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(12) **United States Design Patent** (10) **Patent No.:** **US D865,954 S**
Mottola et al. (45) **Date of Patent:** **** Nov. 5, 2019**

(54) **BREAKAWAY CONNECTOR**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **Merit Medical Systems, Inc.**, South Jordan, UT (US)

WO 2003090843 11/2003
WO 2005004974 1/2005

(Continued)

(72) Inventors: **Jim Mottola**, West Jordan, UT (US); **Denise Hallisey**, Wethersfield, CT (US); **Gregory R. McArthur**, Sandy, UT (US); **Richard P. Jenkins**, Bluffdale, UT (US); **Brian Stevens**, Pleasant Grove, UT (US)

OTHER PUBLICATIONS

Office Action dated Aug. 2, 2018 for U.S. Appl. No. 15/228,796.
(Continued)

Primary Examiner — David G Muller

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

(74) *Attorney, Agent, or Firm* — Stoel Rives LLP

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

(57) **CLAIM**

The ornamental design for a breakaway connector, as shown and described.

(21) Appl. No.: **29/642,644**

DESCRIPTION

(22) Filed: **Mar. 30, 2018**

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

(52) **U.S. Cl.**
USPC **D24/129**

(58) **Field of Classification Search**
USPC D24/127–131, 112–114, 133, 186;
606/181, 185; 604/264, 523–528, 272,
604/187, 158, 164.01–164.11, 181, 184,
604/227; 600/101, 139, 143;
128/200.24, 207.14, 207.15
CPC A61M 25/00; A61M 39/00; A61M 27/00;
A61M 25/0043; A61M 25/0067; A61M
25/0097; A61F 2/958
See application file for complete search history.

FIG. 1 is first top perspective view of an embodiment of a breakaway connector in a disconnected configuration.
FIG. 2 is a second top perspective view of the breakaway connector of FIG. 1.
FIG. 3 is left side view thereof, the right side being a mirror image.
FIG. 4 is a top view thereof, the bottom being a mirror image.
FIG. 5 is a back end view thereof.
FIG. 6 is a front end view thereof.
FIG. 7 is a first top perspective view of the breakaway connector of FIG. 1 in a connected configuration.
FIG. 8 is a second top perspective view of the breakaway connector of FIG. 7.
FIG. 9 is a left side view thereof, the right side being a mirror image.
FIG. 10 is a top view thereof, the bottom being a mirror image.
FIG. 11 is a back end view thereof; and,
FIG. 12 is a front end view thereof.
The broken lines form no part of the claimed design.

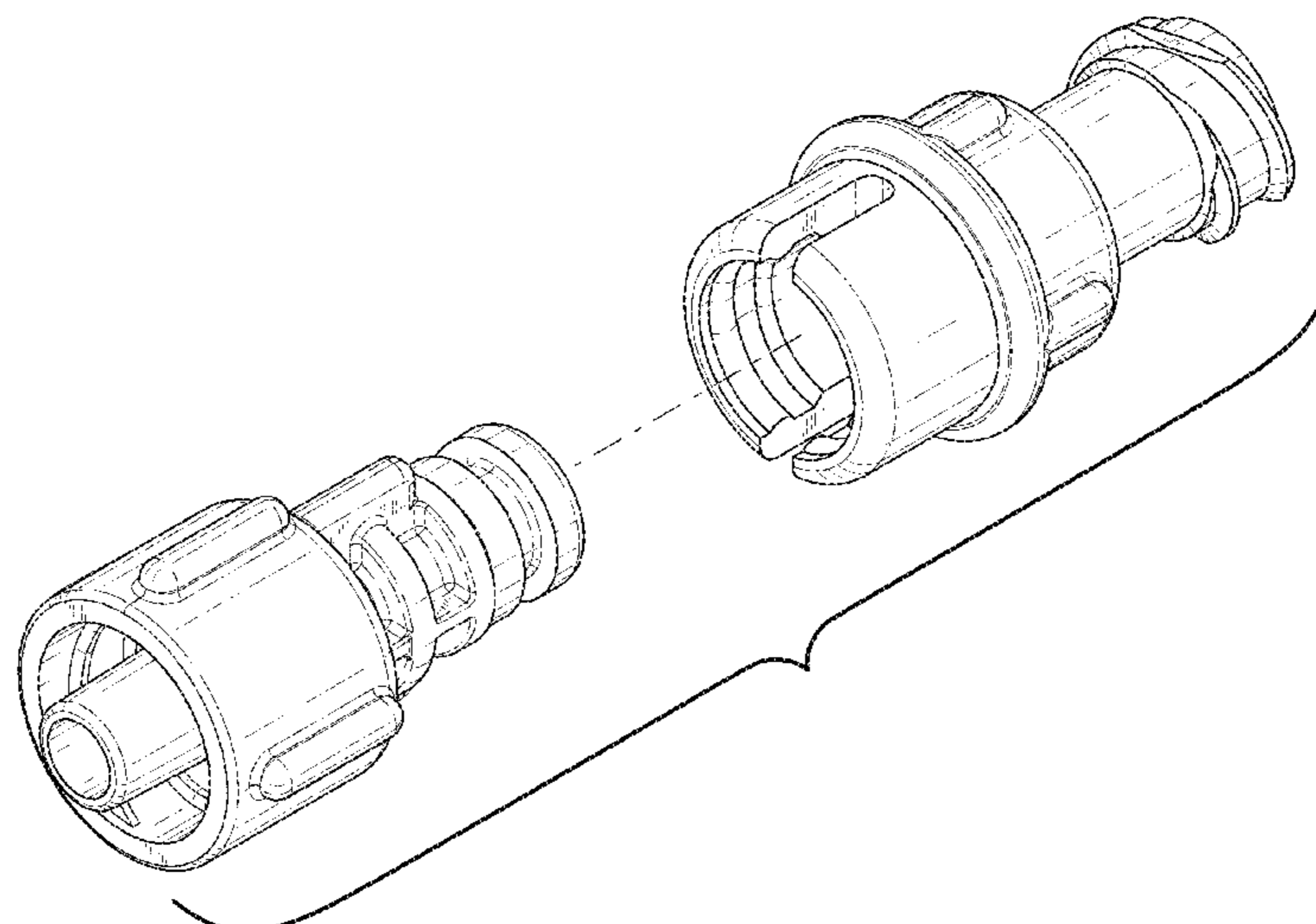
(56) **References Cited**

U.S. PATENT DOCUMENTS

4,441,775 A 4/1984 Walters
5,405,336 A 4/1995 Austin et al.
5,492,147 A 2/1996 Challender et al.
6,776,638 B2 8/2004 Thurston

