



US00D483475S

(12) **United States Design Patent** (10) **Patent No.:** **US D483,475 S**
Kirwan et al. (45) **Date of Patent:** **** Dec. 9, 2003**

(54) **FLUENT AGENT DELIVERY DEVICE**

(75) Inventors: **John M. Kirwan**, North Andover, MA (US); **J. Jeffrey Kablik**, Tyngsboro, MA (US)

(73) Assignee: **Genzyme Corporation**, Cambridge, MA (US)

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

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(51) **LOC (7) Cl.** **24-01**

(52) **U.S. Cl.** **D24/108; D24/113; D24/133**

(58) **Field of Search** **D24/133, 108, D24/111, 144, 113; 604/22, 33, 902, 30, 35, 82, 43, 19, 20, 290; 606/214, 213**

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,749,090 A * 7/1973 Stewart 604/33
4,037,599 A 7/1977 Raulerson

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

EP 0 041 022 A1 12/1981

(List continued on next page.)

Primary Examiner—Ian Simmons

(74) *Attorney, Agent, or Firm*—Wolf, Greenfield & Sacks, P.C.

(57) **CLAIM**

The ornamental design for a fluent agent delivery device, as shown and described.

DESCRIPTION

FIG. 1 is a left side elevational view, the right side being a mirror image thereof, of a first embodiment of a fluent agent delivery device showing our new design;

FIG. 2 is a top plan view of the embodiment shown in FIG. 1;

FIG. 3 is a bottom plan view of the embodiment shown in FIG. 1;

FIG. 4 is a front elevational view of the embodiment shown in FIG. 1;

FIG. 5 is a rear elevational view of the embodiment shown in FIG. 1;

FIG. 6 is a top left side rear perspective view of the embodiment shown in FIG. 1;

FIG. 7 is a left side elevational view, the right side being a mirror image thereof, of a second embodiment of a fluent agent delivery device showing our design;

FIG. 8 is a top plan view of the embodiment shown in FIG. 7;

FIG. 9 is a bottom plan view of the embodiment shown in FIG. 7;

FIG. 10 is a front elevational view of the embodiment shown in FIG. 7;

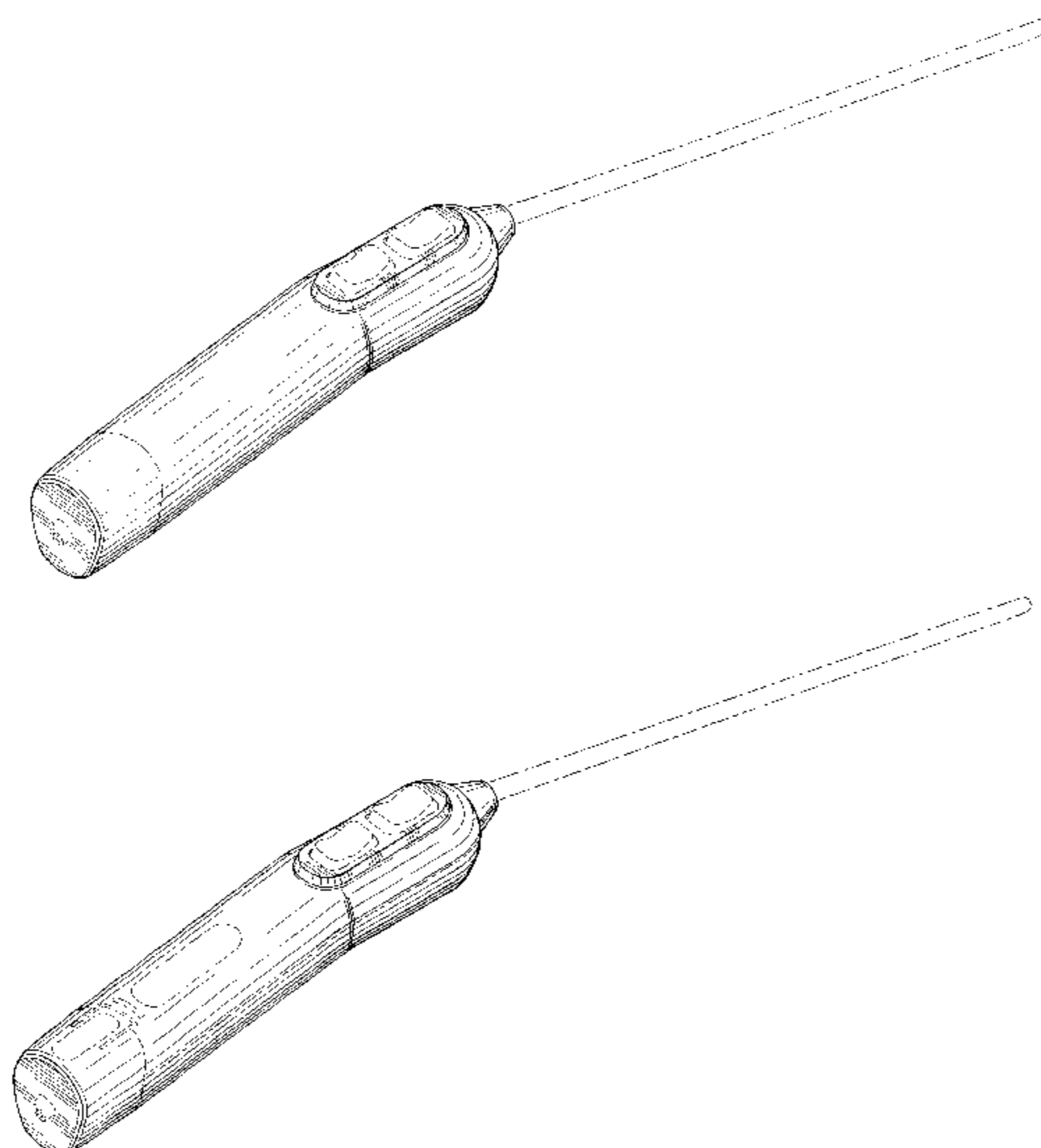
FIG. 11 is a rear elevational view of the embodiment shown in FIG. 7; and,

