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(12) **United States Design Patent** (10) **Patent No.:** **US D772,406 S**
Sanso et al. (45) **Date of Patent:** **** Nov. 22, 2016**

(54) **SURGICAL DEVICE**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **BIOVISION TECHNOLOGIES, LLC**, Golden, CO (US)

CA 2266958 A1 10/1999
KR 1020050117277 A 4/2006

(Continued)

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OTHER PUBLICATIONS

(73) Assignee: **Biovision Technologies, LLC**, Golden, CO (US)

Agro, et al., "Lightwand intubation using the Trachlight(TM): a brief review of current knowledge," Canadian Journal of Anesthesia, (2000), pp. 592-599 Fig. 1.

(**) Term: **14 Years**

(Continued)

(21) Appl. No.: **29/512,059**

Primary Examiner — Wan Laymon

(22) Filed: **Dec. 16, 2014**

Assistant Examiner — Mark Booker

(51) **LOC (10) Cl.** **24-02**

(74) *Attorney, Agent, or Firm* — Faegre Baker Daniels, LLP

(52) **U.S. Cl.**

USPC **D24/133**

(58) **Field of Classification Search**

USPC D24/133, 104, 112, 113, 114, 130, 144,
D24/146, 147, 186; 606/32, 37, 48, 50, 51,
606/52, 181, 185

CPC A61B 1/0684; A61M 25/10; A61M
2210/0618; A61M 2025/1052; A61M
2025/105

See application file for complete search history.

(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a perspective view of a surgical device showing the new design, wherein the break line(s) indicate indeterminate length;

FIG. 2 is an alternate perspective view thereof, wherein the break line(s) indicate indeterminate length;

FIG. 3 is a back view thereof, wherein the break line(s) indicate indeterminate length;

FIG. 4 is a front view thereof, wherein the break line(s) indicate indeterminate length;

FIG. 5 is a left side view thereof, wherein the break line(s) indicate indeterminate length;

FIG. 6 is a right side view thereof, wherein the break line(s) indicate indeterminate length;

FIG. 7 is a top view thereof; and,

FIG. 8 is a bottom view thereof.

The broken away symbols in the drawings indicate that any portion of the article beyond what is shown forms no part of the claimed design.