(Continued)

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,004,934 B2 2/2006 Vaillancourt
7,303,553 B2 12/2007 Ott
7,766,394 B2 8/2010 Sage et al.
D636,079 S * 4/2011 Leypold D24/129
8,790,327 B2 * 7/2014 Takemoto A61J 1/10
604/403
D750,236 S * 2/2016 Maurice D24/129
D757,260 S * 5/2016 Lombardi, III D24/129
D773,659 S * 12/2016 Cain D24/129
D784,529 S * 4/2017 Steele D24/129
D792,586 S * 7/2017 Becker D24/129
D799,032 S * 10/2017 Becker D24/129
D825,746 S * 8/2018 Davis D24/129
D830,523 S * 10/2018 Vranish D23/262
D830,524 S * 10/2018 Vranish D23/262
D836,191 S * 12/2018 Kheradpir D24/112
D837,978 S * 1/2019 Pappalardo D24/129
2005/0015075 A1 1/2005 Wright et al.
2005/0251102 A1 11/2005 Hegland et al.

2011/0015581 A1 1/2011 Fangrow, Jr.
2013/0030387 A1 1/2013 Williams et al.
2014/0209197 A1 7/2014 Carrez et al.
2015/0032089 A1 1/2015 Way
2015/0157849 A1 6/2015 Phillips et al.

FOREIGN PATENT DOCUMENTS

WO 2006010929 2/2006
WO 2012088463 6/2012

OTHER PUBLICATIONS

International Search Report and Written Opinion dated Dec. 5, 2016 for PCT/US2016/045601.
U.S. Appl. No. 29/642,655, filed Mar. 30, 2018.
European Search Report dated Jan. 31, 2019 for EP16835668.1.
European Search Report dated Feb. 12, 2019 for EP16835668.1.
Office Action dated Jan. 28, 2019 for U.S. Appl. No. 15/228,796.
Office Action dated Jun. 25, 2019 for U.S. Appl. No. 15/228,796.

