



US00D893271S

(12) **United States Design Patent** (10) **Patent No.:** **US D893,271 S**
Murphy et al. (45) **Date of Patent:** **** Aug. 18, 2020**

(54) **CONNECTOR TERMINAL INSTALLATION TOOL**

(71) Applicant: **Molex, LLC**, Lisle, IL (US)

(72) Inventors: **Joseph F. Murphy**, Highland Park, IL (US); **Wai Y. Leung**, Chicago, IL (US)

(73) Assignee: **Molex, LLC**, Lisle, IL (US)

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

(21) Appl. No.: **29/670,222**

(22) Filed: **Nov. 14, 2018**

(51) **LOC (12) Cl.** **08-05**

(52) **U.S. Cl.**
USPC **D8/14**

(58) **Field of Classification Search**
USPC D8/14, 51, 98, 105
(Continued)

(56) **References Cited**

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(Continued)

Primary Examiner — Philip S Hyder

(74) *Attorney, Agent, or Firm* — Banner & Witcoff, Ltd.

(57) **CLAIM**

The ornamental design for a connector terminal installation tool, as shown and described.

DESCRIPTION

FIG. 1 is a top front perspective view of a connector terminal installation tool showing our new design in an open configuration;

FIG. 2 is a top rear perspective view thereof;

FIG. 3 is a left side view thereof;

FIG. 4 is a right side view thereof;

FIG. 5 is a top view thereof;

FIG. 6 is a bottom view thereof;

FIG. 7 is a front view thereof;

FIG. 8 is a rear view thereof;

FIG. 9 is a top front perspective view of the connector terminal installation tool of FIGS. 1-8 shown in a closed configuration;

FIG. 10 is a top rear perspective view thereof;

FIG. 11 is a left side view thereof;

FIG. 12 is a right side view thereof;

FIG. 13 is a top view thereof;

FIG. 14 is a bottom view thereof;

FIG. 15 is a front view thereof;

FIG. 16 is a rear view thereof;

FIG. 17 is a top front perspective view of the connector terminal installation tool of FIGS. 1-8 shown in an alternate open configuration;

FIG. 18 is a top rear perspective view thereof;

FIG. 19 is a left side view thereof;

FIG. 20 is a right side view thereof;

FIG. 21 is a top view thereof;

FIG. 22 is a bottom view thereof;

FIG. 23 is a front view thereof;

FIG. 24 is a rear view thereof;

FIG. 25 is a top front perspective view of the connector terminal installation tool of FIGS. 1-8 shown in an alternate closed configuration;

FIG. 26 is a top rear perspective view thereof;

FIG. 27 is a left side view thereof;

FIG. 28 is a right side view thereof;

FIG. 29 is a top view thereof;

FIG. 30 is a bottom view thereof;

FIG. 31 is a front view thereof;

FIG. 32 is a rear view thereof;

FIG. 33 is a top front perspective view of the connector terminal installation tool of FIGS. 1-8 shown in an alternate open configuration;

FIG. 34 is a top rear perspective view thereof;

FIG. 35 is a left side view thereof;

FIG. 36 is a right side view thereof;

FIG. 37 is a top view thereof;

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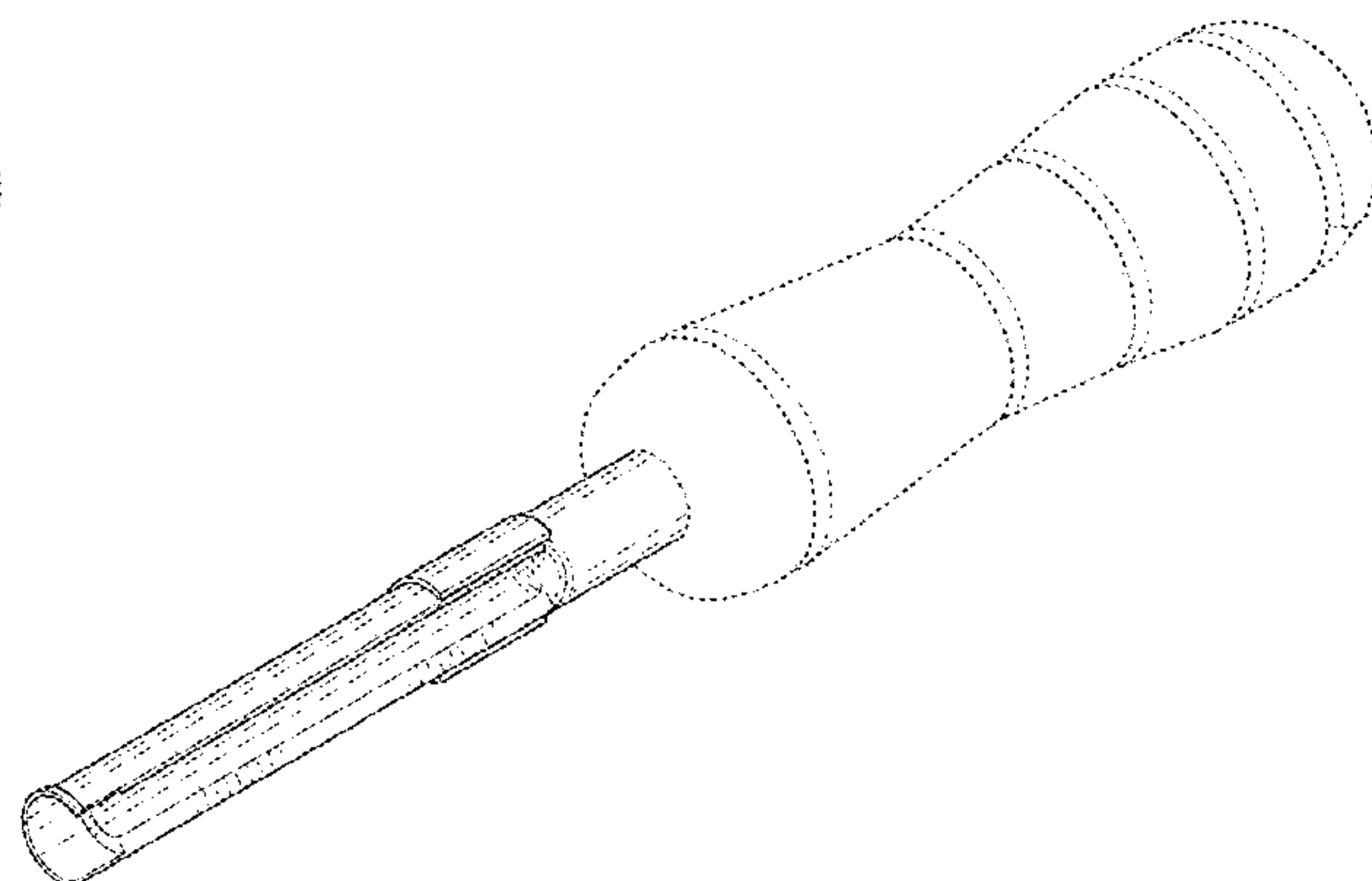
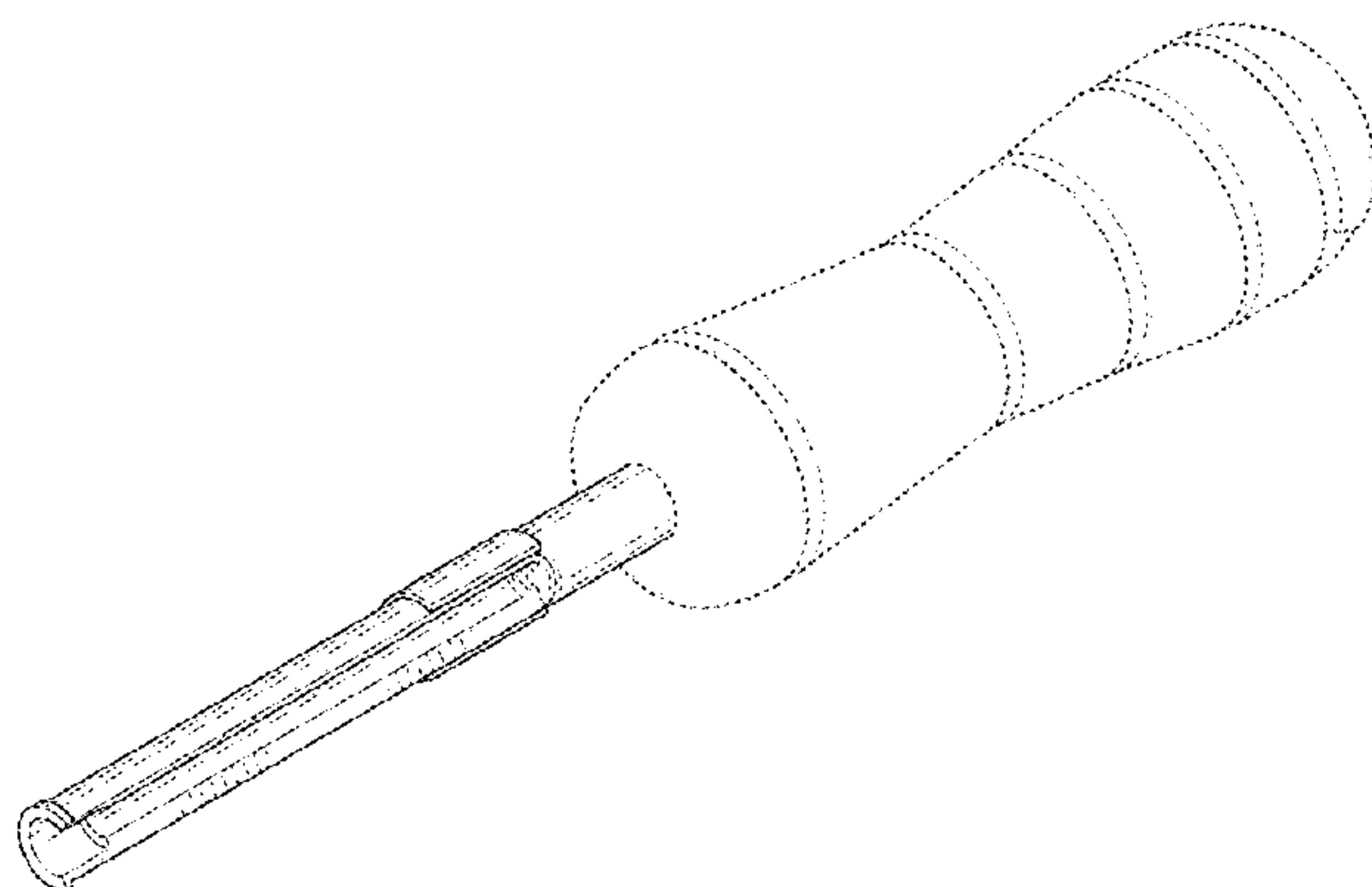


FIG. 38 is a bottom view thereof;
 FIG. 39 is a front view thereof;
 FIG. 40 is a rear view thereof;
 FIG. 41 is a top front perspective view of the connector terminal installation tool of FIGS. 1-8 shown in an alternate closed configuration;
 FIG. 42 is a top rear perspective view thereof;
 FIG. 43 is a left side view thereof;
 FIG. 44 is a right side view thereof;
 FIG. 45 is a top view thereof;
 FIG. 46 is a bottom view thereof;
 FIG. 47 is a front view thereof;
 FIG. 48 is a rear view thereof;
 FIG. 49 is a top front perspective view of an alternate embodiment of a connector terminal installation tool showing our new design in an open configuration;
 FIG. 50 is a top rear perspective view thereof;
 FIG. 51 is a left side view thereof;
 FIG. 52 is a right side view thereof;
 FIG. 53 is a top view thereof;
 FIG. 54 is a bottom view thereof;
 FIG. 55 is a front view thereof;
 FIG. 56 is a rear view thereof;
 FIG. 57 is a top front perspective view of the connector terminal installation tool of FIGS. 49-56 shown in a closed configuration;
 FIG. 58 is a top rear perspective view thereof;
 FIG. 59 is a left side view thereof;
 FIG. 60 is a right side view thereof;
 FIG. 61 is a top view thereof;
 FIG. 62 is a bottom view thereof;
 FIG. 63 is a front view thereof;
 FIG. 64 is a rear view thereof;
 FIG. 65 is a top front perspective view of the connector terminal installation tool of FIGS. 49-56 shown in an alternate open configuration;
 FIG. 66 is a top rear perspective view thereof;
 FIG. 67 is a left side view thereof;
 FIG. 68 is a right side view thereof;
 FIG. 69 is a top view thereof;
 FIG. 70 is a bottom view thereof;
 FIG. 71 is a front view thereof;
 FIG. 72 is a rear view thereof;
 FIG. 73 is a top front perspective view of the connector terminal installation tool of FIGS. 49-56 shown in an alternate closed configuration;
 FIG. 74 is a top rear perspective view thereof;
 FIG. 75 is a left side view thereof;
 FIG. 76 is a right side view thereof;
 FIG. 77 is a top view thereof;
 FIG. 78 is a bottom view thereof;
 FIG. 79 is a front view thereof;
 FIG. 80 is a rear view thereof;
 FIG. 81 is a top front perspective view of the connector terminal installation tool of FIGS. 49-56 shown in an alternate open configuration;

FIG. 82 is a top rear perspective view thereof;
 FIG. 83 is a left side view thereof;
 FIG. 84 is a right side view thereof;
 FIG. 85 is a top view thereof;
 FIG. 86 is a bottom view thereof;
 FIG. 87 is a front view thereof;
 FIG. 88 is a rear view thereof;
 FIG. 89 is a top front perspective view of the connector terminal installation of FIGS. 49-56 shown in an alternate closed configuration;
 FIG. 90 is a top rear perspective view thereof;
 FIG. 91 is a left side view thereof;
 FIG. 92 is a right side view thereof;
 FIG. 93 is a top view thereof;
 FIG. 94 is a bottom view thereof;
 FIG. 95 is a front view thereof; and,
 FIG. 96 is a rear view thereof.

The broken line immediately adjacent to the shaded area represents a boundary of the claimed design and forms no part thereof. The broken lines depicting the remainder of the connector terminal installation tool show features that form no part of the claimed design.

1 Claim, 48 Drawing Sheets

(58) Field of Classification Search

CPC ... H01R 43/22; H01R 43/26; Y10T 29/53174;
 Y10T 29/53283; Y10T 29/53943; Y10T
 29/53274; Y10T 29/5327

See application file for complete search history.

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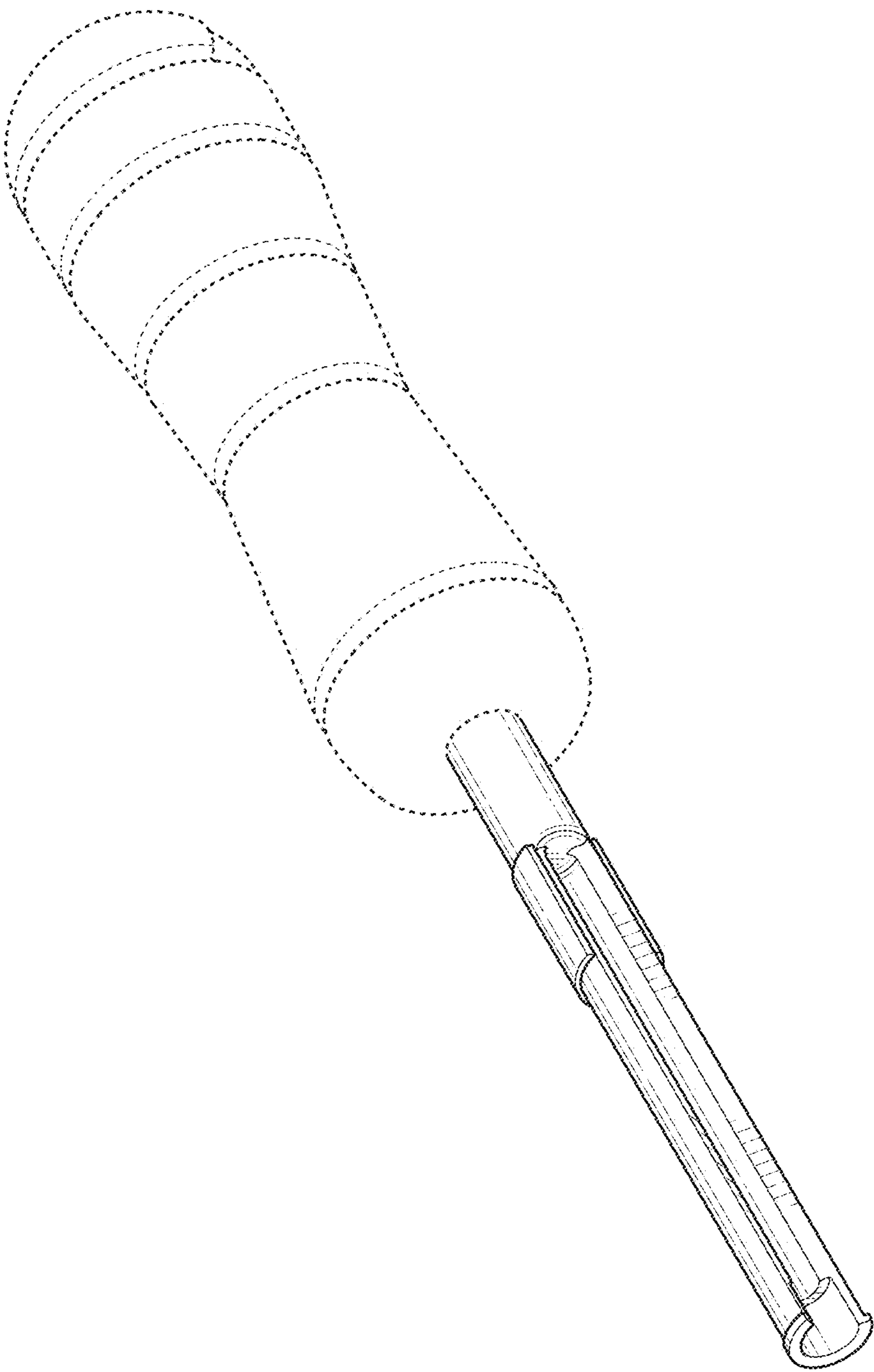


FIG. 1

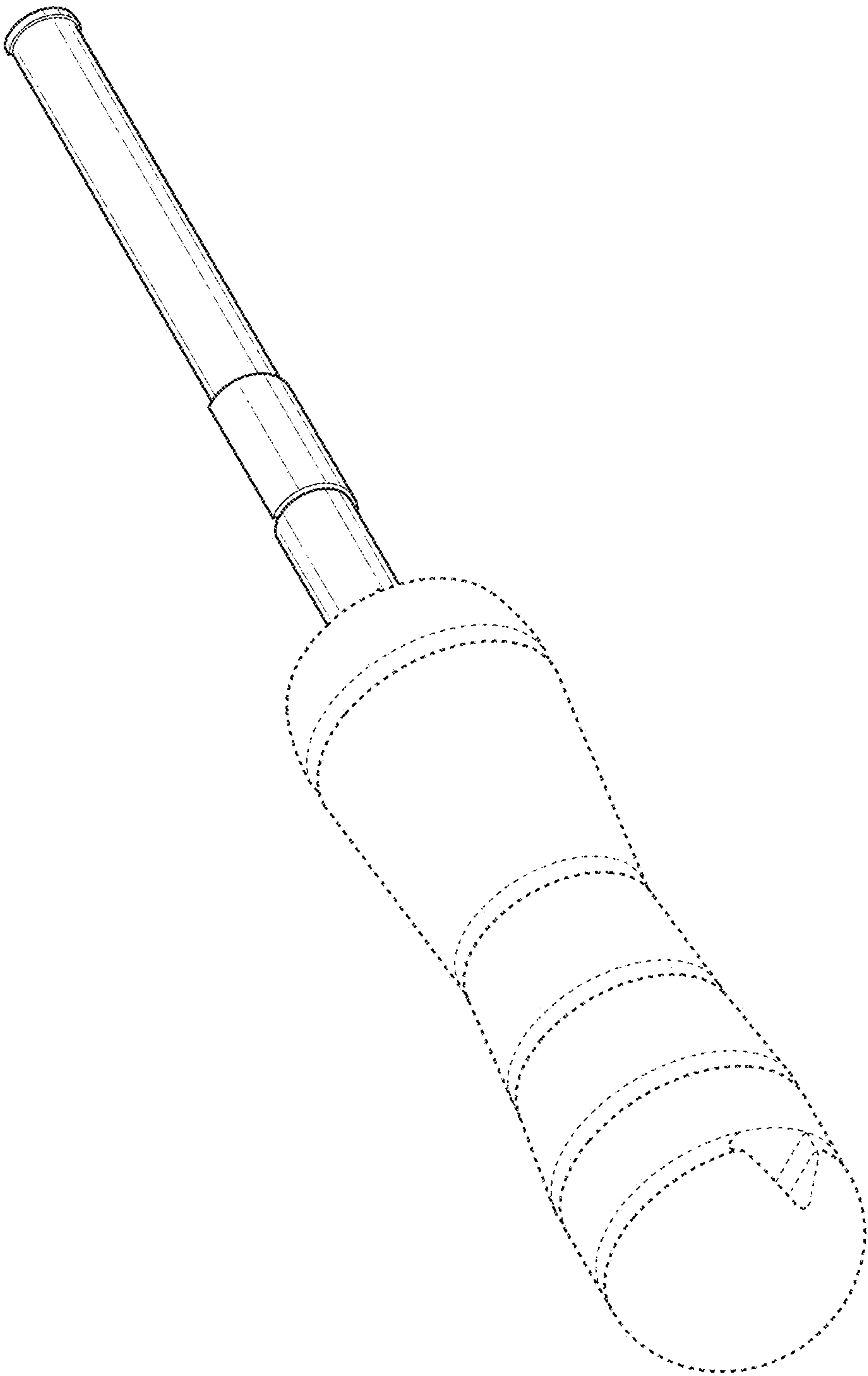


FIG. 2

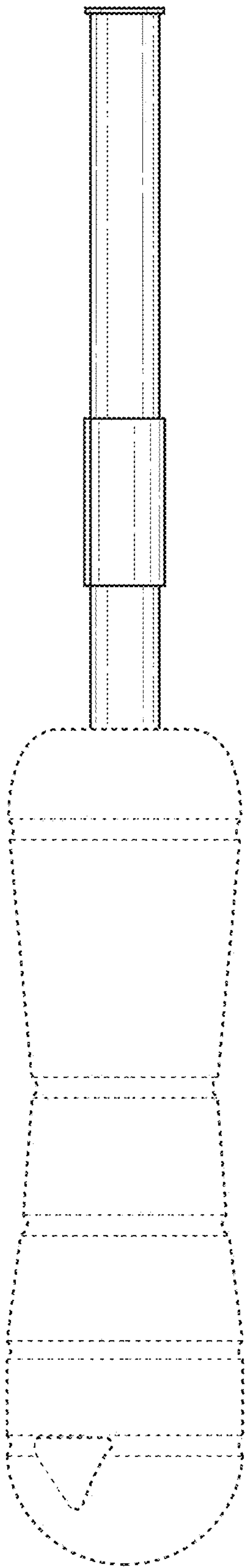


FIG. 3

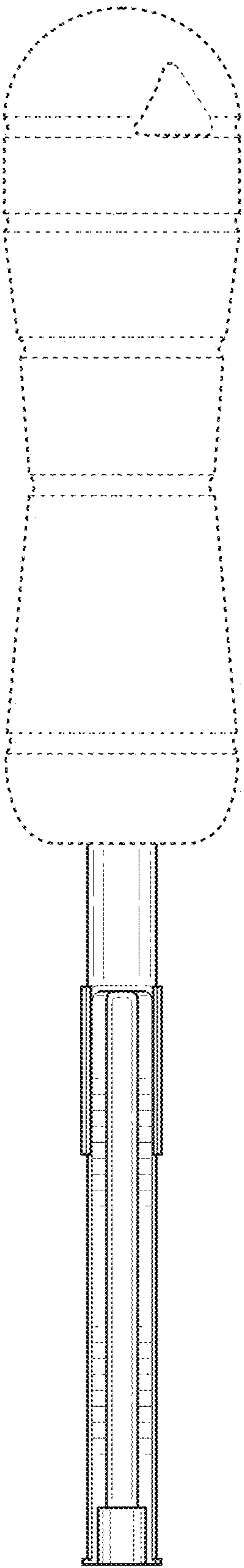


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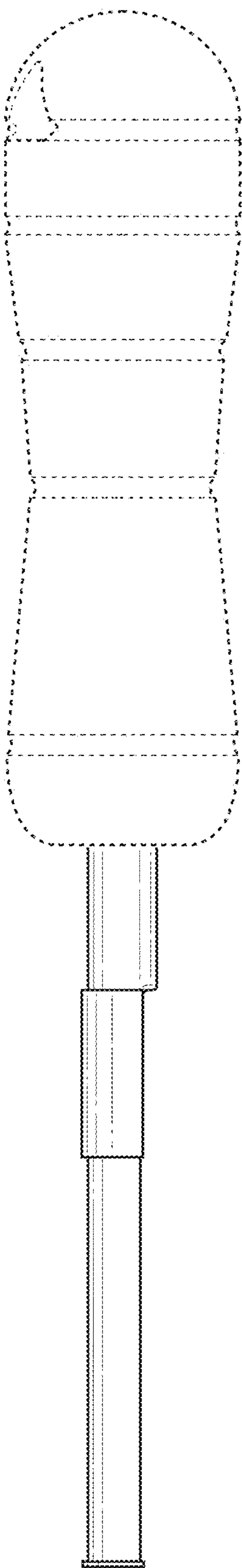


