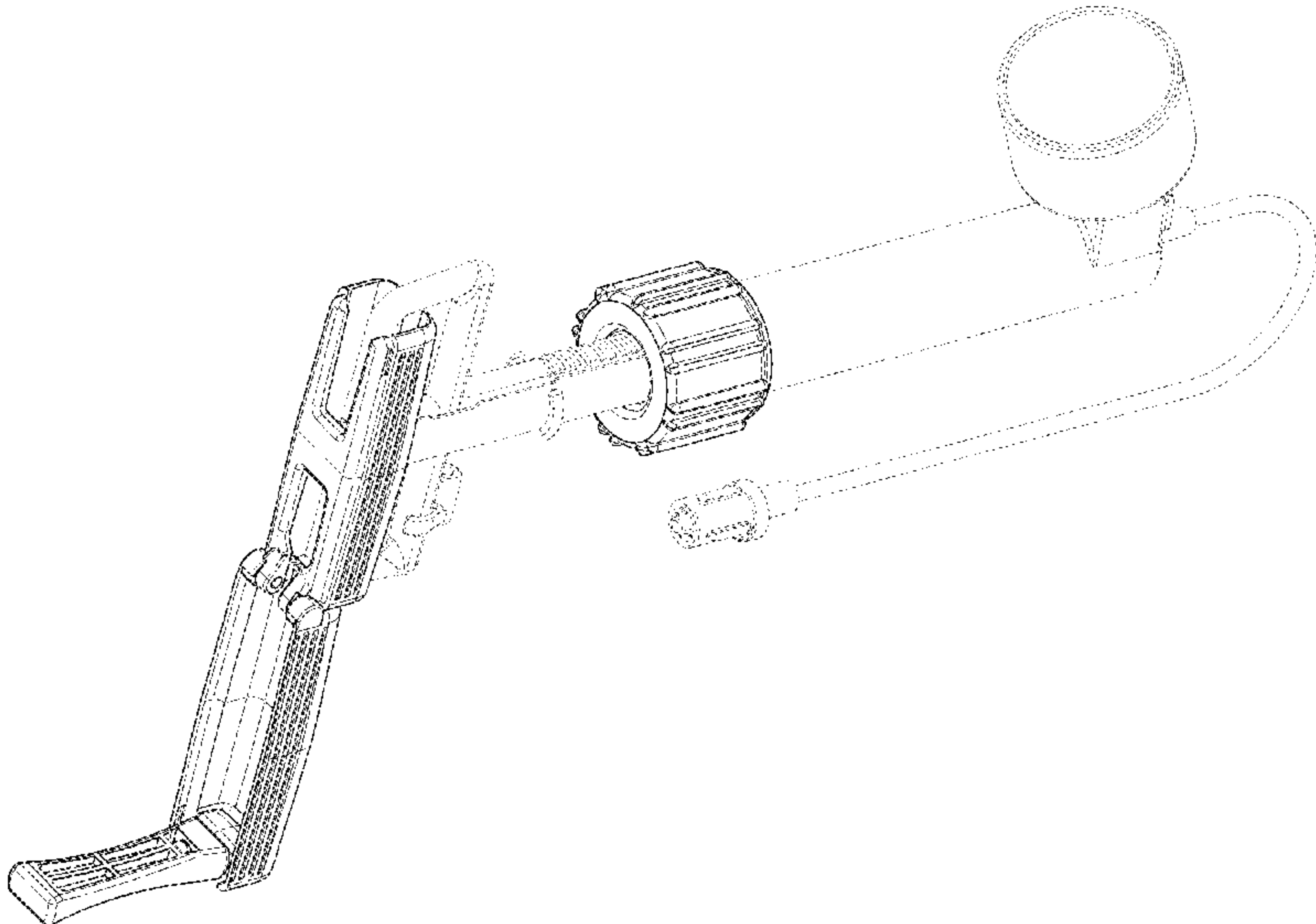
FIG. 6 is a bottom view thereof.

FIG. 7 is a left side view thereof; and,

FIG. 8 is a right side view thereof.