* cited by examiner

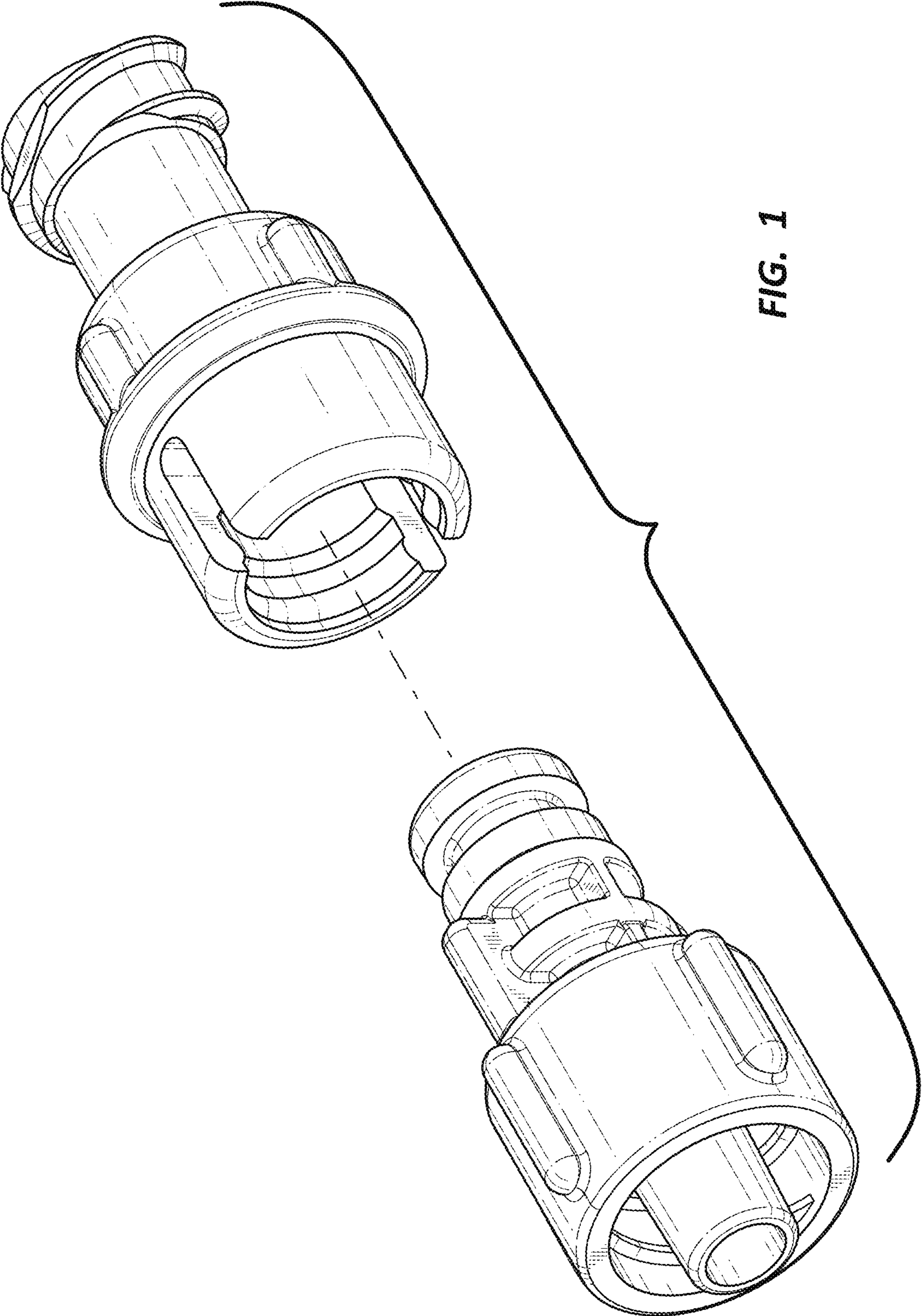


FIG. 1

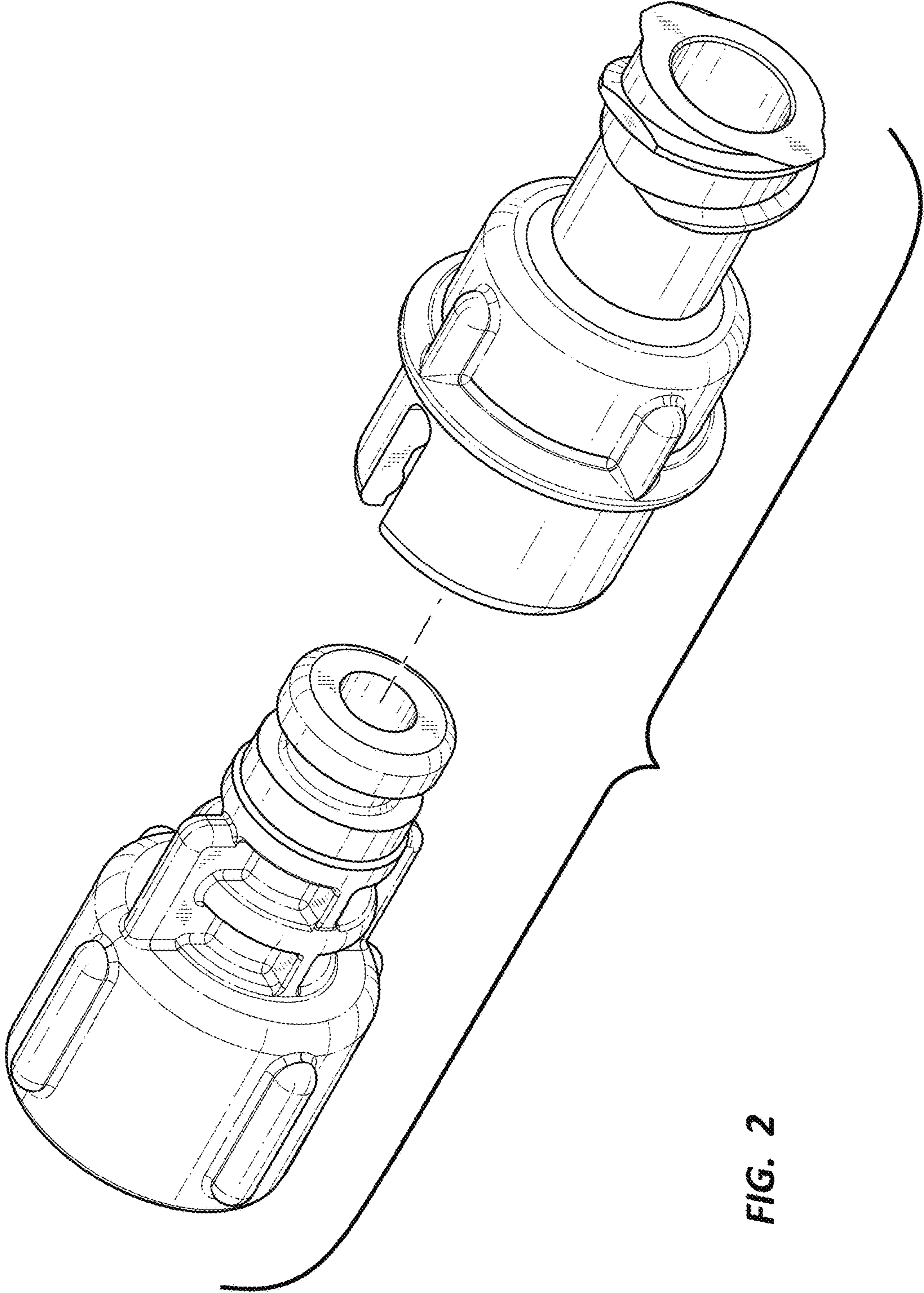