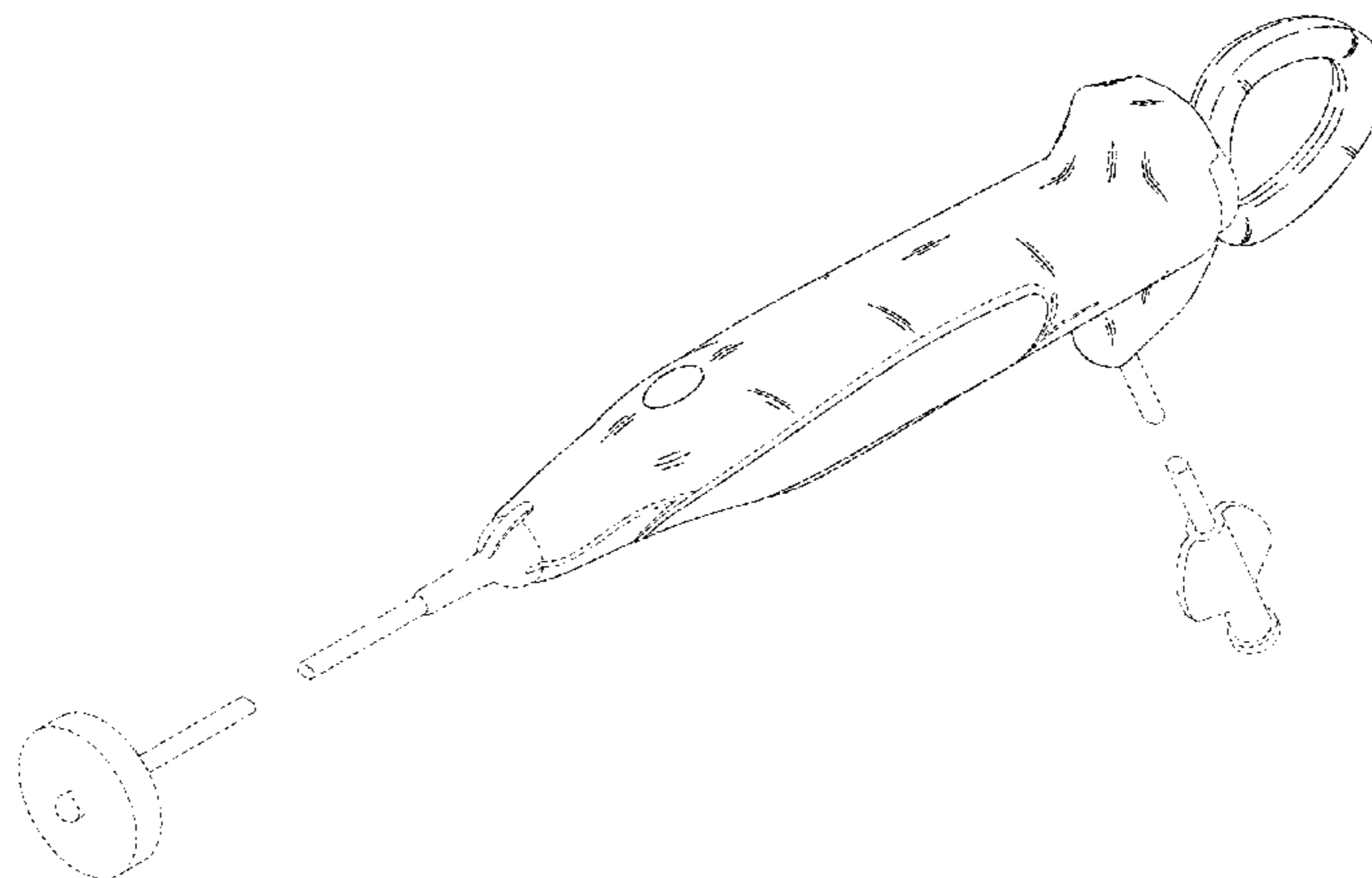
(56) **References Cited**

U.S. PATENT DOCUMENTS

2,493,326 A 1/1950 Trinder
3,747,595 A 7/1973 Grossan
3,850,176 A 11/1974 Gottschalk
4,819,691 A 4/1989 Augustine et al.
4,883,465 A 11/1989 Brennan
4,886,493 A 12/1989 Yee
4,887,593 A 12/1989 Wiley et al.
5,193,525 A 3/1993 Silverstein et al.
5,213,115 A 5/1993 Zytkevich et al.
5,215,536 A 6/1993 Lampropoulos et al.
5,242,400 A 9/1993 Blake et al.
5,462,553 A * 10/1995 Dolgin A61B 17/32056
606/110

(Continued)

1 Claim, 6 Drawing Sheets



(56)

References Cited

OTHER PUBLICATIONS

U.S. PATENT DOCUMENTS

2015/0164309 A1 6/2015 Chandler et al.
2015/0230700 A1* 8/2015 Chandler A61B 1/0684
600/116

FOREIGN PATENT DOCUMENTS

WO 0207632 A1 1/2002
WO 2015095214 A1 6/2015

Petroianu, et al., "Intubation with Transillumination: Nasal or Oral?," Prehospital and Disaster Medicine, vol. 14, No. 2 (Apr.-Jun. 1999), pp. 72-73 Fig. 1.

WelchAllyn® 3.5v Transilluminators product brochure, Jul. 28, 2013.

WelchAllyn® PocketScopes™ Operating Instruction Manual, Transiluminator p. 1, Sep. 21, 2012.