FIG. 5

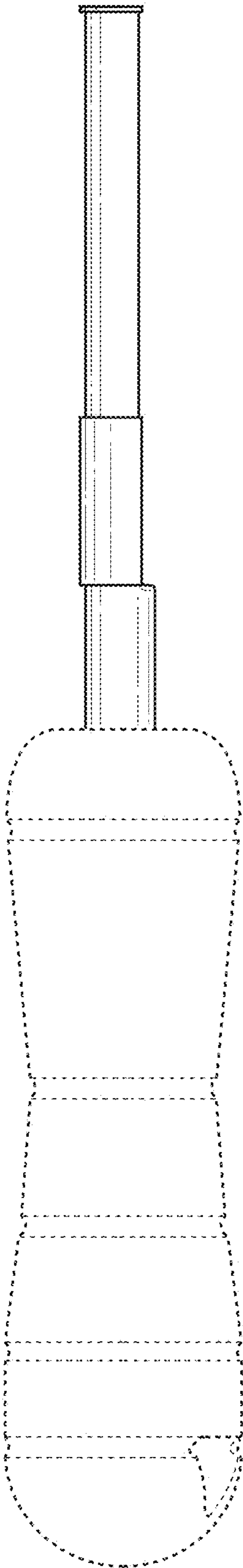


FIG. 6

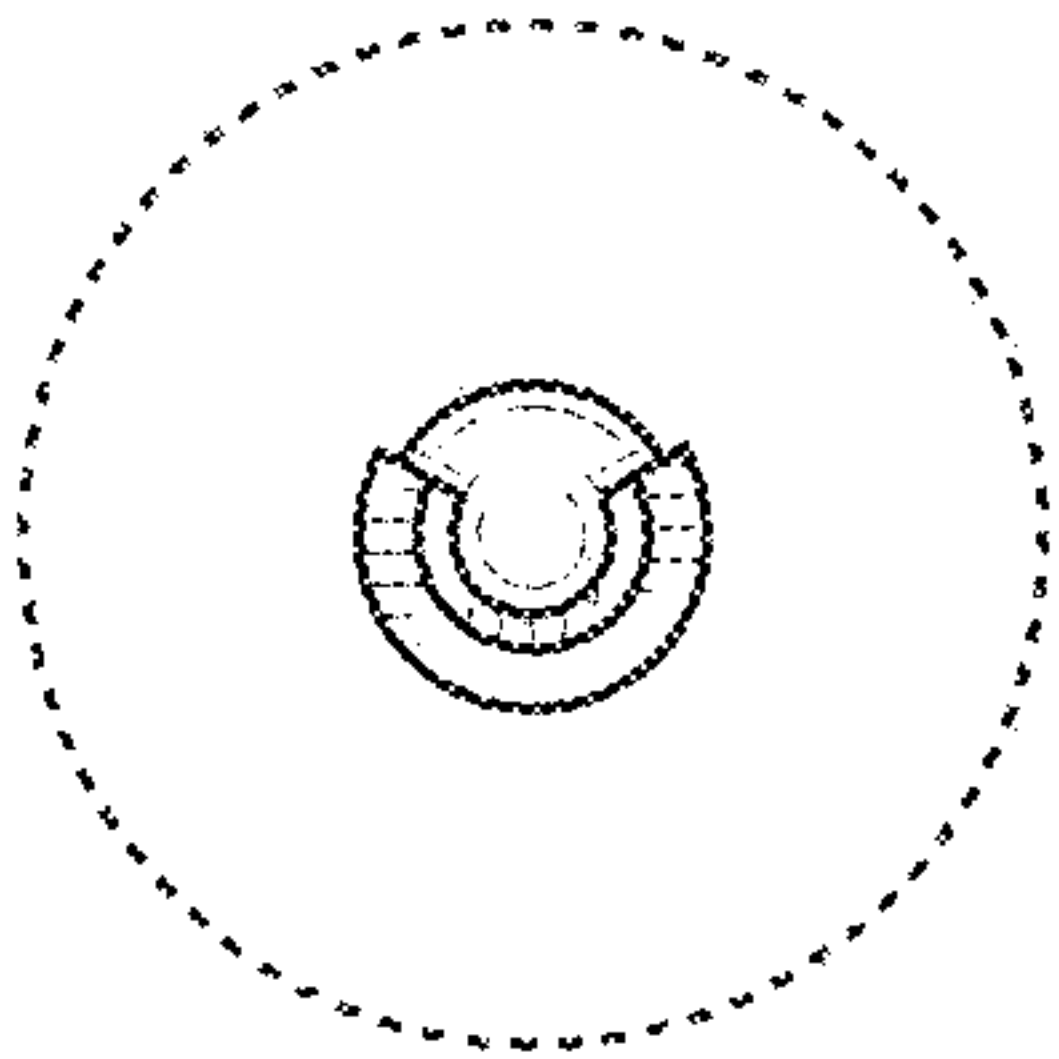


FIG. 7

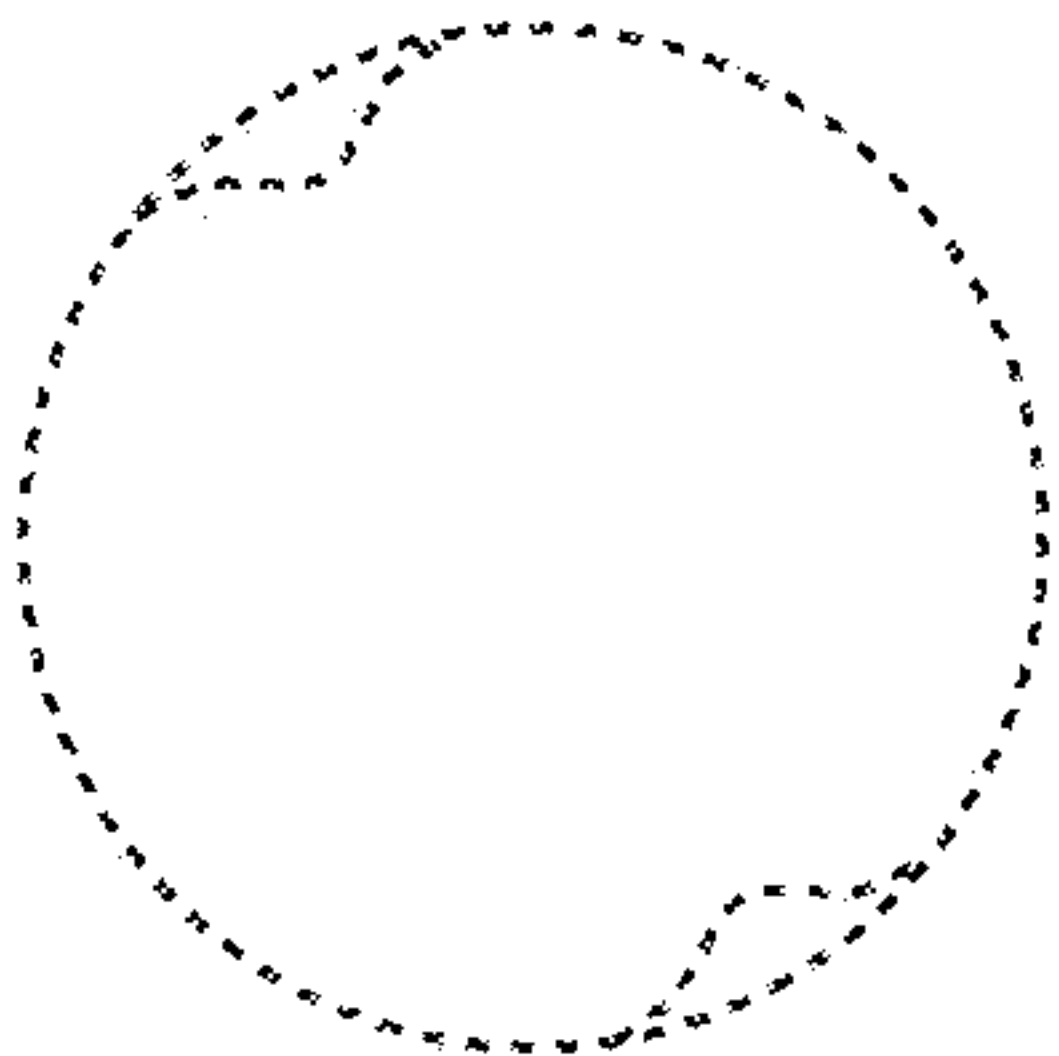


FIG. 8

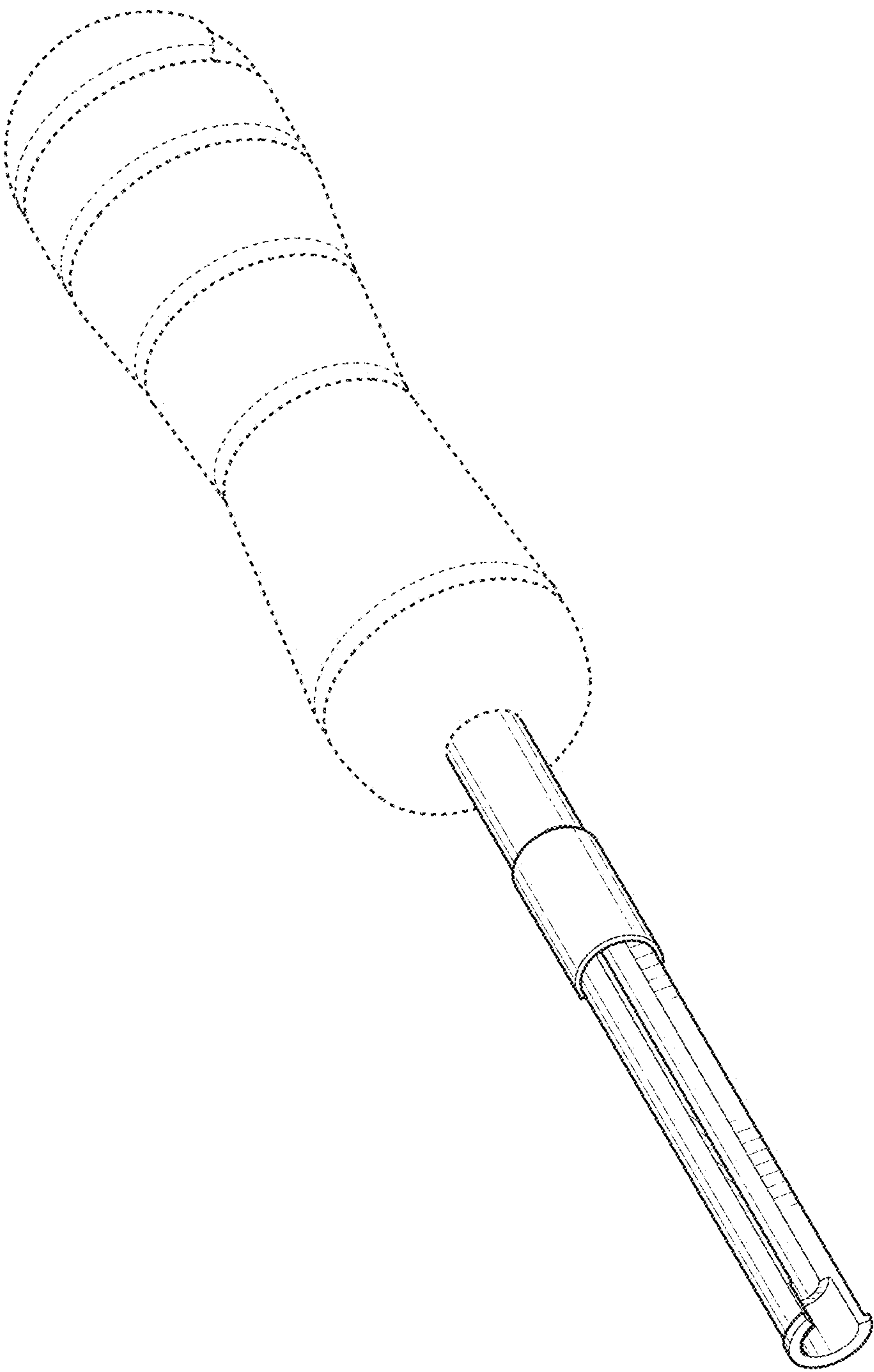


FIG. 9

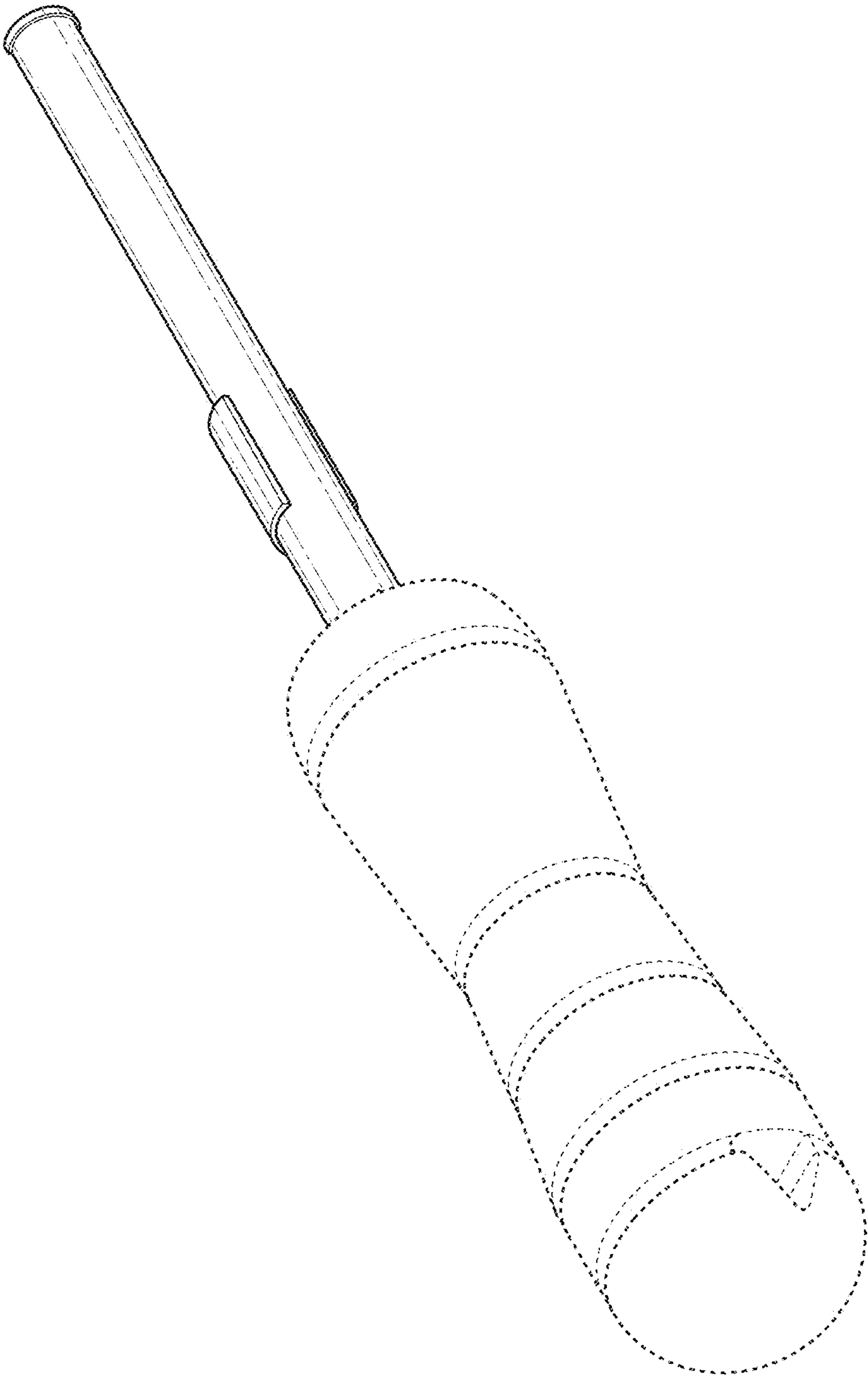


FIG. 10

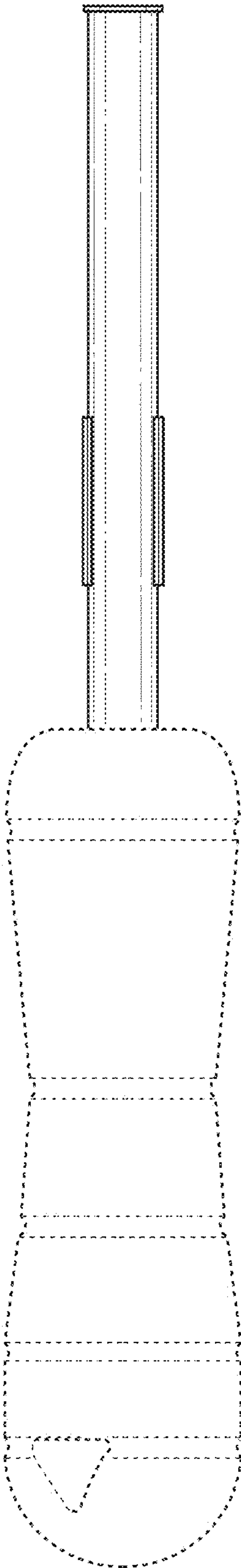


FIG. 11

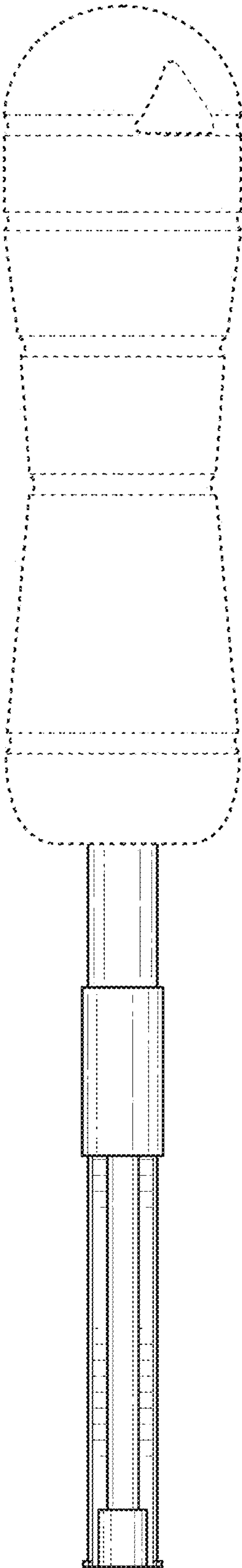


FIG. 12

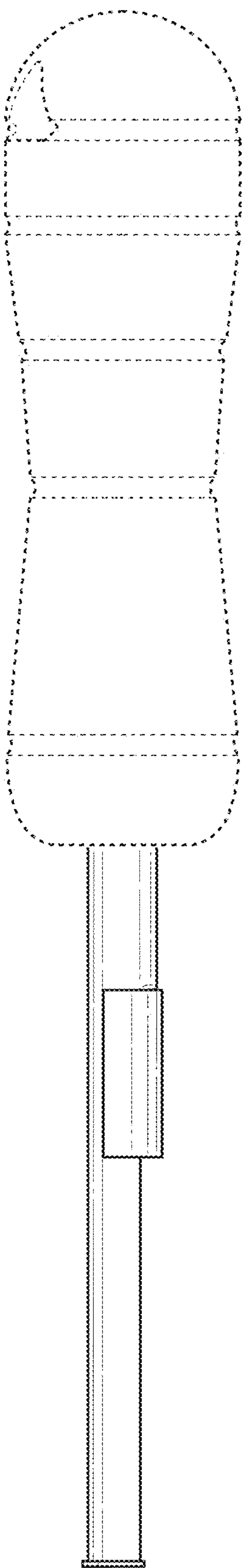


FIG. 13

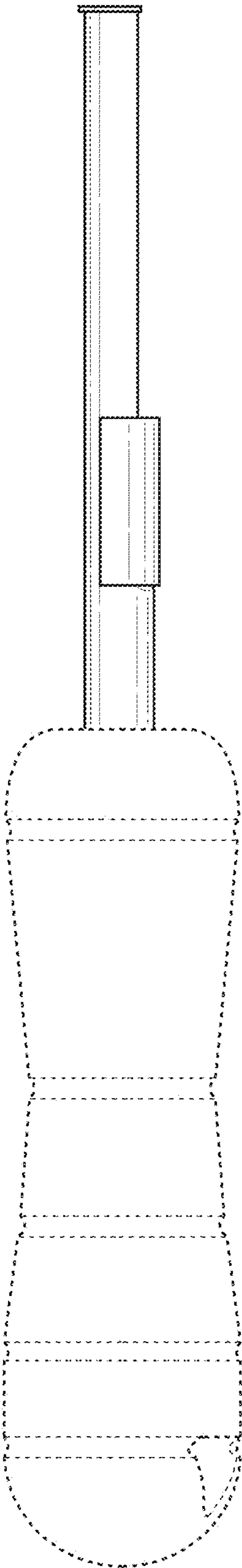


FIG. 14

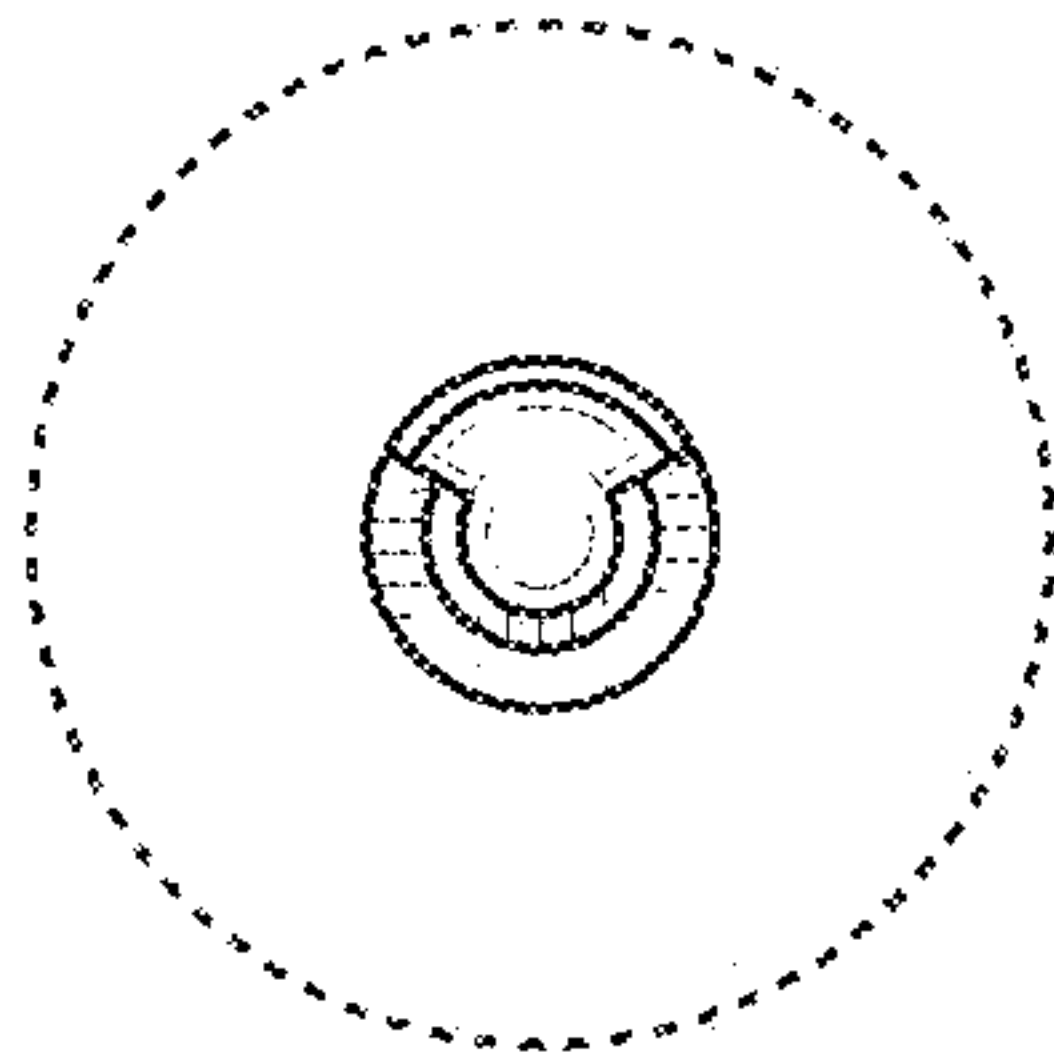


FIG. 15

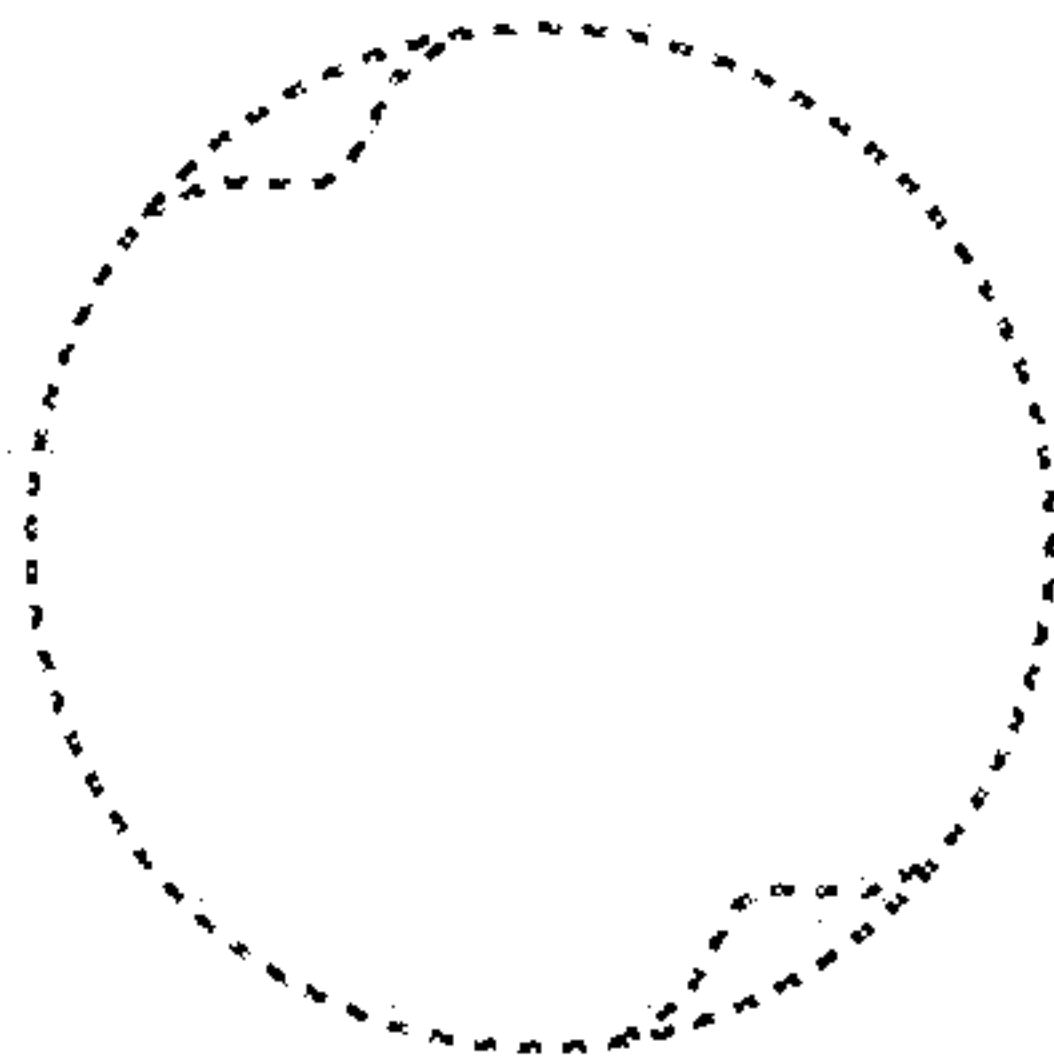


FIG. 16

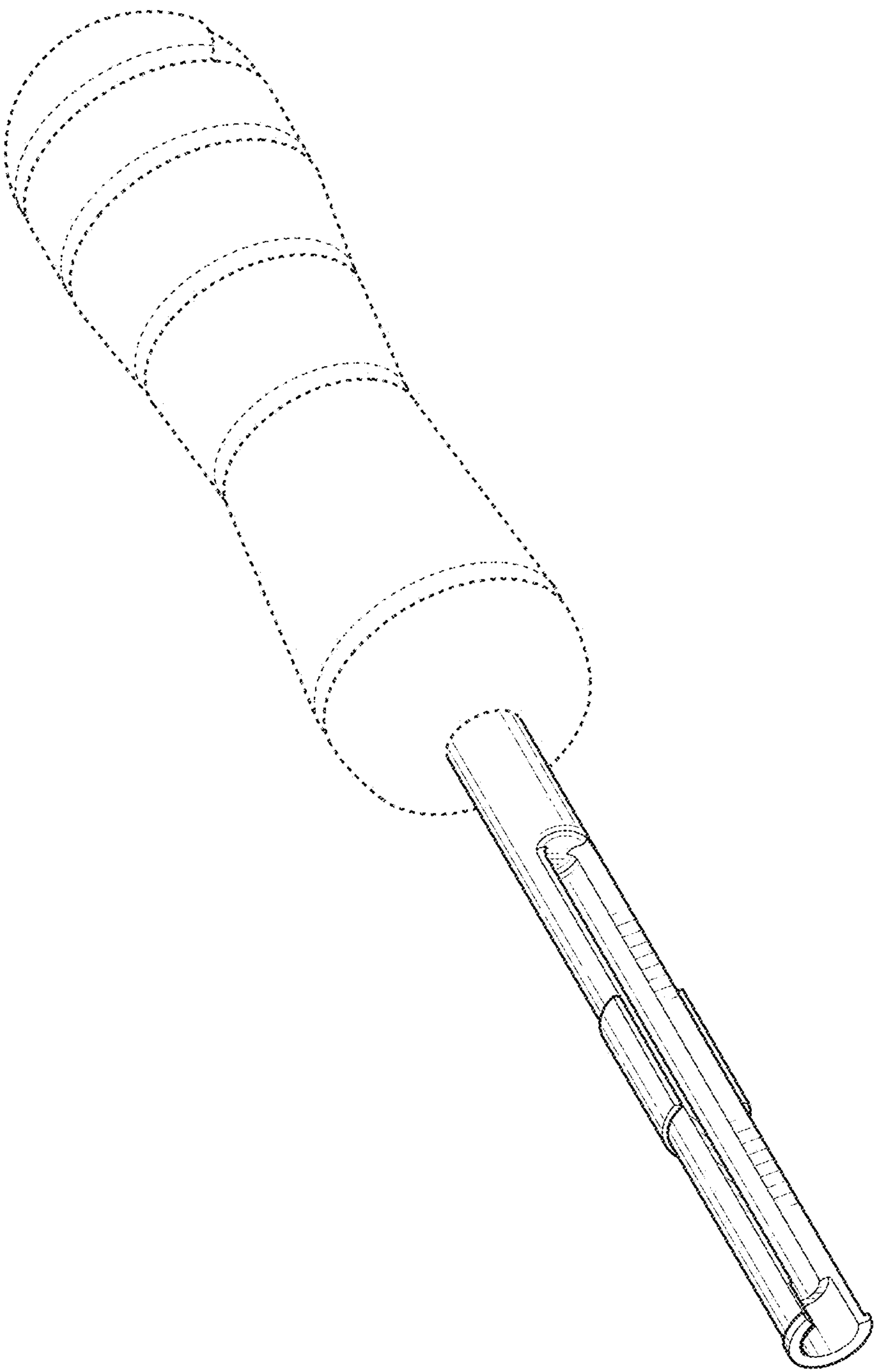


FIG. 17

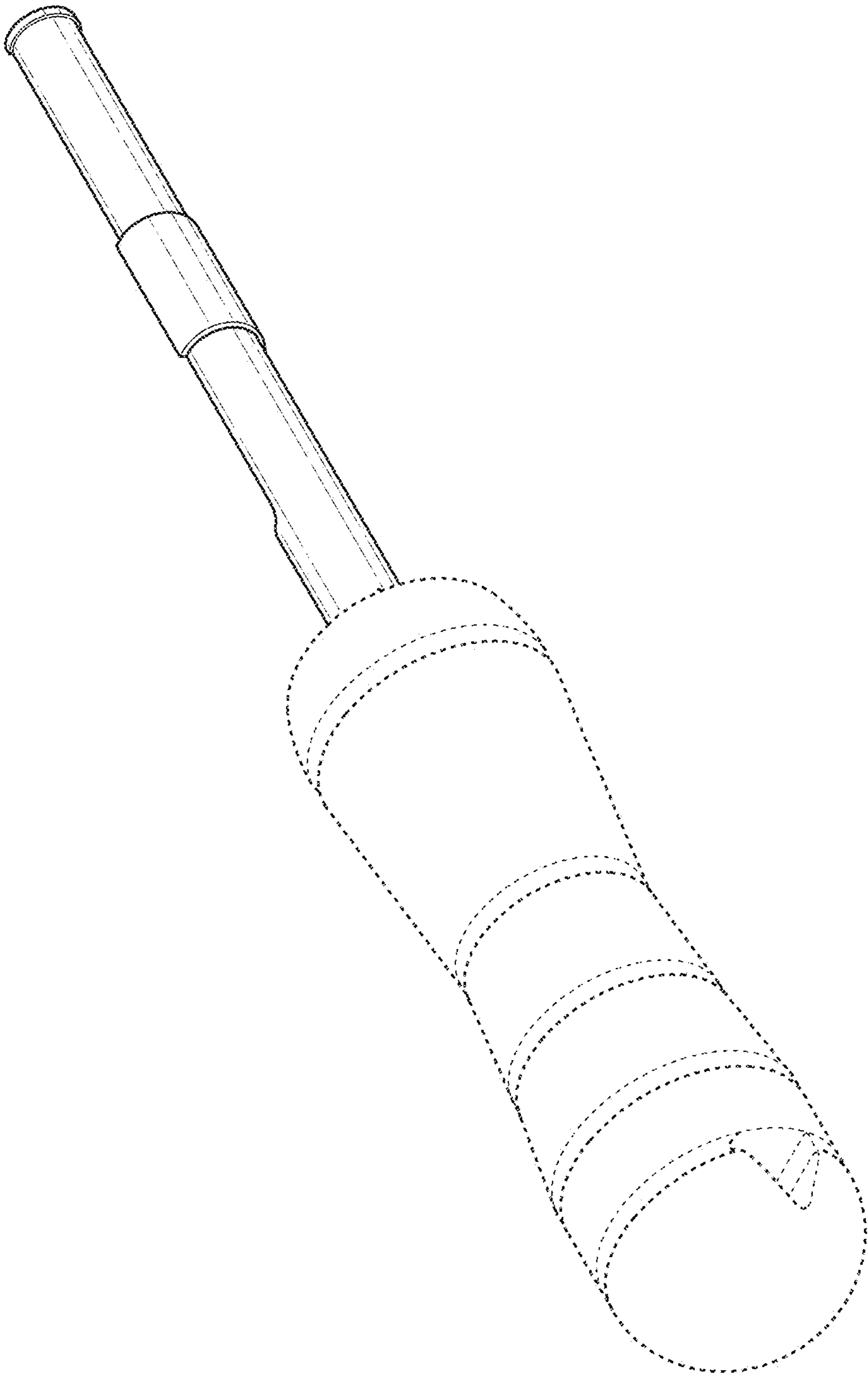


FIG. 18

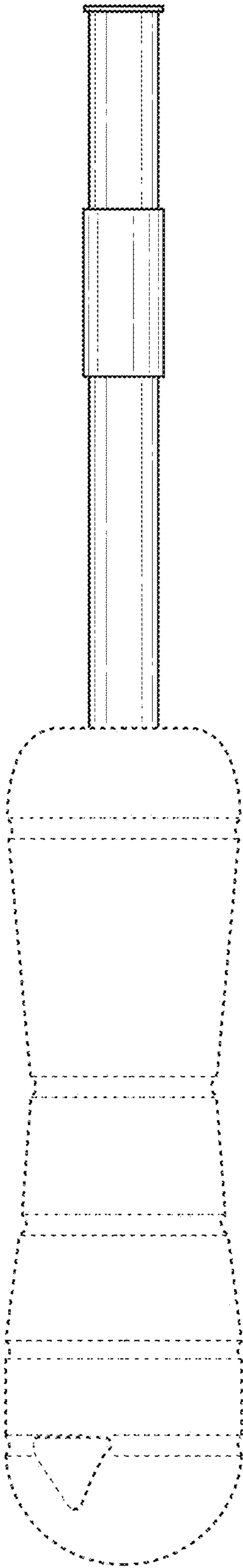


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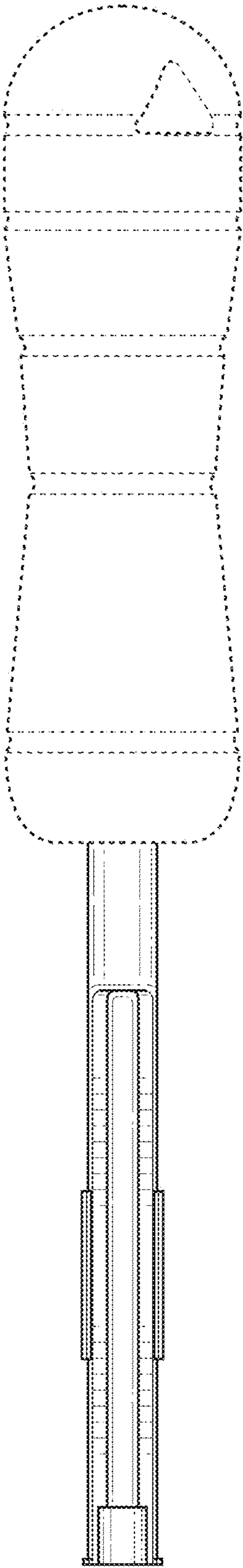