The broken lines showing of parts of the drawings are included for the purpose of illustrating environment and form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,209,732	A	5/1993	Lampropoulos et al.
5,213,115	A	5/1993	Zytkovicz et al.
5,306,248	A	4/1994	Barrington
5,472,424	A	12/1995	Lampropoulos et al.
5,685,848	A	11/1997	Robinson et al.
5,741,229	A	4/1998	Robinson et al.
5,904,342	A	5/1999	Laarman
6,106,496	A	8/2000	Arnisolle
6,394,977	B1 *	5/2002	Taylor G01L 19/083 604/100.01
6,471,671	B1	10/2002	Urlick et al.
6,834,670	B2	12/2004	Rosine et al.
7,041,084	B2	5/2006	Fojtik
8,372,030	B2	2/2013	Dixon et al.
8,545,442	B2	10/2013	Lampropoulos et al.
8,758,294	B2	6/2014	Kim et al.
D726,311	S *	4/2015	Lampropoulos D24/130
2002/0062119	A1 *	5/2002	Zadno-Azizi A61M 25/0054 604/509
2004/0084084	A1	5/2004	Rosine et al.
2005/0234493	A1	10/2005	Carr et al.
2008/0077075	A1	3/2008	Moreira et al.
2009/0151484	A1	6/2009	Mullen et al.
2009/0281489	A1 *	11/2009	Lampropoulos A61M 25/10188 604/97.03
2010/0211007	A1	8/2010	Lesch, Jr. et al.
2010/0298836	A1	11/2010	Jordan
2013/0123693	A1	5/2013	Lampropoulos et al.
2013/0331780	A1	12/2013	Lampropoulos et al.
2014/0074141	A1	3/2014	Johnson et al.
2014/0081205	A1	3/2014	Kanner et al.
2014/0088498	A1 *	3/2014	Stevens A61M 25/10182 604/97.02
2014/0088499	A1	3/2014	Lampropoulos et al.
2014/0168958	A1	6/2014	Unger et al.
2015/0051543	A1	2/2015	Chadwick et al.
2015/0141915	A1 *	5/2015	Lampropoulos A61M 25/10182 604/97.03
2016/0199091	A1	7/2016	Pigott
2017/0274191	A1 *	9/2017	Davis A61M 25/10188

2018/0036520	A1	2/2018	Teitelbaum et al.
2018/0243540	A1	8/2018	Sykes et al.
2019/0240418	A1	8/2019	Takahashi et al.
2020/0230379	A1 *	7/2020	Simmons A61M 25/10182
2020/0282191	A1	9/2020	McArthur et al.
2021/0085933	A1 *	3/2021	Haslam A61M 25/10182
2021/0283382	A1 *	9/2021	Cindrich A61M 25/10182
2021/0322735	A1 *	10/2021	Goldberg A61M 1/87

FOREIGN PATENT DOCUMENTS

JP	61009561	12/1986
WO	2009128393	10/2009
WO	2012094403	7/2012
WO	2015023923	2/2015
WO	2015134568	9/2015

OTHER PUBLICATIONS

European Search Report dated Mar. 5, 2020 for EP17837742.0.
European Search Report dated Nov. 23, 2020 for EP18756701.1.
Office Action dated Nov. 6, 2020 for U.S. Appl. No. 15/669,033.
International Search Report and Written Opinion dated Jun. 30, 2020 for PCT/US2020/020996.
Office Action dated Jul. 20, 2020 for U.S. Appl. No. 15/903,372.
Notice of Allowance dated Jul. 14, 2021 for U.S. Appl. No. 15/903,372.
Office Action dated Aug. 18, 2021 for U.S. Appl. No. 16/679,680.
Notice of Allowance dated Jun. 3, 2021 for U.S. Appl. No. 15/669,033.
Office Action dated Feb. 25, 2021 for U.S. Appl. No. 15/669,033.
Office Action dated Feb. 3, 2020 for U.S. Appl. No. 15/903,372.
Office Action dated Feb. 13, 2020 for U.S. Appl. No. 15/669,033.
International Search Report and Written Opinion dated Jun. 27, 2018 for PCT/US2018/019378.
International Search Report and Written Opinion dated Nov. 15, 2017 for PCT/US2017/045456.
Office Action dated Aug. 21, 2019 for U.S. Appl. No. 15/669,033.