* cited by examiner

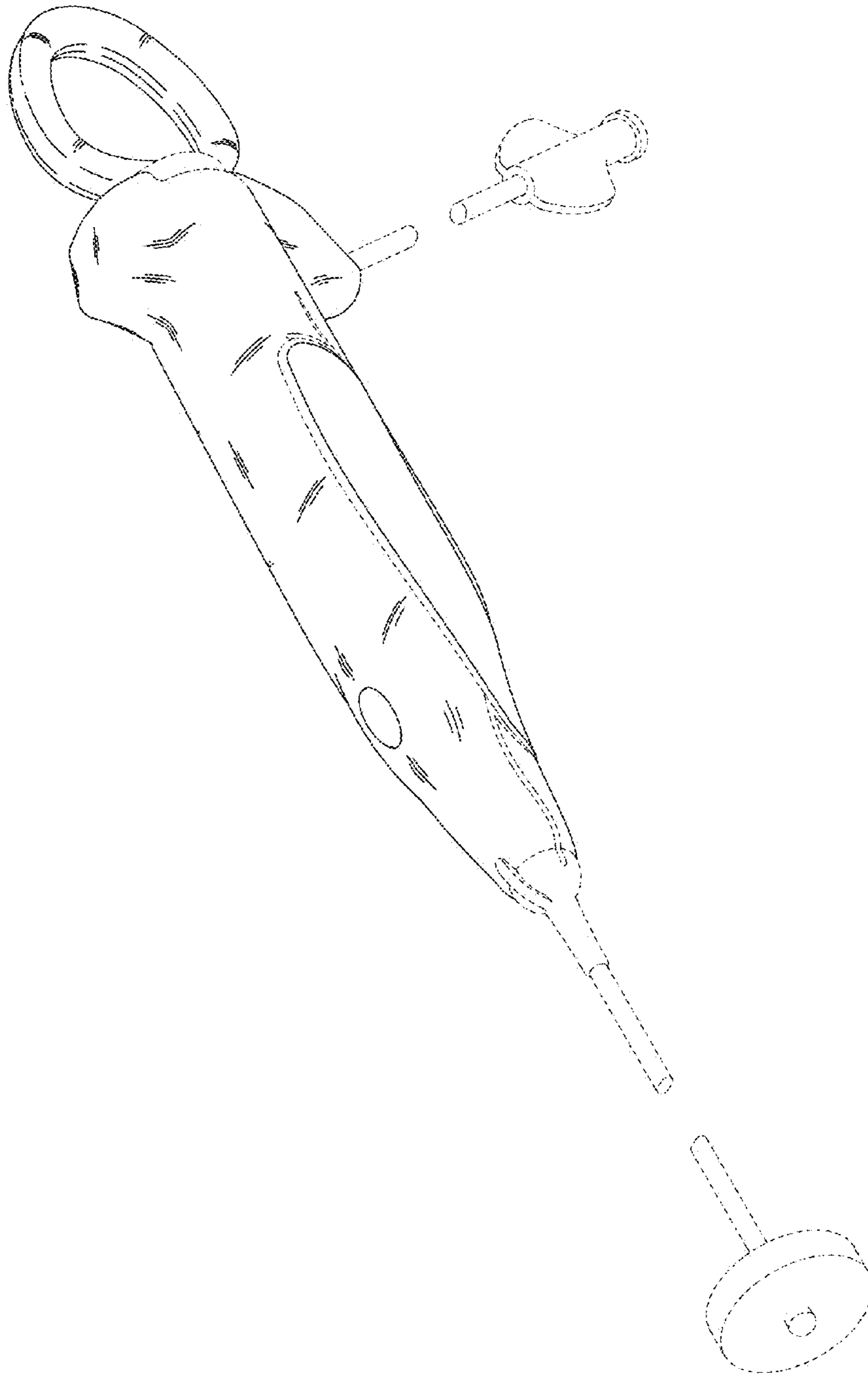


FIG. 1

