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(12) **United States Design Patent**  
**Fujiwara et al.**

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(45) **Date of Patent:** **\*\* Aug. 2, 2011**

(54) **OPTICAL CONNECTOR CLEANER**

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**Junichi Nakane**, Sakura (JP)

(73) Assignee: **Fujikura Ltd.**, Tokyo (JP)

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

(21) Appl. No.: **29/347,991**

(22) Filed: **Sep. 3, 2010**

(30) **Foreign Application Priority Data**

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Mar. 5, 2010 (JP) ..... 2010-005399

(51) **LOC (9) Cl.** ..... **08-99**

(52) **U.S. Cl.** ..... **D32/35**

(58) **Field of Classification Search** ..... D32/35,  
D32/40, 45, 52; D4/146, 114, 121, 127,  
D4/130, 132-133, 136, 138; 15/105.52,  
15/107, 114, 118, 237, 142, 104.92, 21.1,  
15/320-321, 323; 385/134

See application file for complete search history.

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(57) **CLAIM**

The ornamental design for an optical connector cleaner, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of an optical connector cleaner according to a first embodiment of our new ornamental design;

FIG. 2 is a front elevation view thereof;

FIG. 3 is a rear elevation view thereof;

FIG. 4 is a top plan view thereof;

FIG. 5 is a bottom plan view thereof;

FIG. 6 is a left side elevation view thereof;

FIG. 7 is a right side elevation view thereof;

FIG. 8 is a bottom plan view thereof with the cap removed;

FIG. 9 is a perspective view of an optical connector cleaner according to a second embodiment of our new ornamental design;

FIG. 10 is a front elevation view thereof;

FIG. 11 is a rear elevation view thereof;

FIG. 12 is a top plan view thereof;

FIG. 13 is a bottom plan view thereof;

FIG. 14 is a left side elevation view thereof;

FIG. 15 is a right side elevation view thereof; and,

FIG. 16 is a bottom plan view thereof with the cap removed.

The broken lines showing environment or structure are for illustrative purposes only and form no part of the claimed design.