FIG. 12 is a top left side rear perspective view of the embodiment shown in FIG. 7.

The broken line showing of an application shaft at the front of the device, a port for tubing attachment at the rear of the device, two rocker buttons positioned on the top portion of the device, and the circumferential part line near the rear of the device in FIGS. 1–12 is for illustrative purposes only and forms no part of the claimed design.

The broken line showing of a longitudinal part line extending forward from the circumferential part line to the rear-most portion of the application shaft, an oval viewing window on the top portion of the device, an oval viewing window on the bottom portion of the device, and snap-fit connections near the rear of the device positioned on both the top and bottom portions of the device in FIGS. 7–12 is for illustrative purposes only and forms no part of the claimed design.

1 Claim, 4 Drawing Sheets



US D483,475 S

Page 2

U.S. PATENT DOCUMENTS

4,978,336 A 12/1990 Capozzi et al.
5,022,563 A 6/1991 Marchitto et al.
5,147,203 A 9/1992 Seidenberg
5,149,330 A 9/1992 Brightbill
5,222,939 A 6/1993 Tiefenbrun et al.
5,312,333 A 5/1994 Churinetz et al.
5,372,585 A 12/1994 Tiefenbrun et al.
5,470,311 A 11/1995 Setterstrom et al.
5,612,050 A 3/1997 Rowe et al.
5,698,189 A 12/1997 Rowe et al.
5,749,968 A 5/1998 Melanson et al.
5,759,169 A 6/1998 Marx
5,759,171 A 6/1998 Coelho et al.
5,800,373 A 9/1998 Melanson et al.
5,800,431 A * 9/1998 Brown 604/35
5,895,412 A * 4/1999 Tucker 606/213
6,004,547 A 12/1999 Rowe et al.

6,121,341 A 9/2000 Sawhney et al.
6,149,622 A * 11/2000 Marie 604/902
6,150,581 A * 11/2000 Jiang et al. 606/214
D453,376 S * 2/2002 McMahon et al. D24/108
6,387,977 B1 5/2002 Sawhney et al.
6,468,520 B1 10/2002 Rowe et al.
6,482,179 B1 * 11/2002 Chu et al. 606/214

FOREIGN PATENT DOCUMENTS

WO WO90/01959 A1 3/1990
WO WO94/21324 A1 9/1994
WO WO96/29370 A2 9/1996
WO WO97/36622 A1 10/1997
WO WO98/20931 A1 5/1998
WO WO00/06216 A1 2/2000
WO WO00/15117 A1 3/2000