* cited by examiner

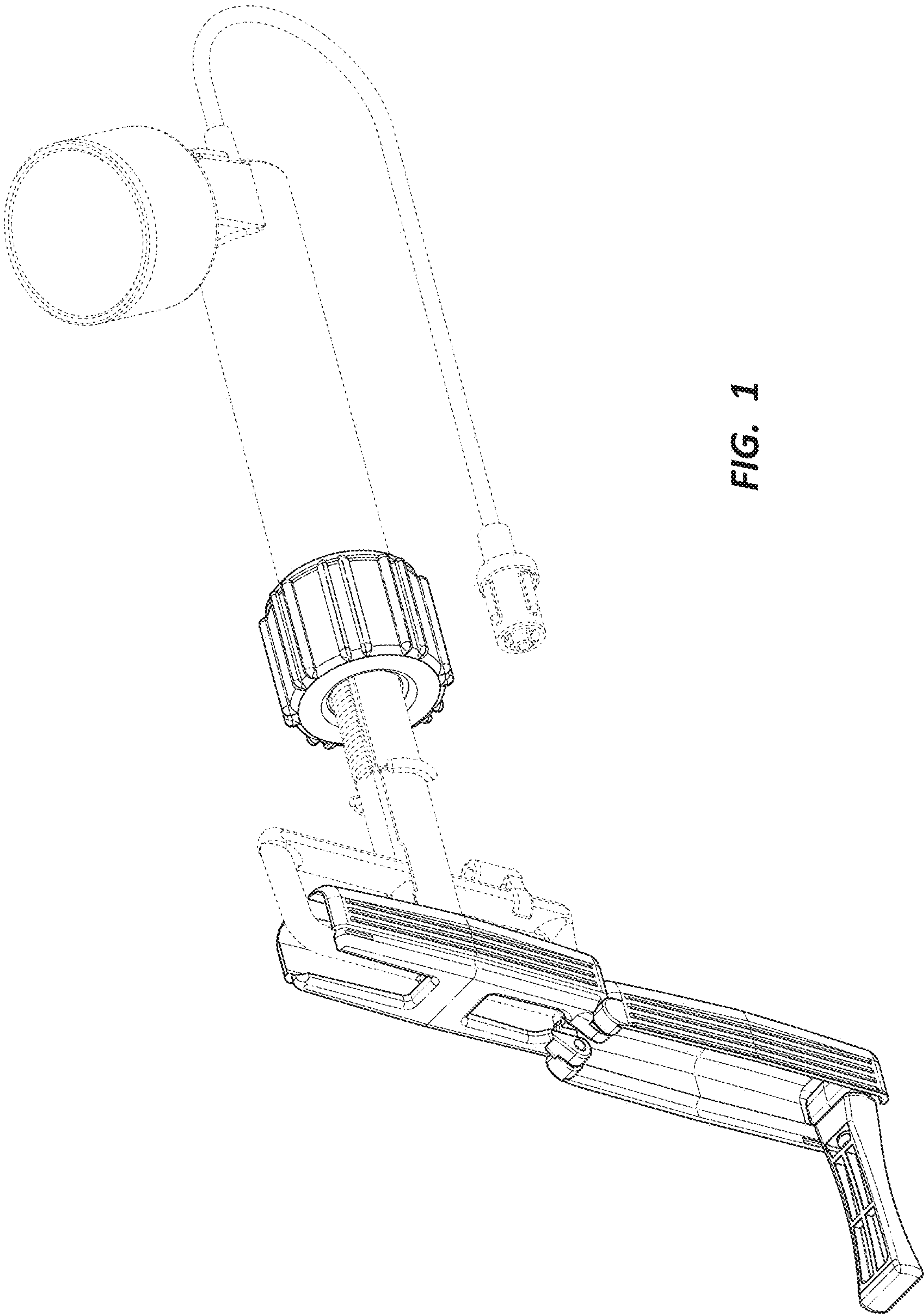