**1 Claim, 16 Drawing Sheets**

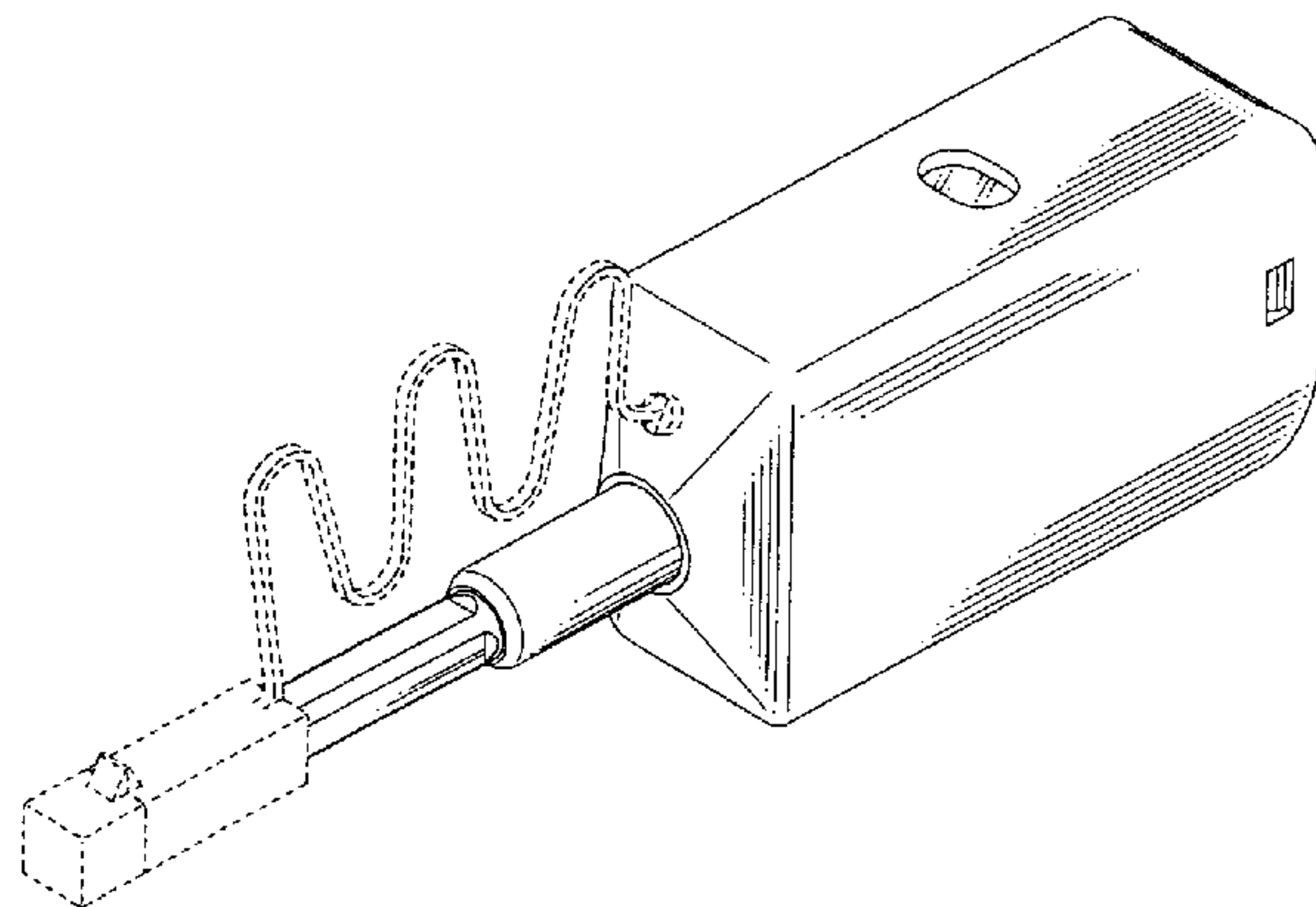
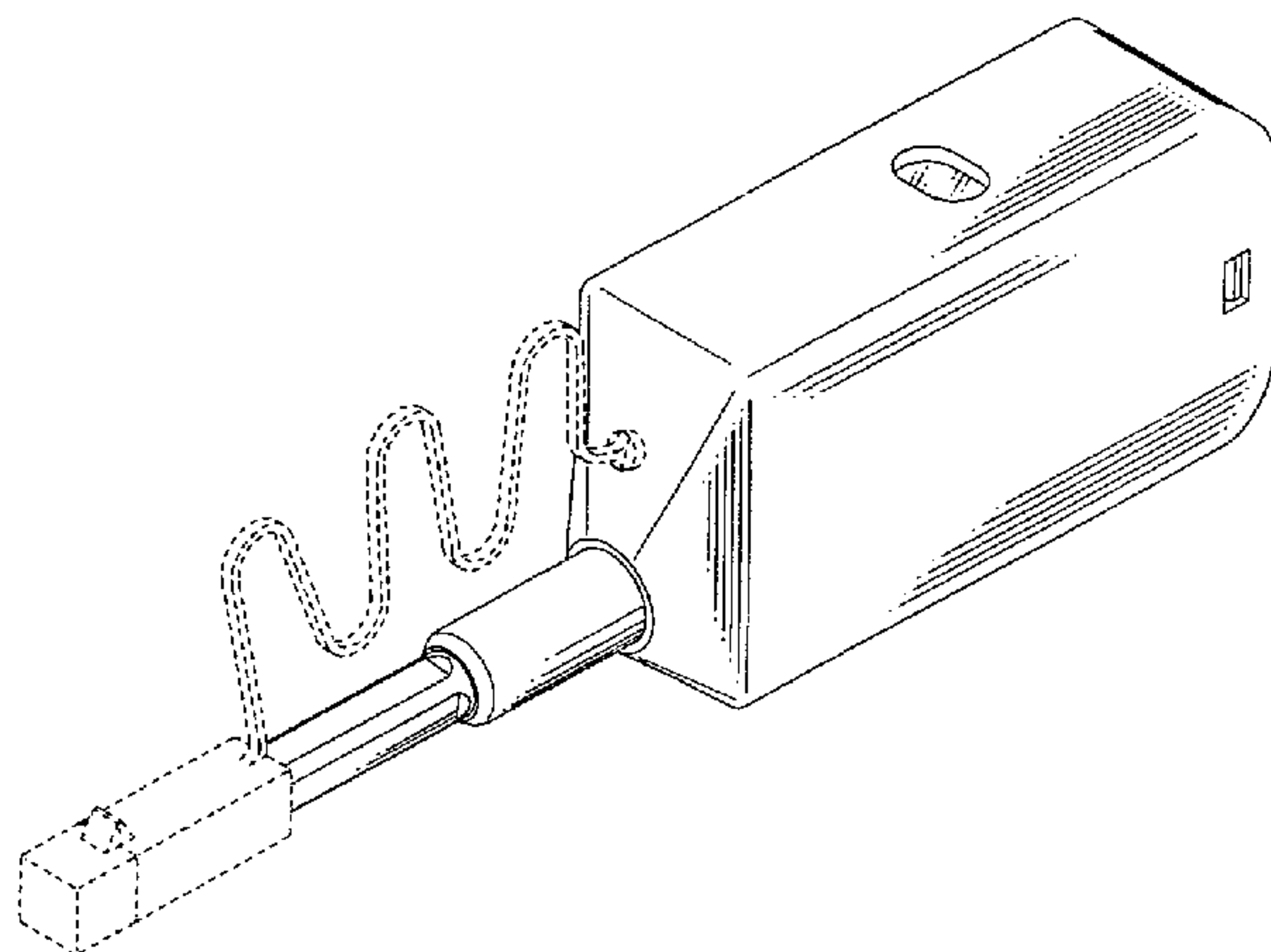