FIG. 2

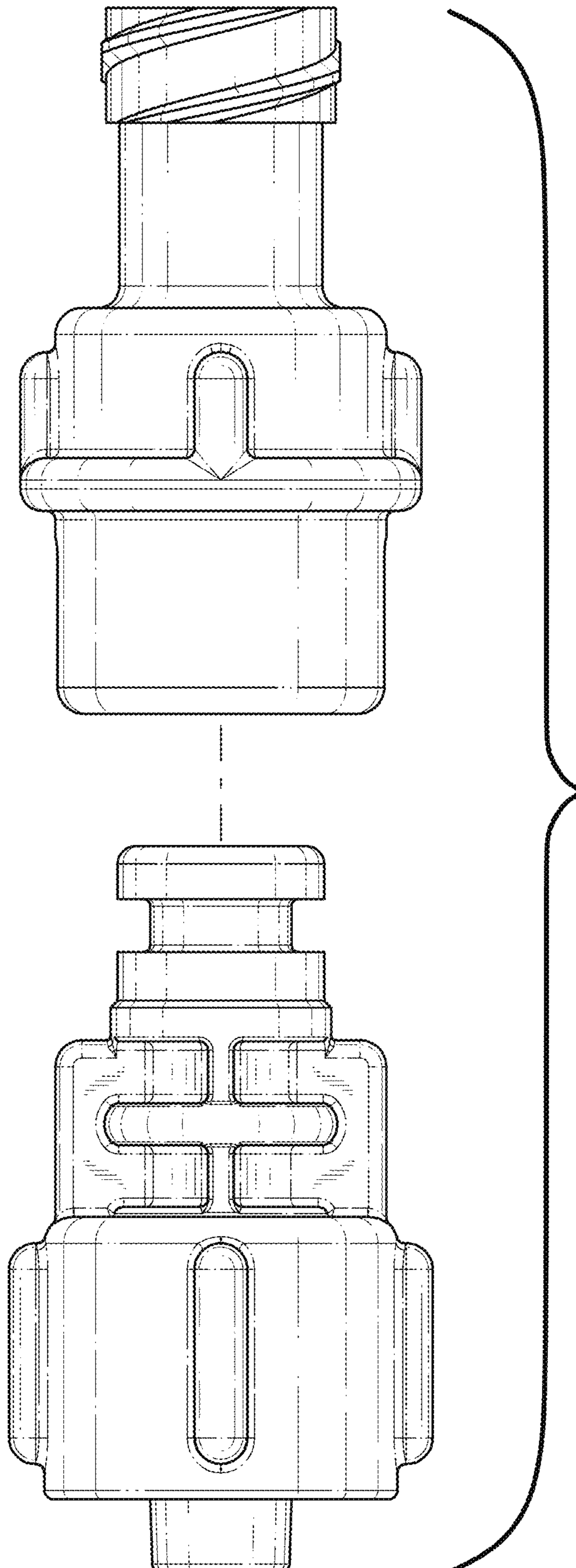


FIG. 3

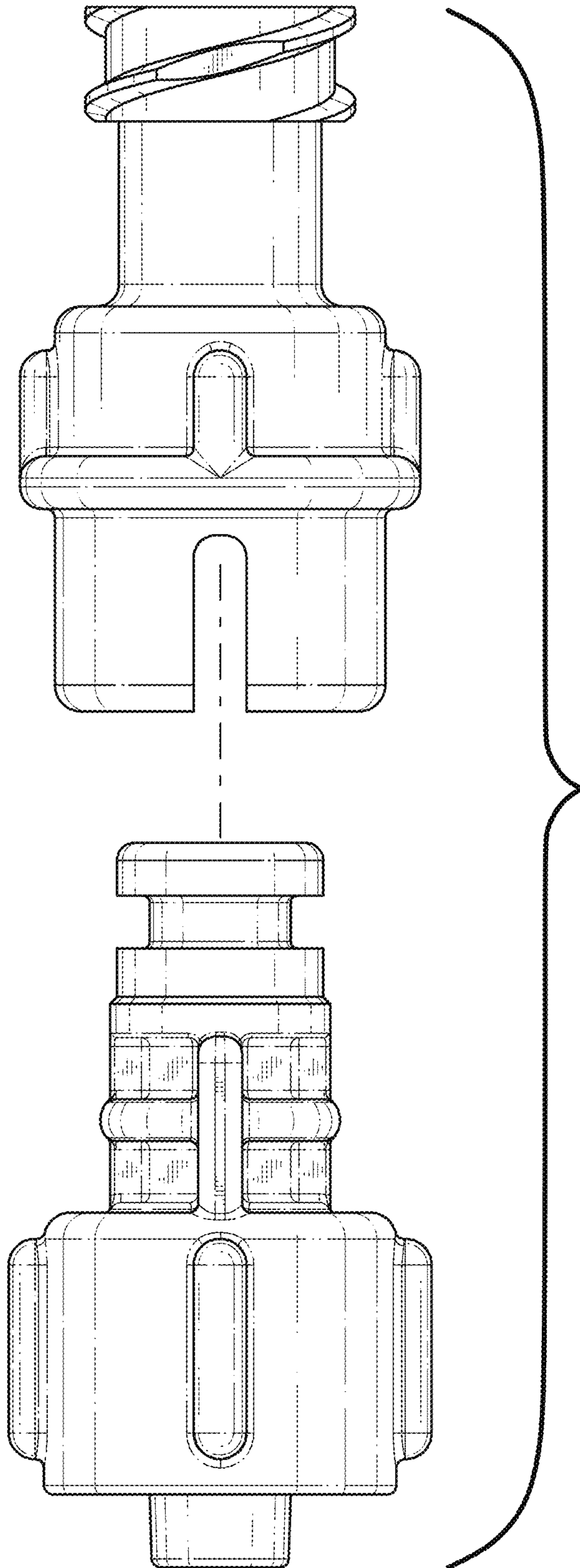