FIG. 20

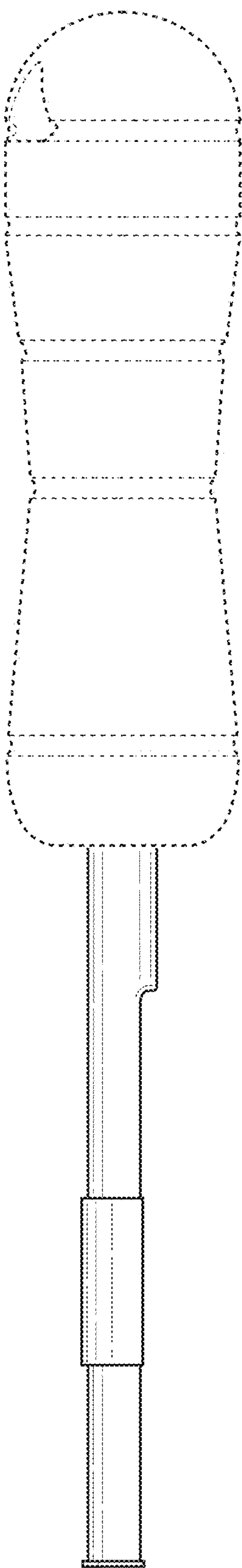


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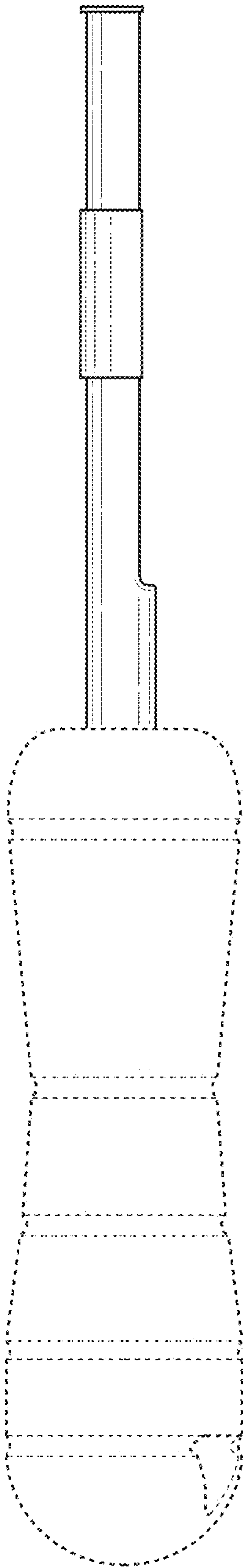