FIG. 1

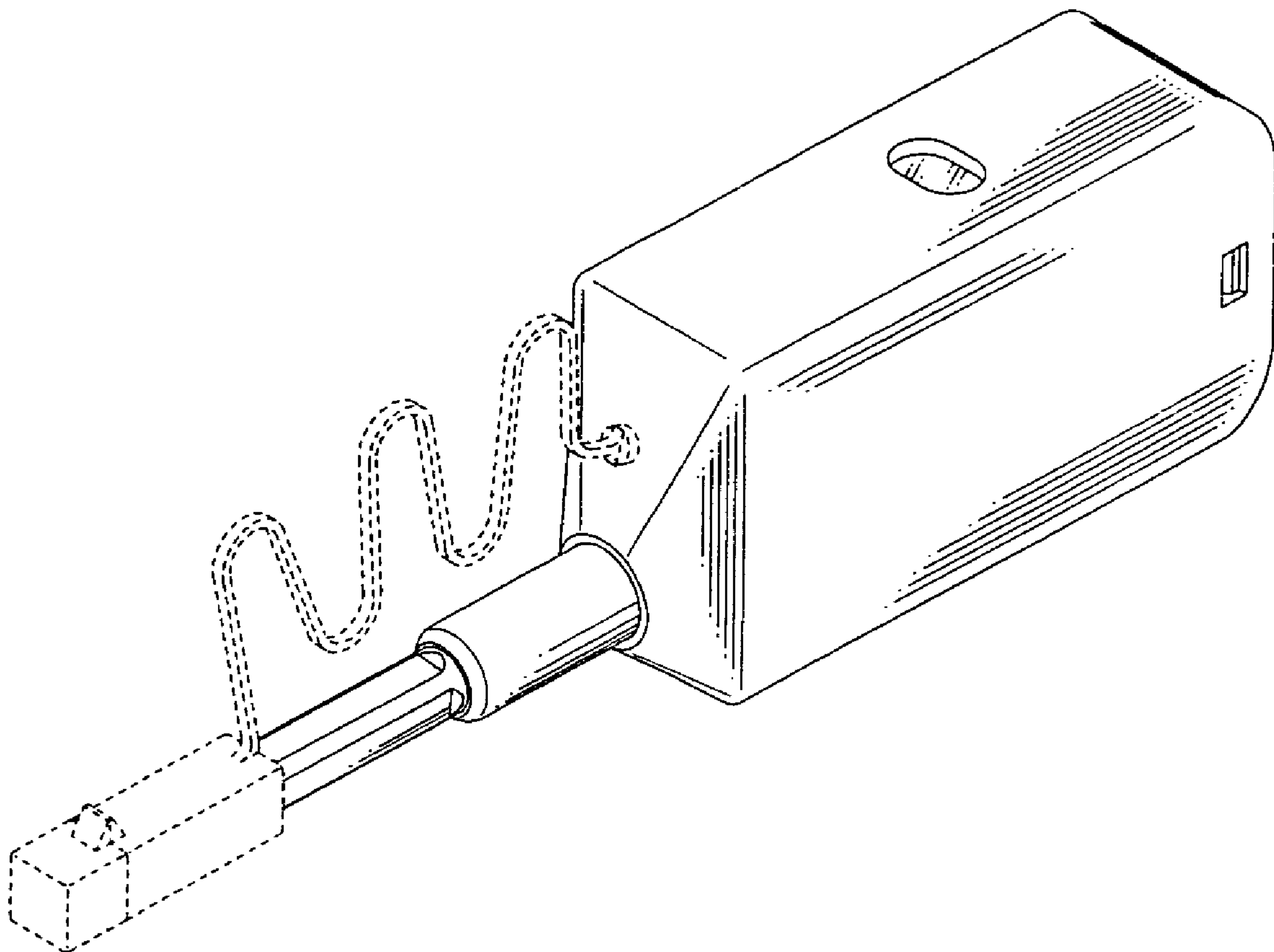


FIG. 2

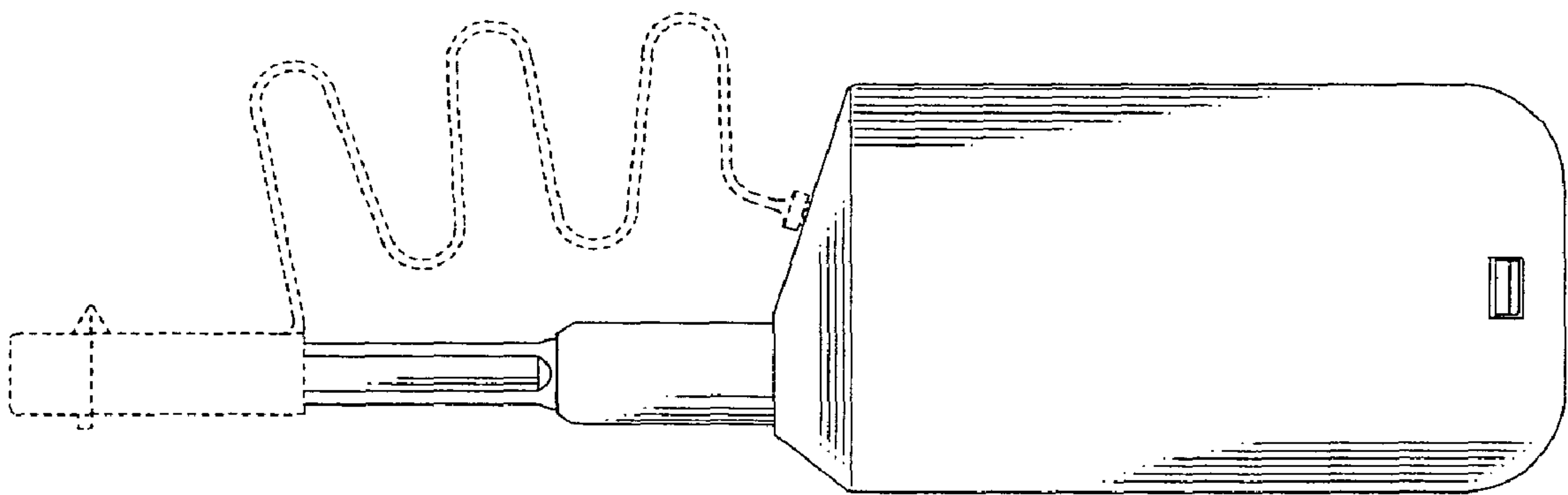


FIG. 3

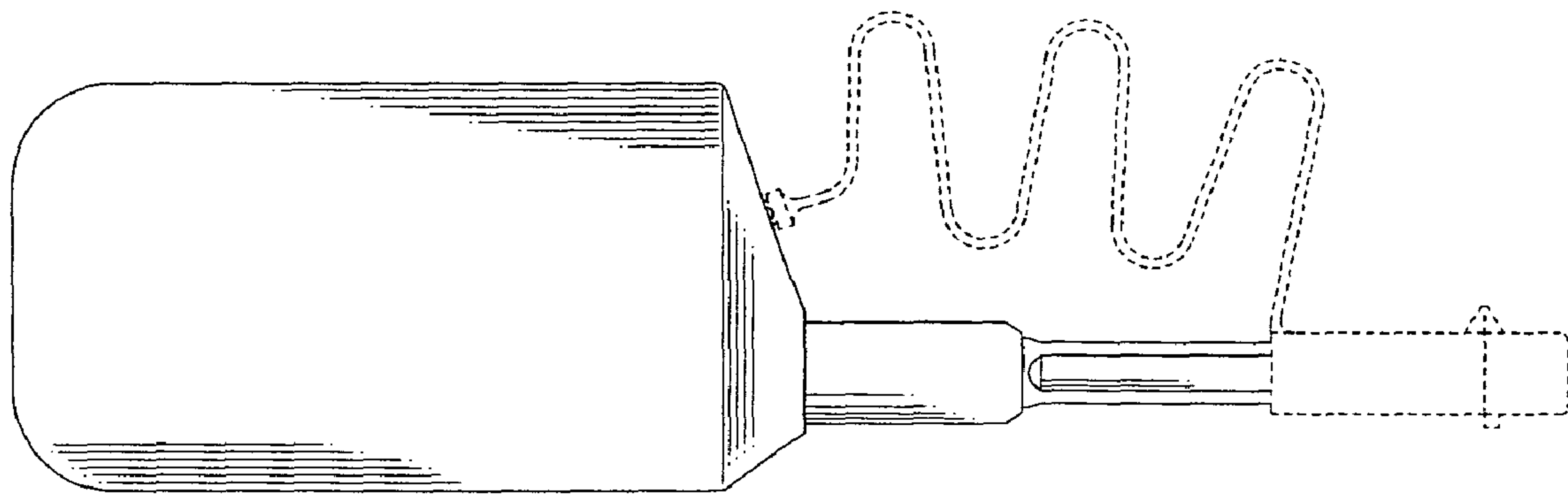