FIG. 4

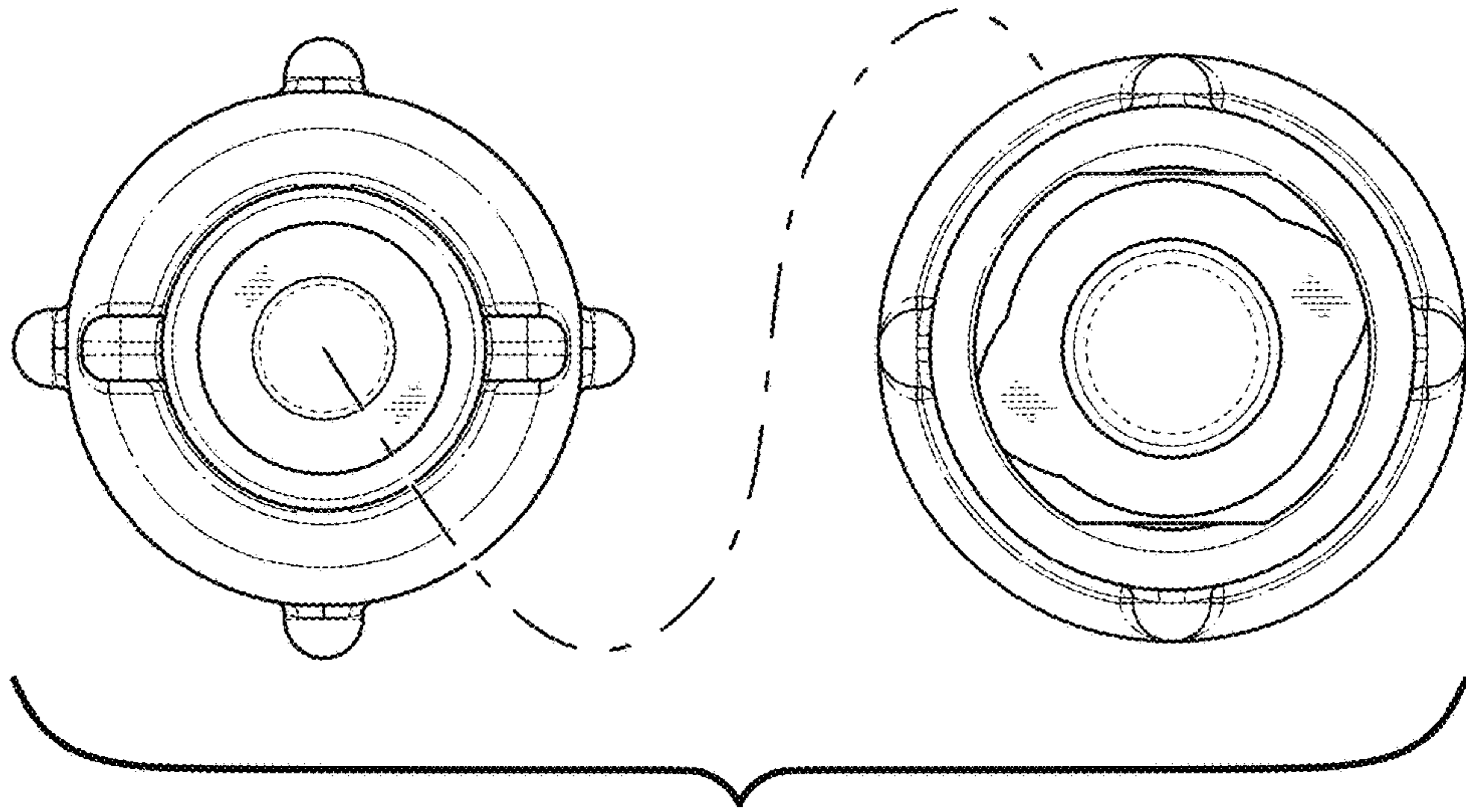


FIG. 6

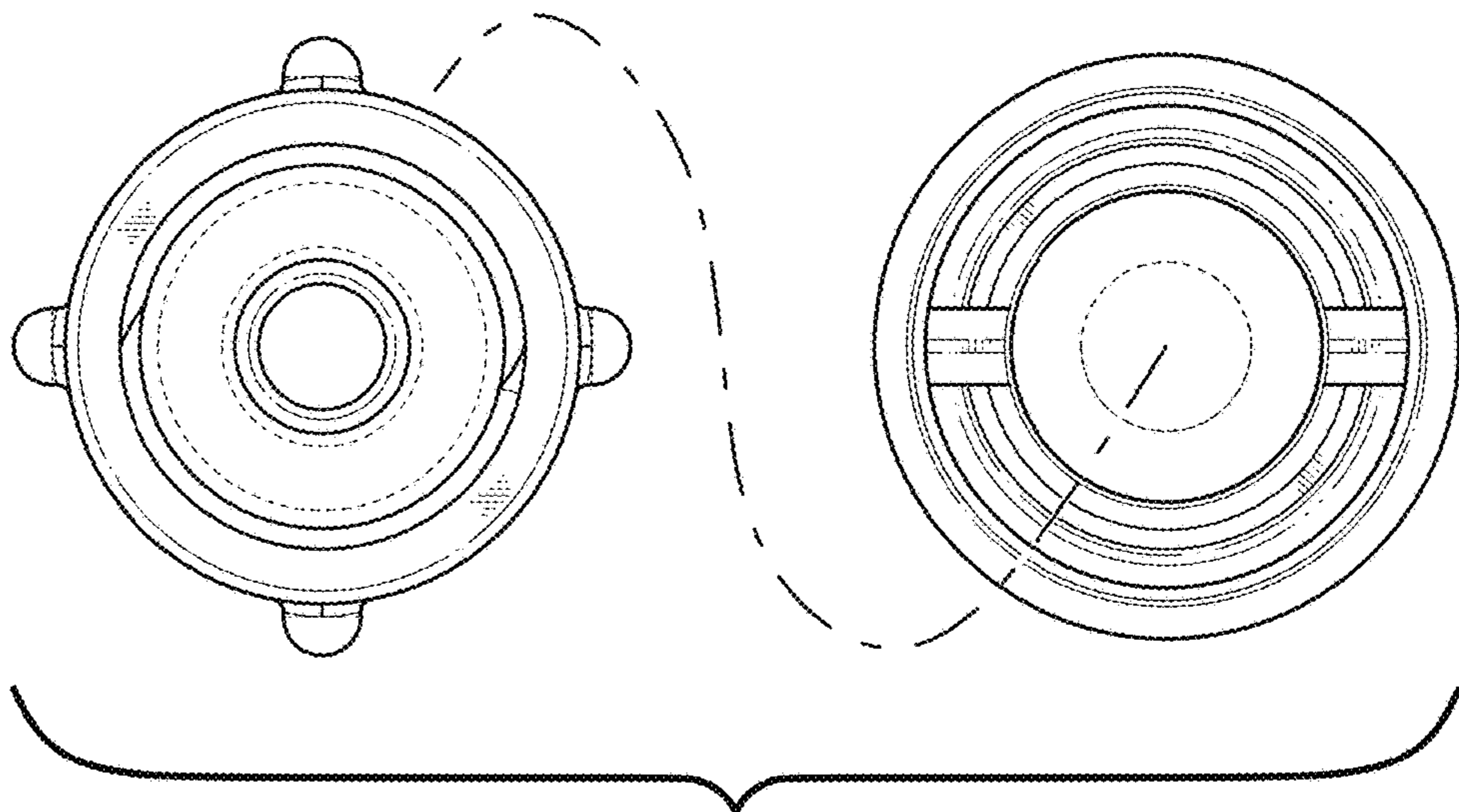