* cited by examiner

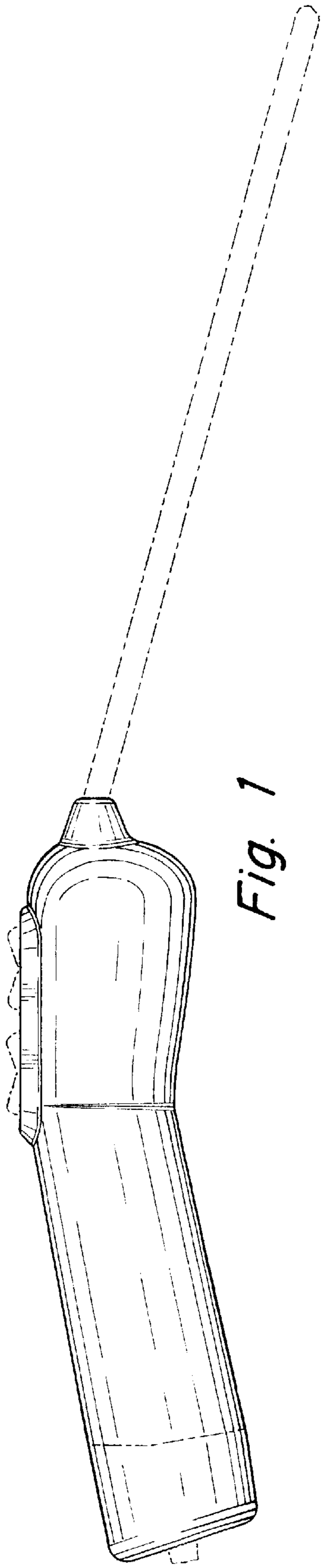


Fig. 1

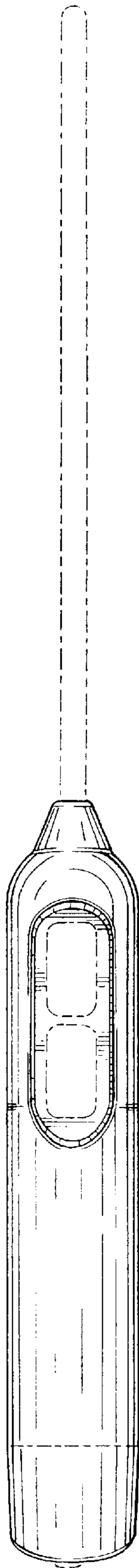