FIG. 4

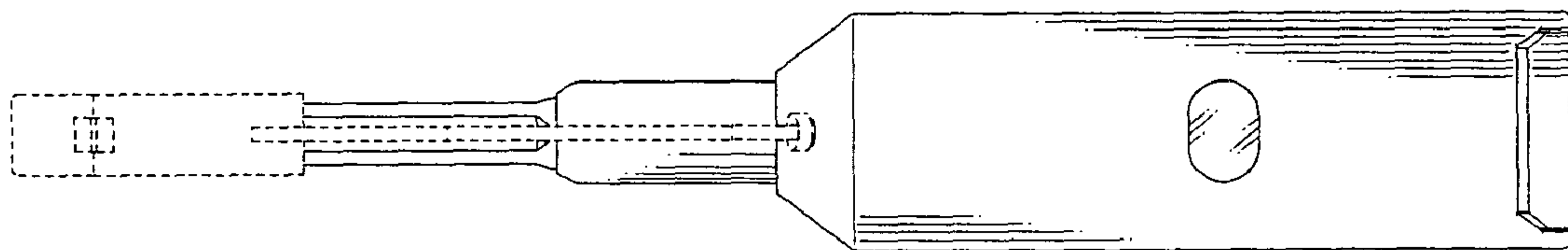
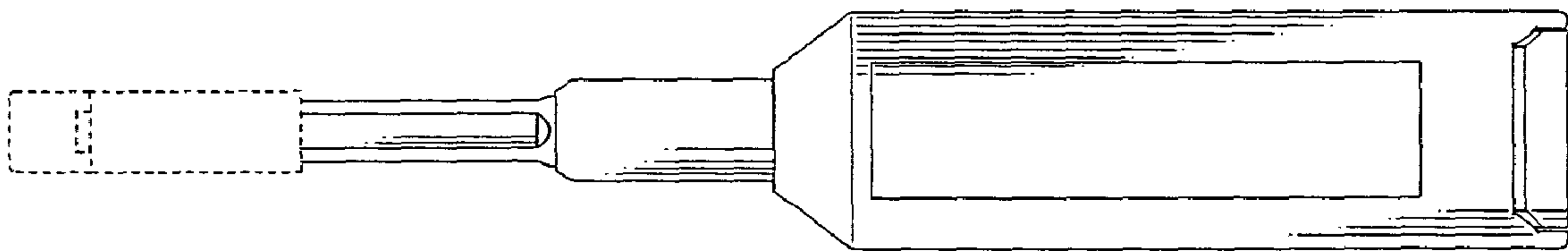
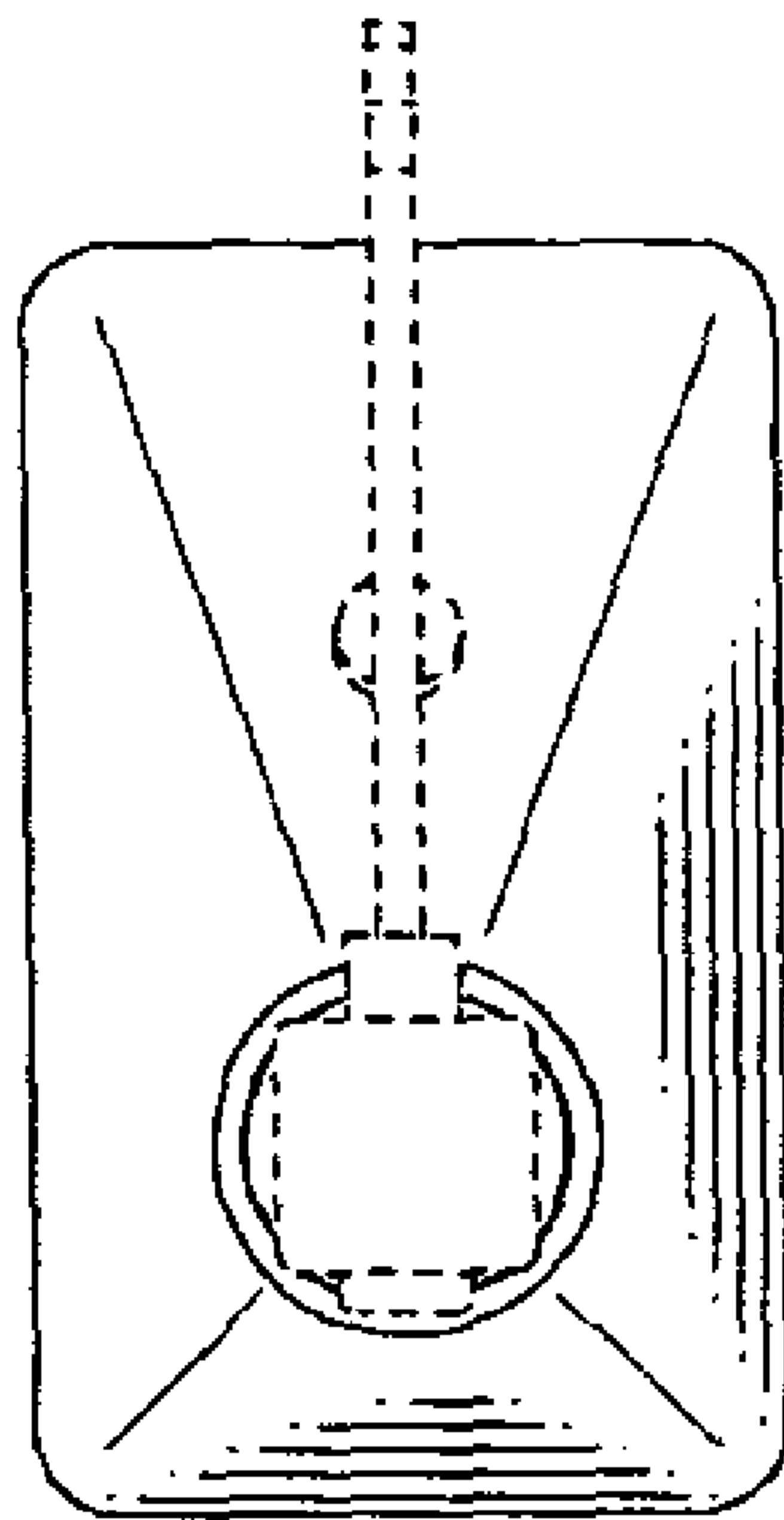