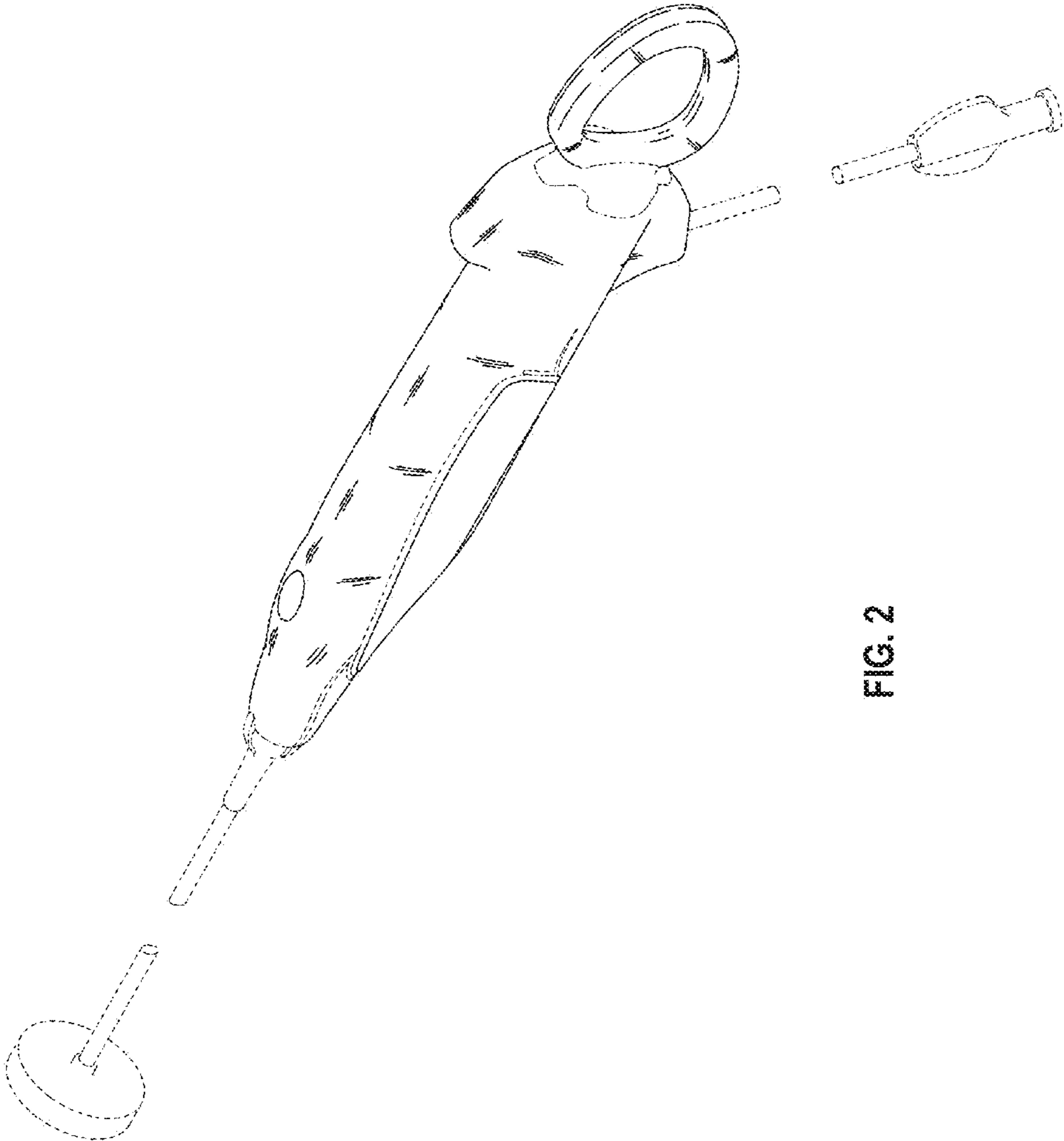


FIG. 2