FIG. 22

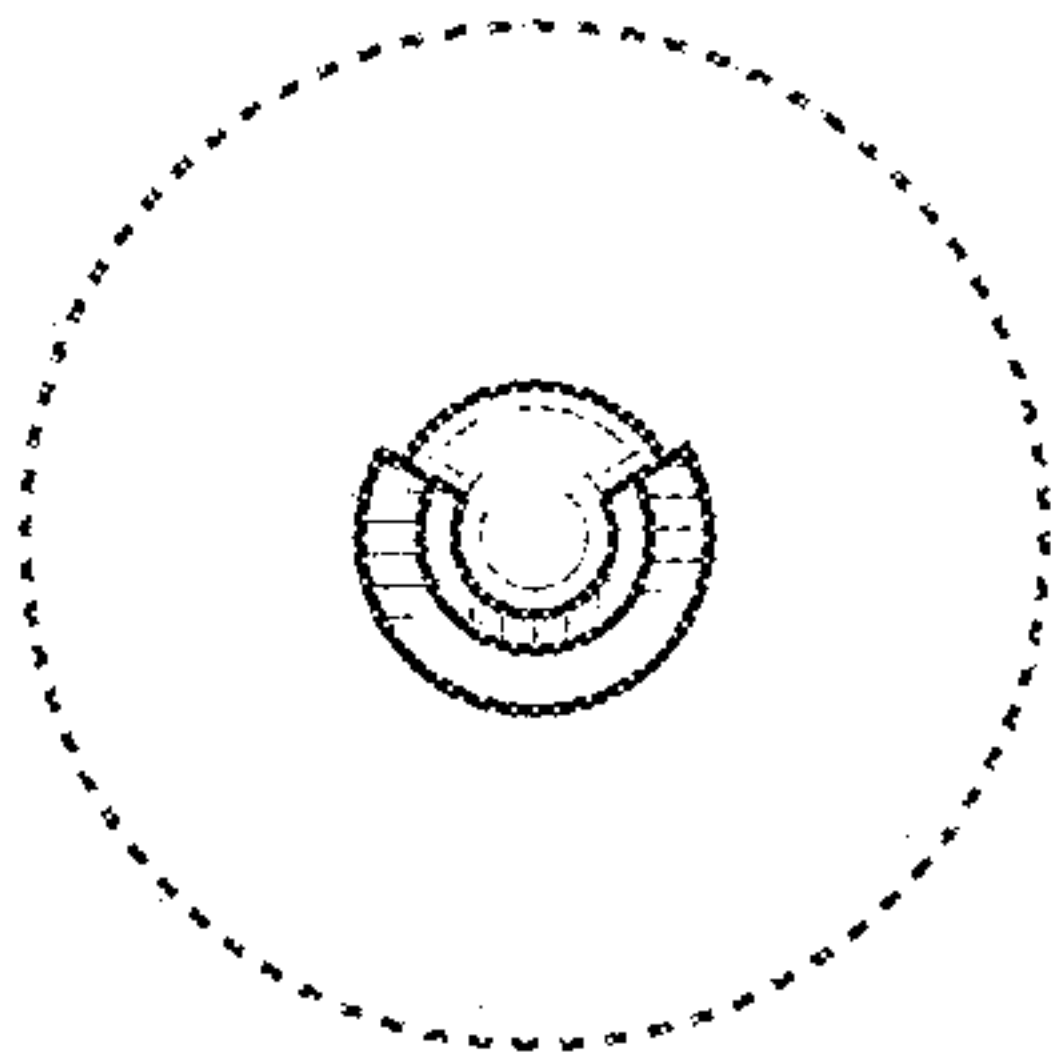


FIG. 23

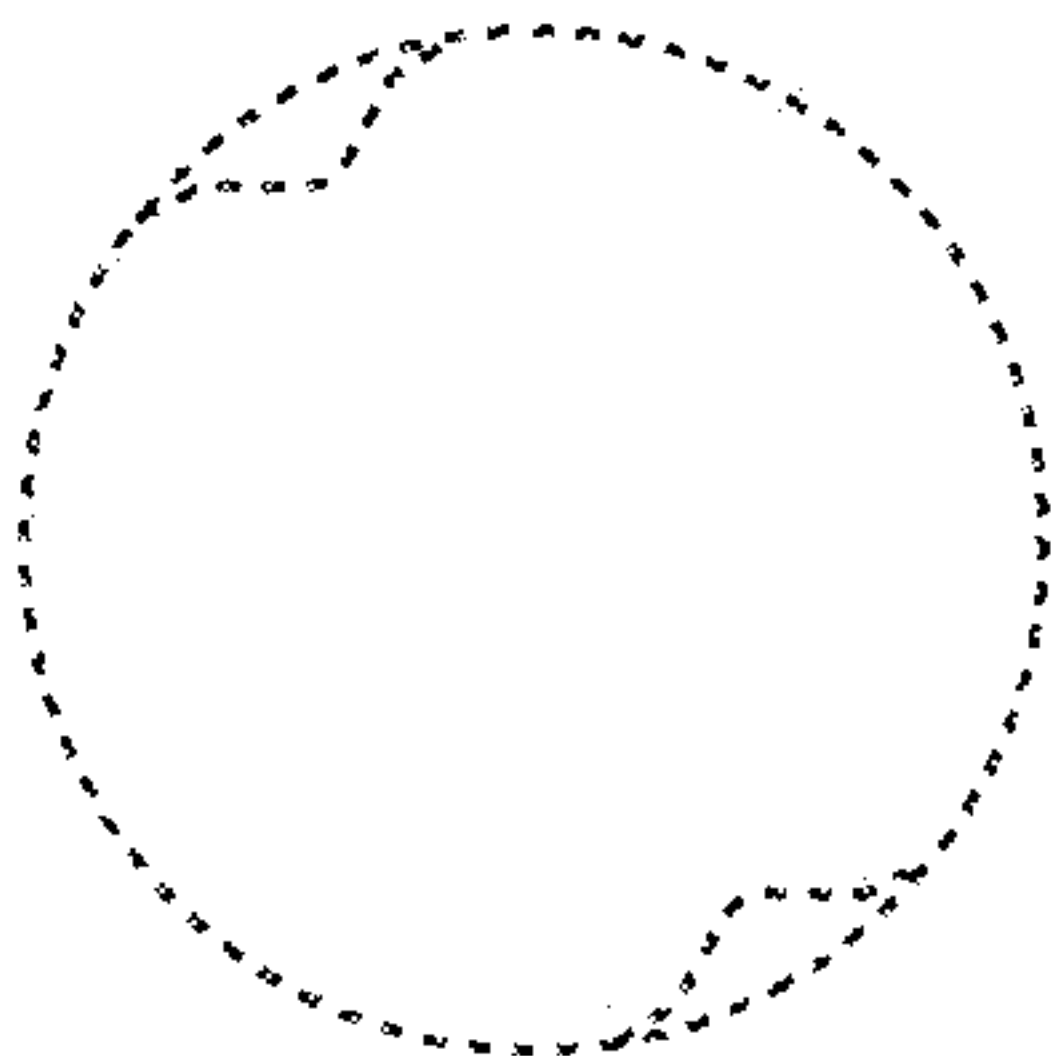


FIG. 24

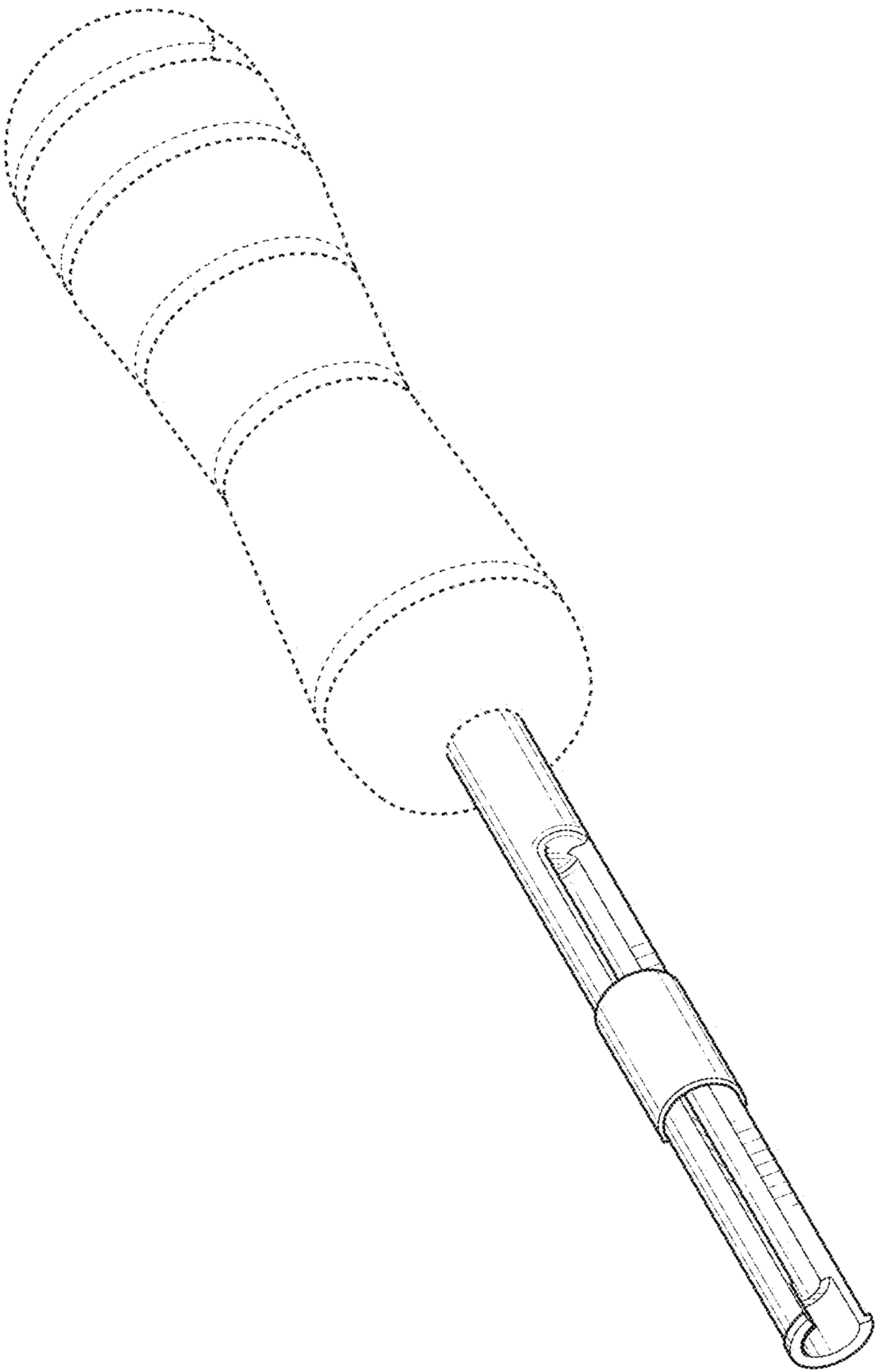


FIG. 25

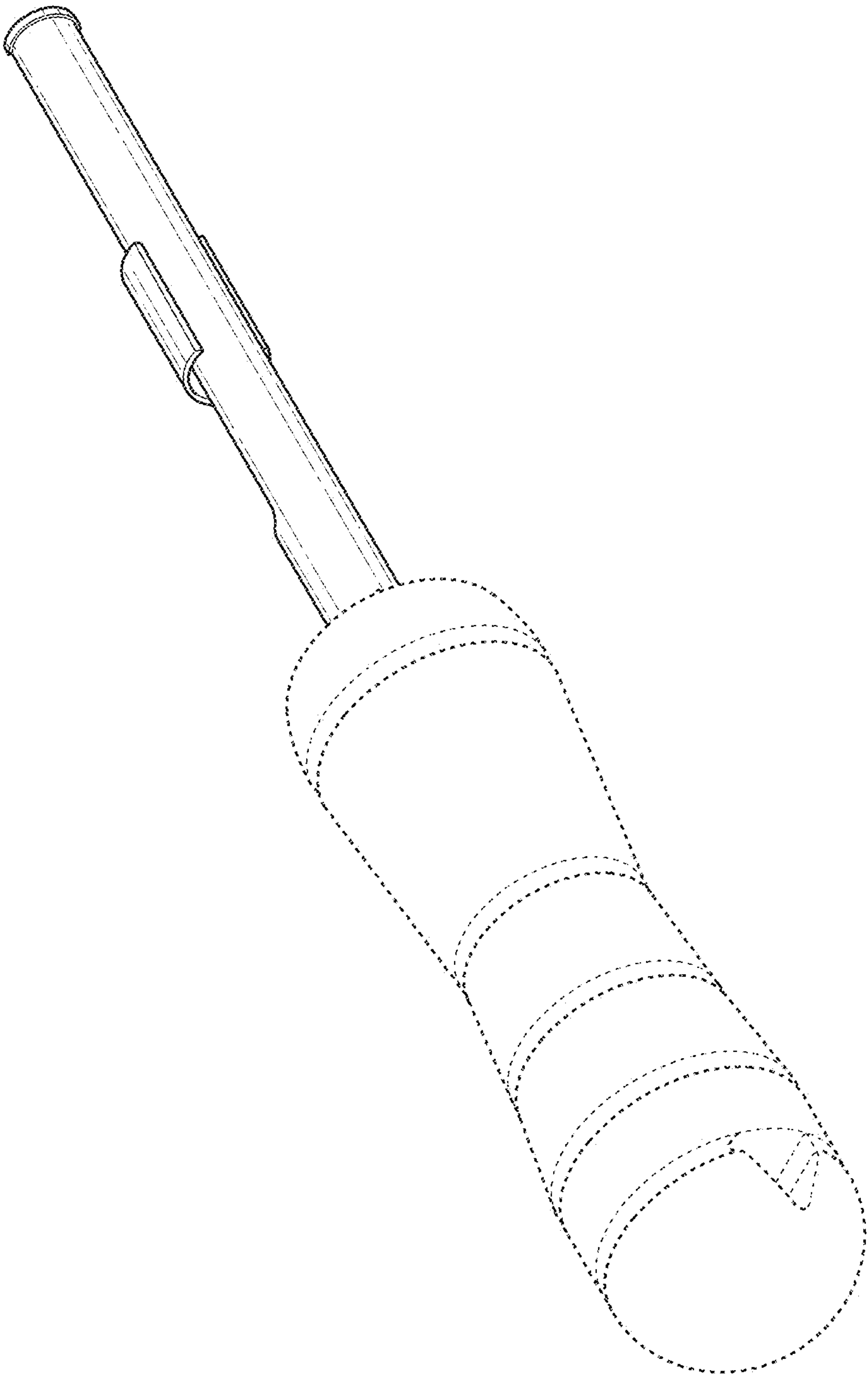


FIG. 26

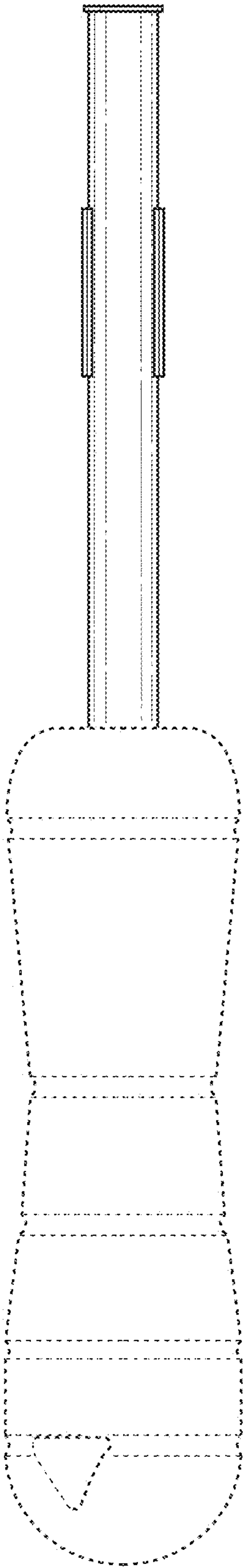


FIG. 27

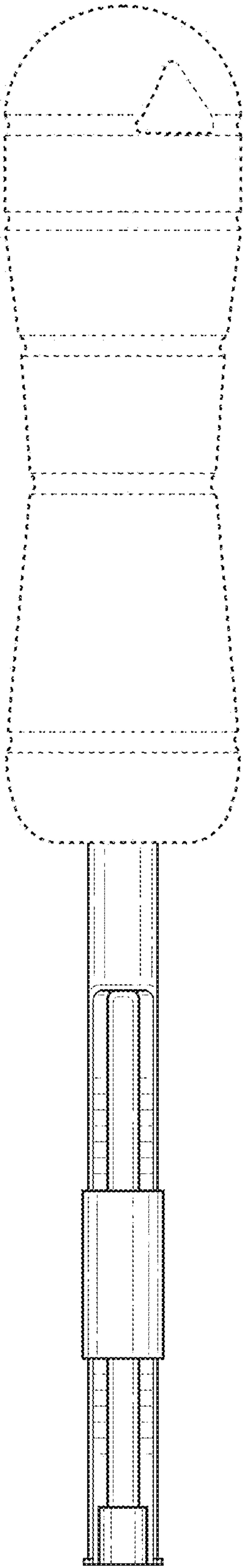


FIG. 28

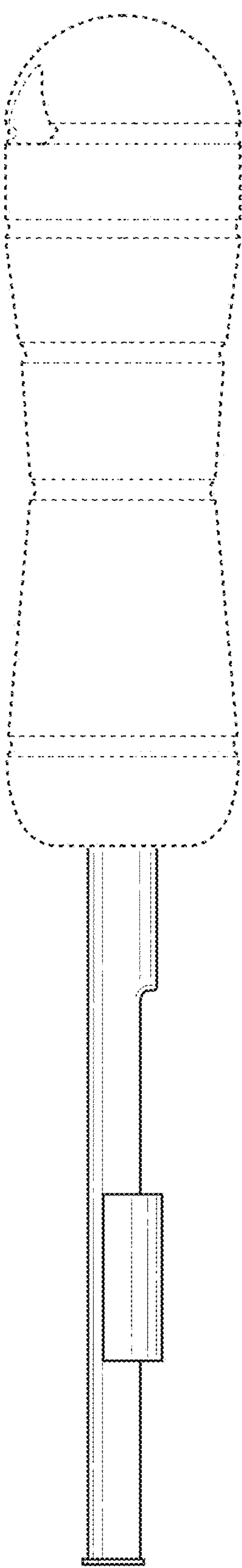


FIG. 29

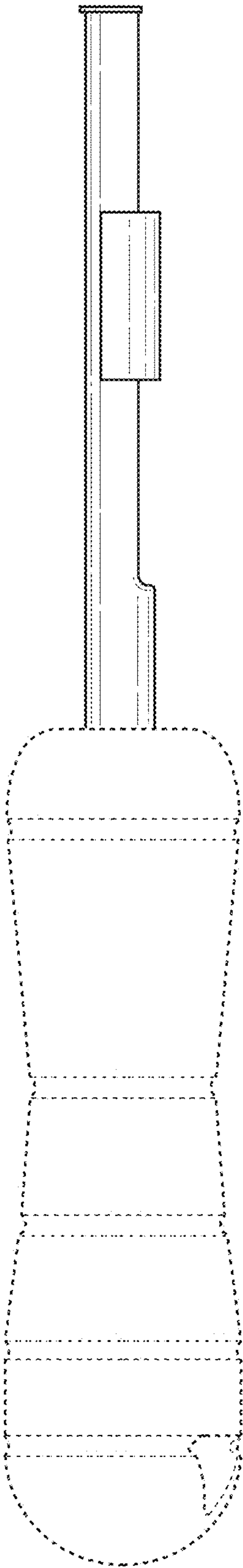


FIG. 30

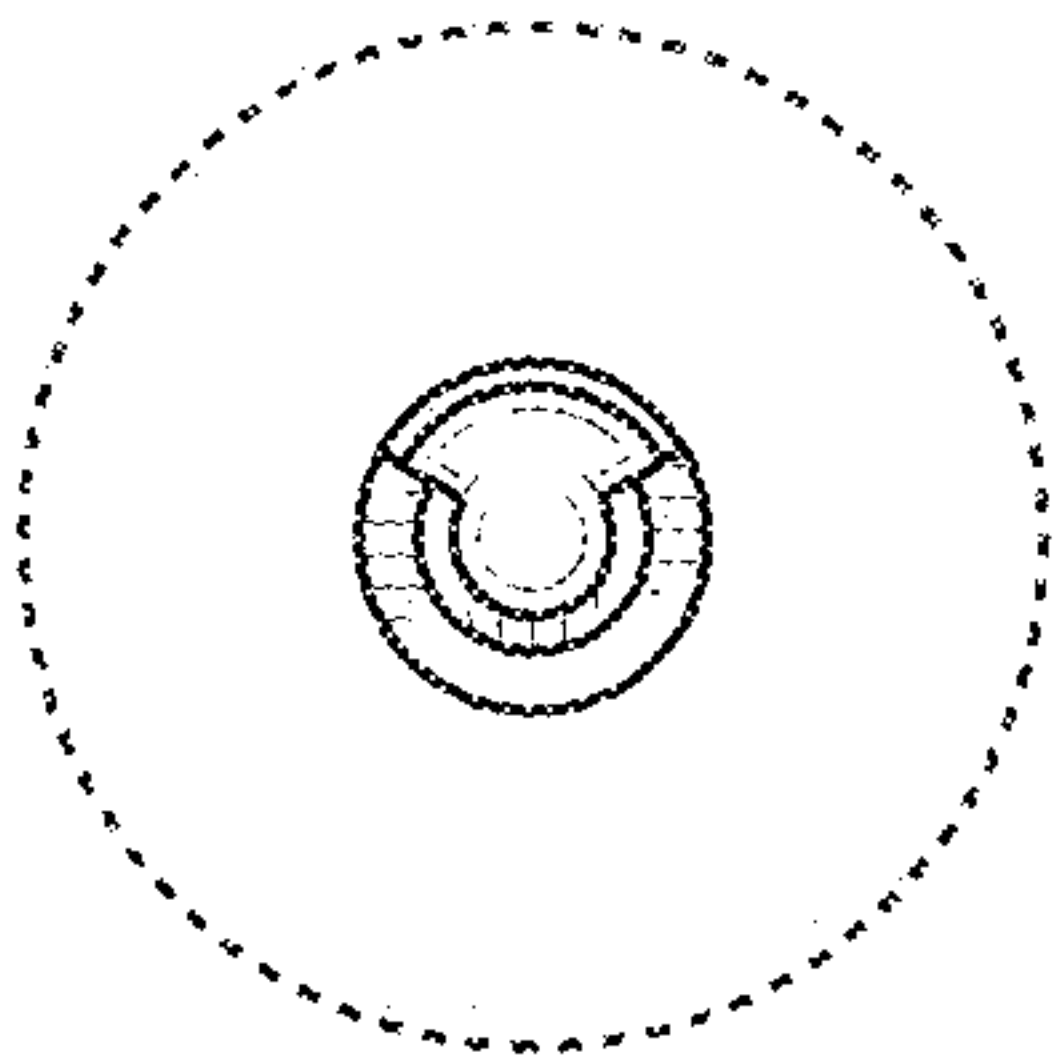


FIG. 31

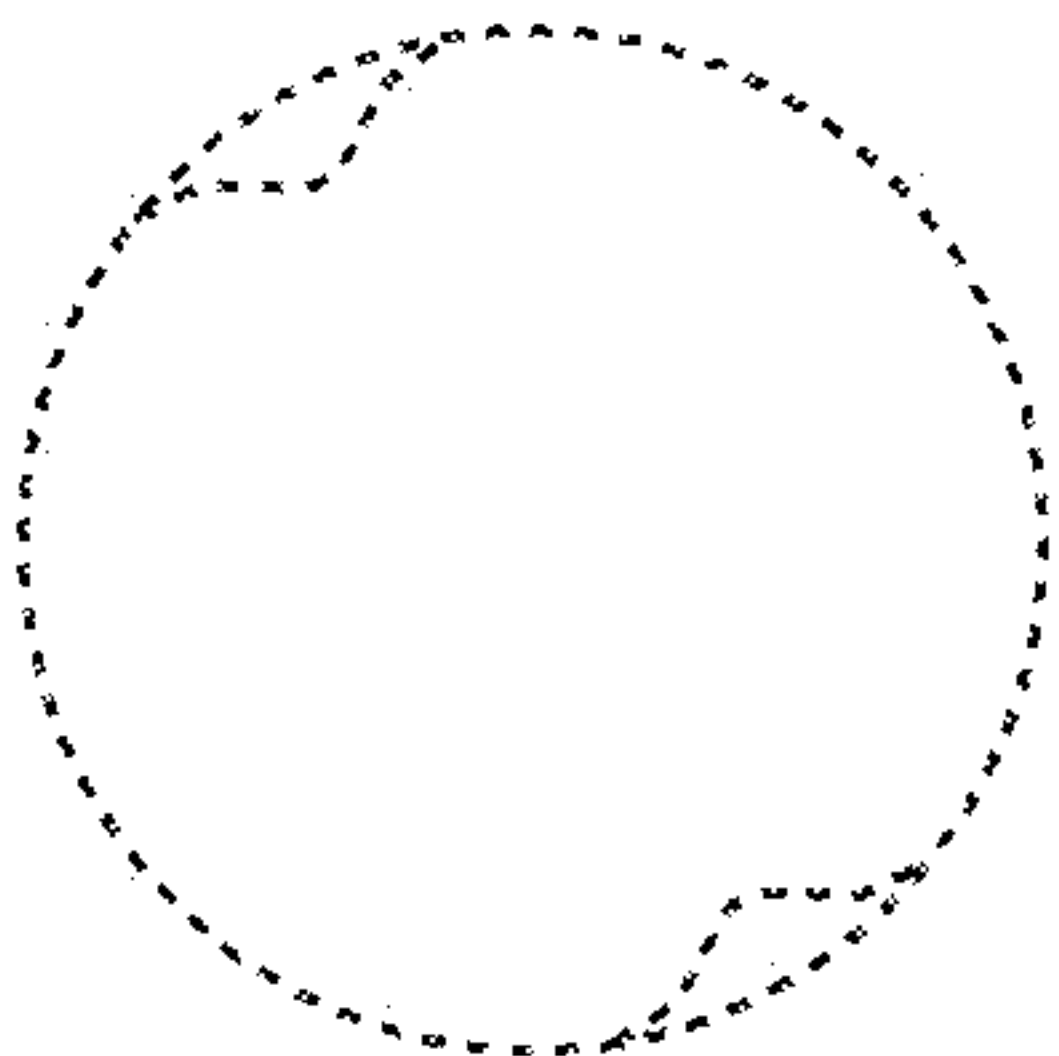


FIG. 32

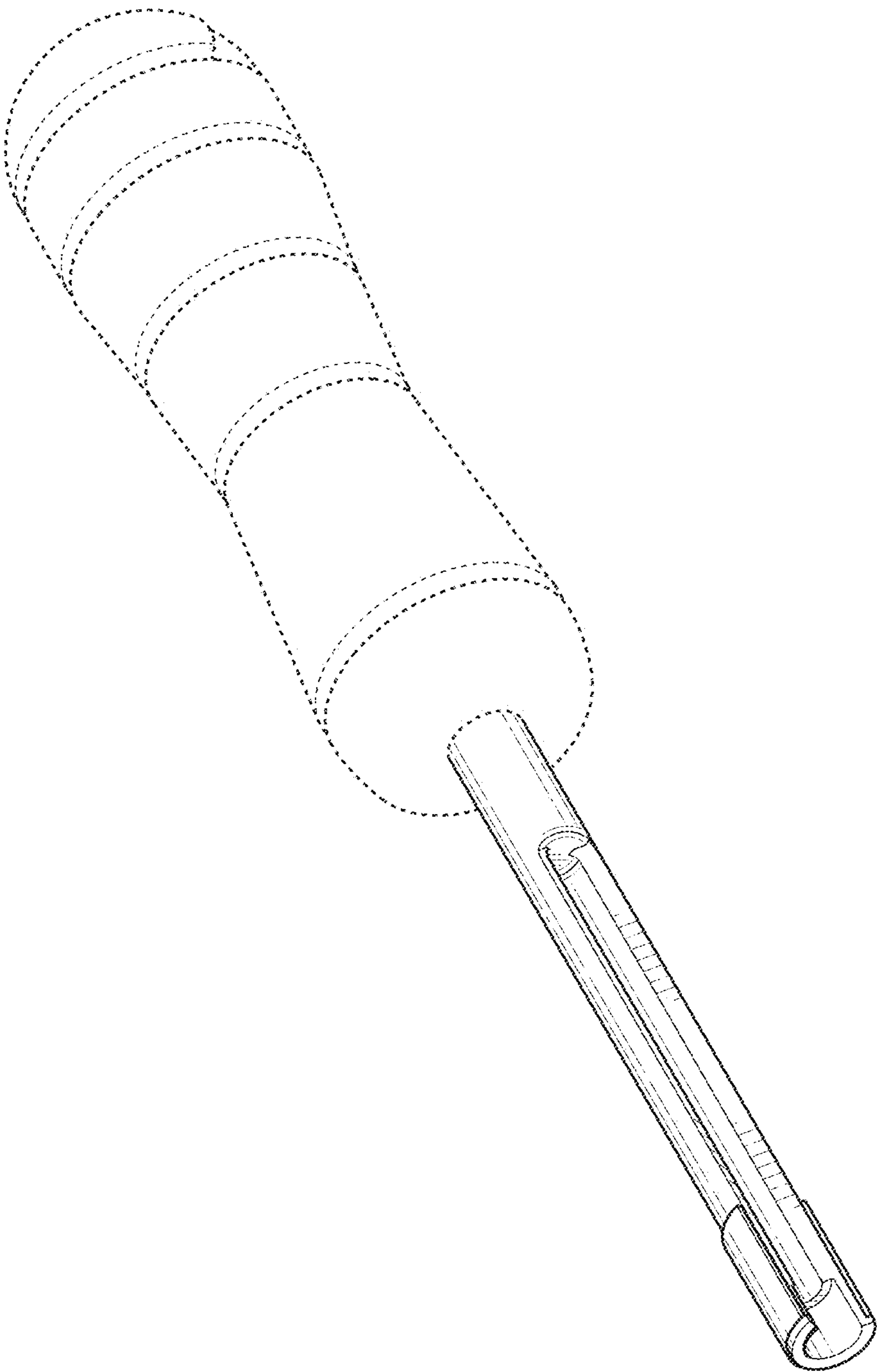


FIG. 33

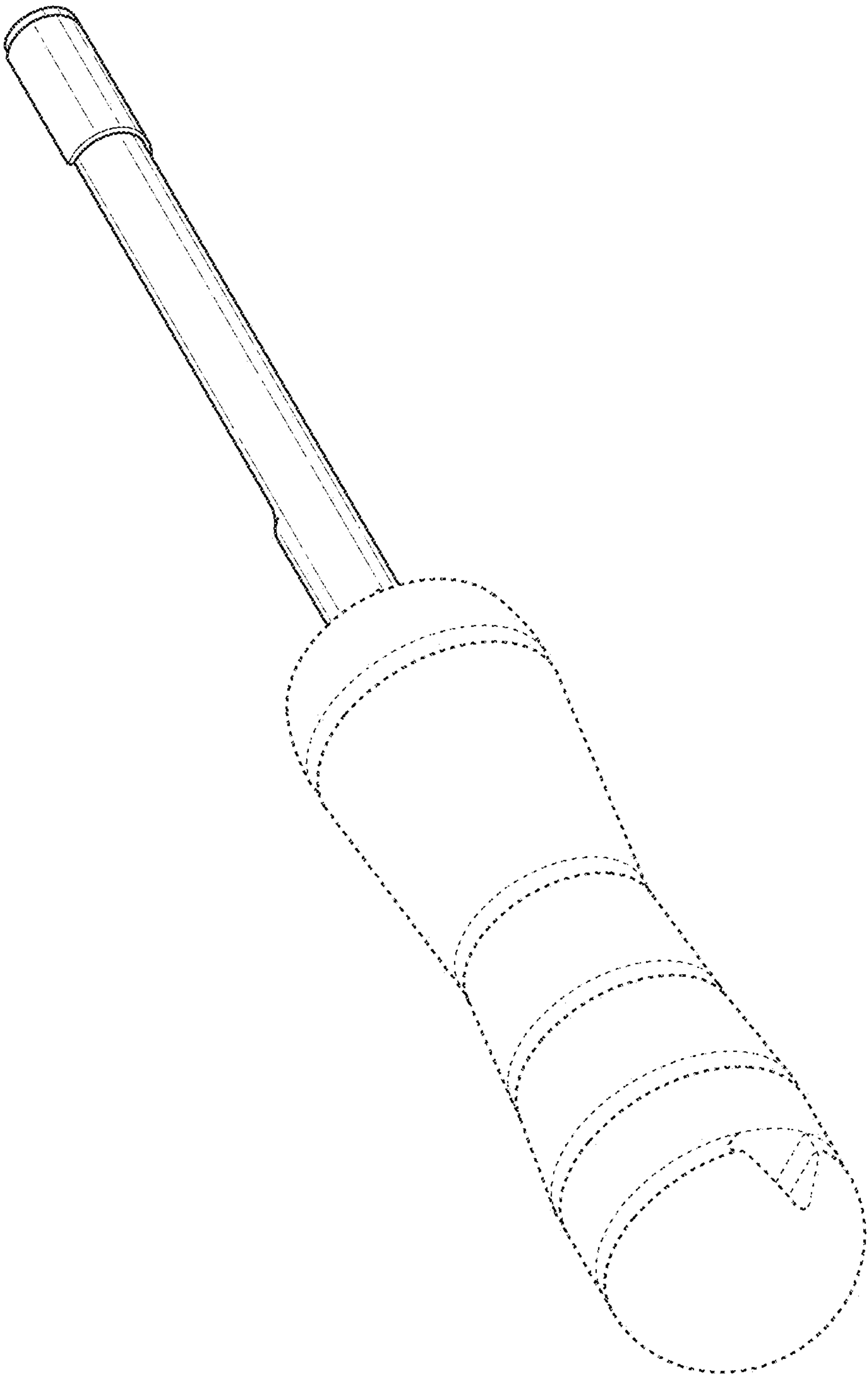


FIG. 34

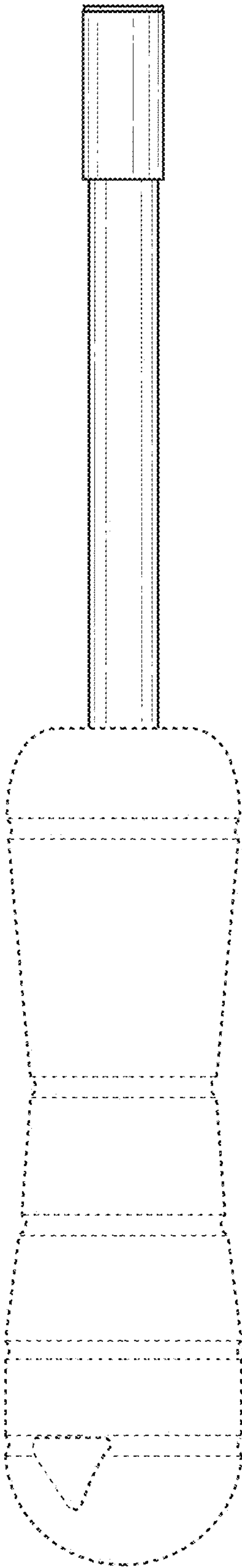


FIG. 35

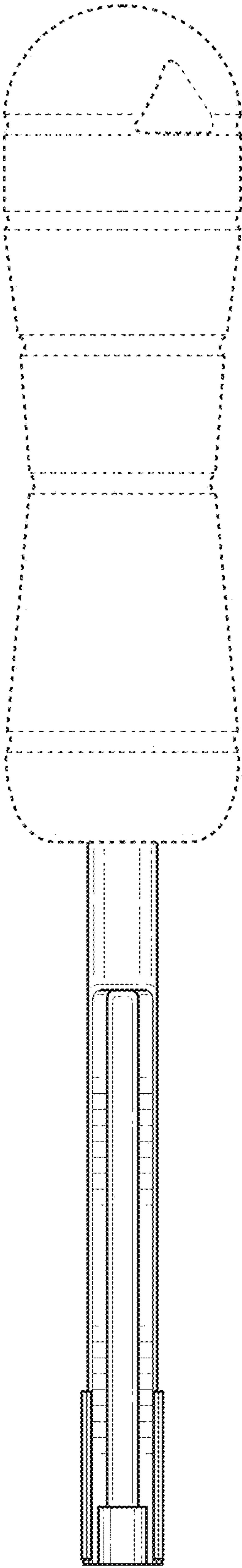


FIG. 36

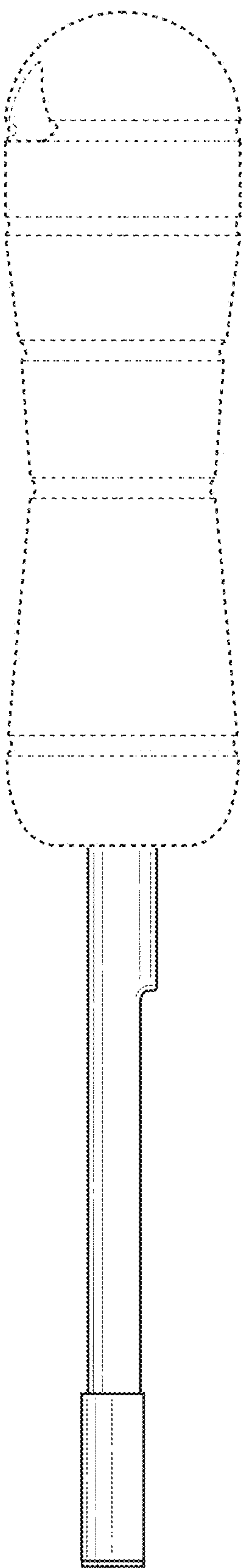


FIG. 37

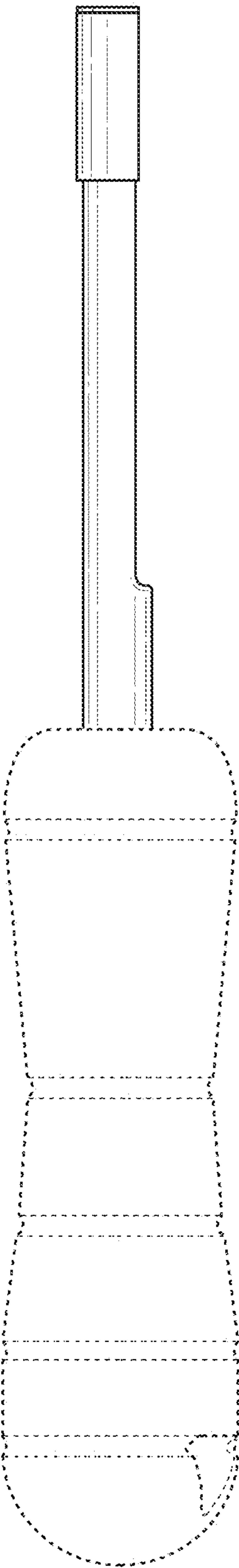


FIG. 38

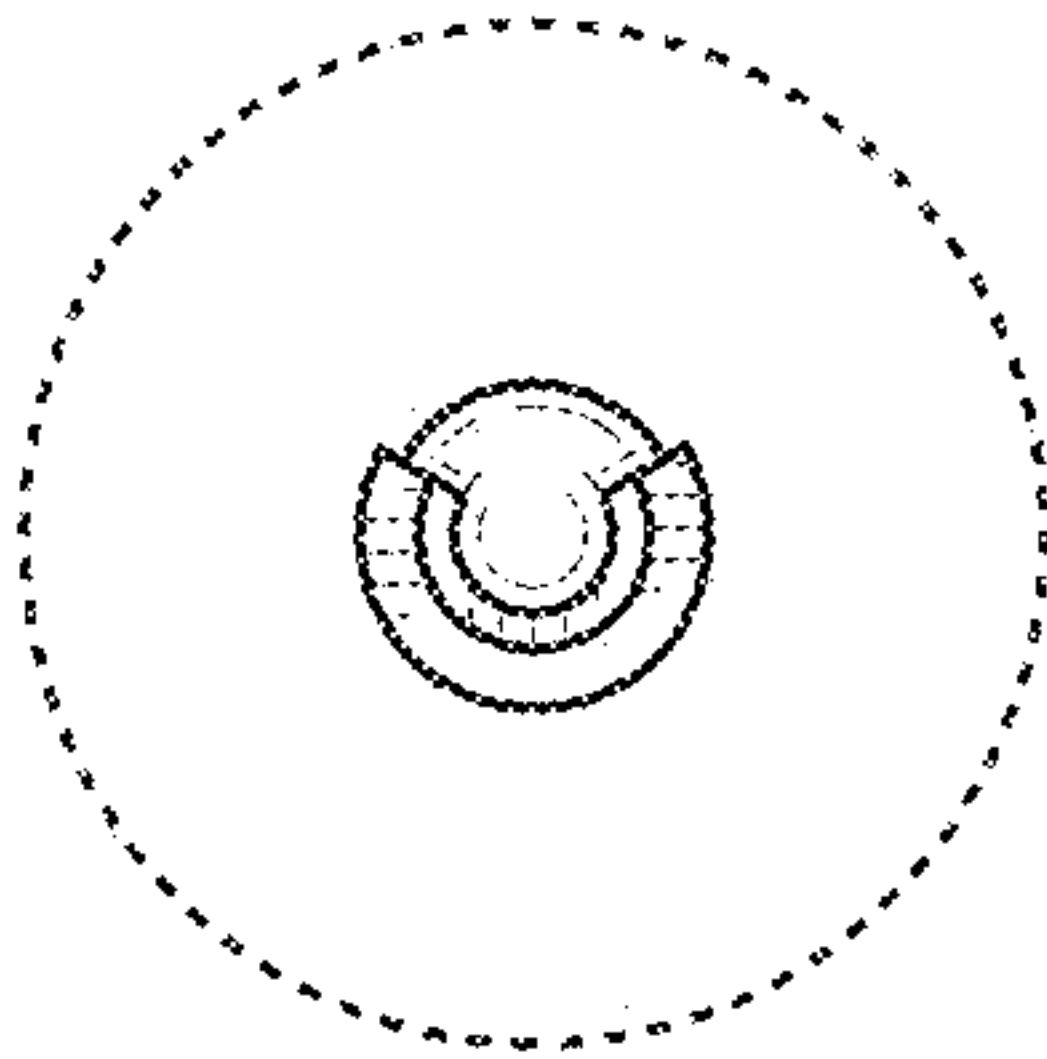


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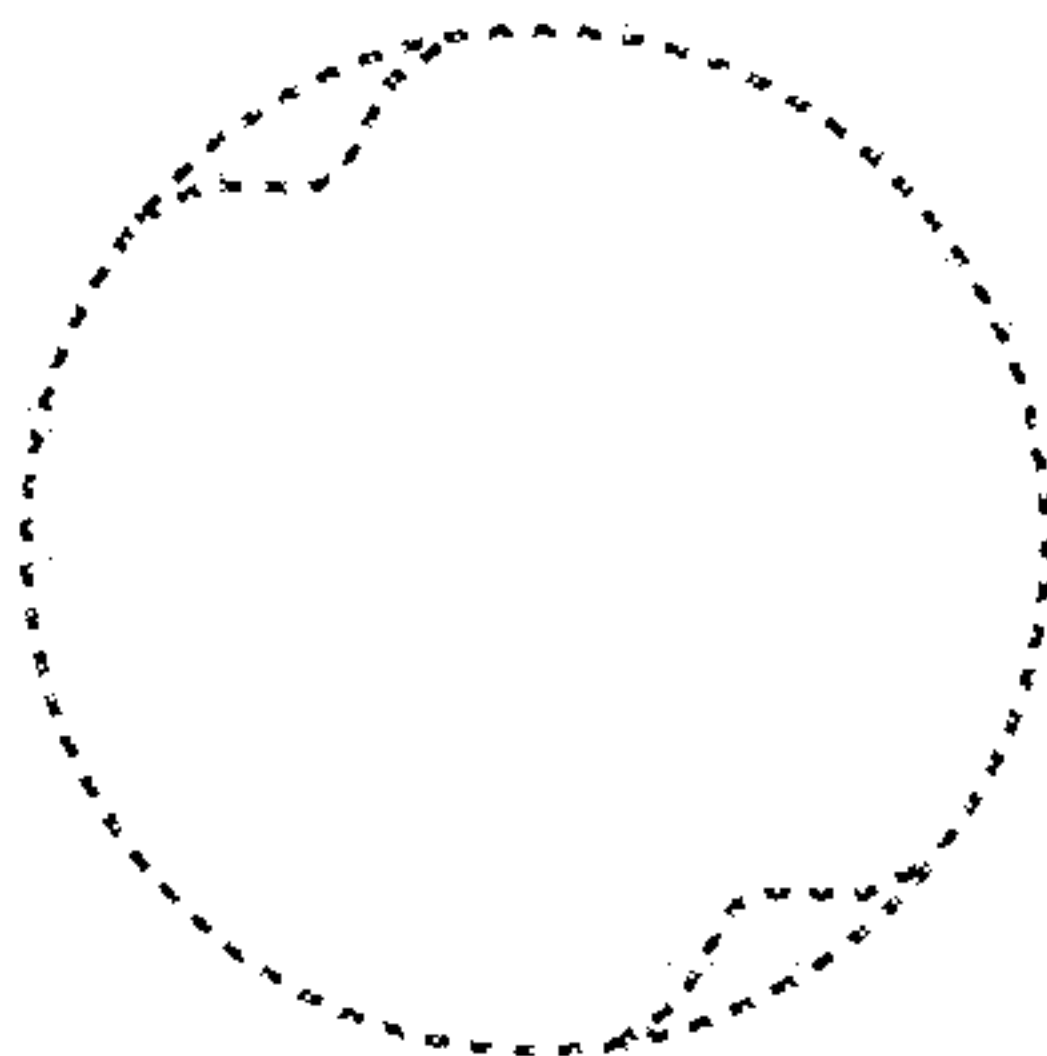


FIG. 40

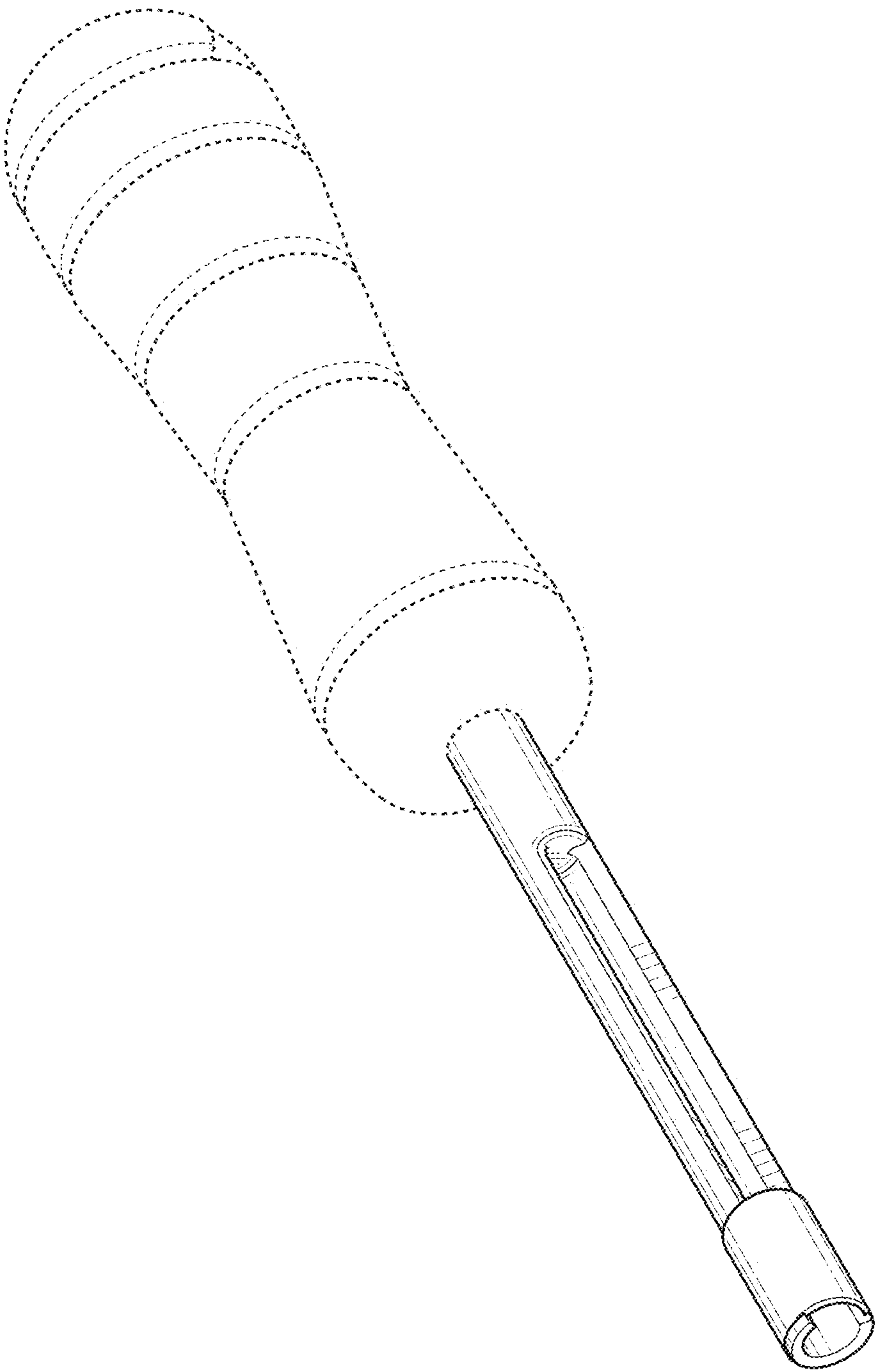


FIG. 41

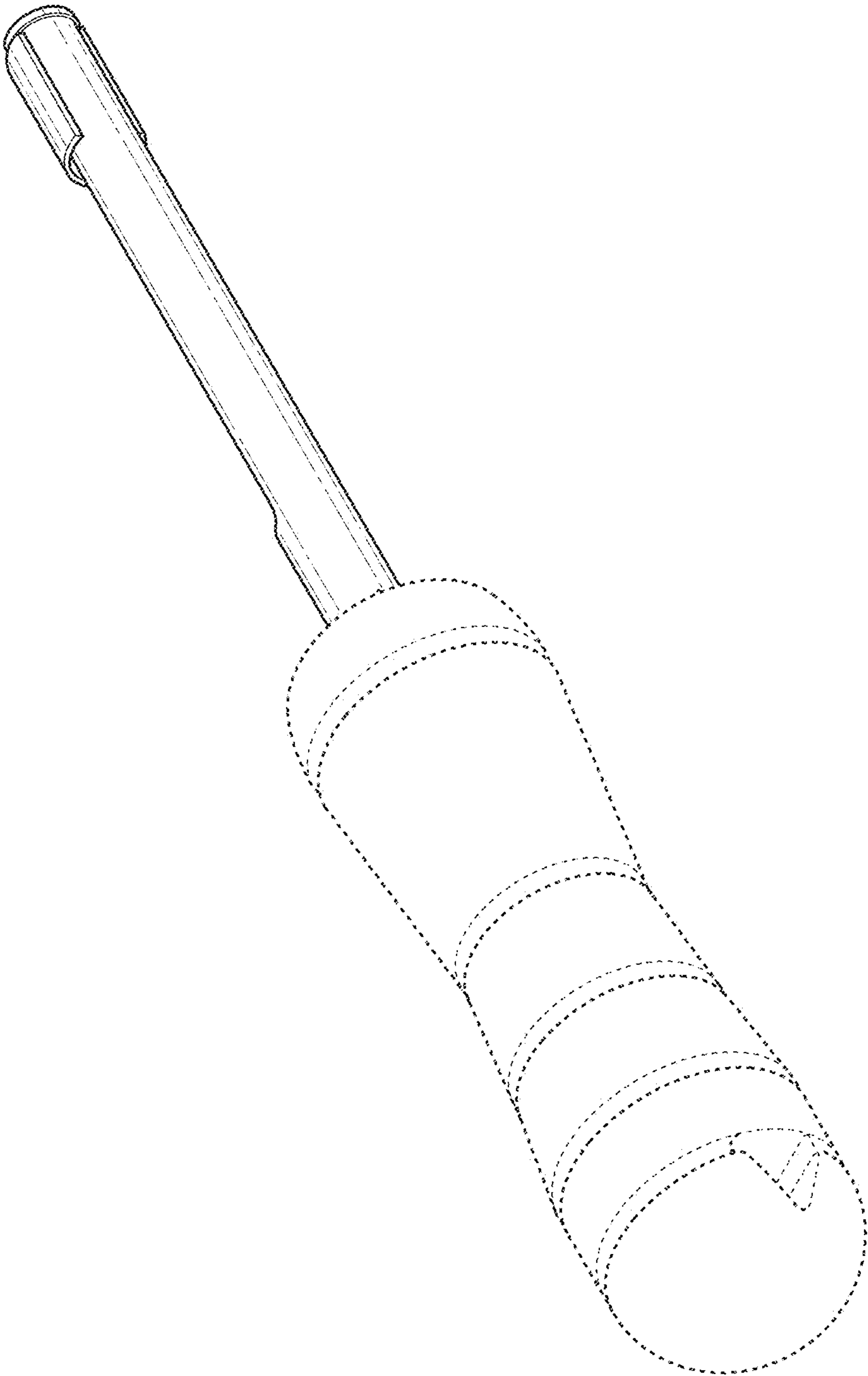


FIG. 42

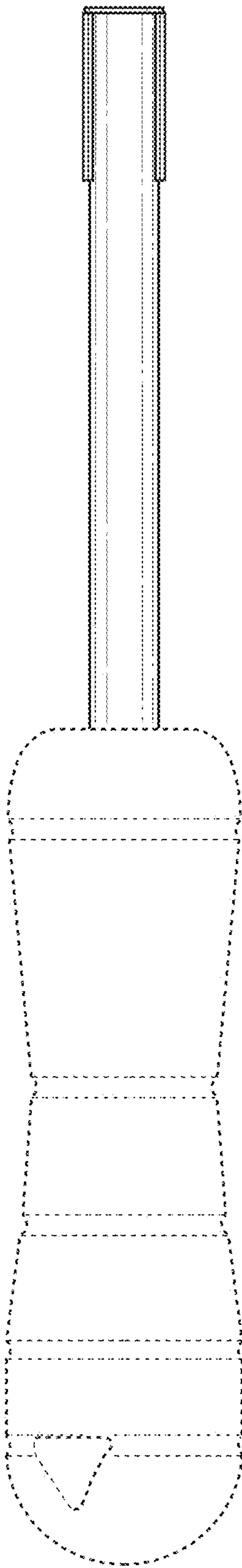


FIG. 43

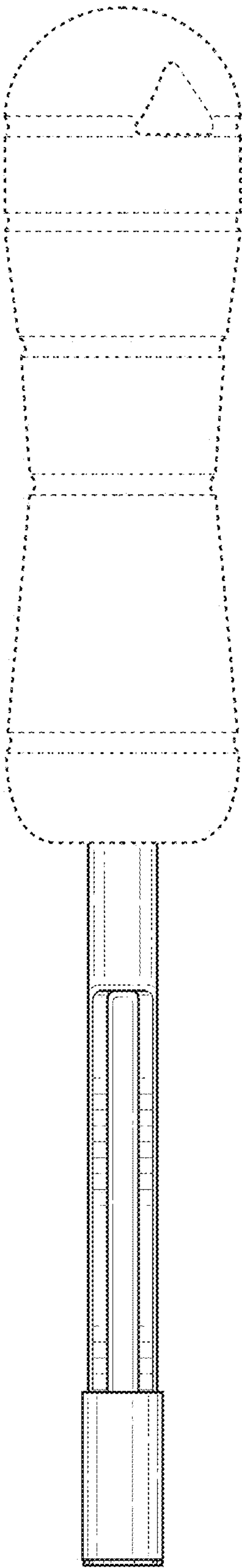


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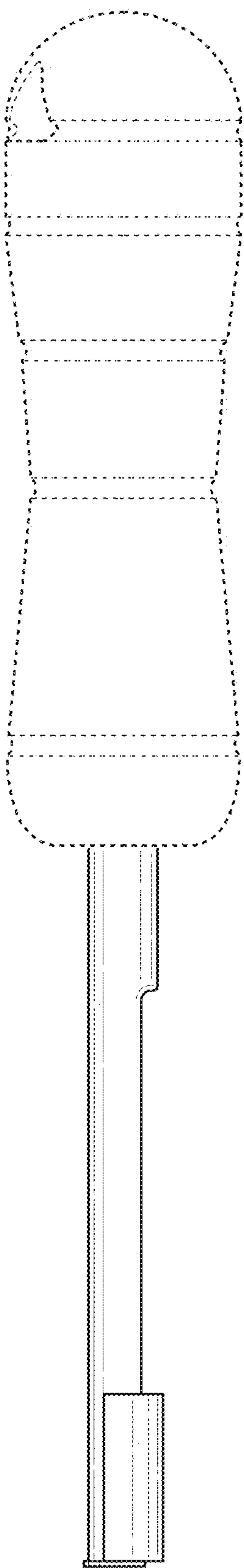