Fig. 2

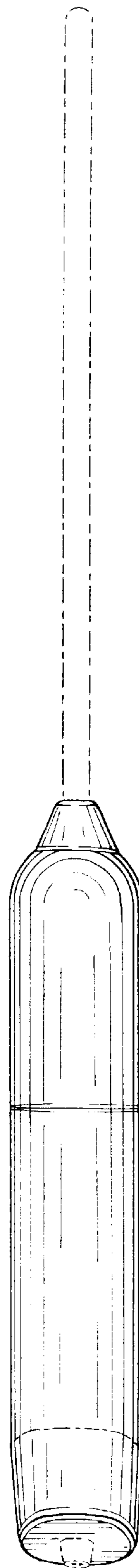


Fig. 3

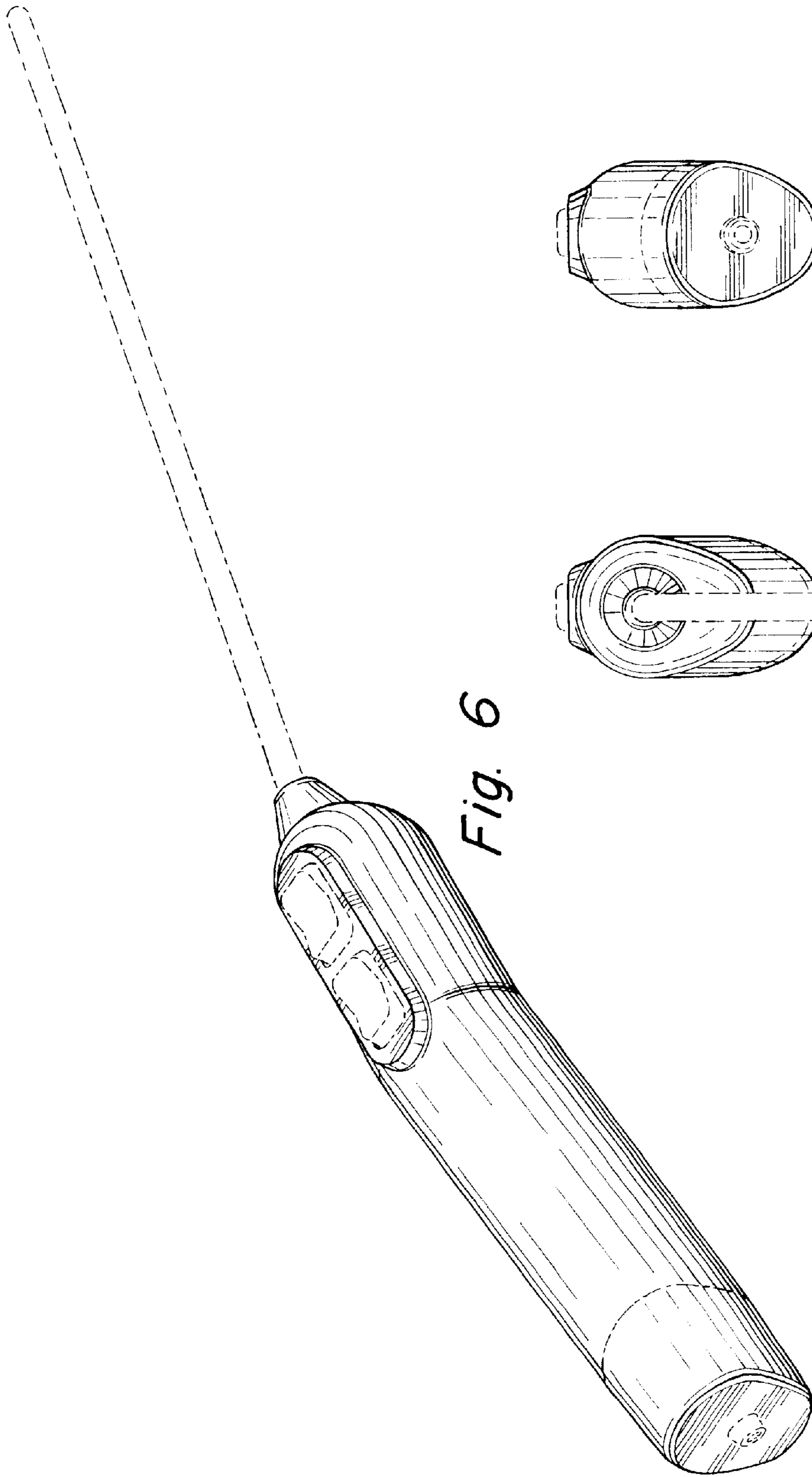