FIG. 5

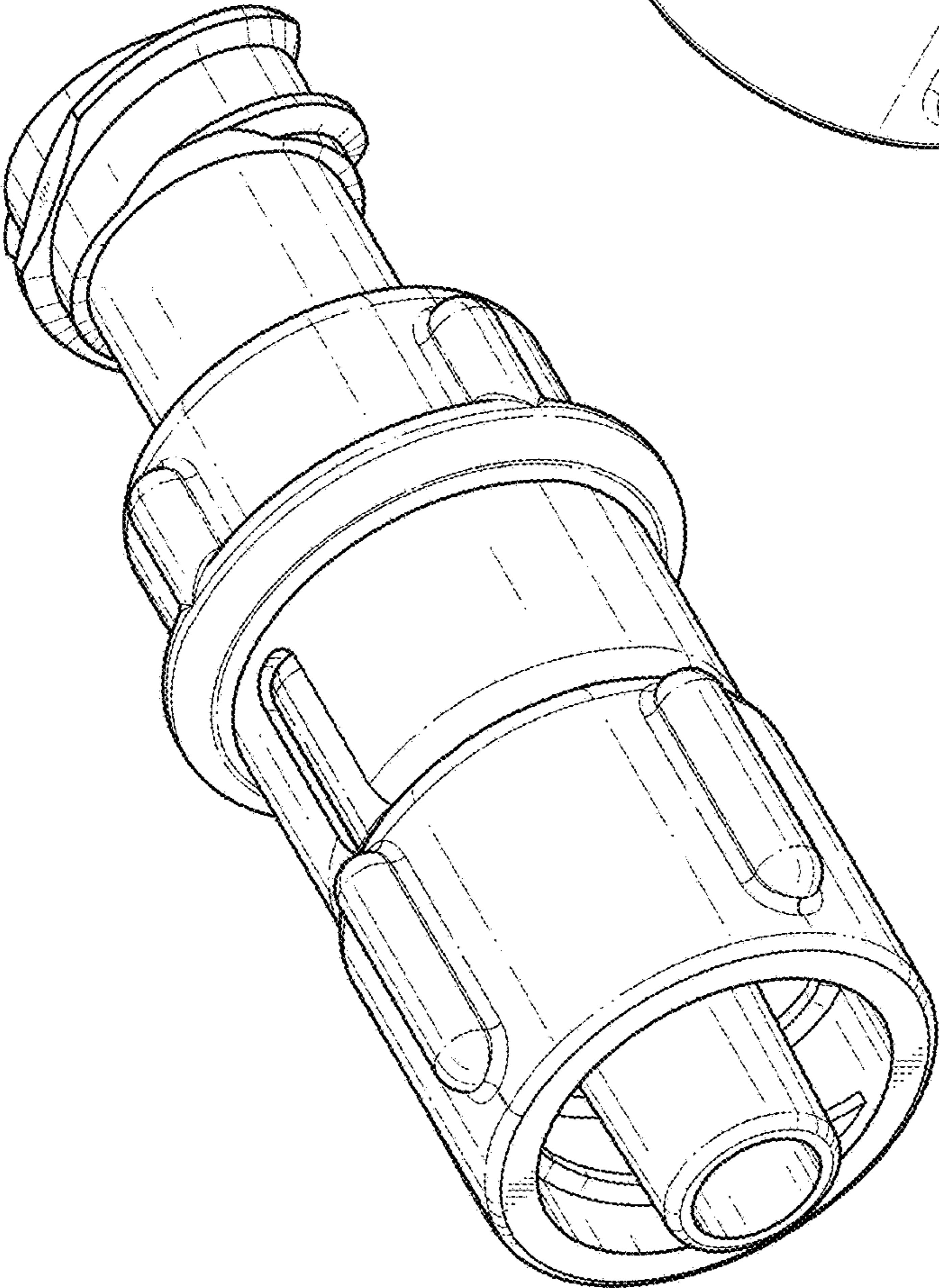


FIG. 7

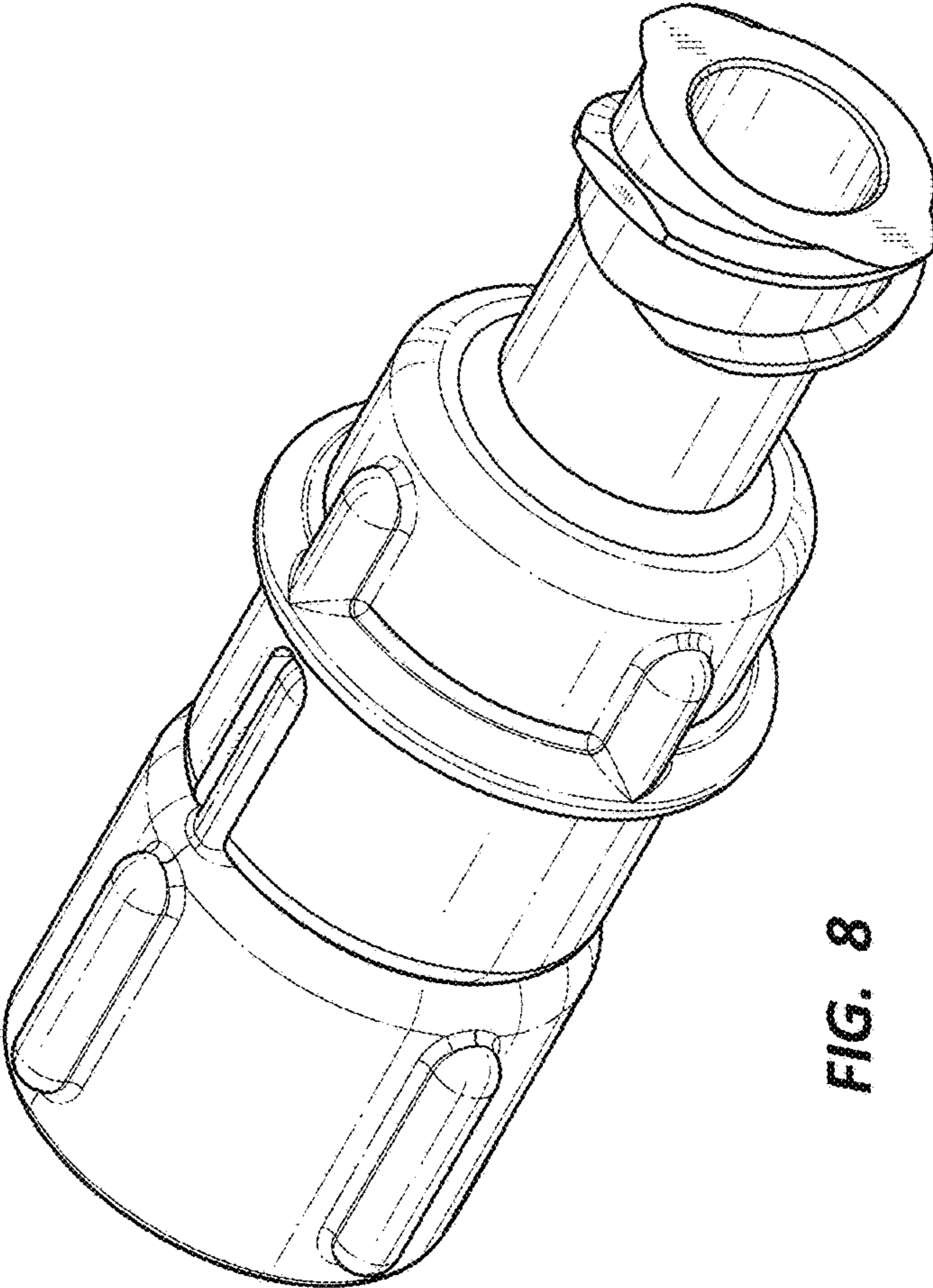