FIG. 1

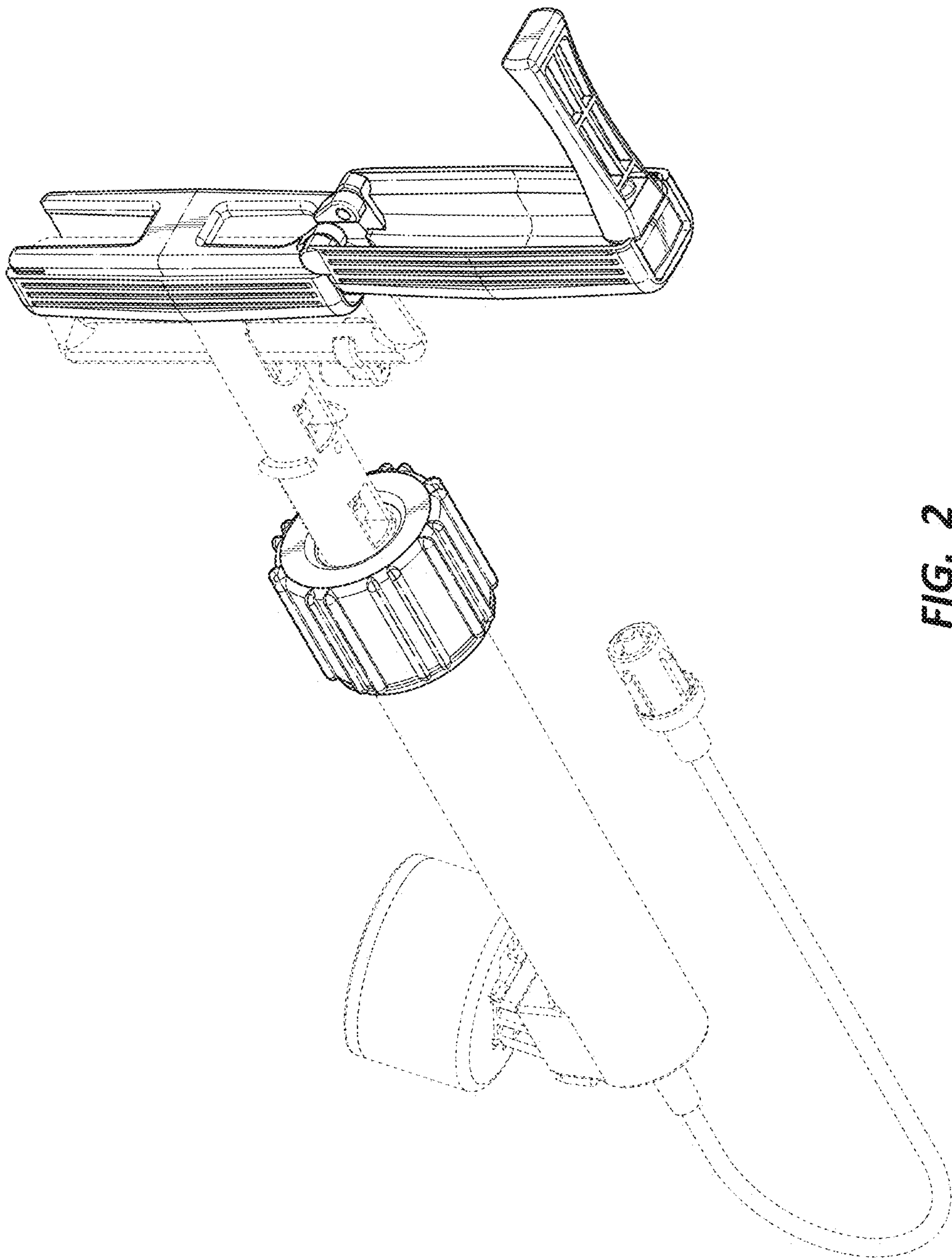