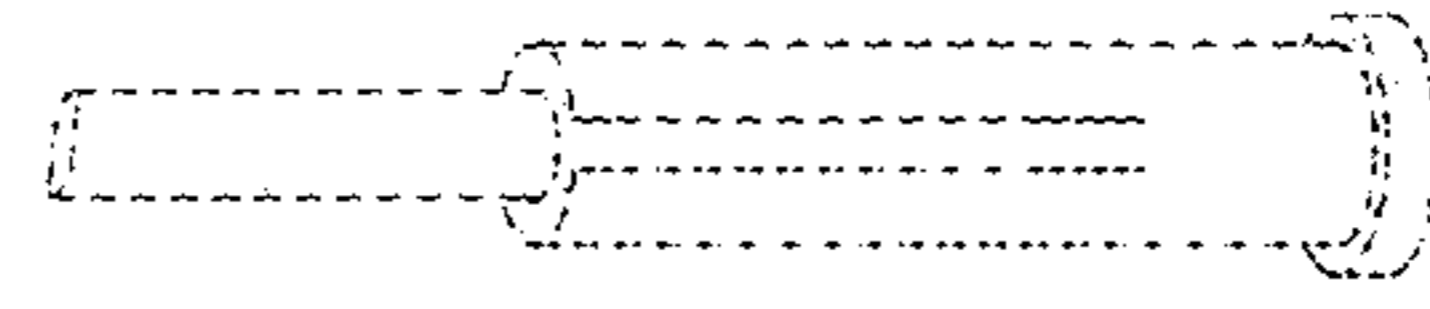
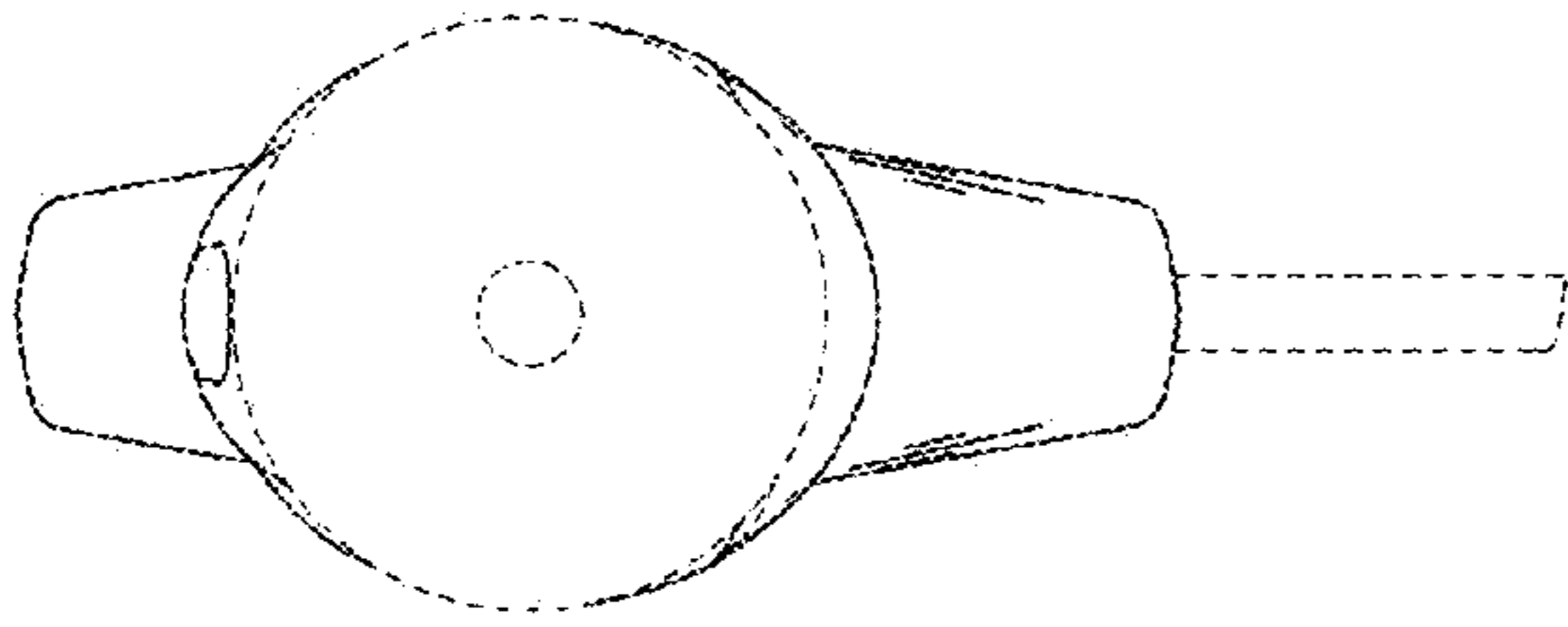