FIG. 8

FIG. 9

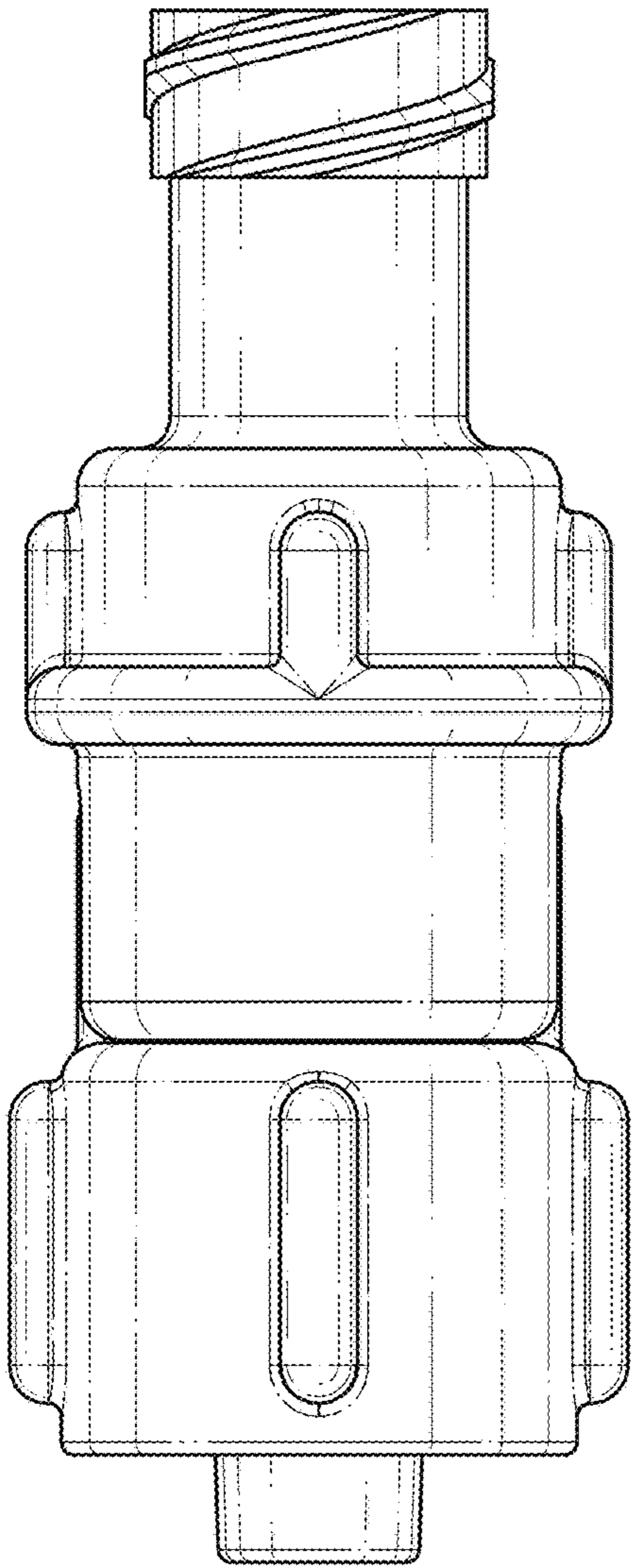
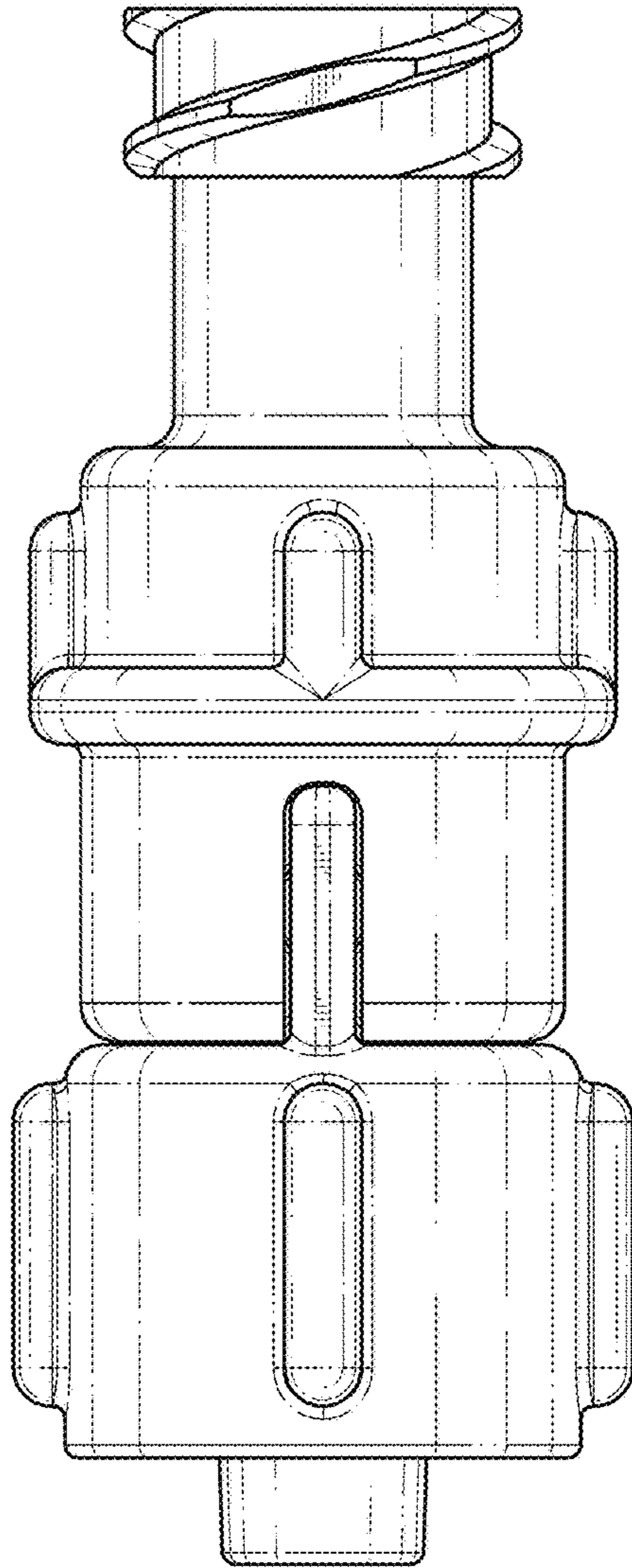