FIG. 45

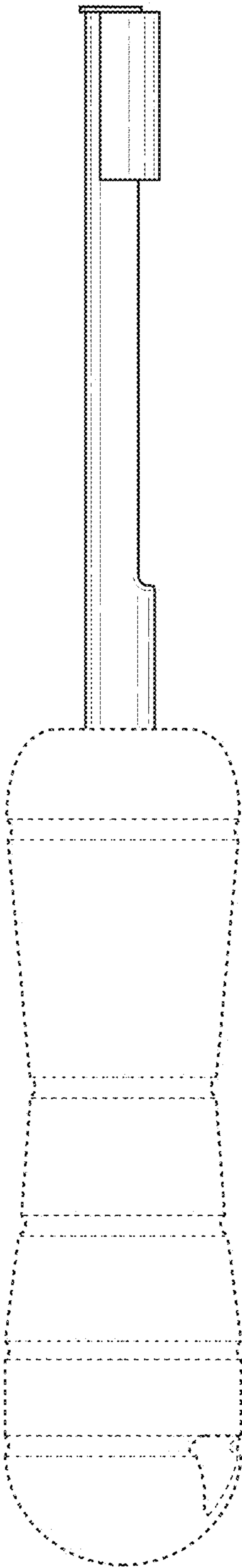


FIG. 46

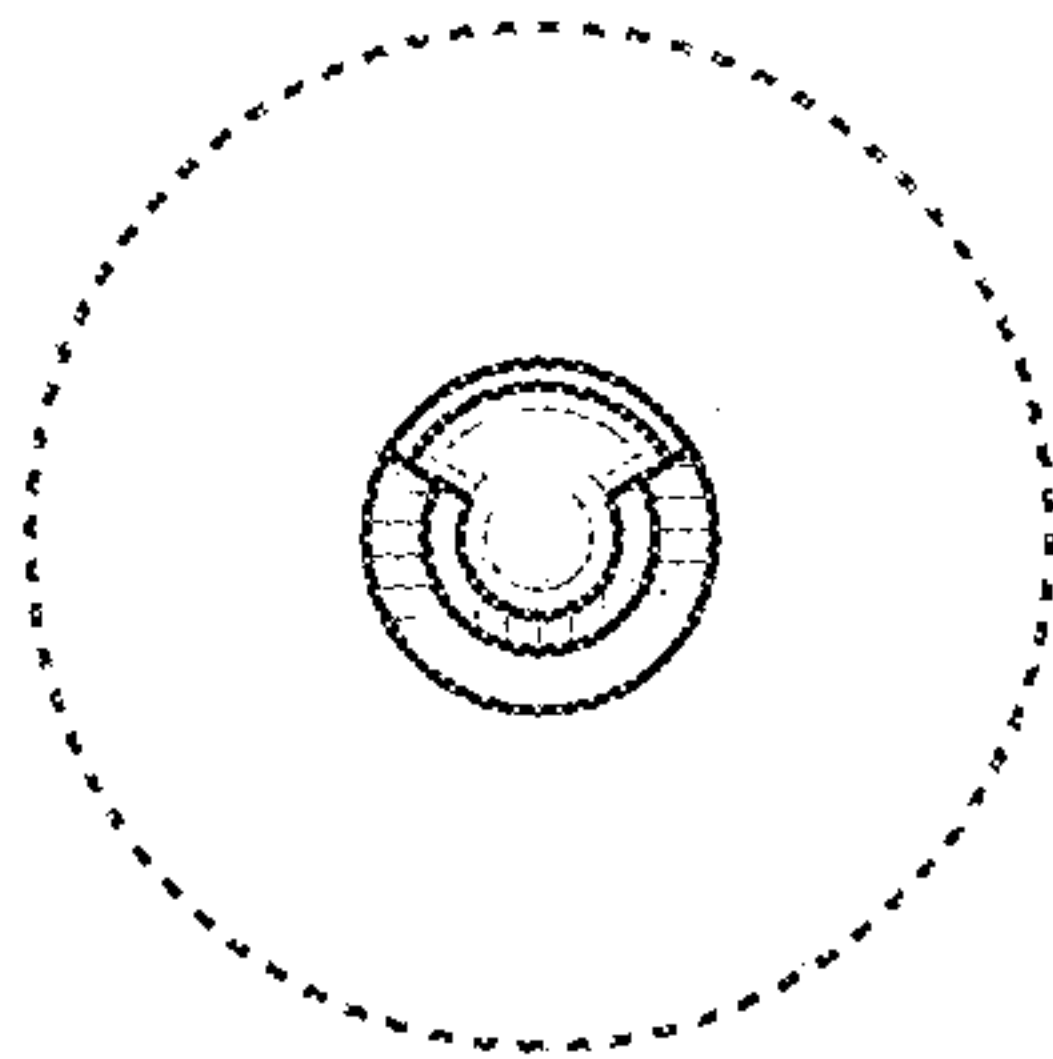


FIG. 47

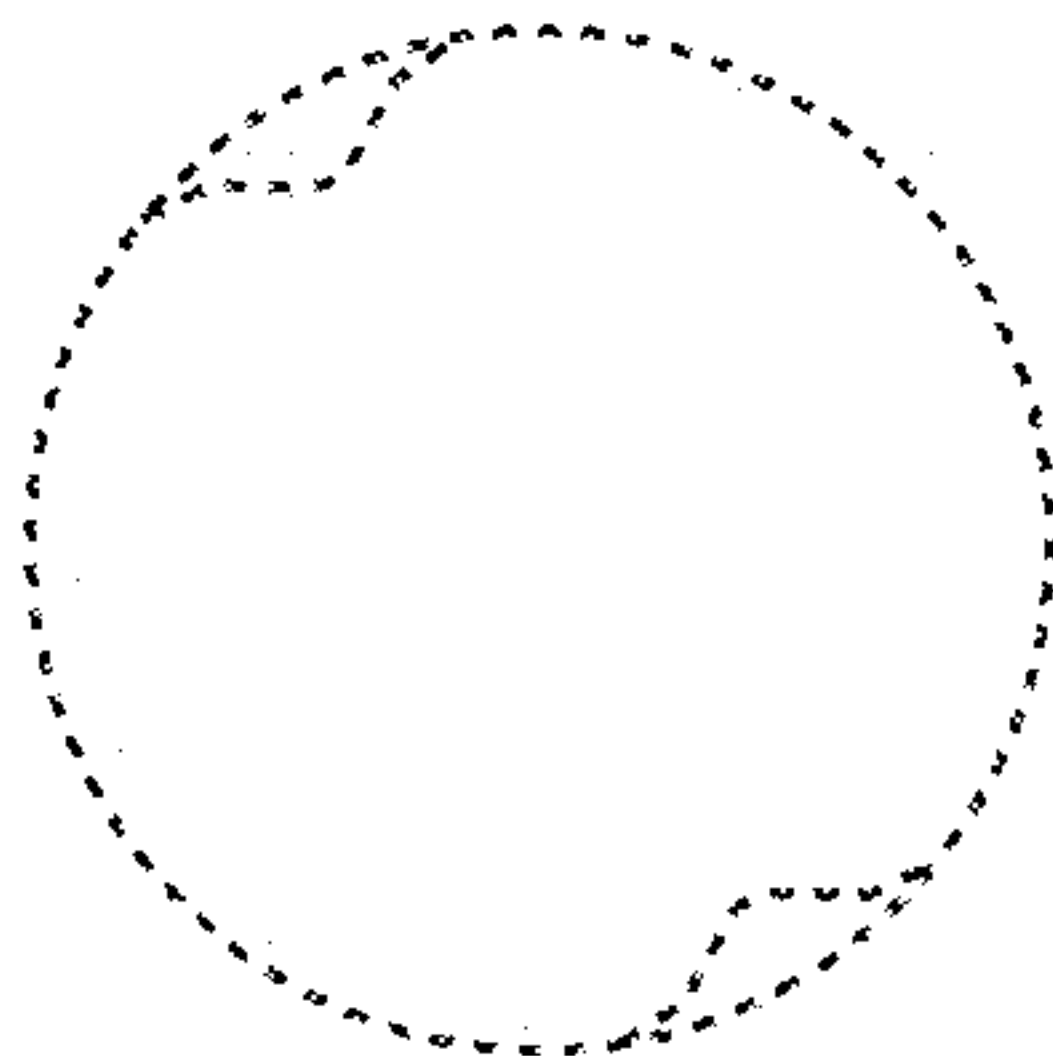


FIG. 48

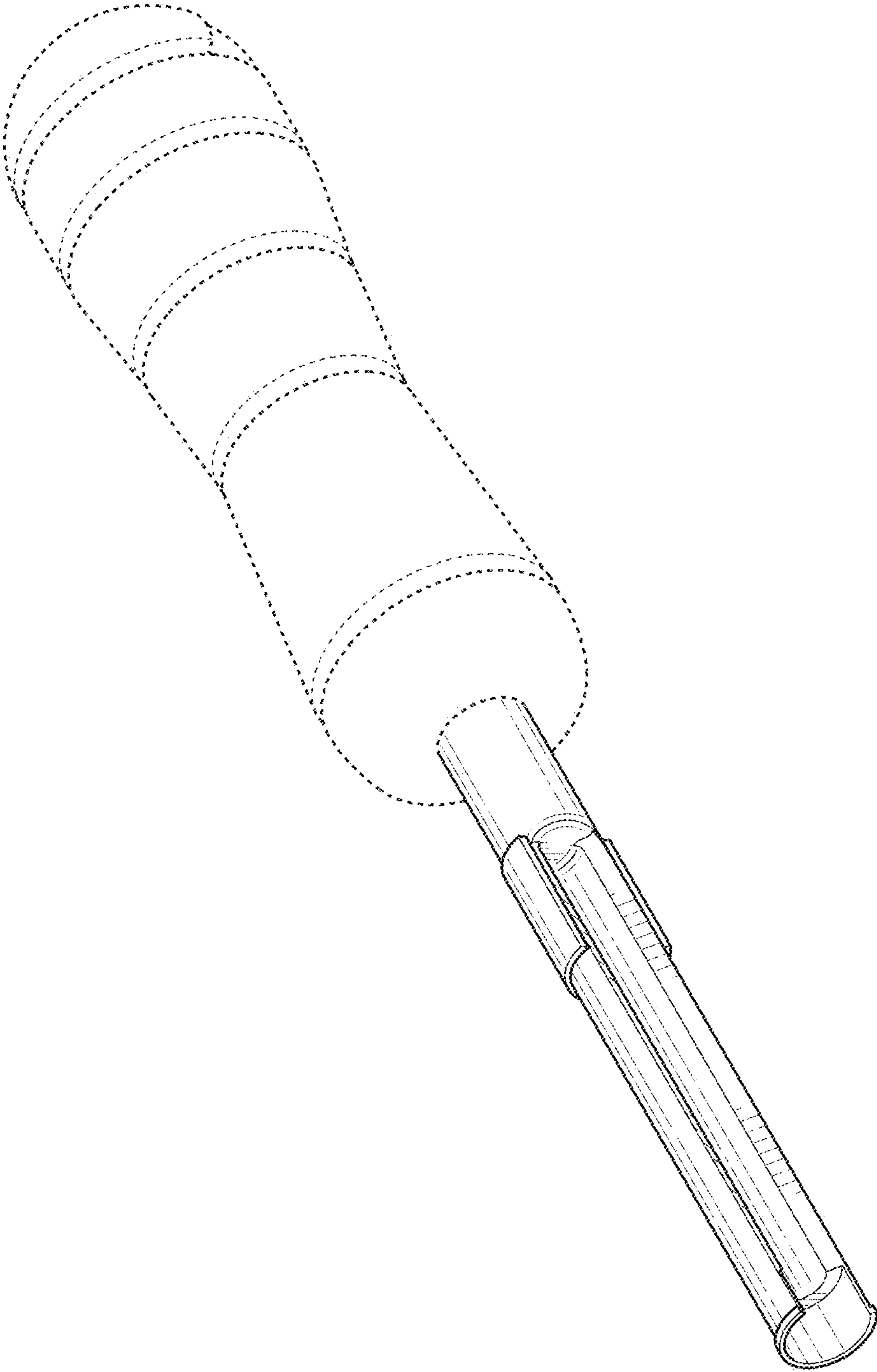


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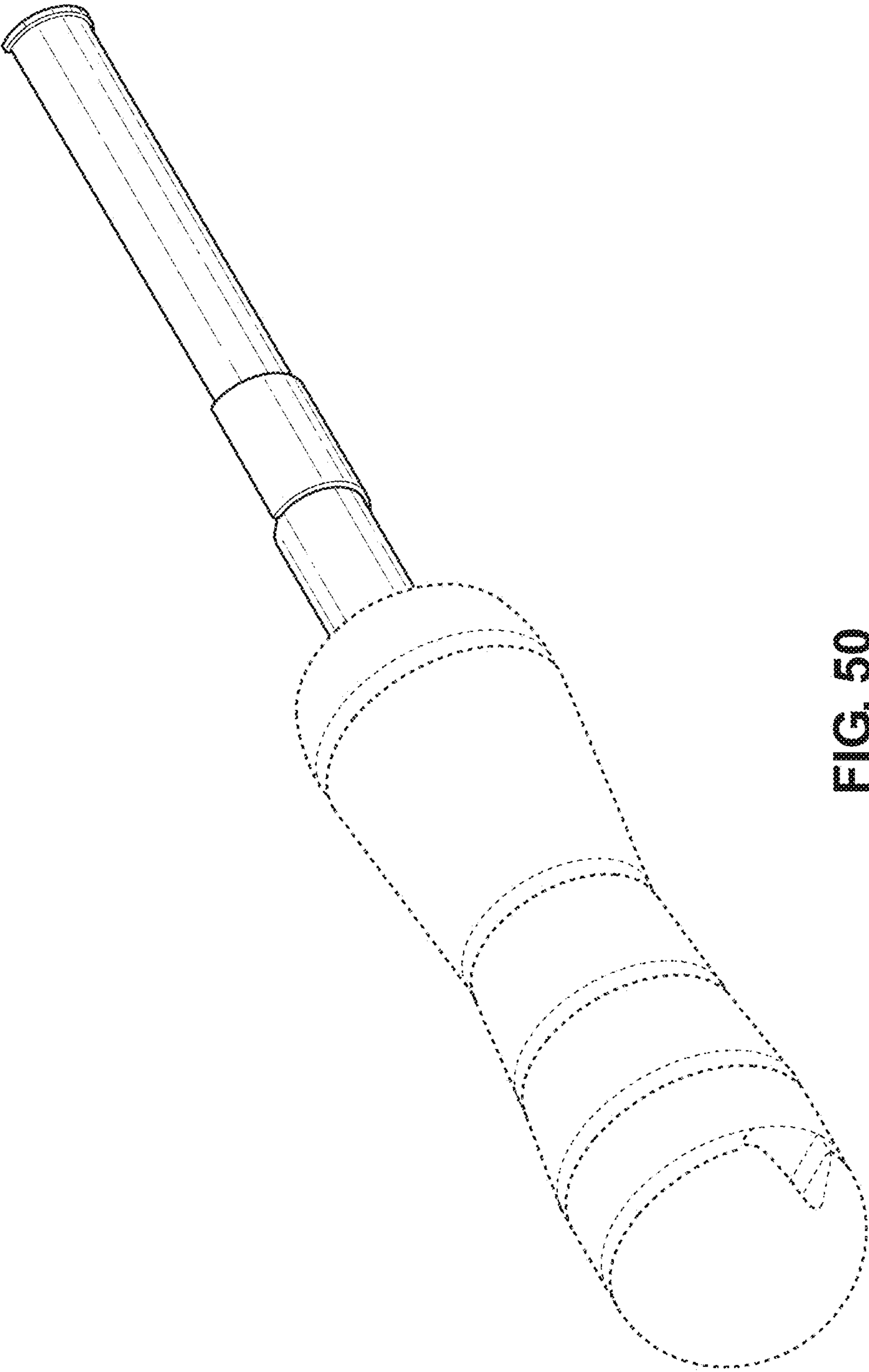