FIG. 5



# FIG. 6



# FIG. 7





FIG. 8

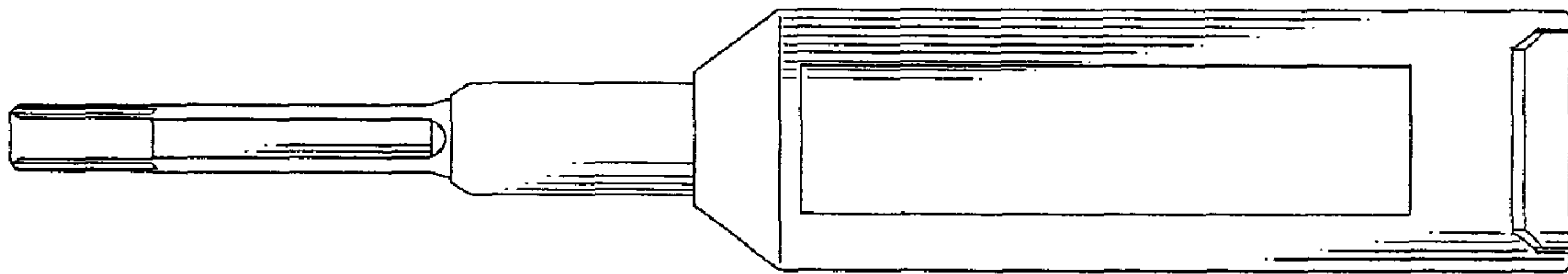


FIG. 9

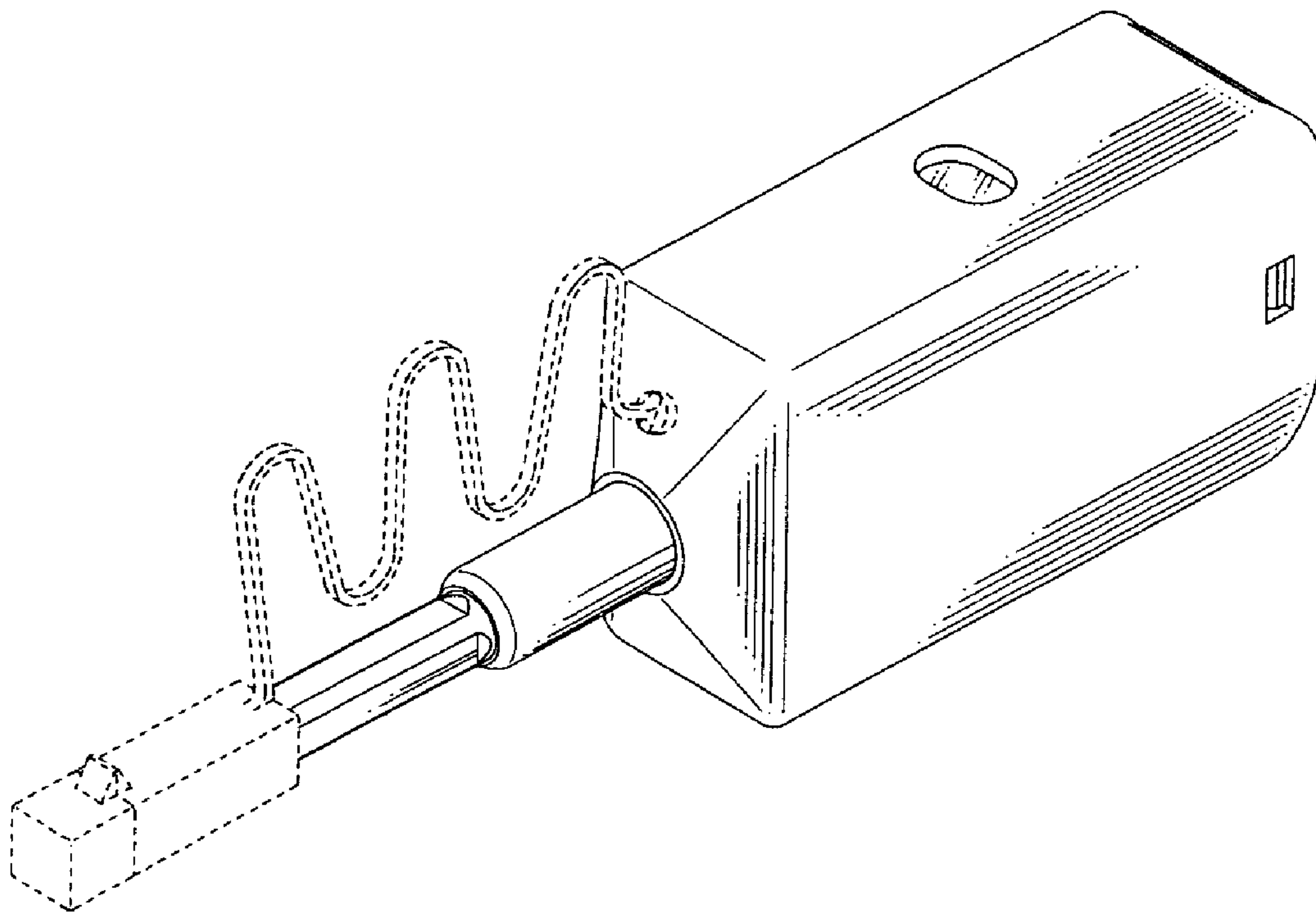