FIG. 2

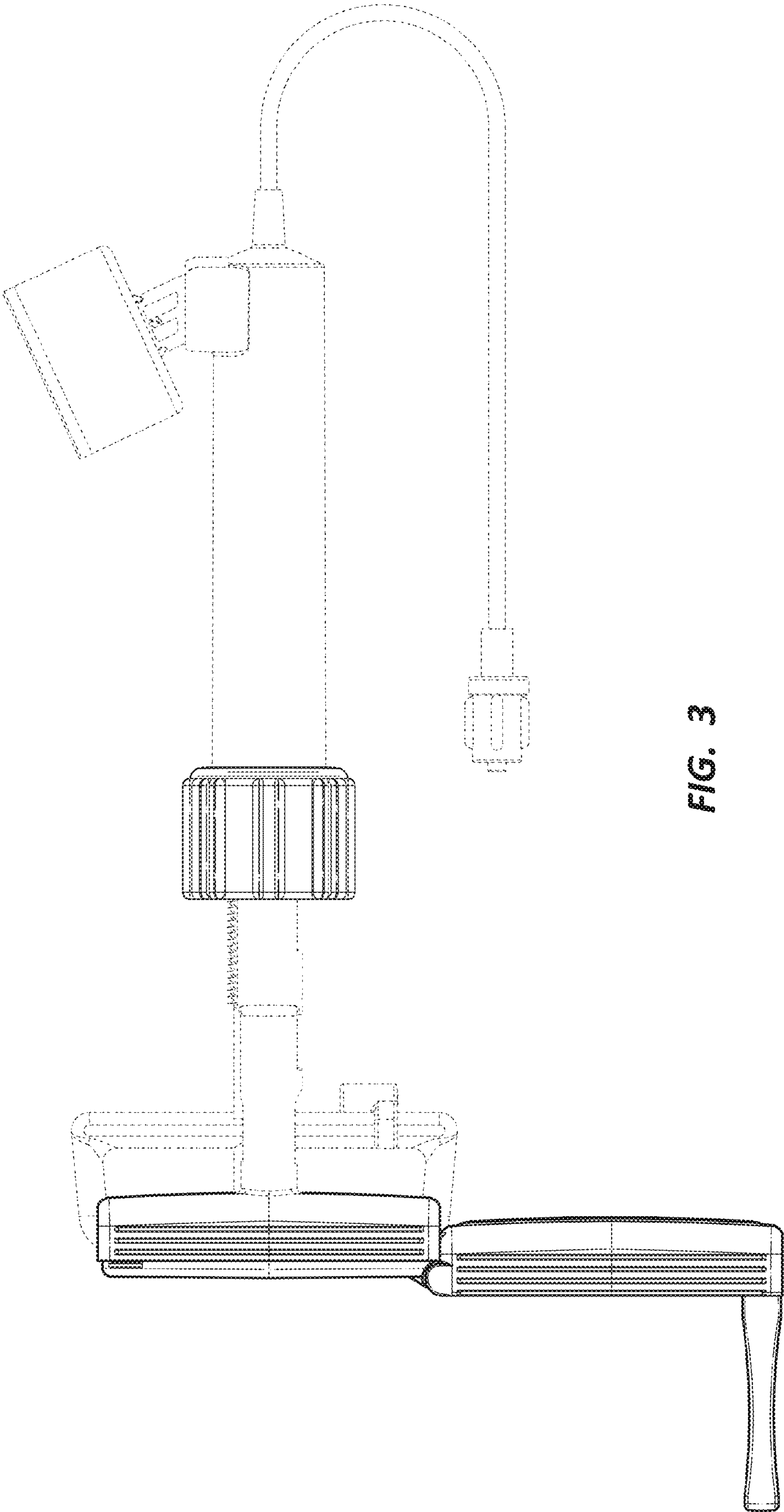