FIG. 4

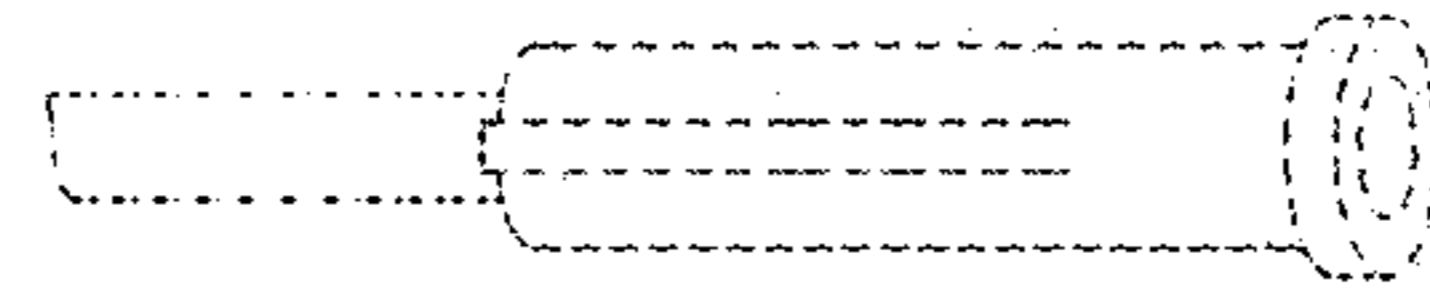
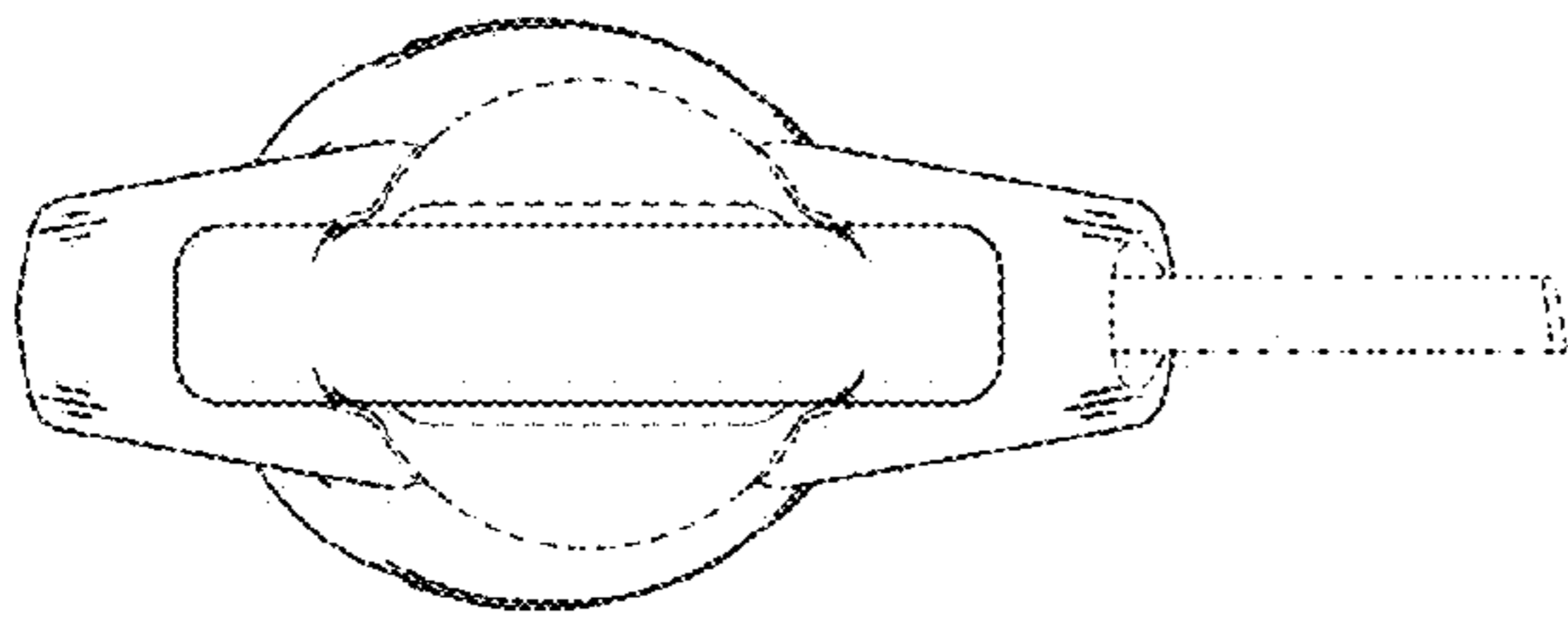