FIG. 10

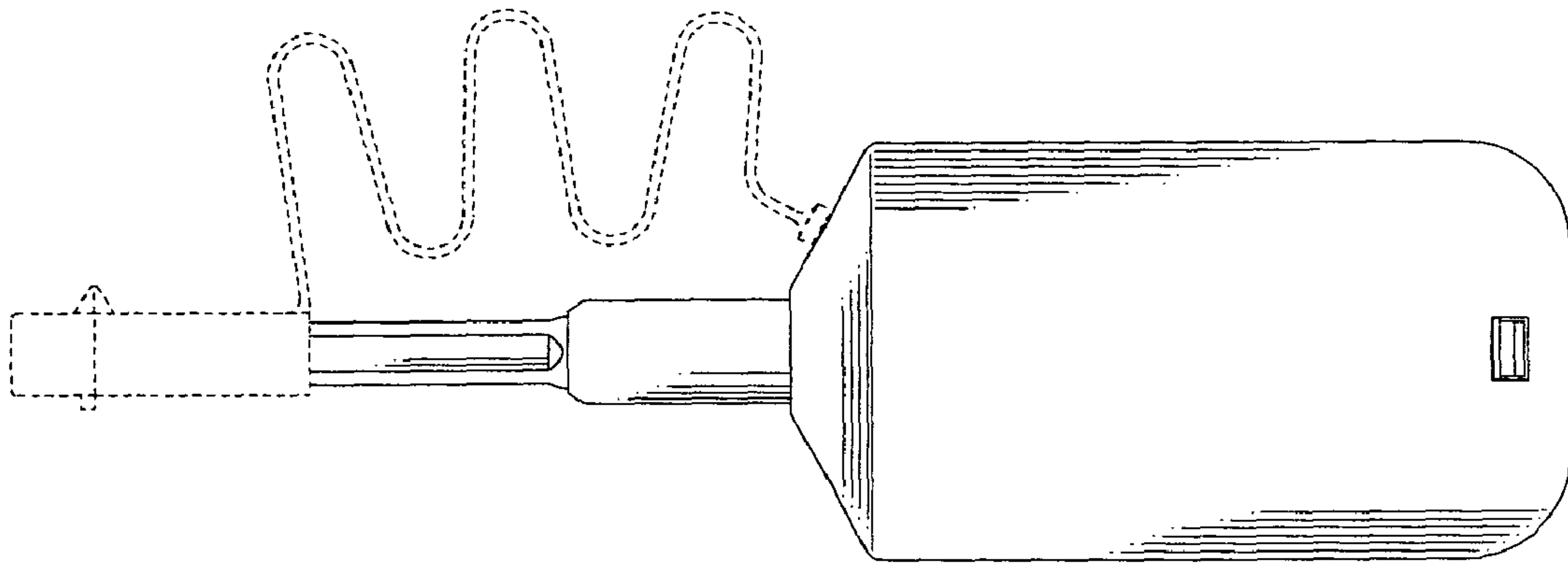


FIG. 11

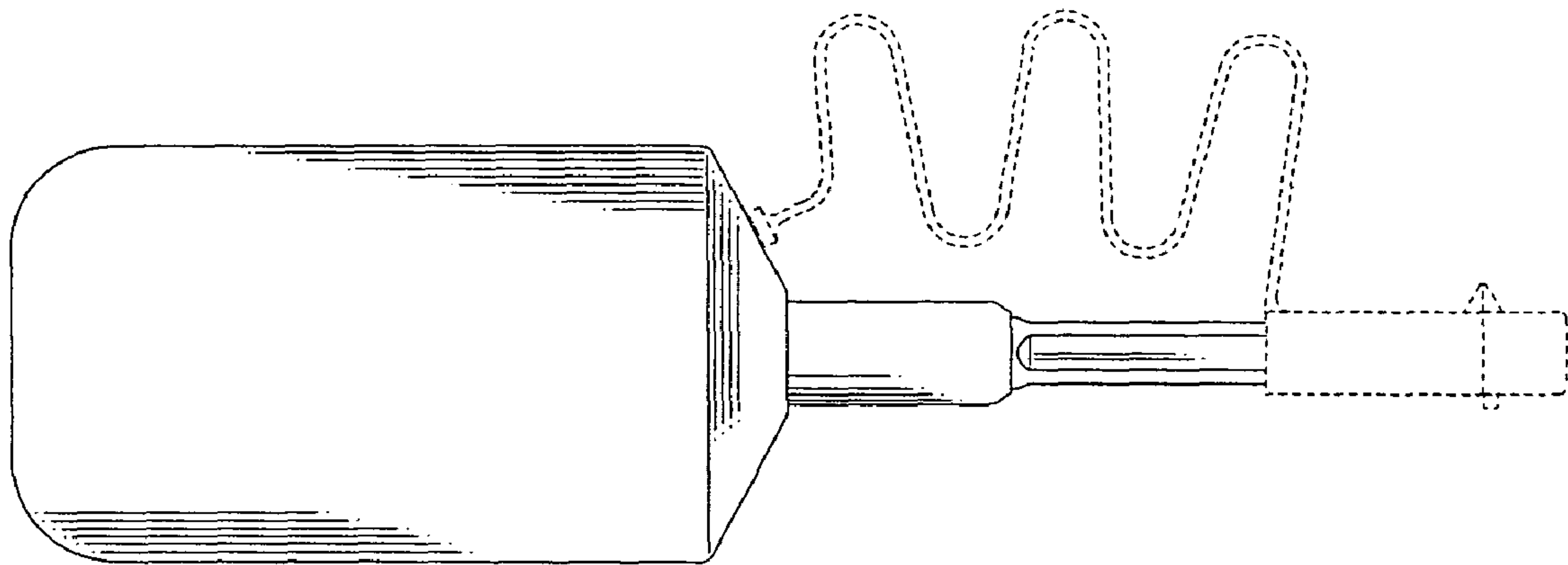


FIG. 12