Fig. 6

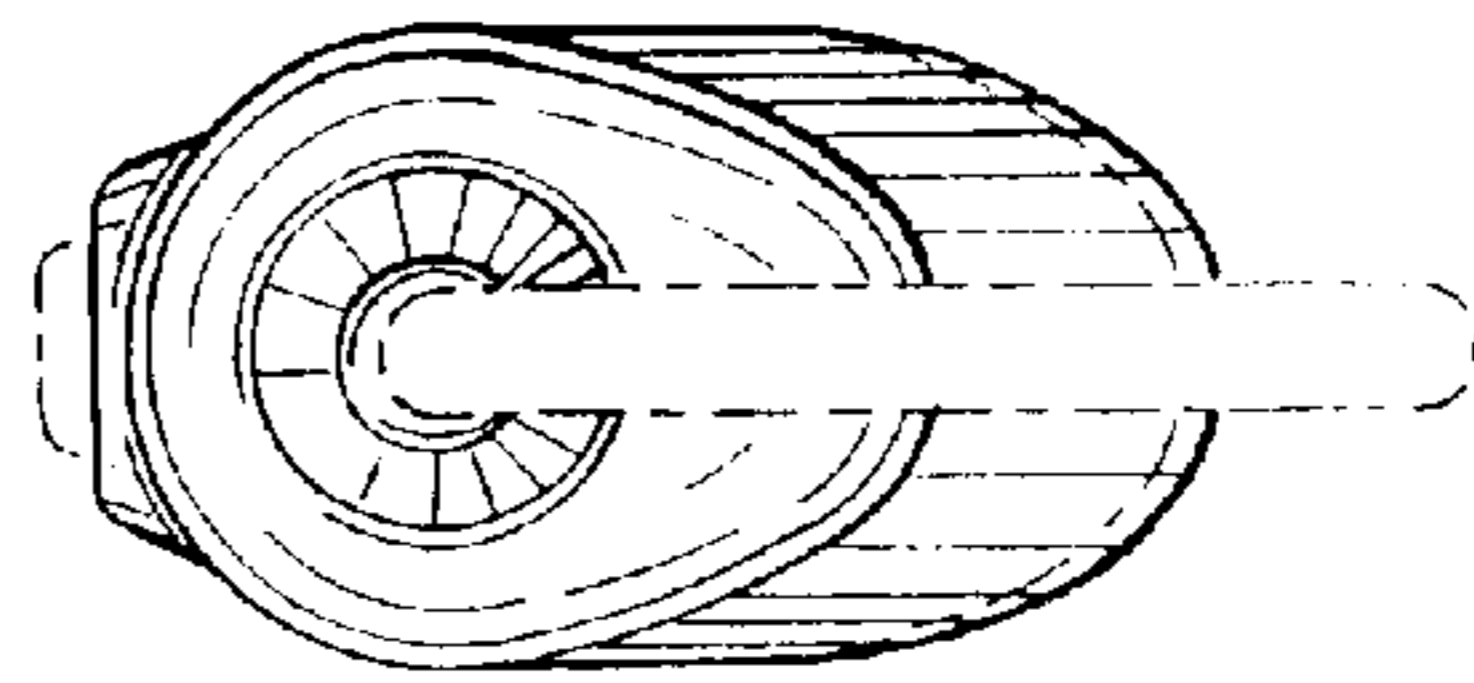


Fig. 4

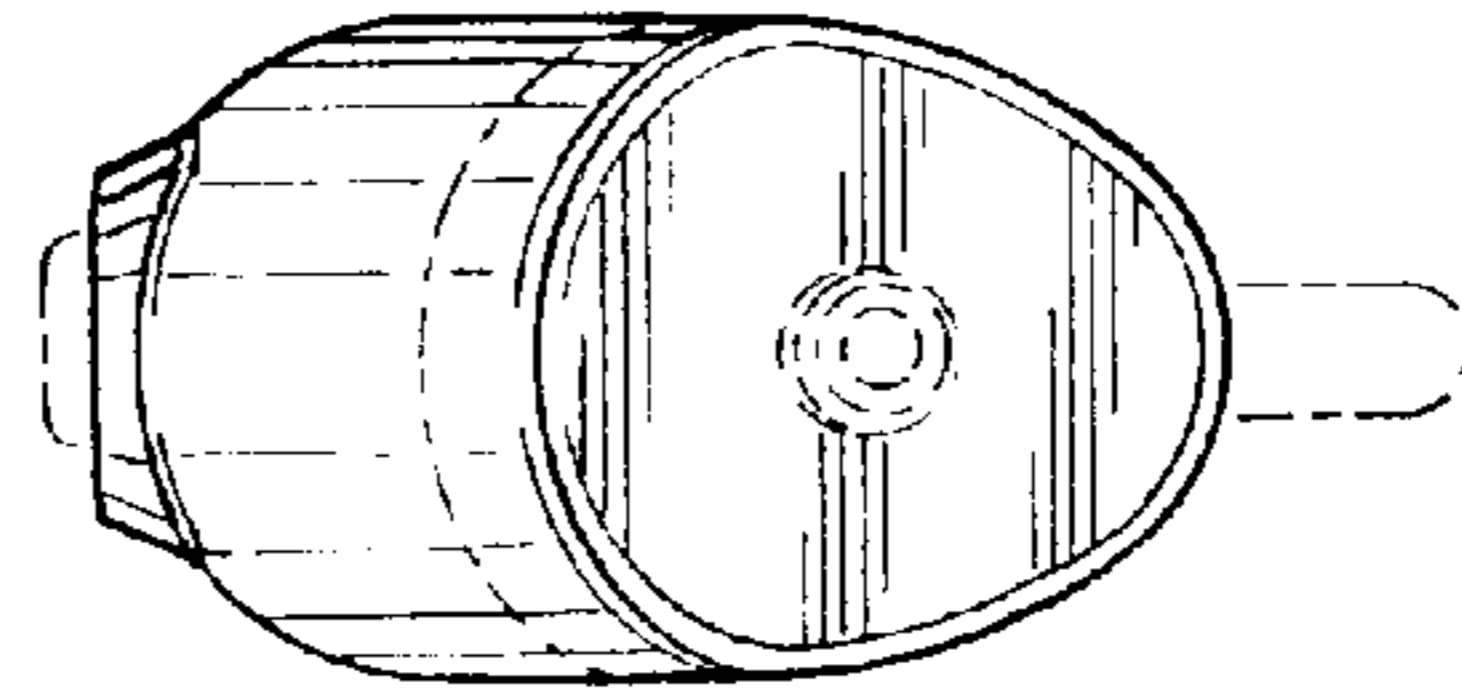