FIG. 50

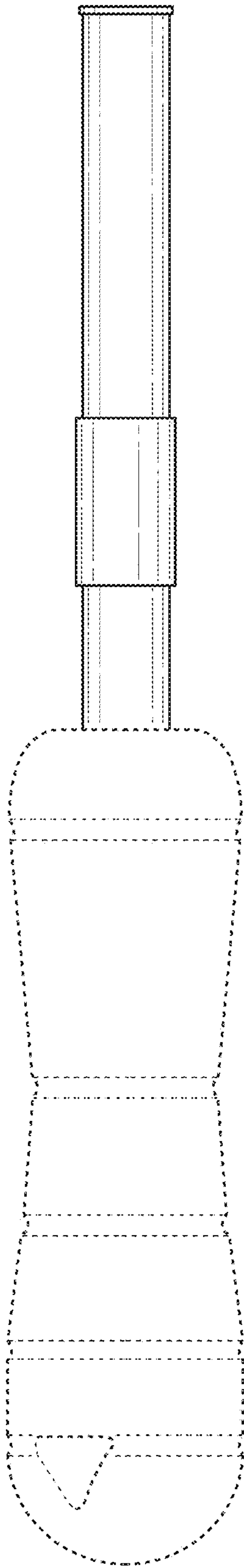


FIG. 51

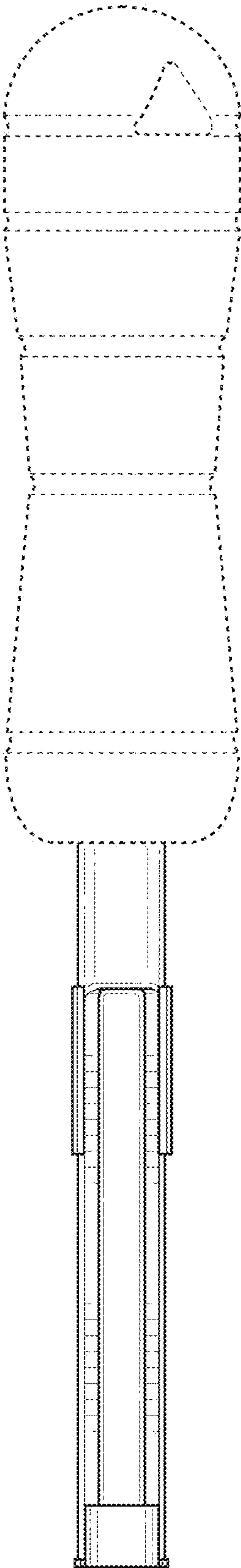


FIG. 52

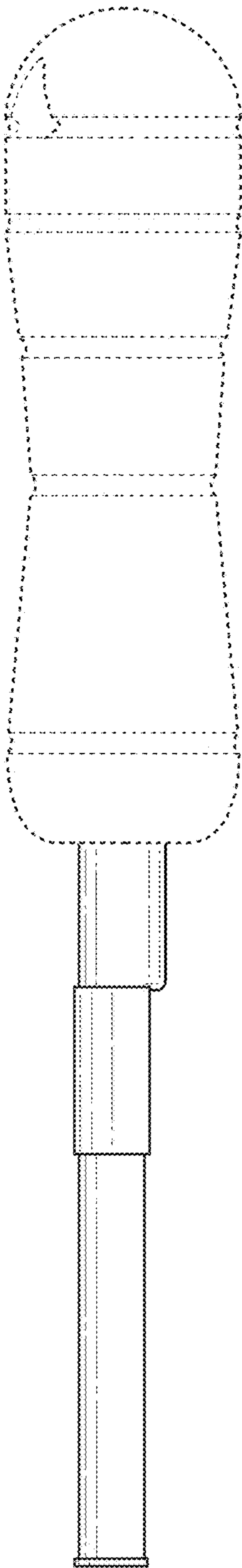


FIG. 53

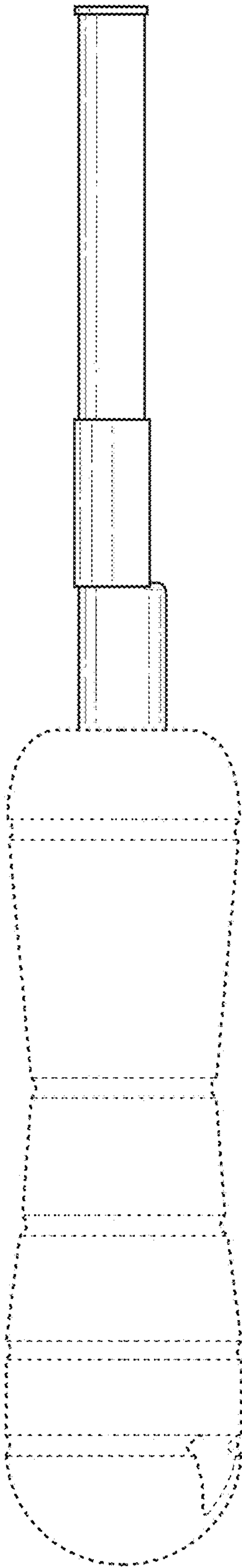


FIG. 54

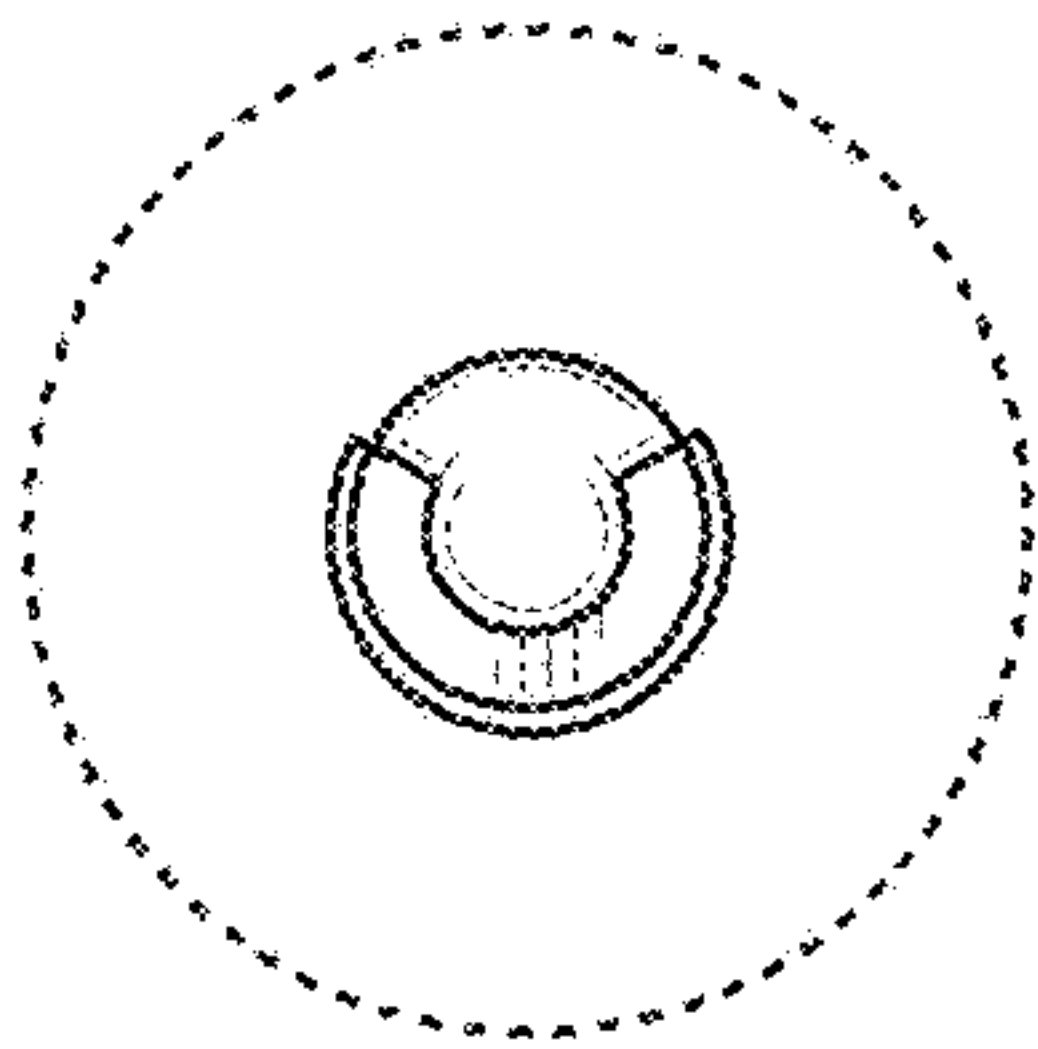


FIG. 55

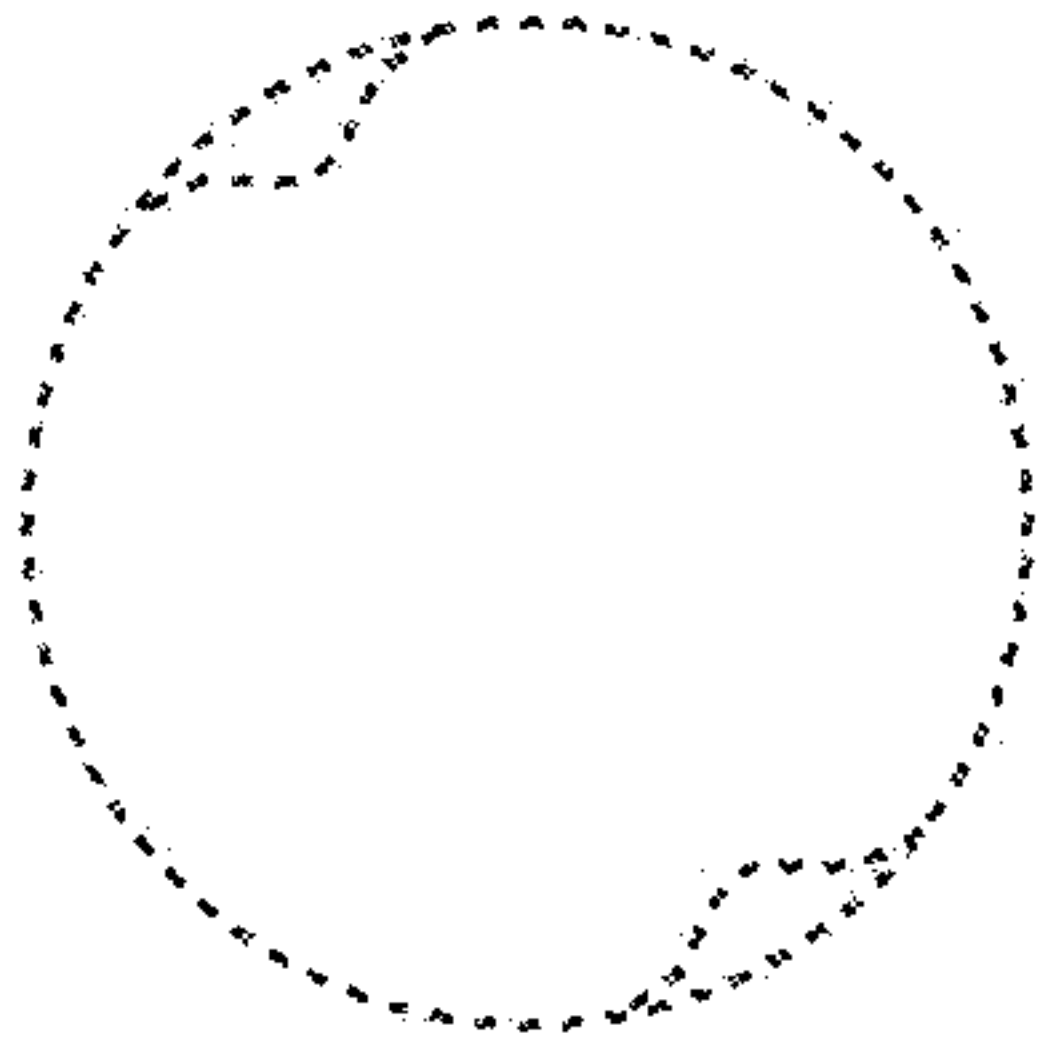


FIG. 56

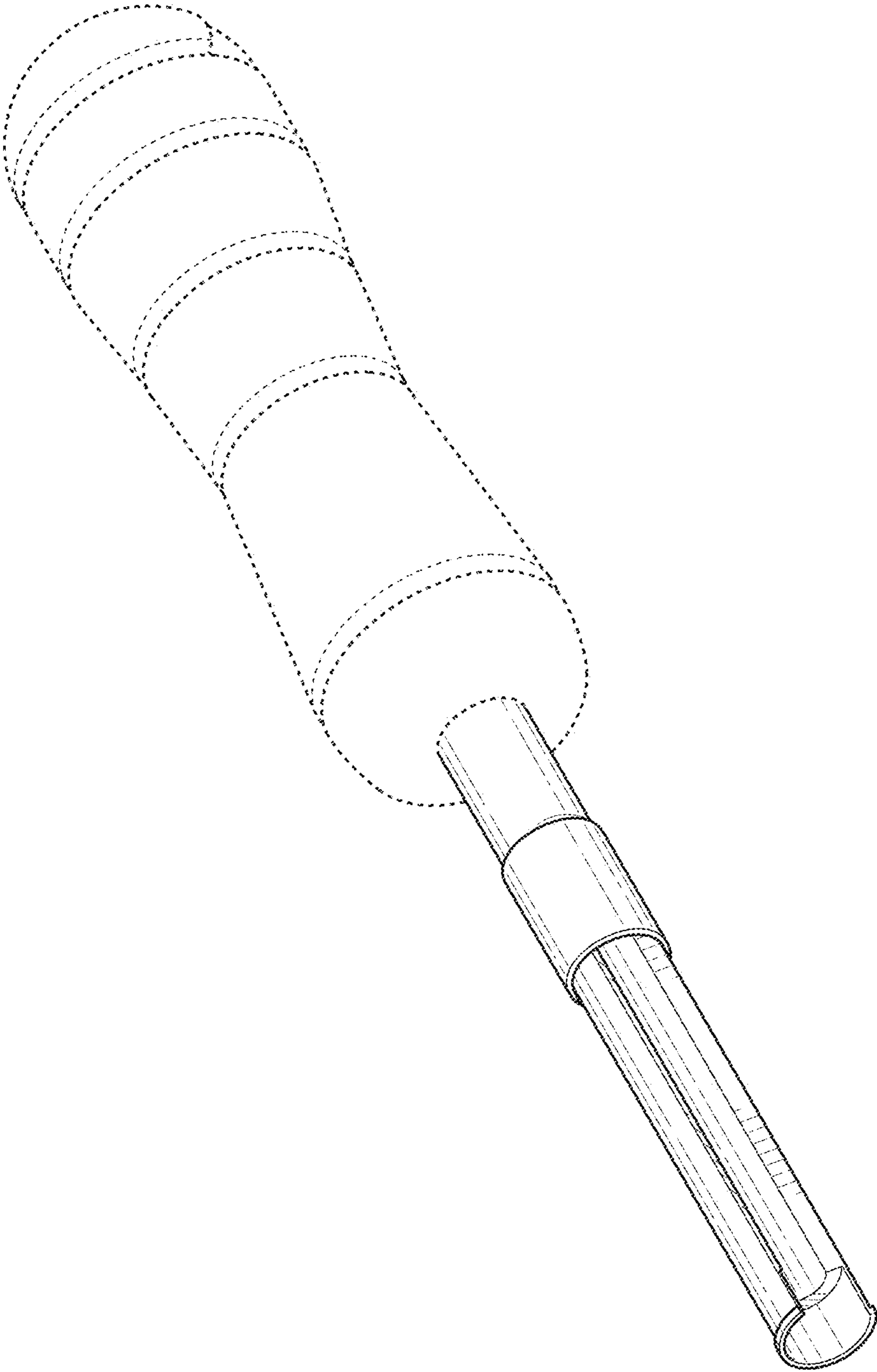


FIG. 57

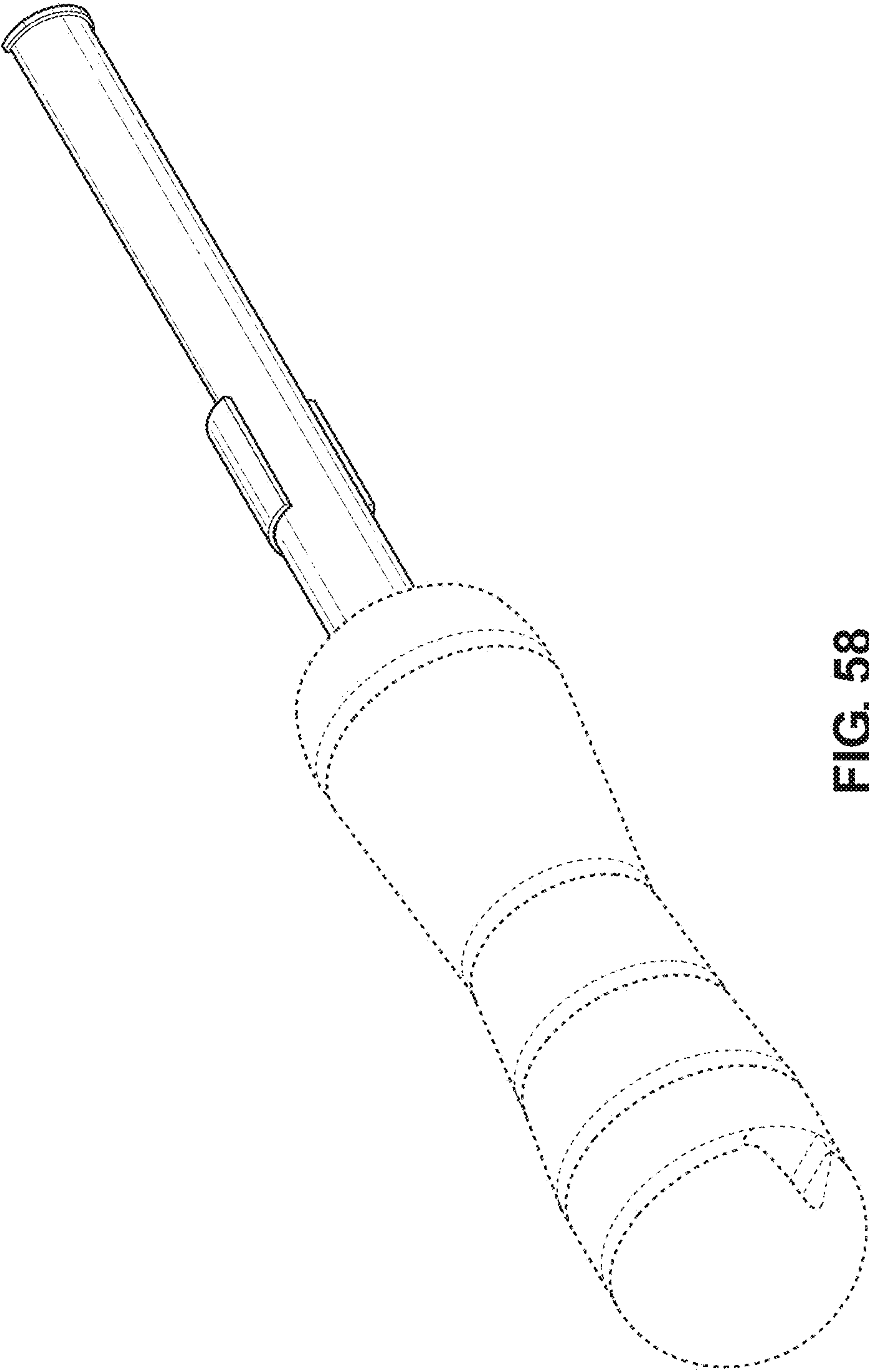


FIG. 58

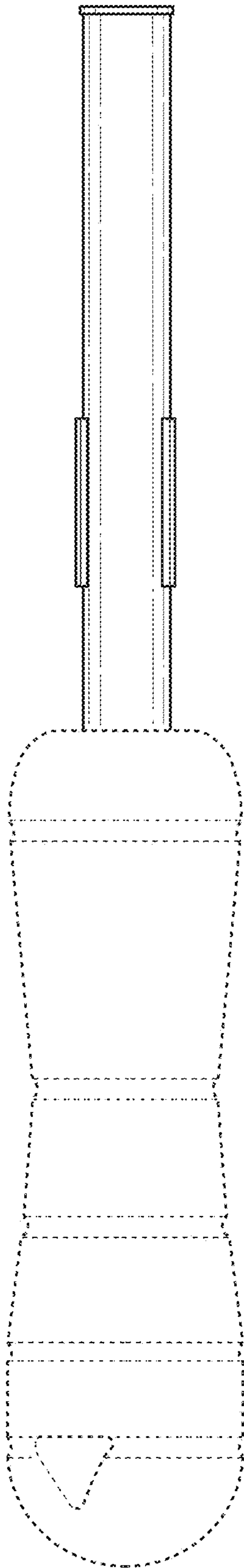


FIG. 59

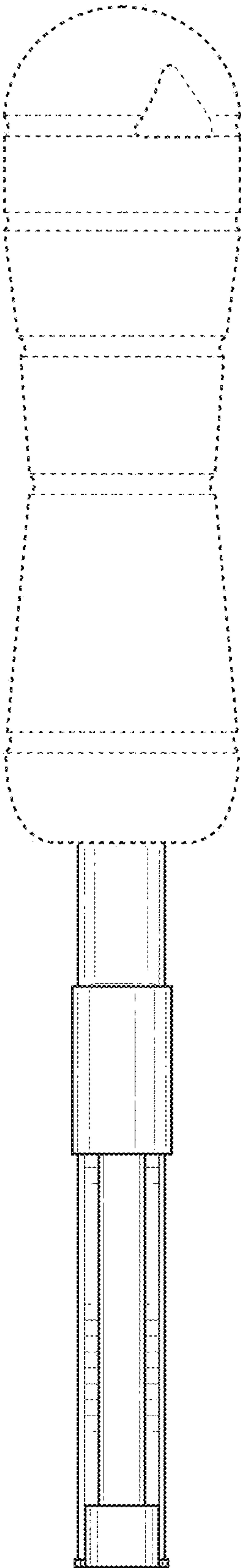


FIG. 60

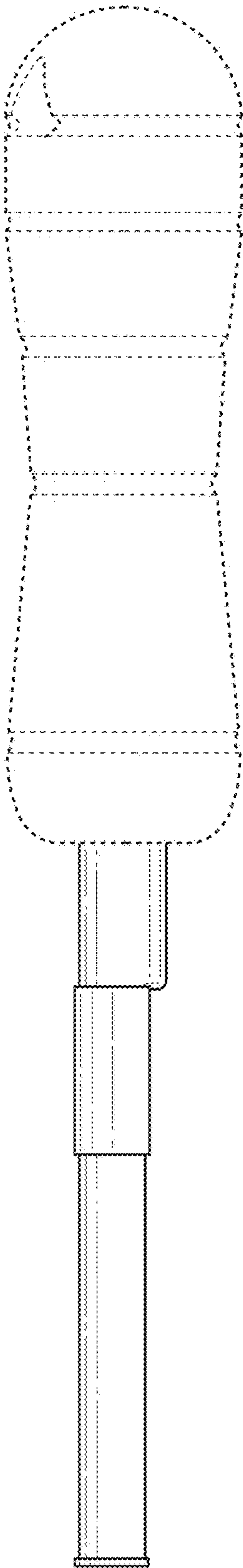


FIG. 61

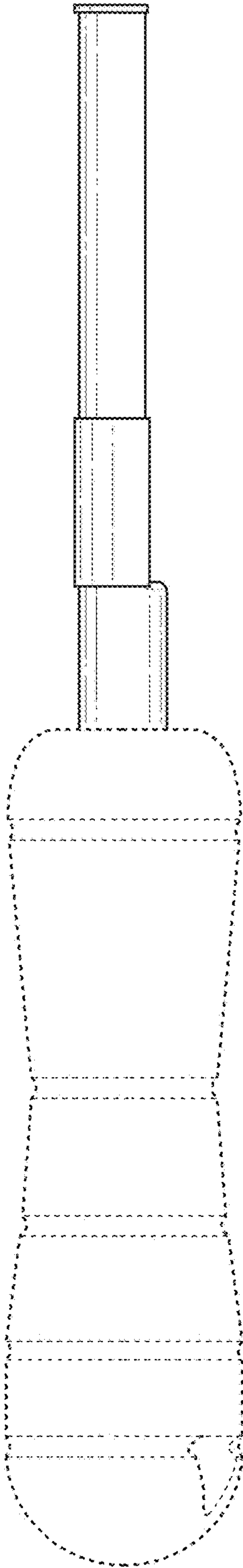


FIG. 62

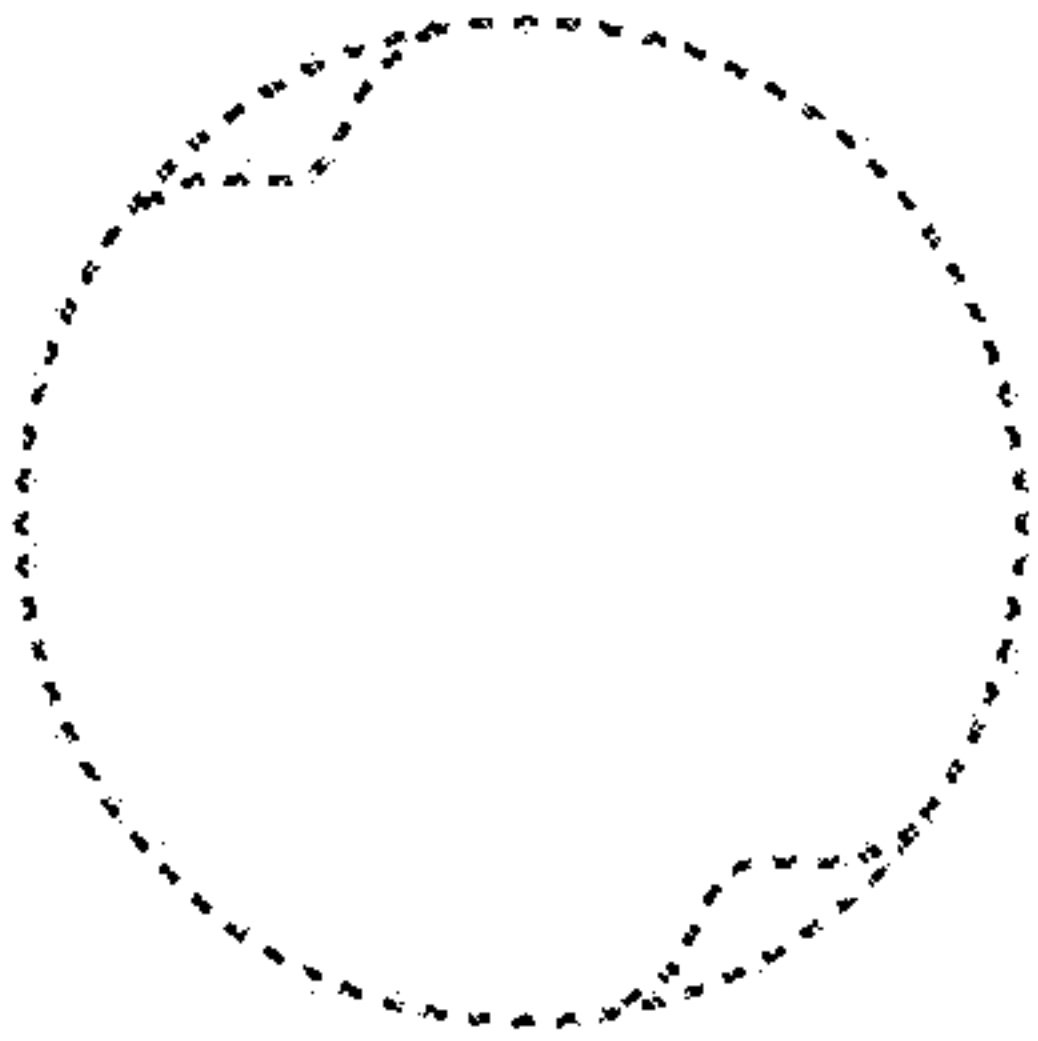


FIG. 63

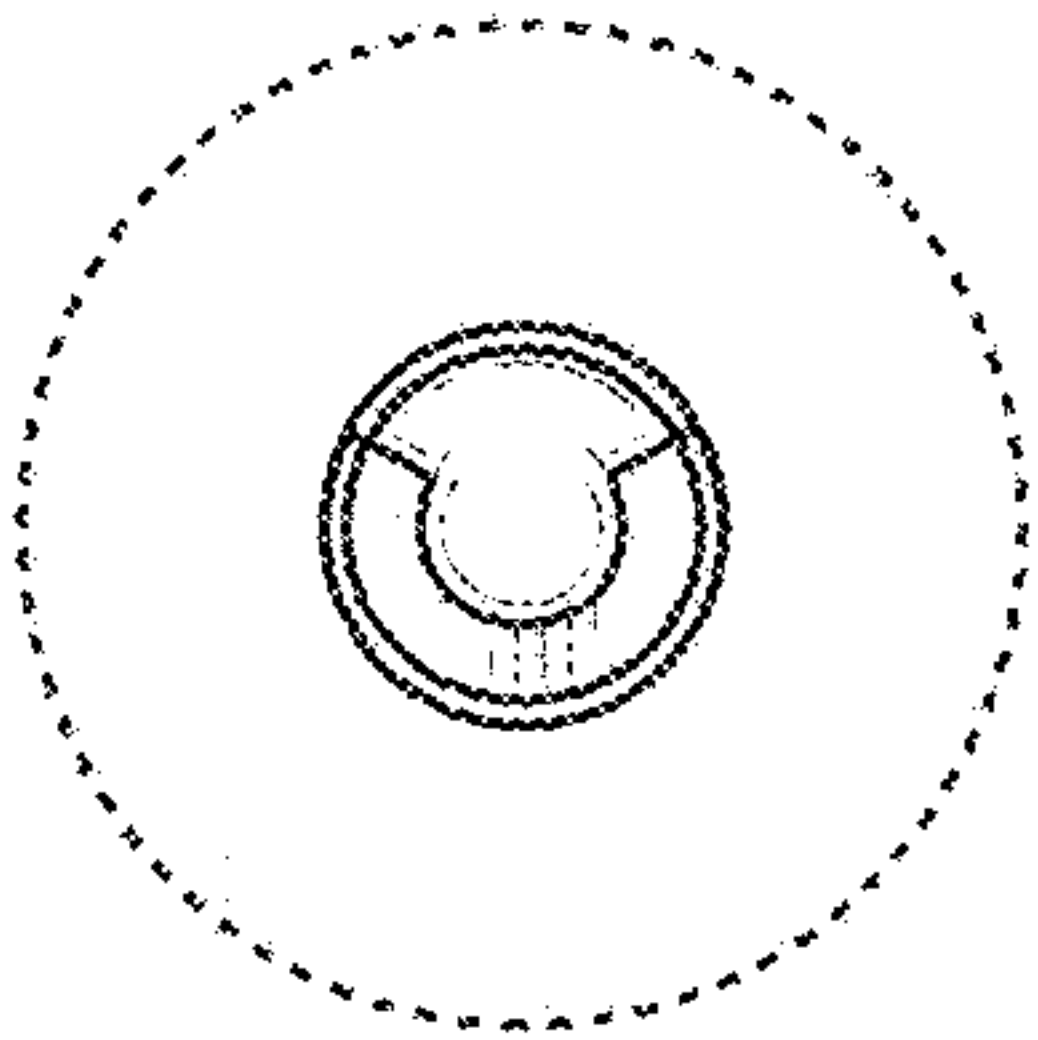


FIG. 64

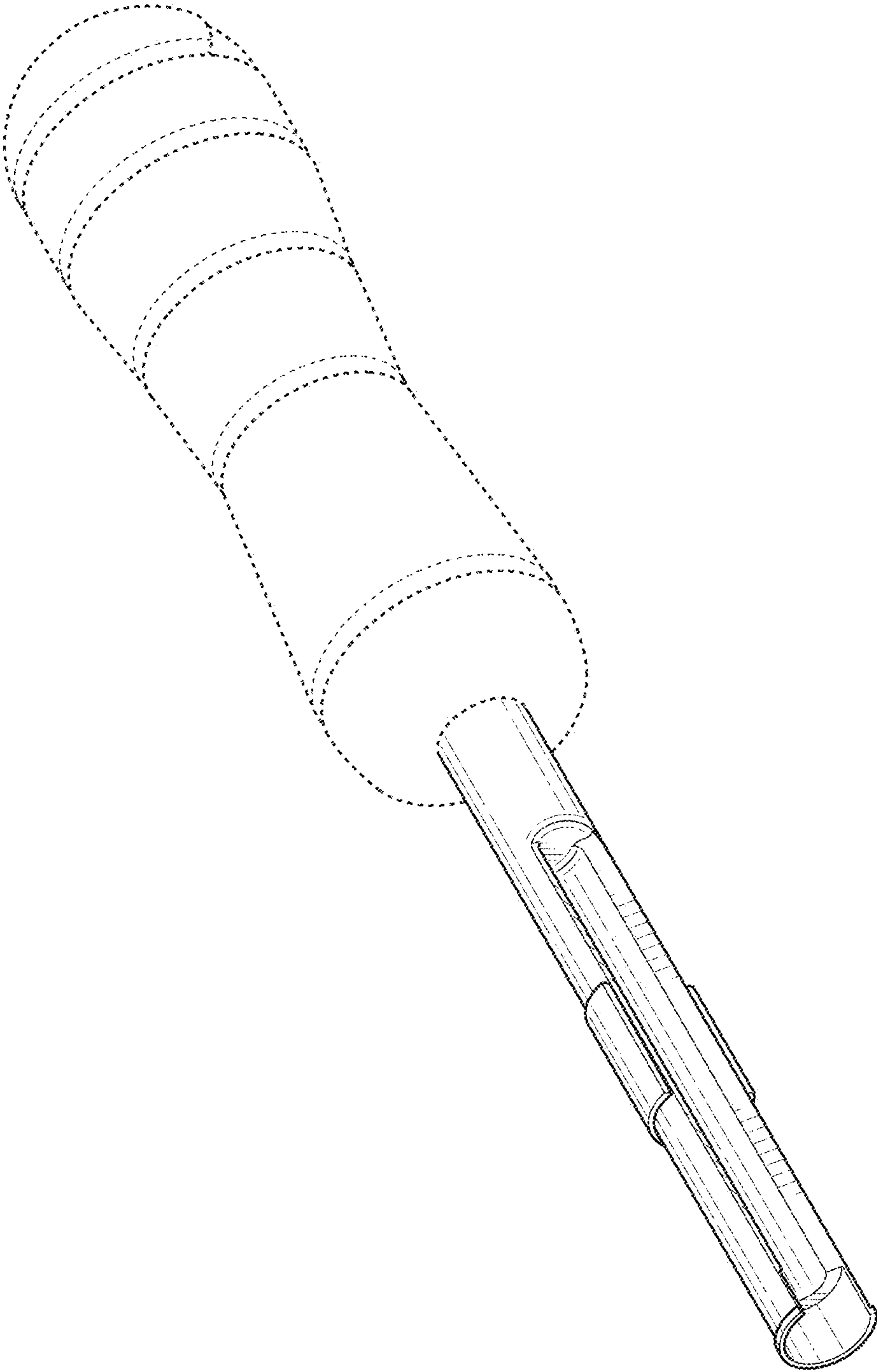


FIG. 65