FIG. 3

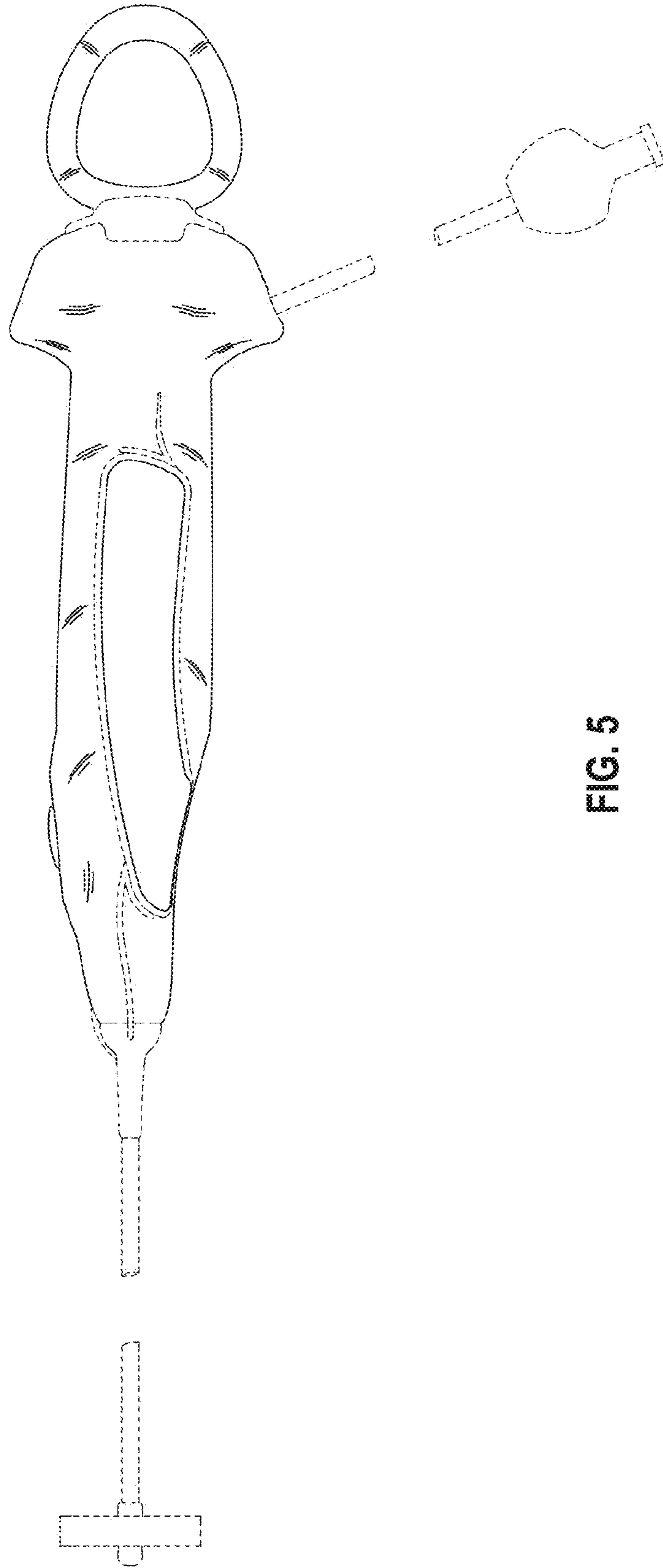


FIG. 5

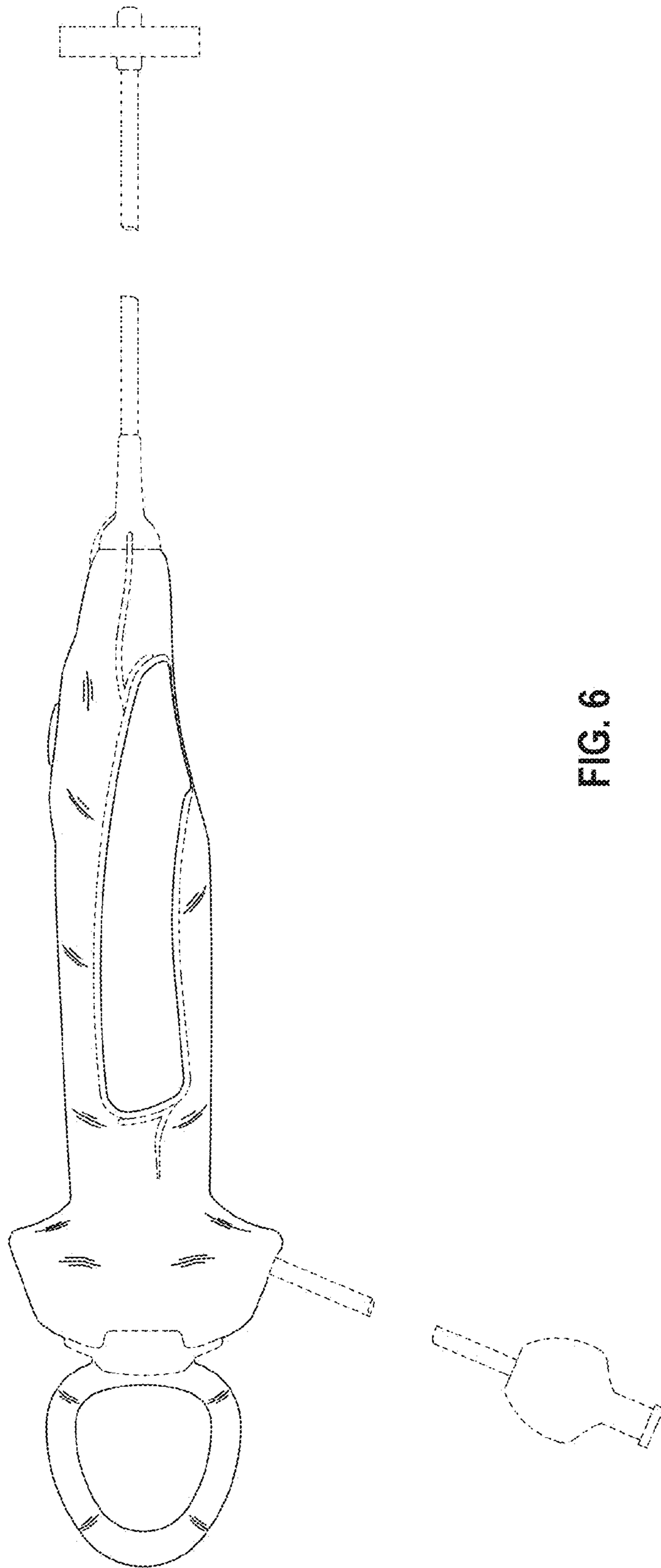