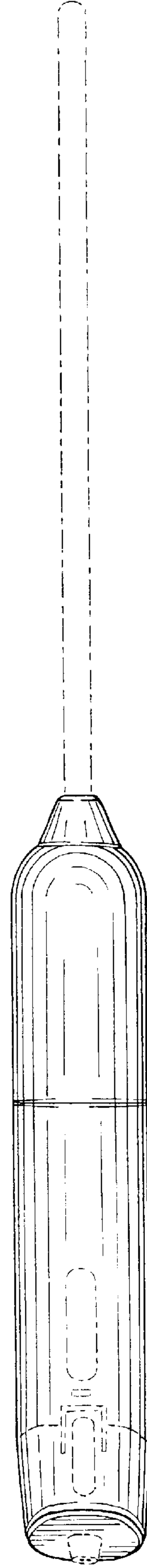
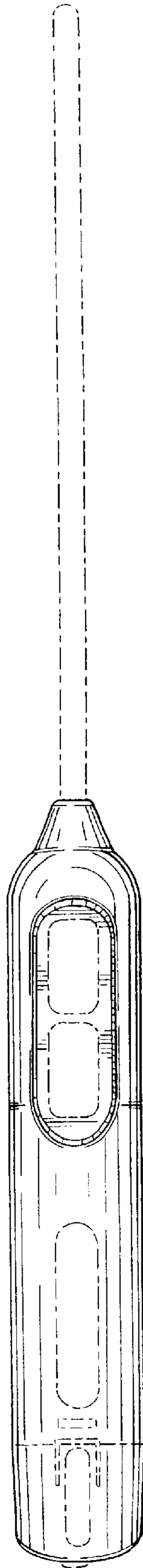
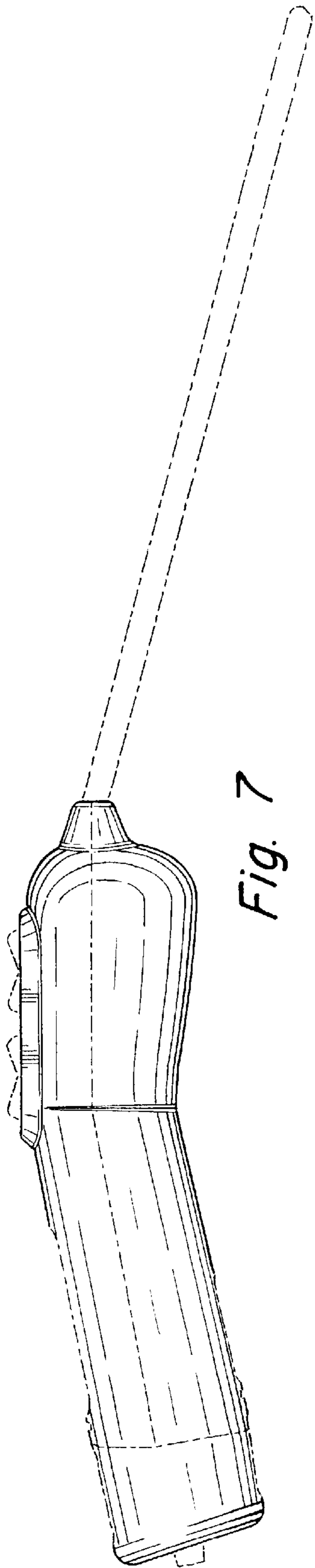