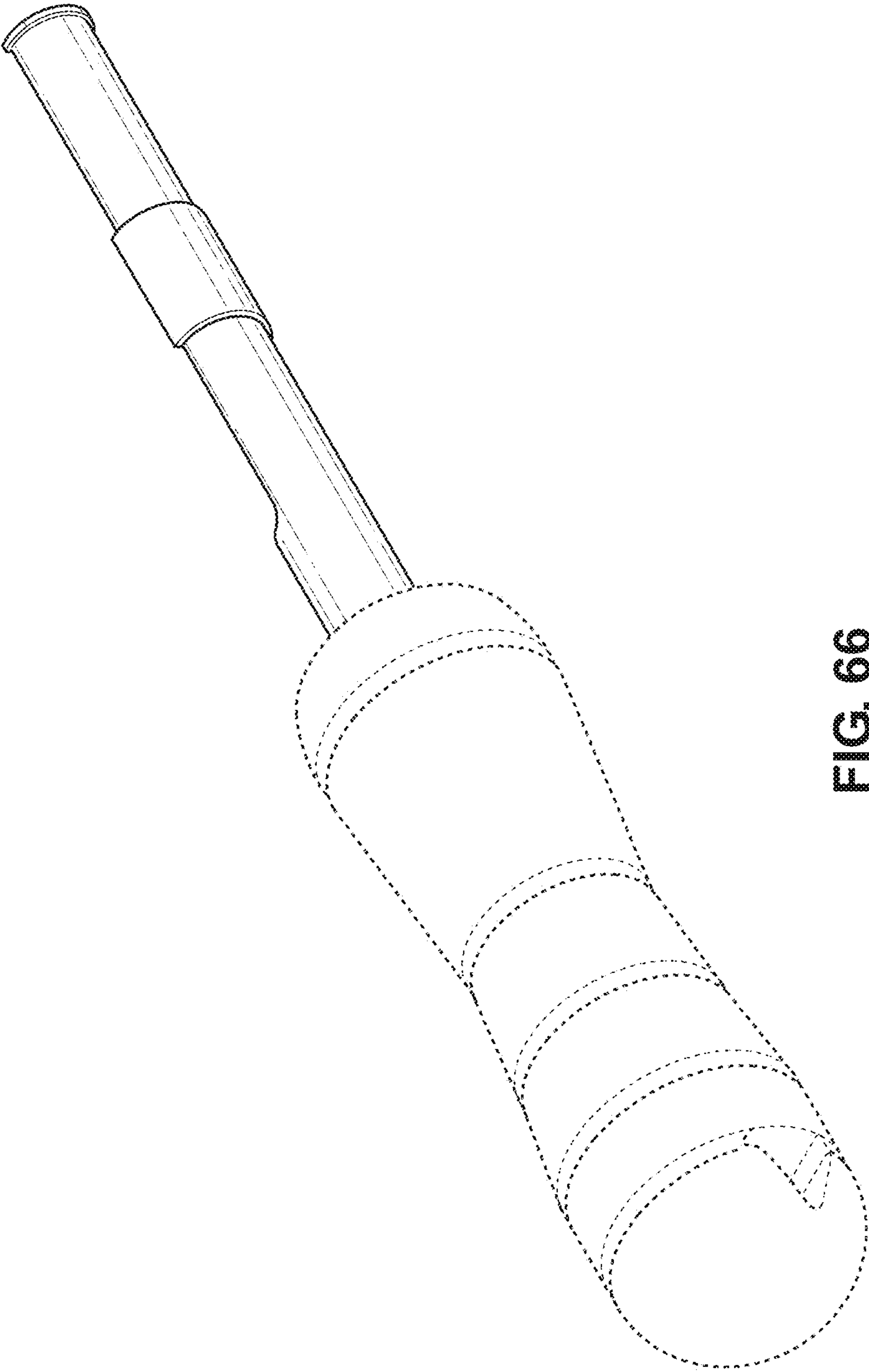


FIG. 66

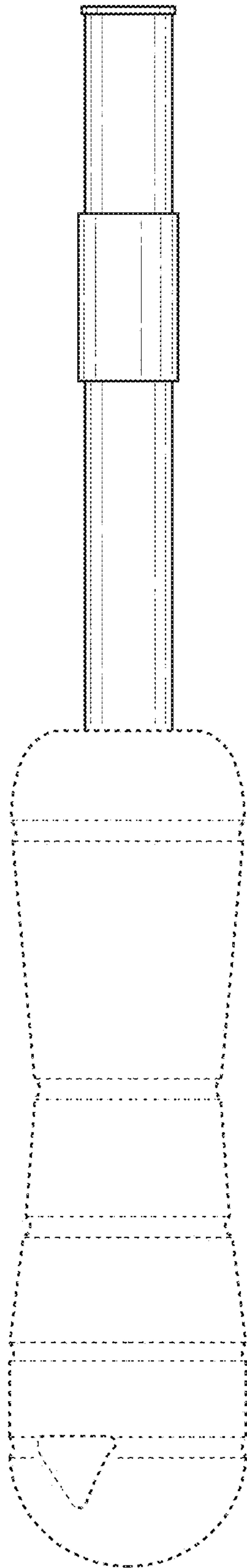


FIG. 67

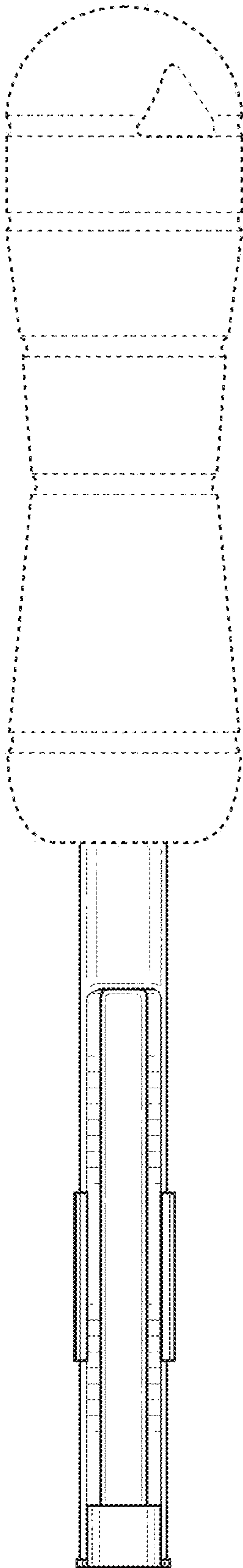


FIG. 68

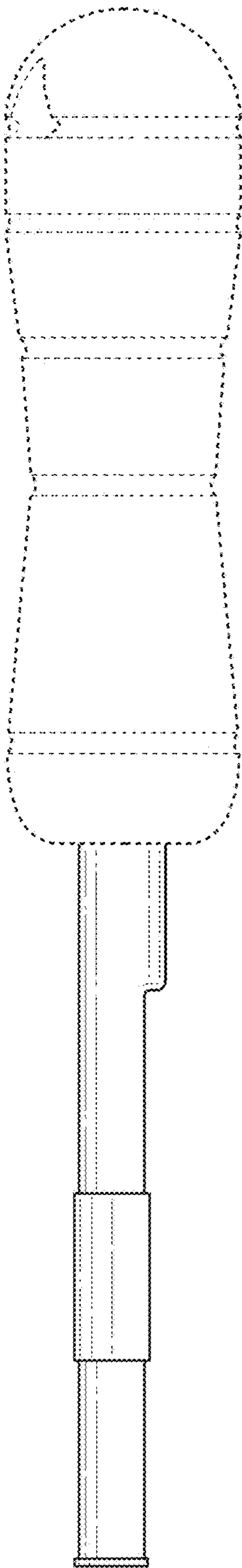


FIG. 69

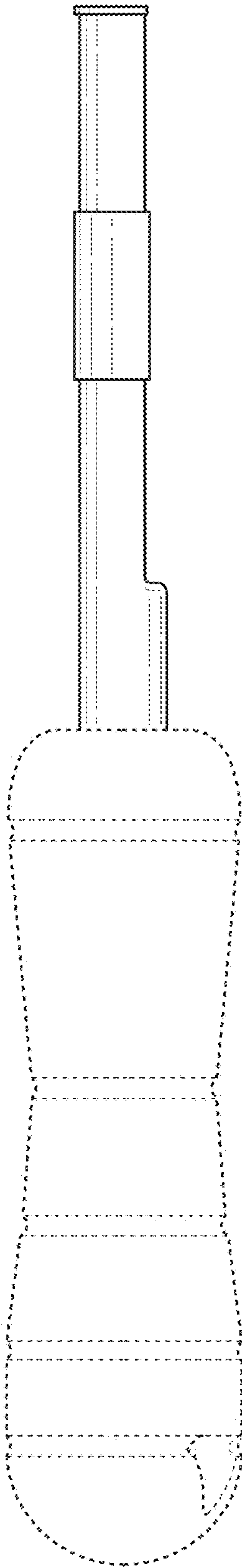


FIG. 70

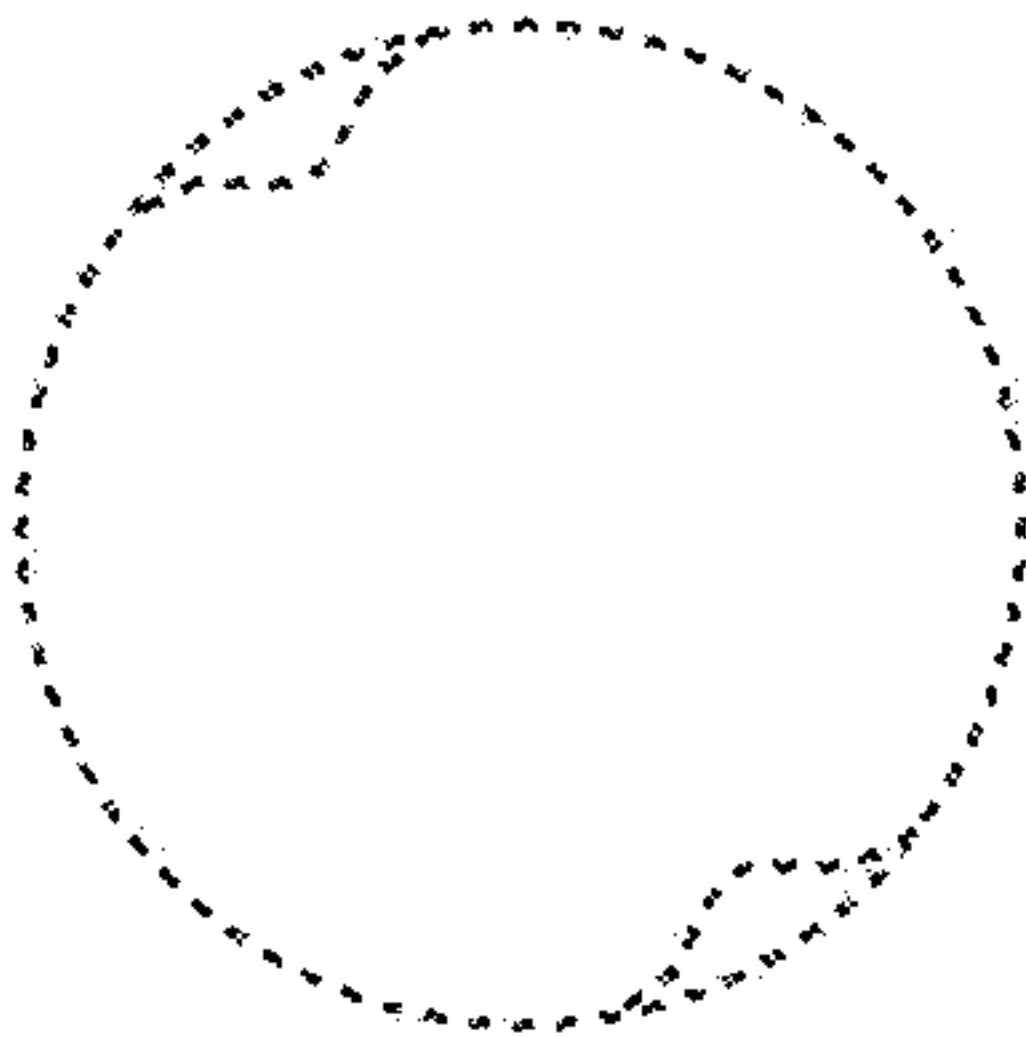


FIG. 71

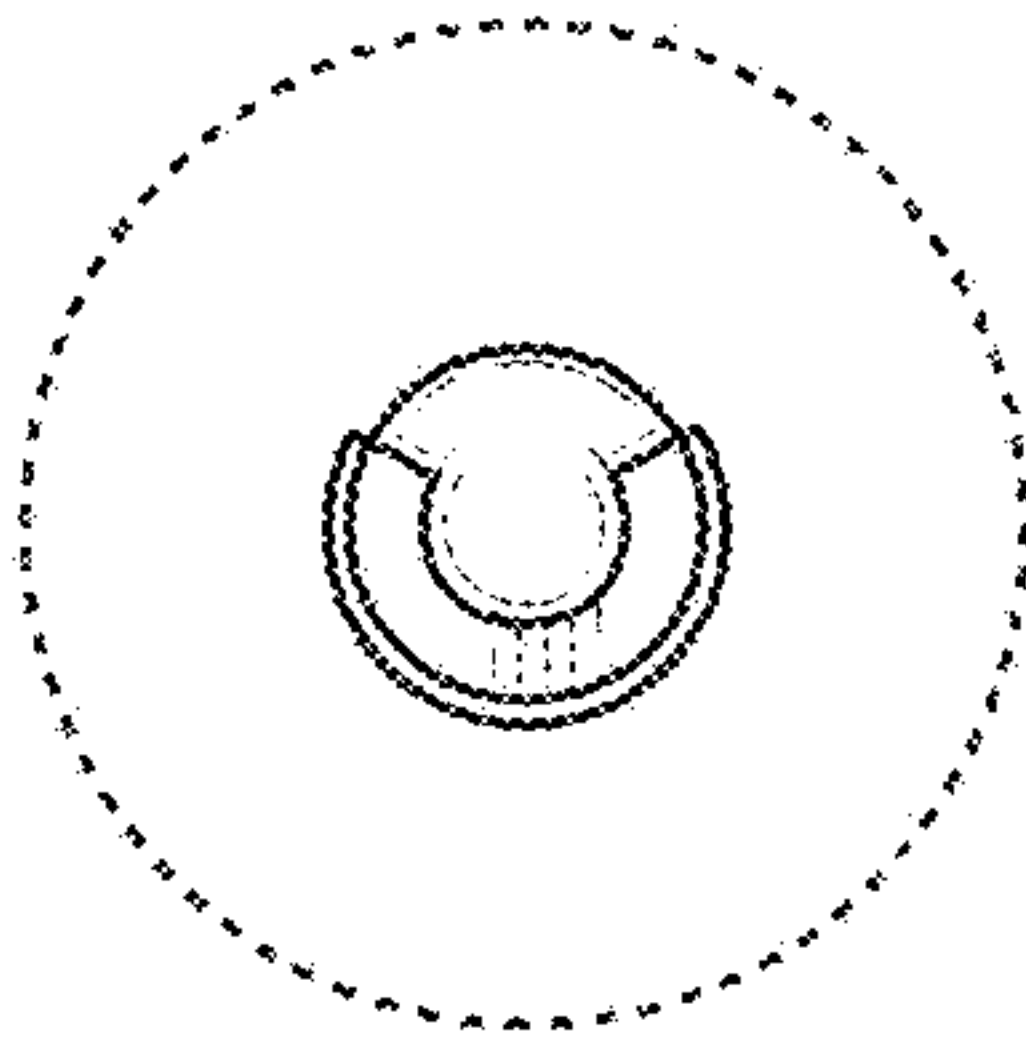


FIG. 72

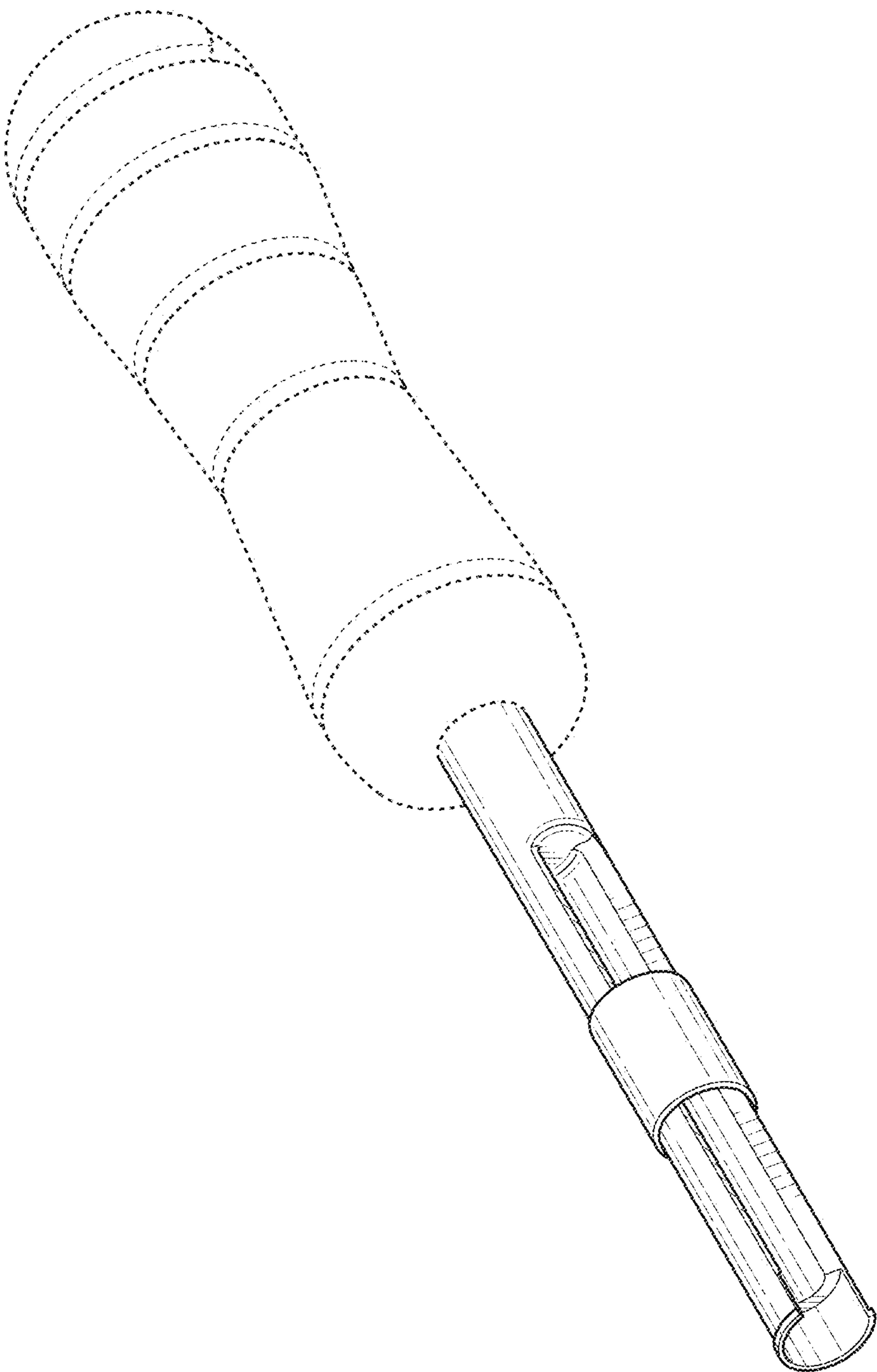


FIG. 73

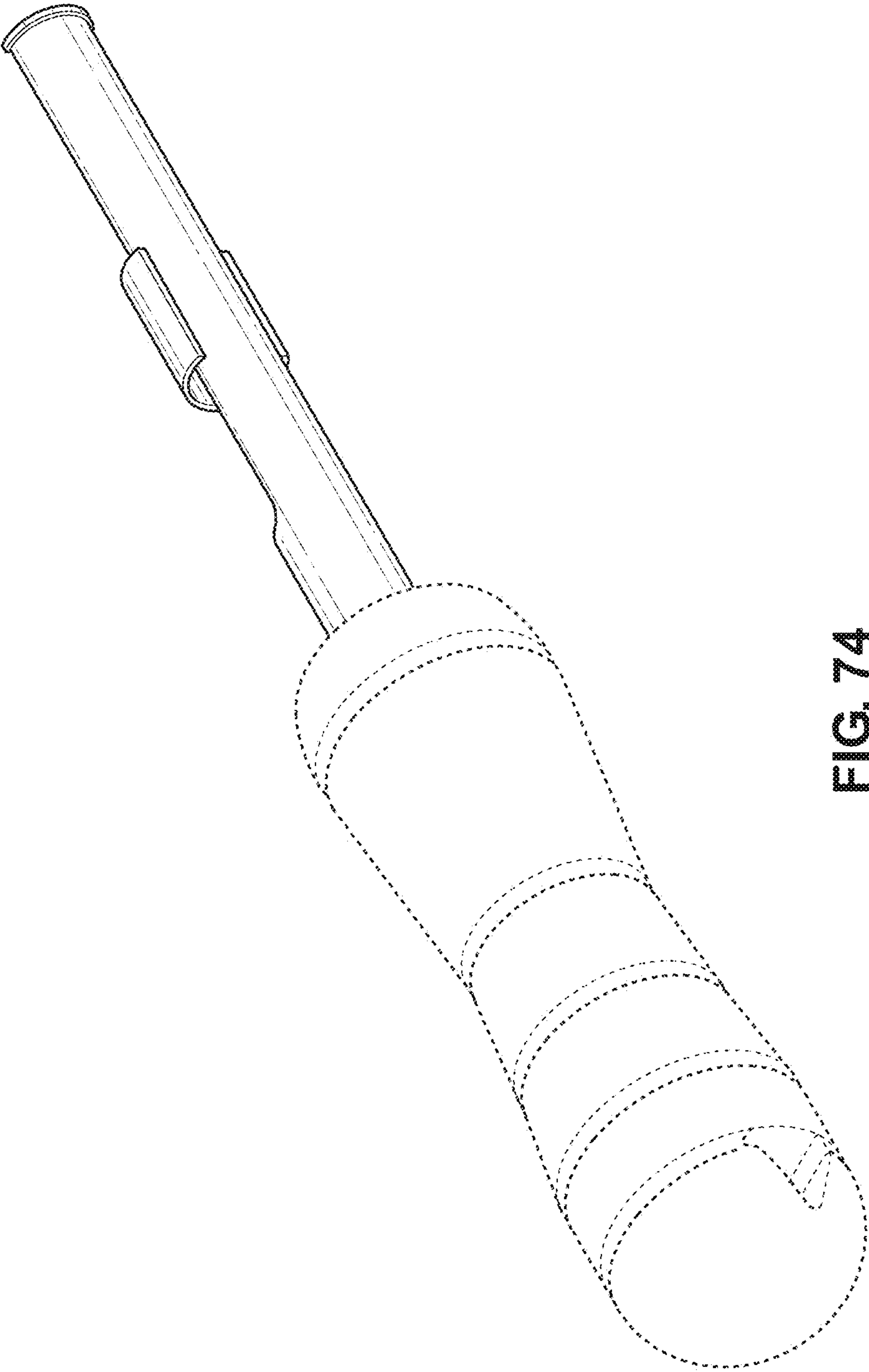


FIG. 74

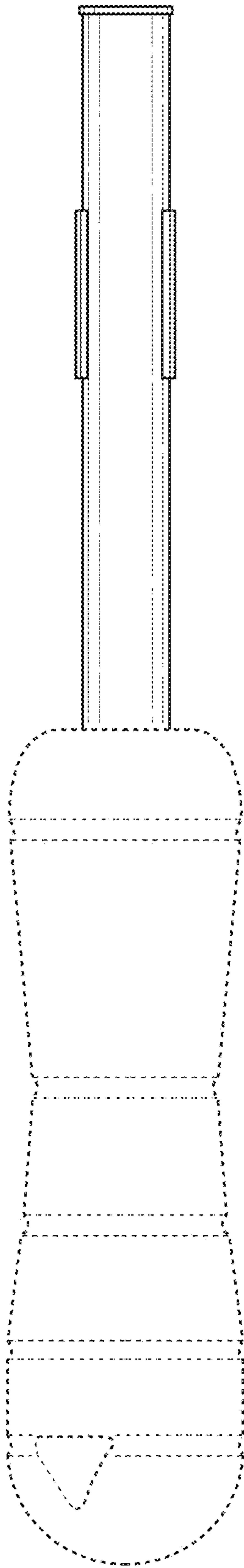


FIG. 75

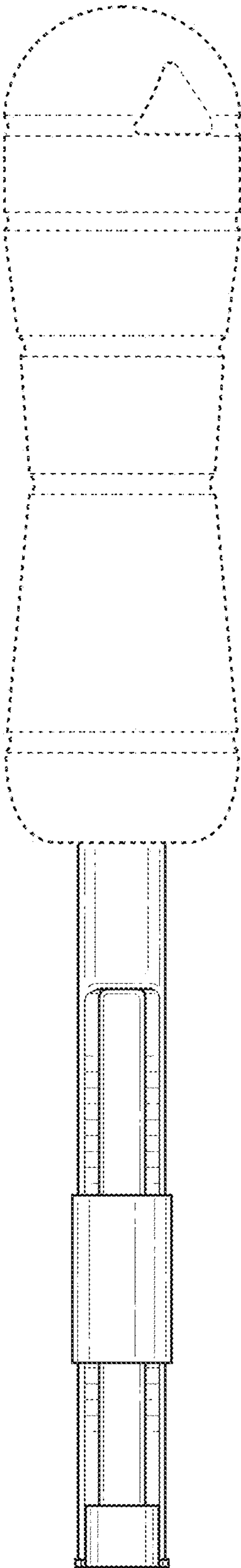


FIG. 76

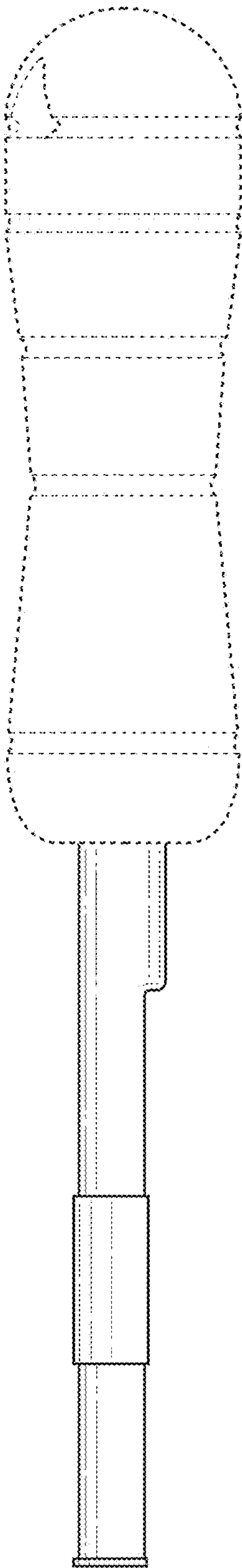


FIG. 77

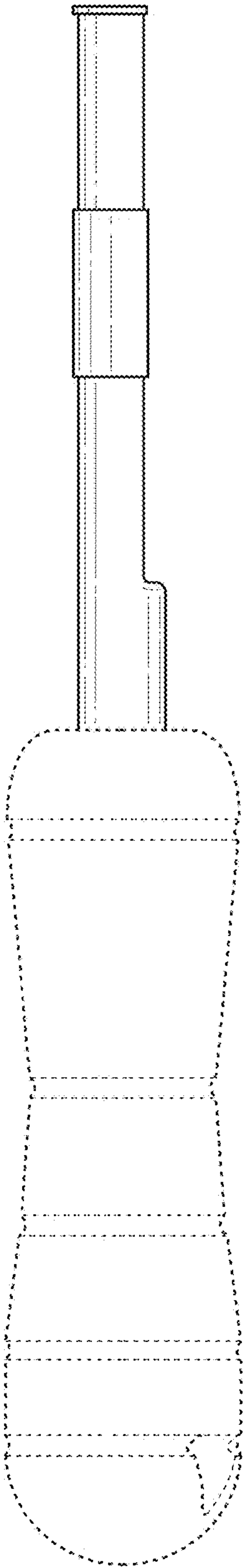


FIG. 78

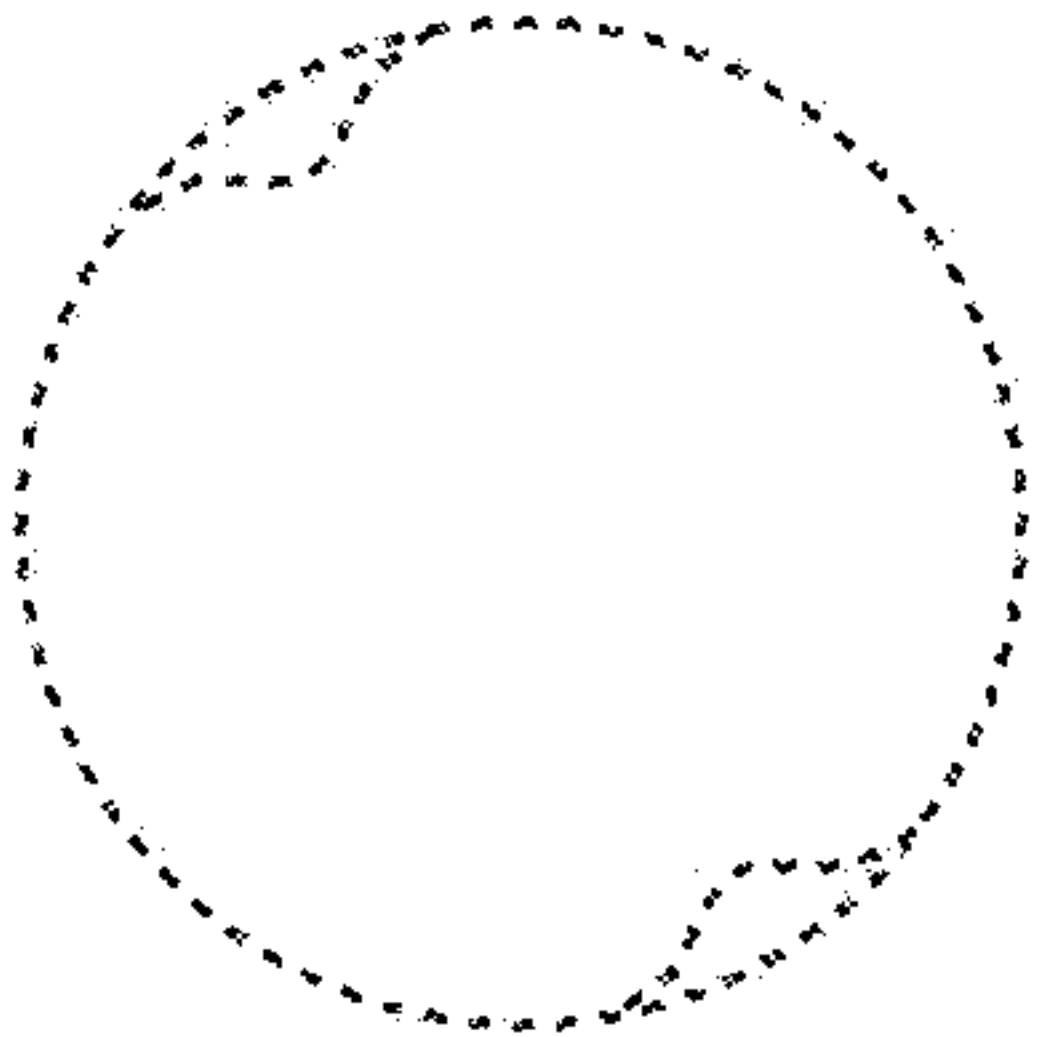


FIG. 79

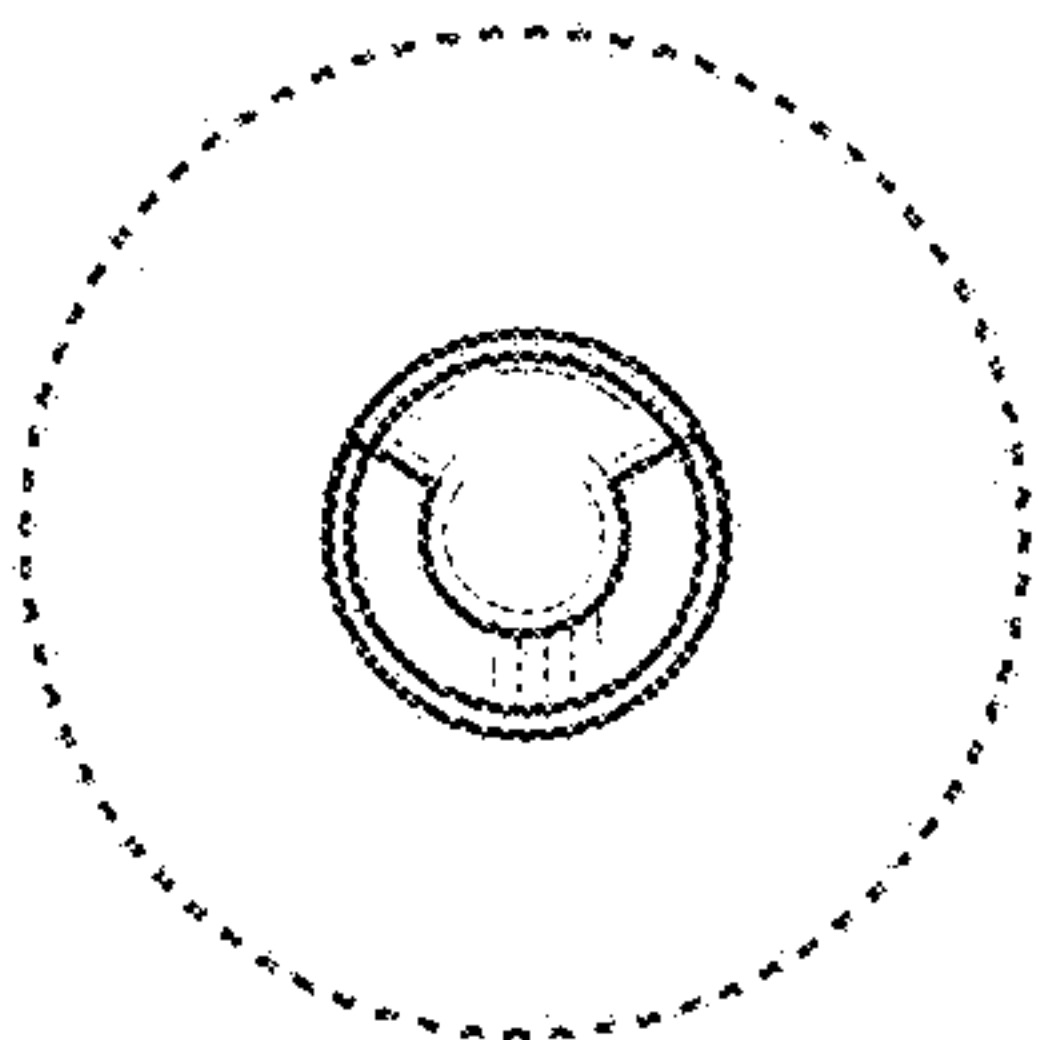


FIG. 80

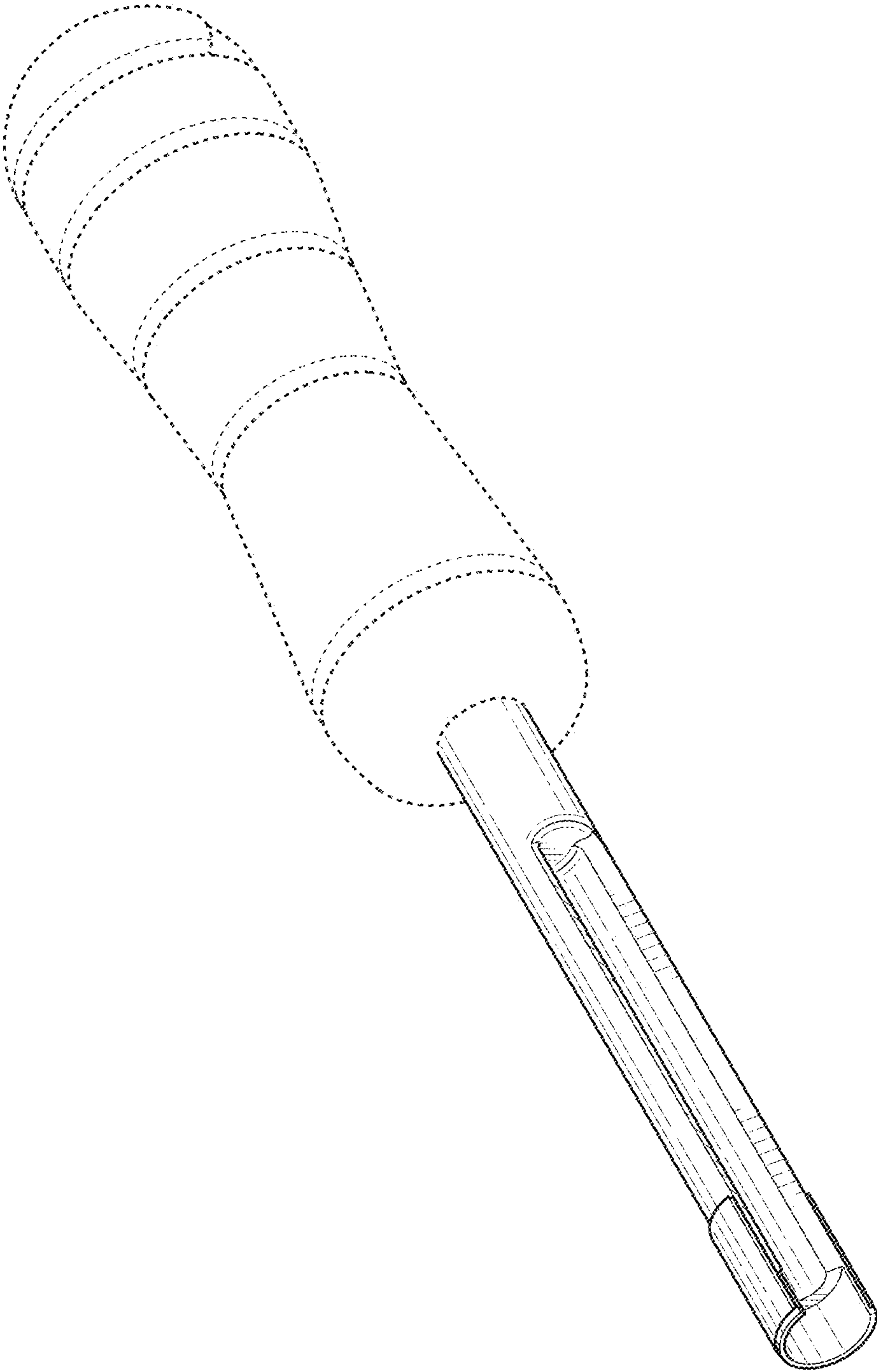