FIG. 10



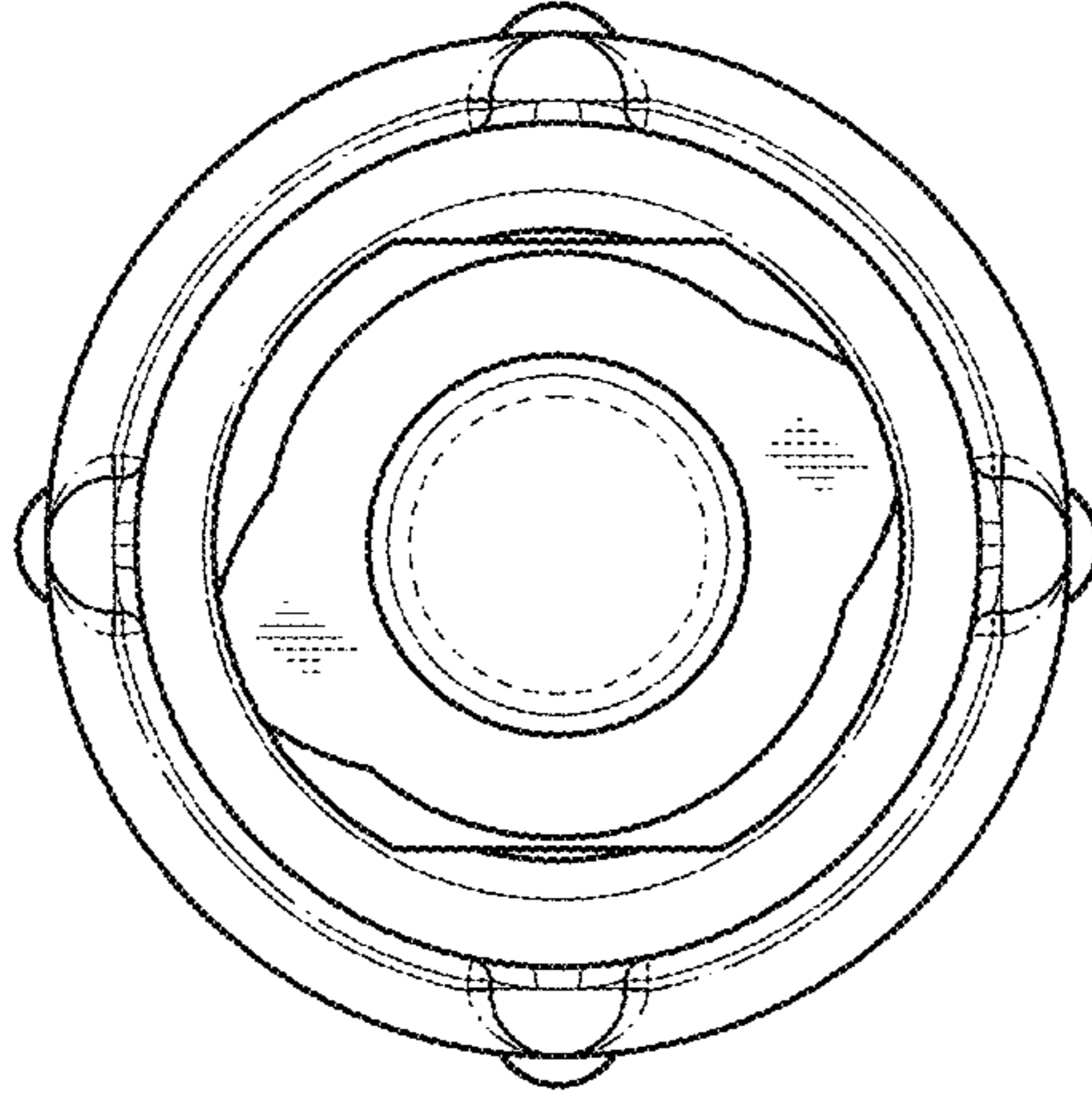


FIG. 12

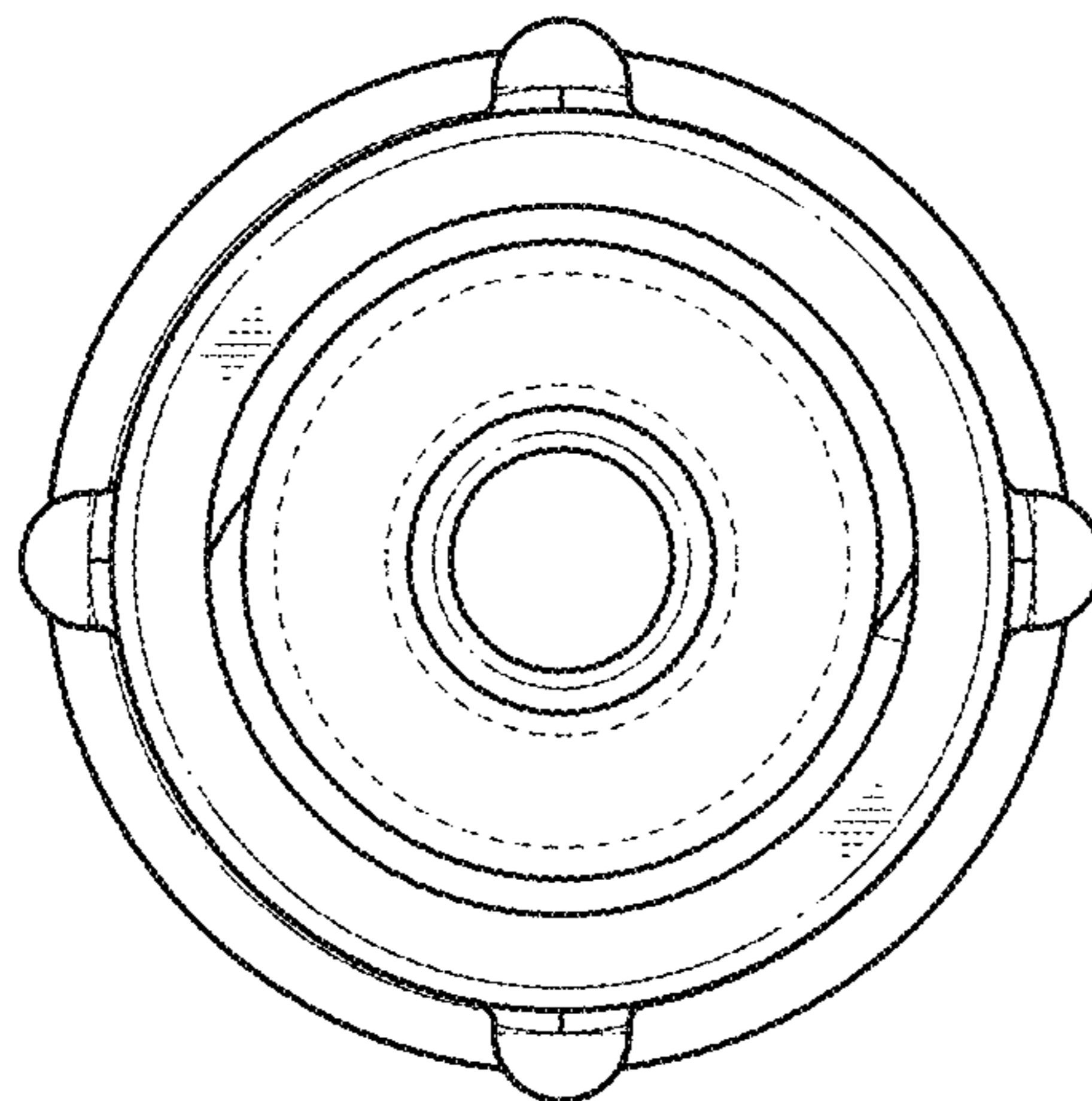


FIG. 11