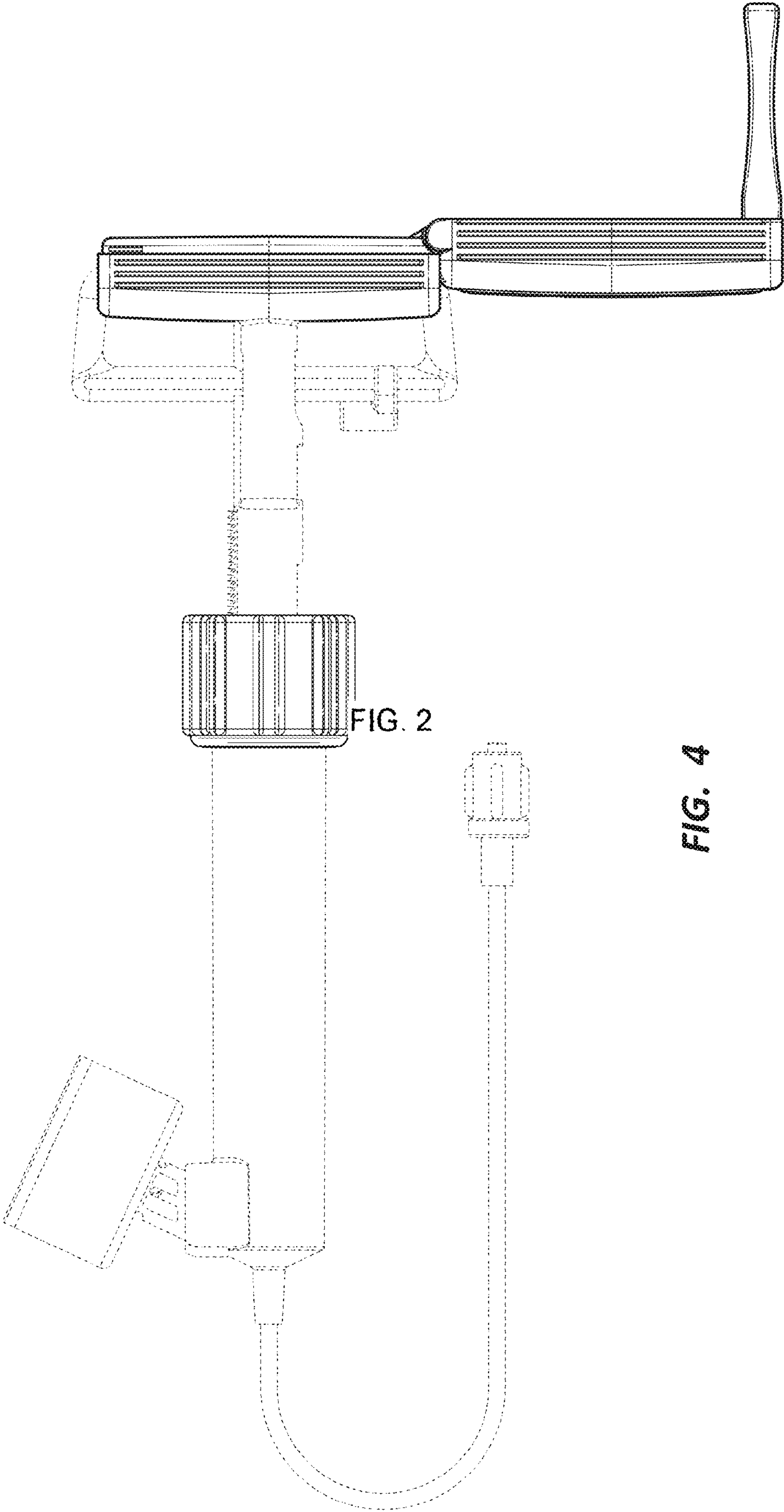