FIG. 81

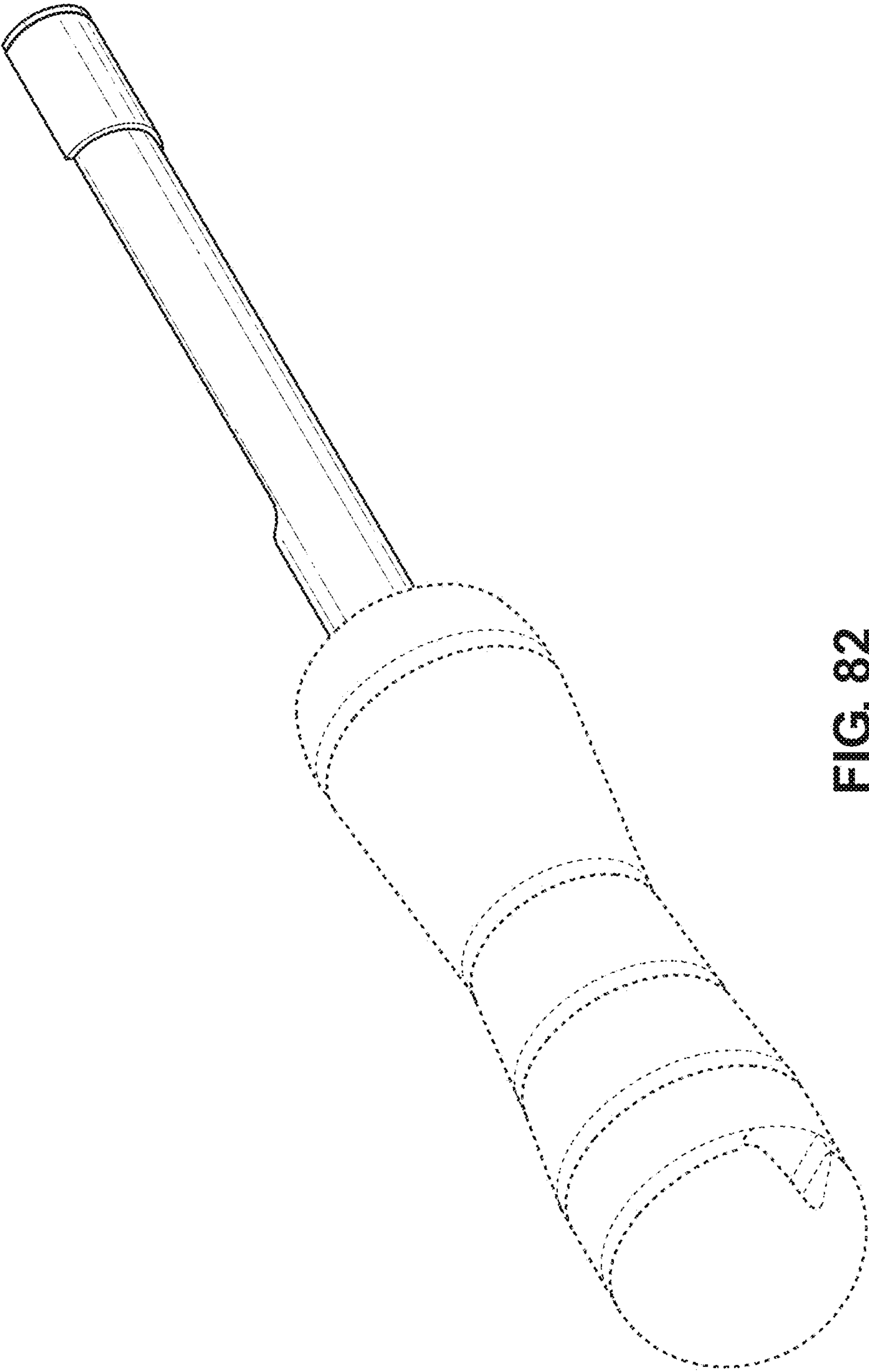


FIG. 82

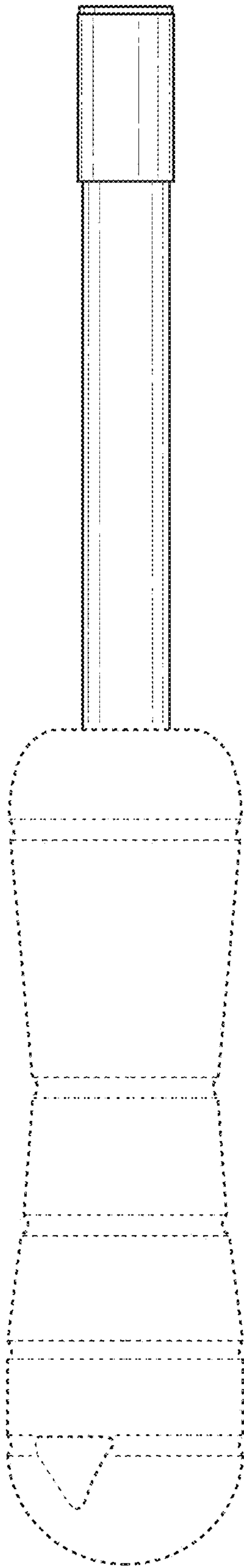


FIG. 83

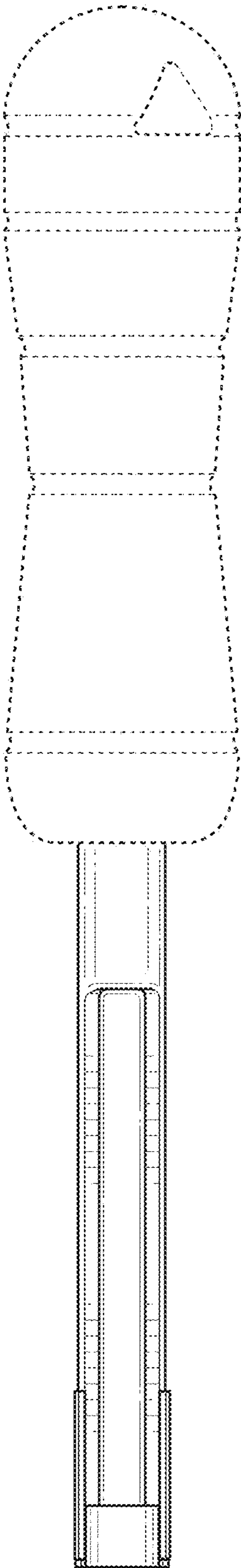


FIG. 84

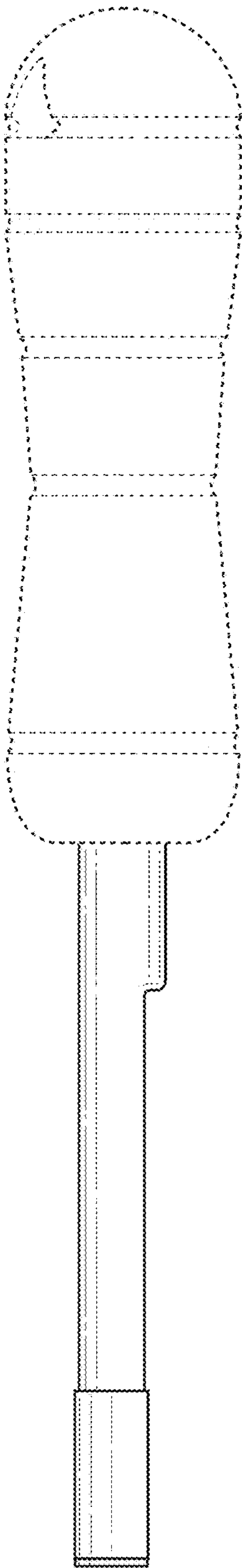


FIG. 85

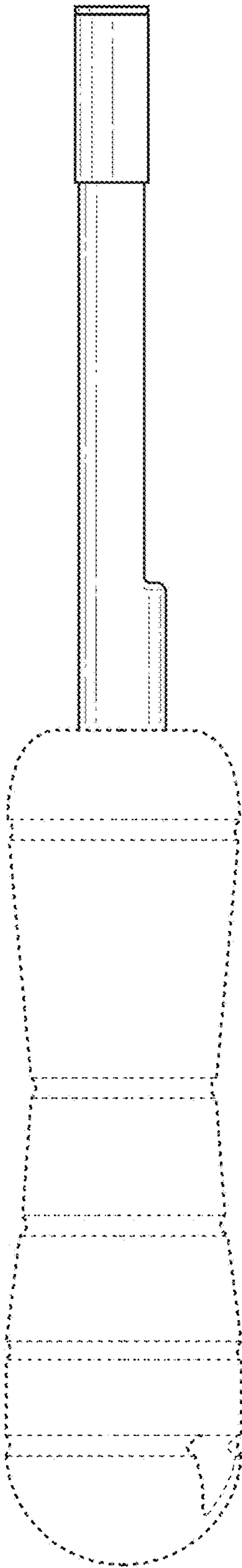


FIG. 86

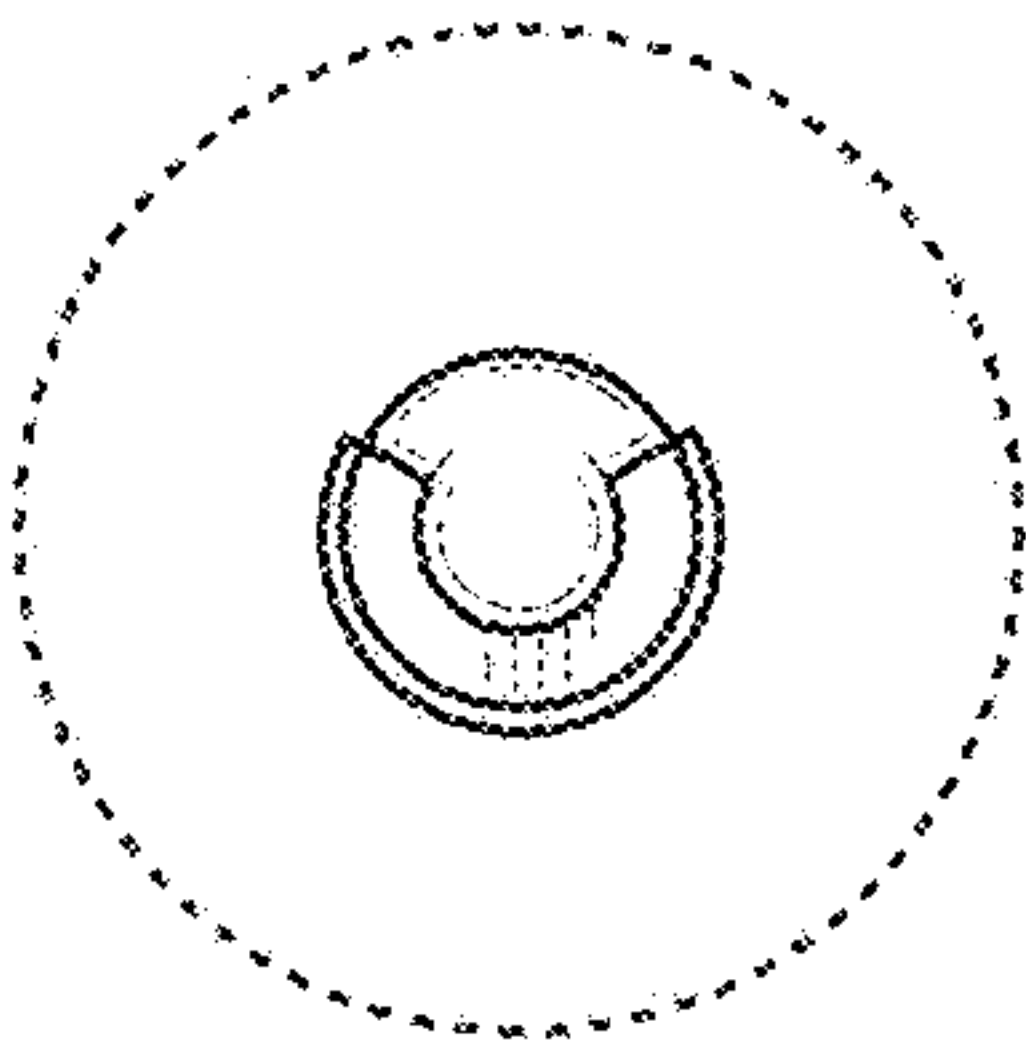


FIG. 87

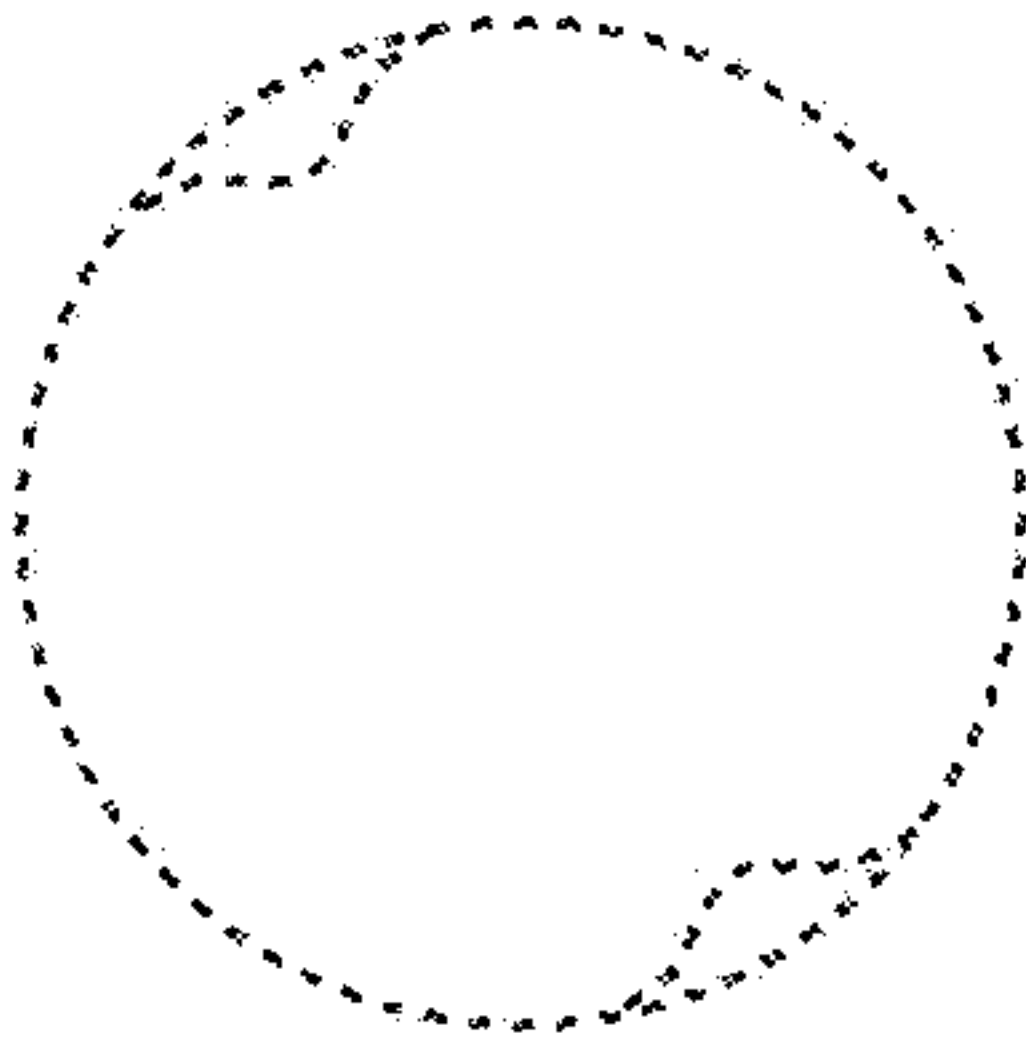


FIG. 88

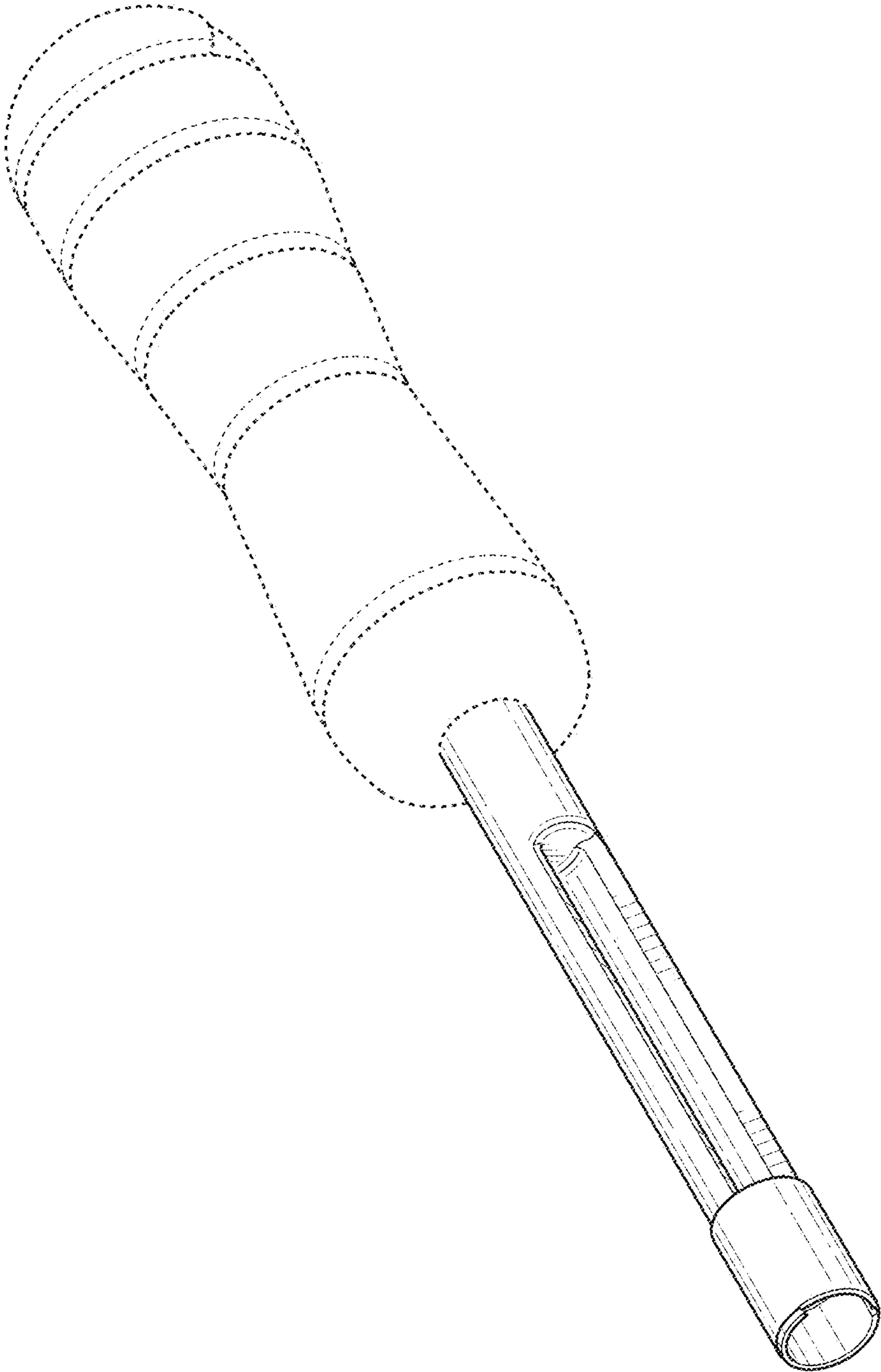


FIG. 89

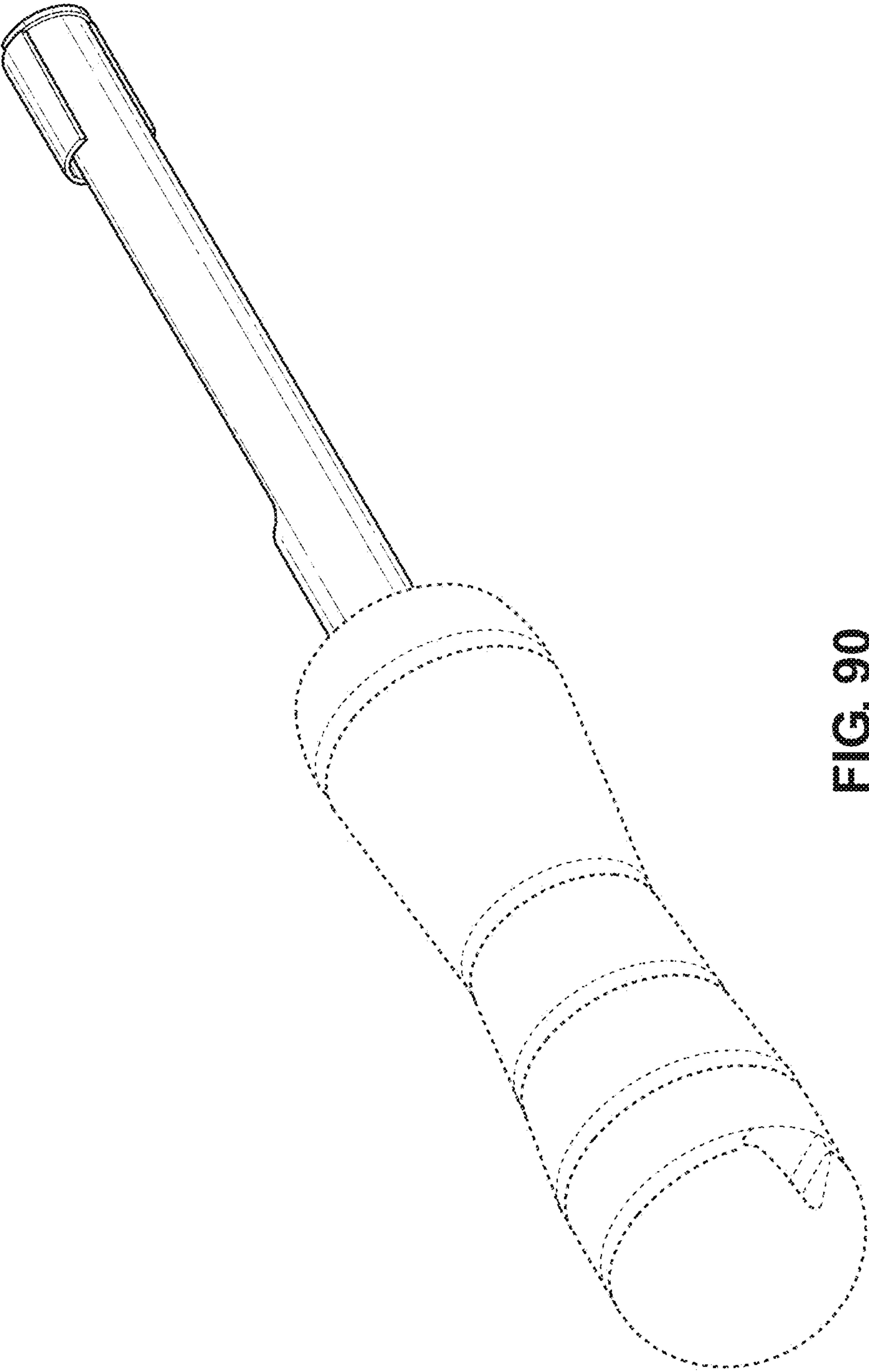


FIG. 90

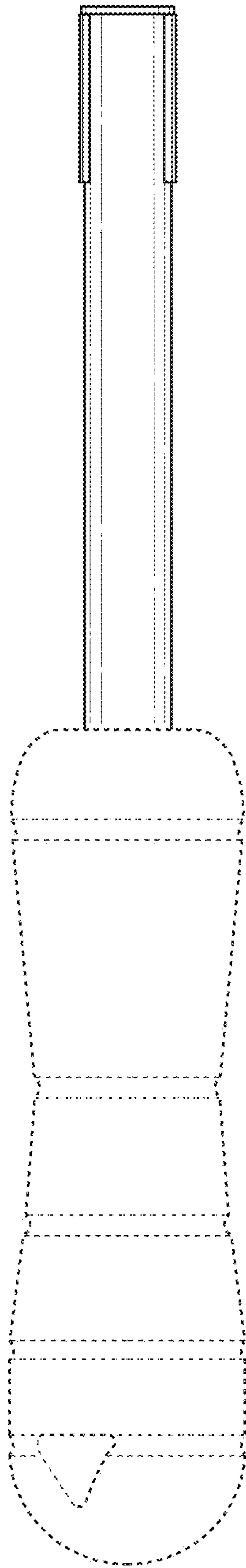


FIG. 91

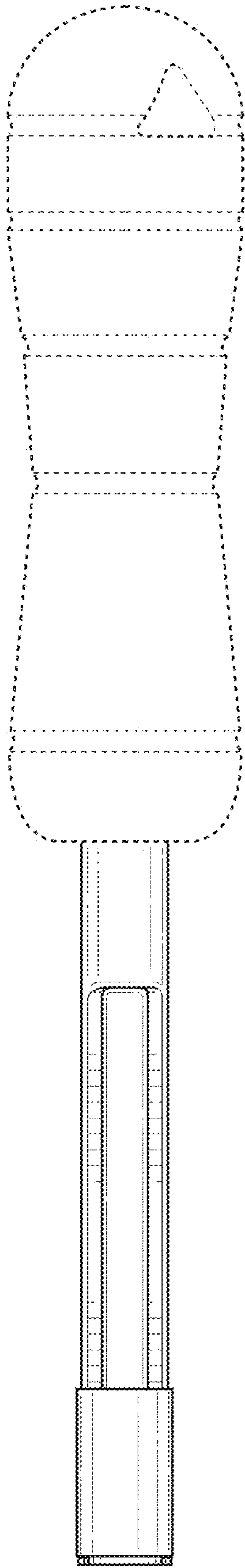


FIG. 92

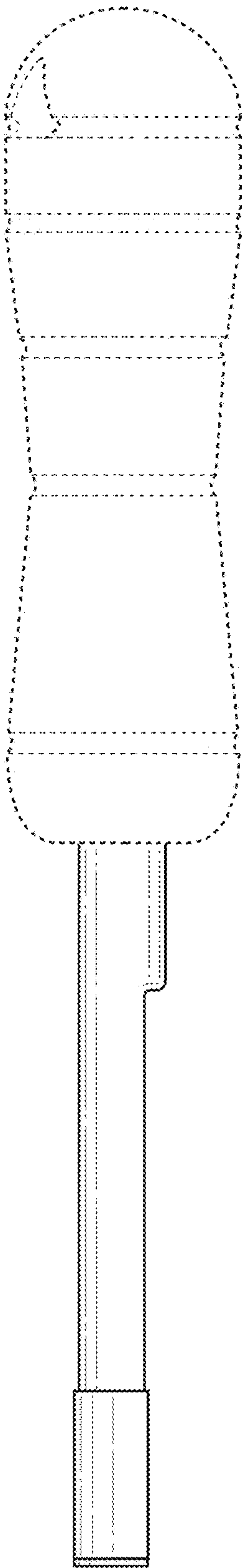


FIG. 93

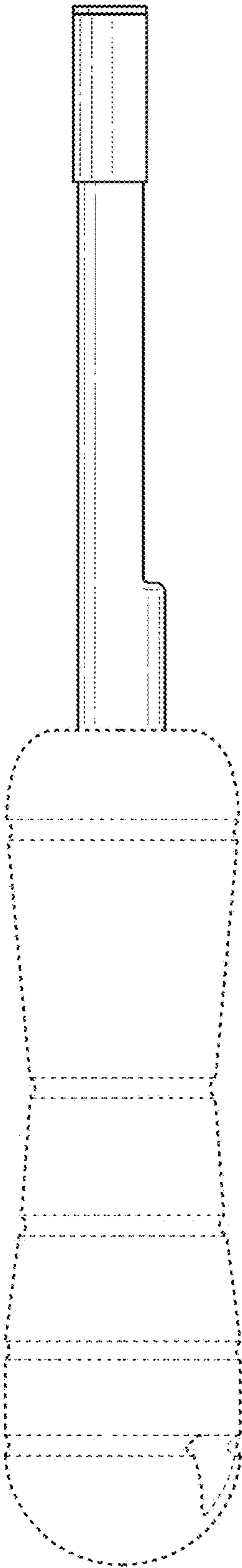


FIG. 94

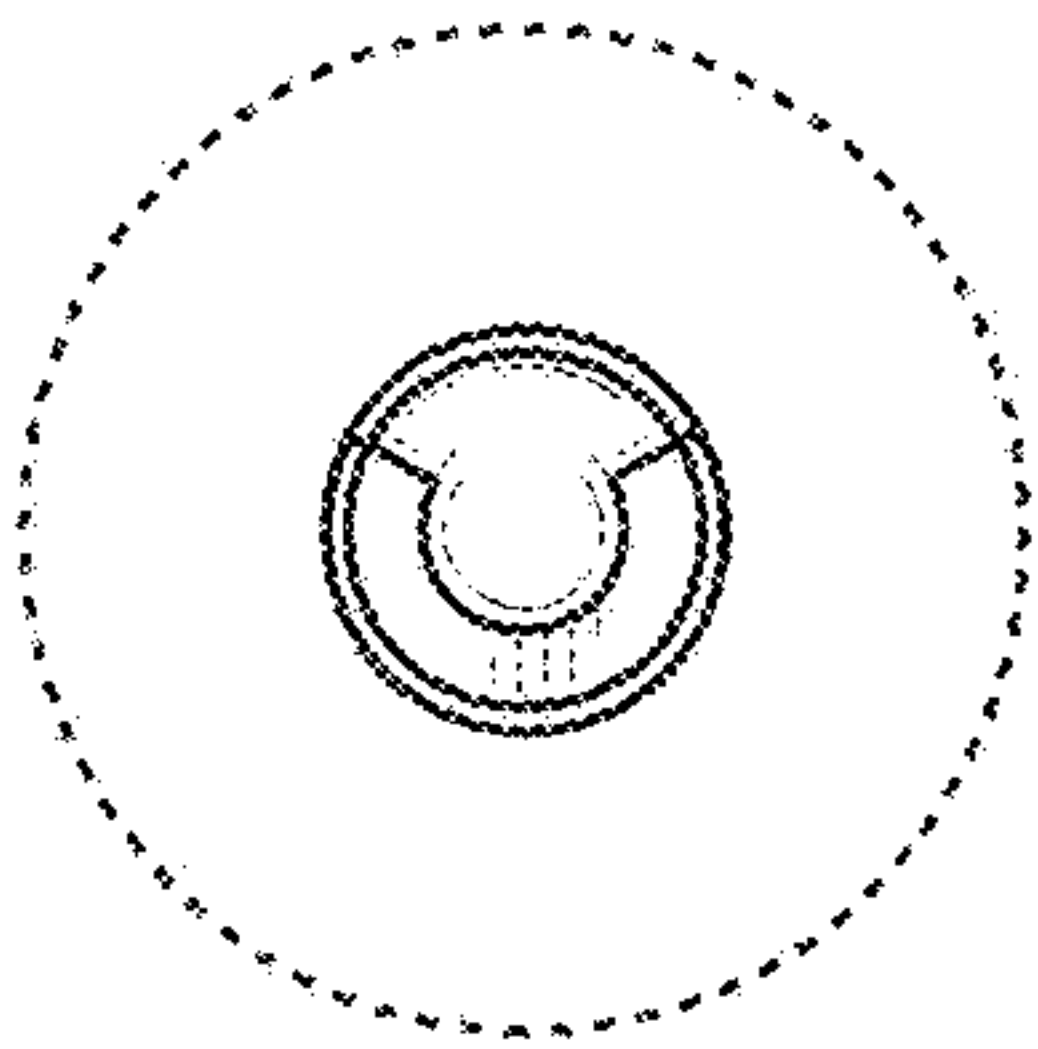


FIG. 95

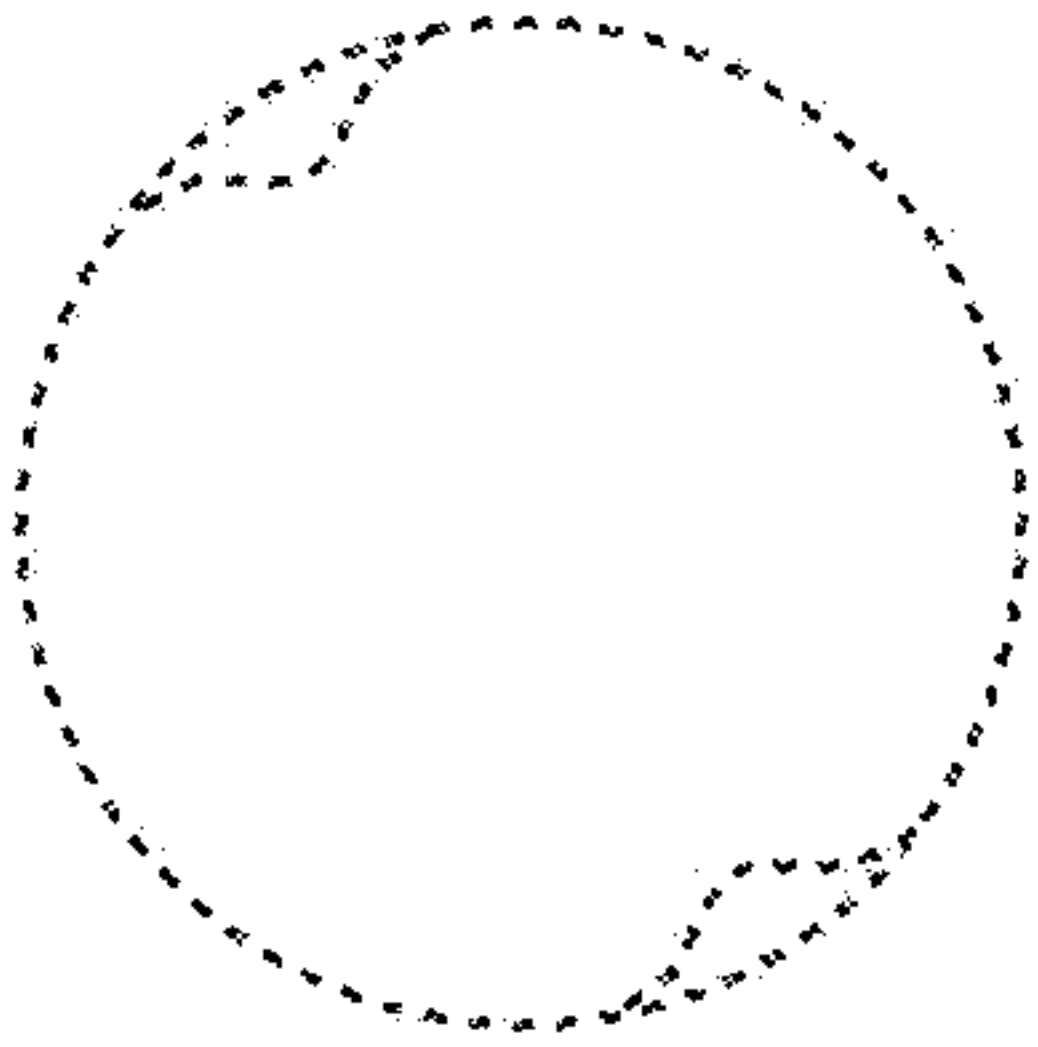


FIG. 96