Fig. 5



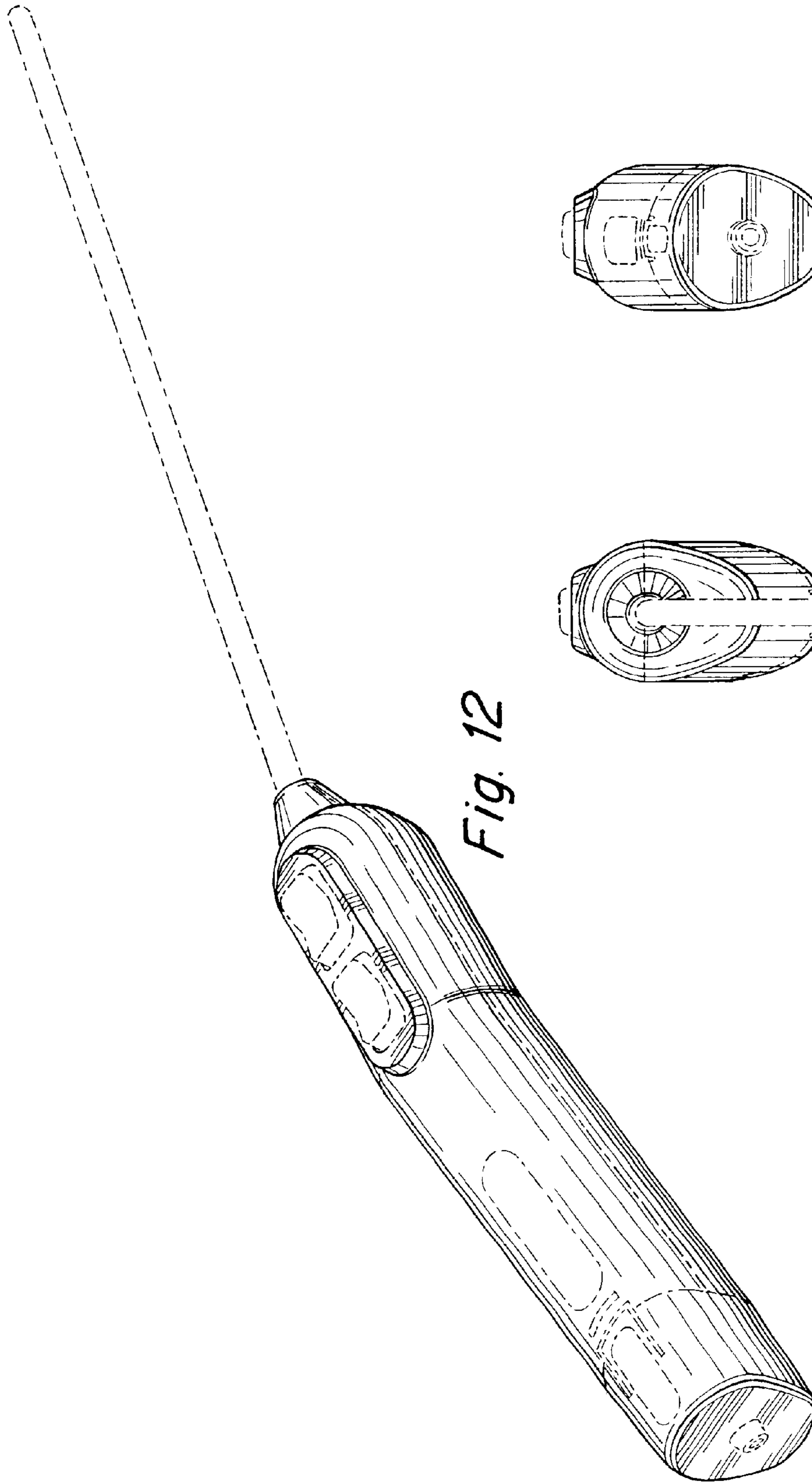


Fig. 12