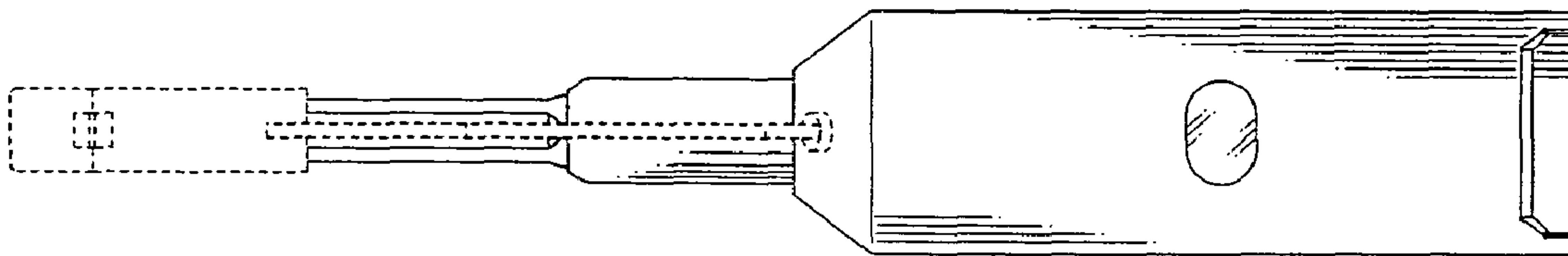
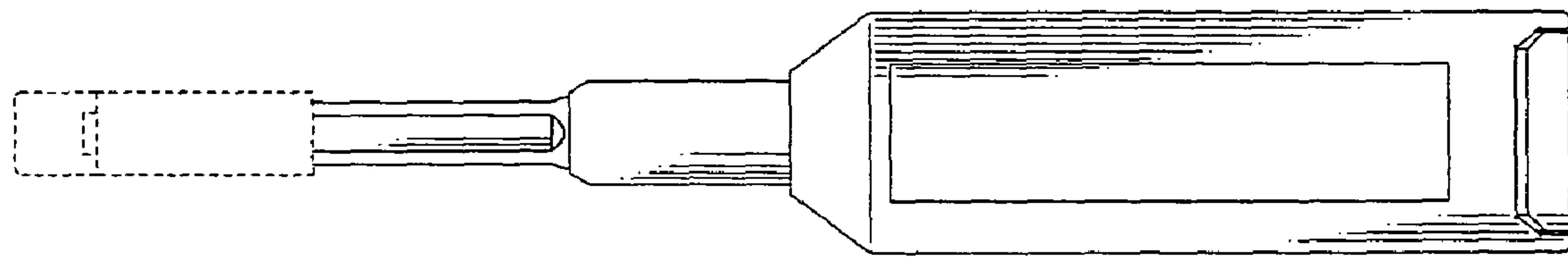
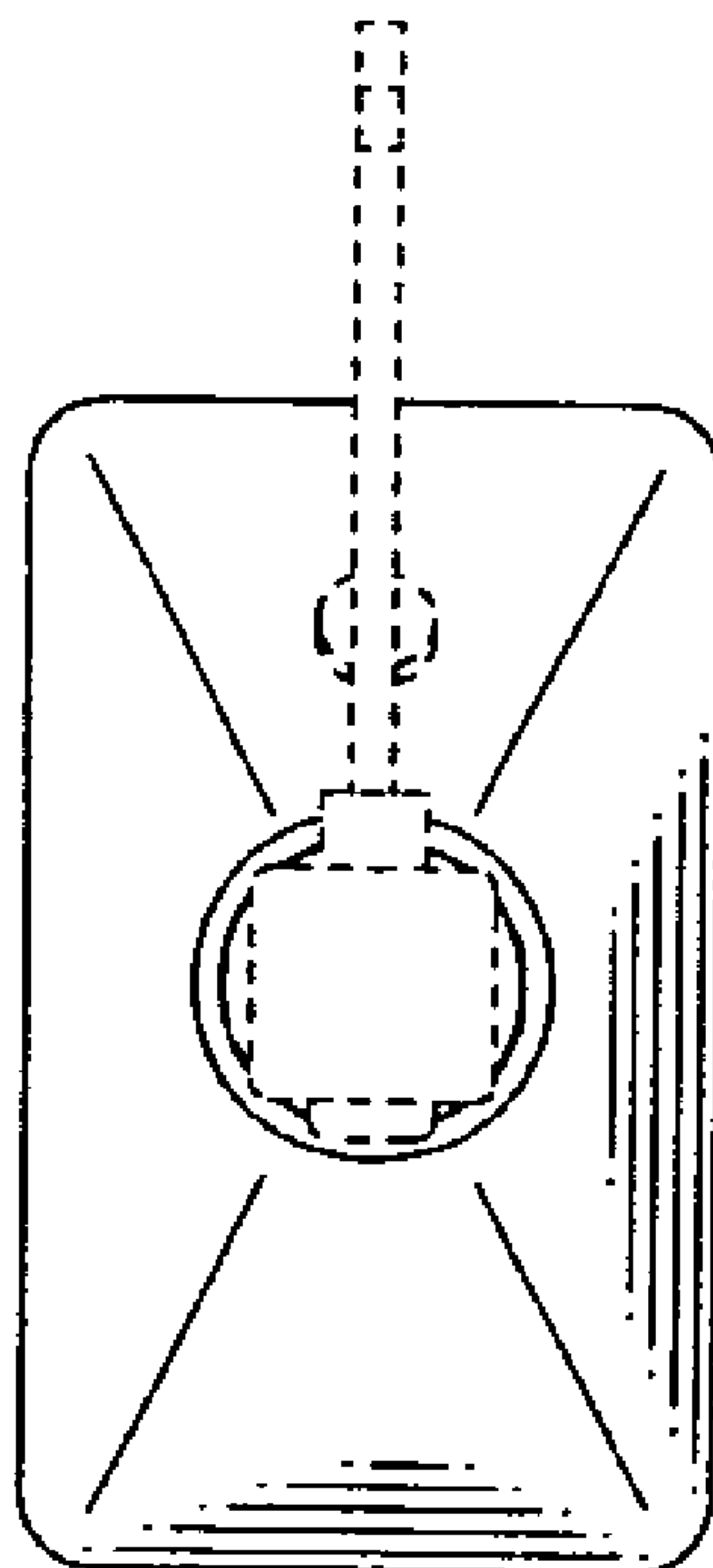