FIG. 3



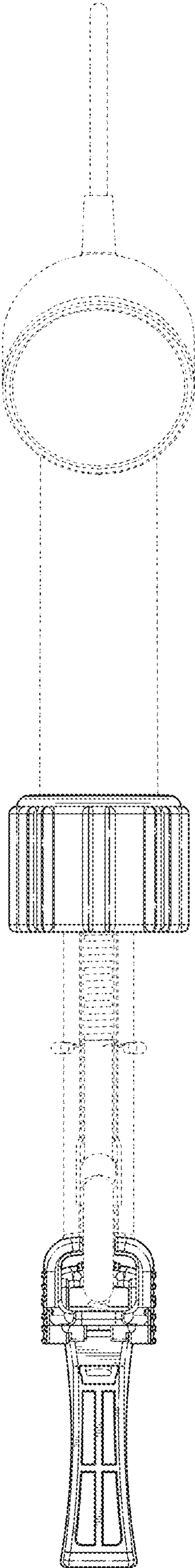


FIG. 5

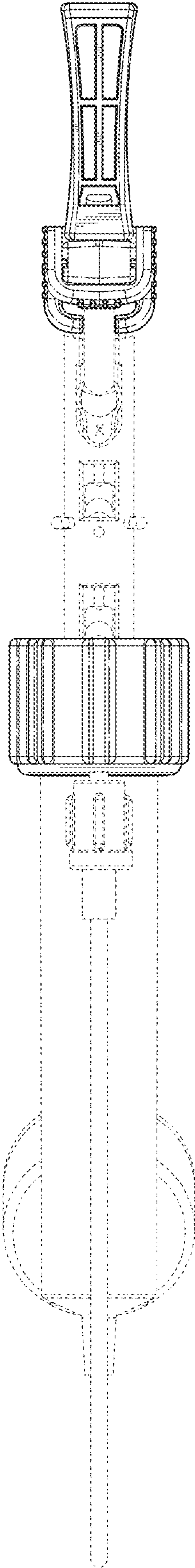


FIG. 6

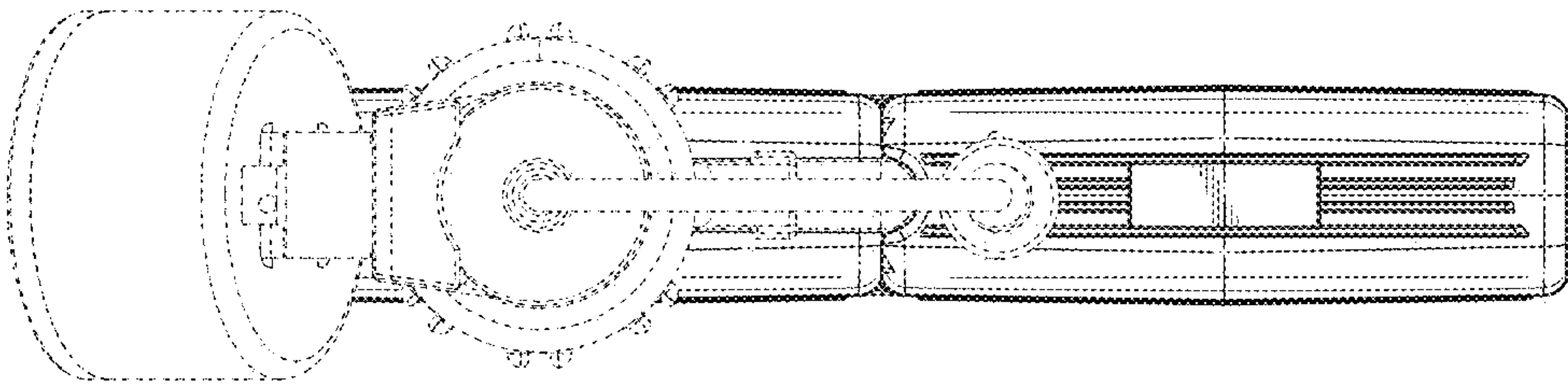


FIG. 8

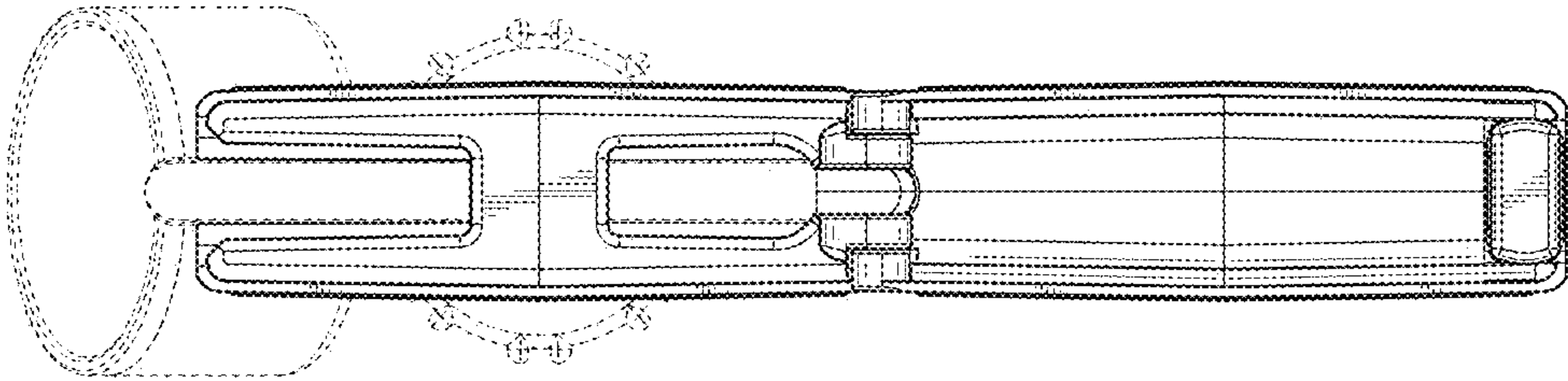


FIG. 7