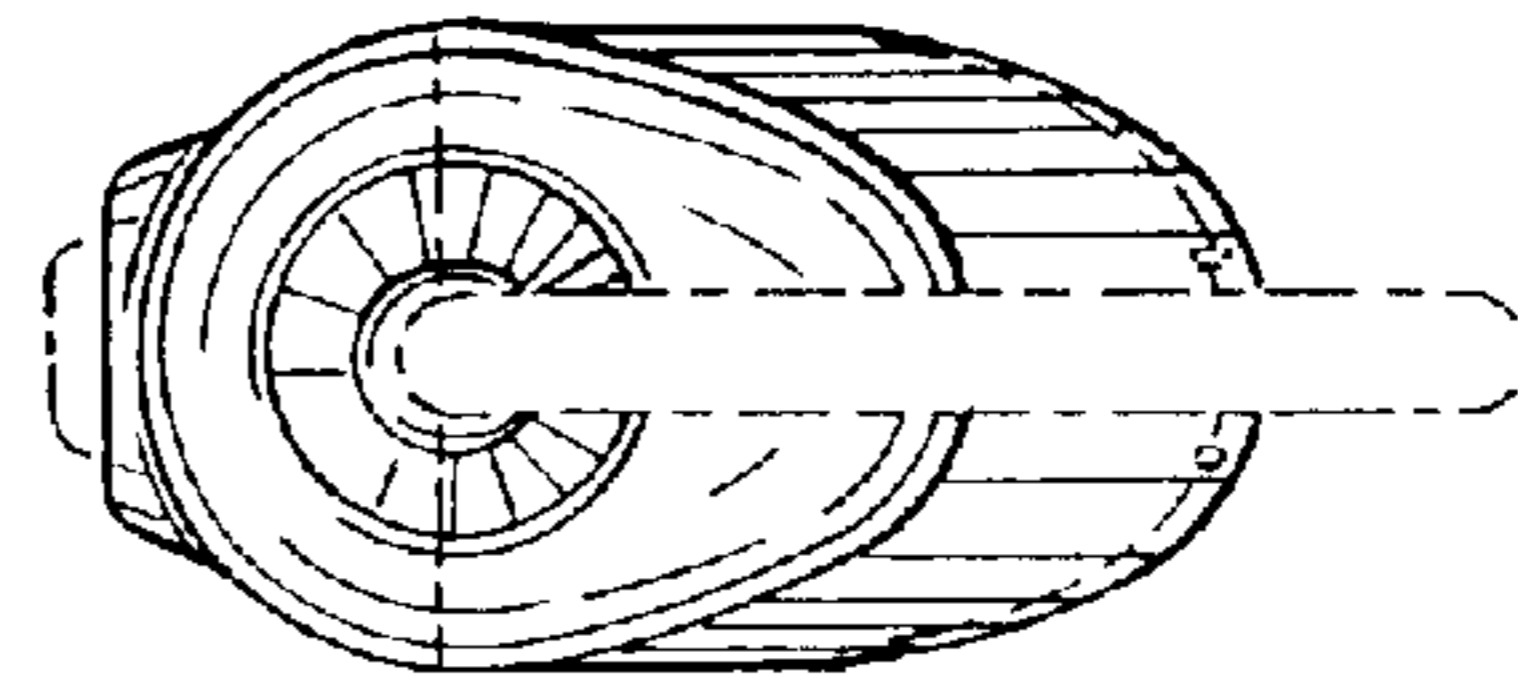


Fig. 10

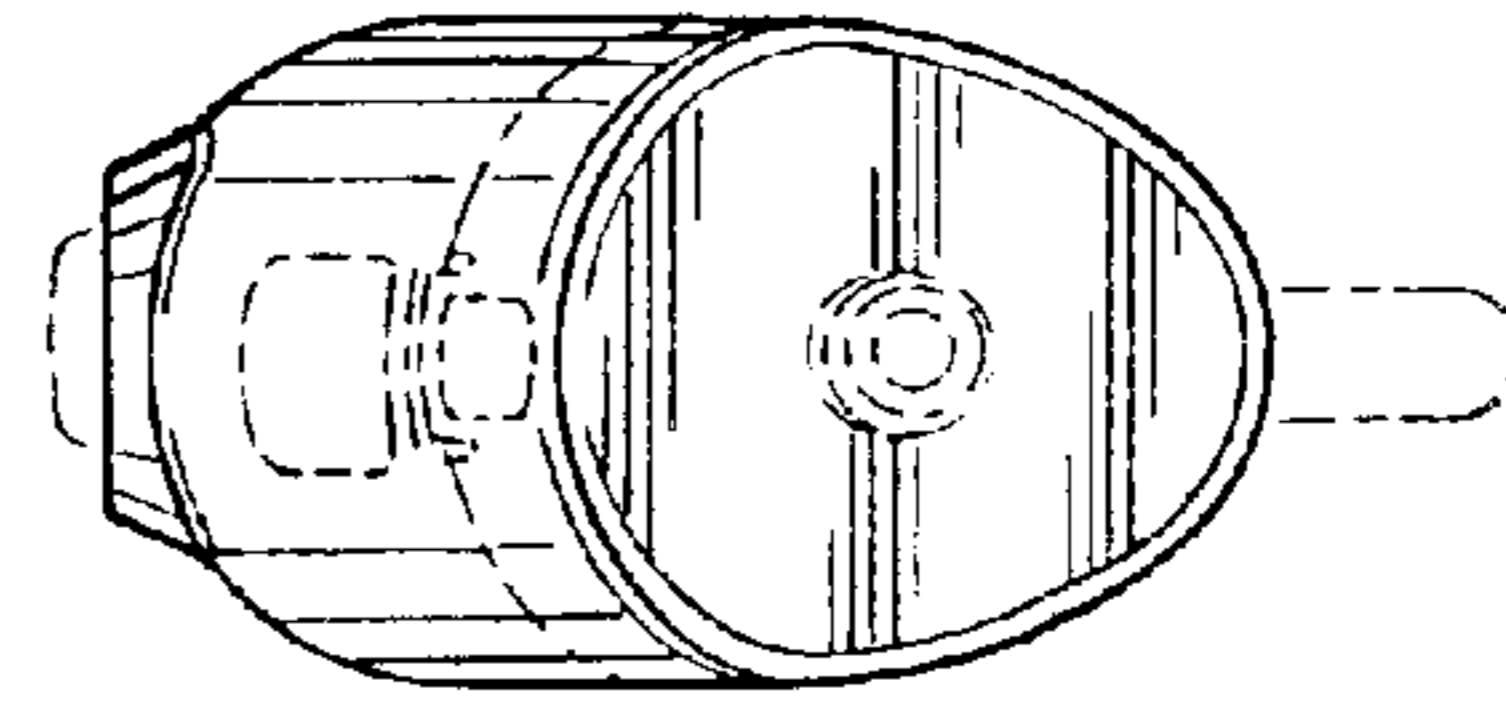


Fig. 11