FIG. 13



# FIG. 14



# FIG. 15

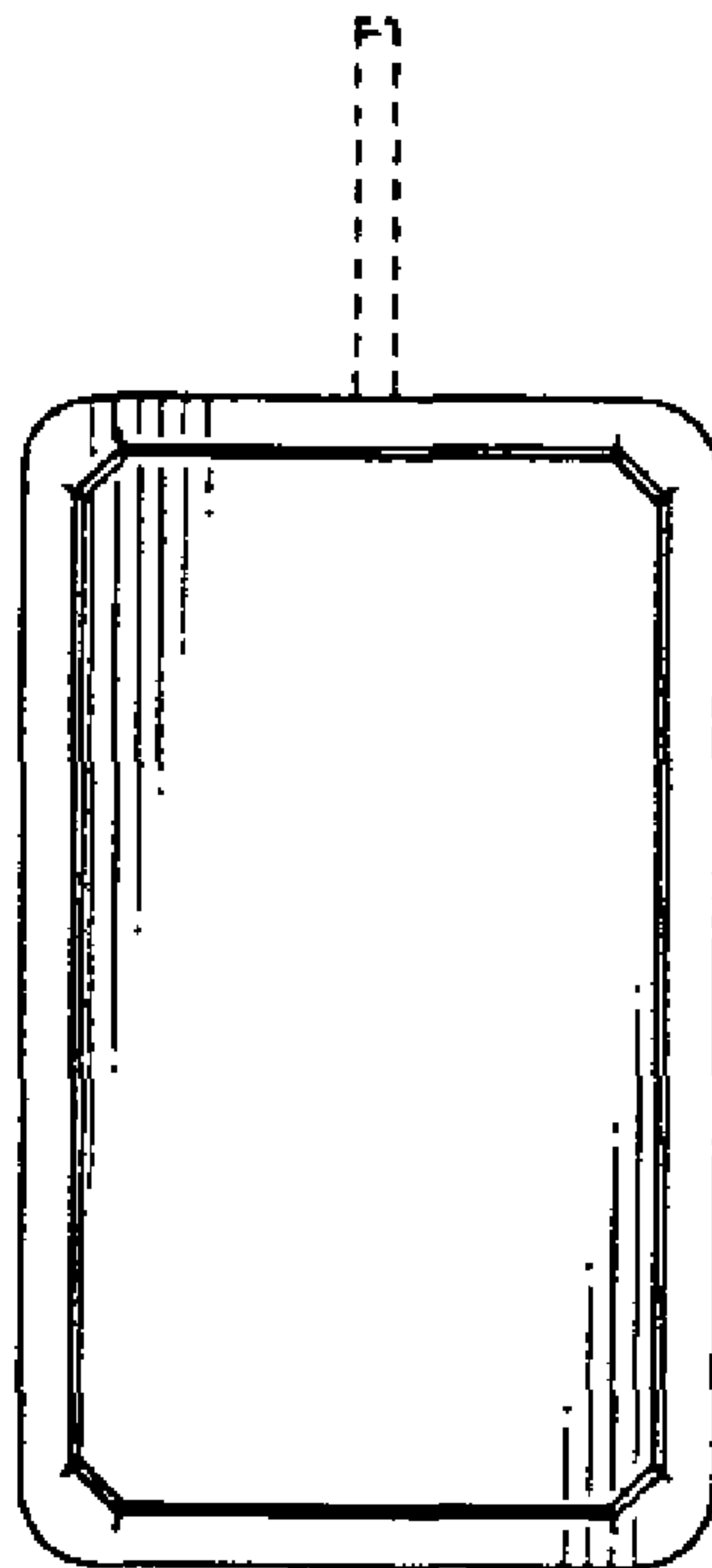




FIG. 16