FIG. 6

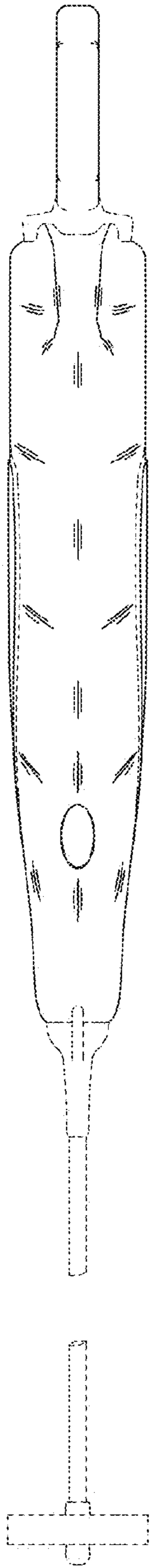


FIG. 7

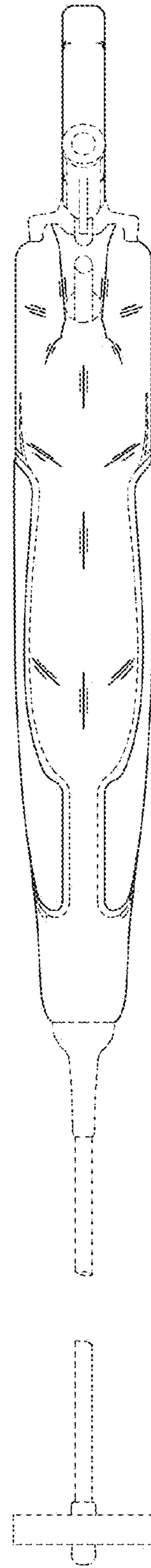


FIG. 8