

### US00D554549S

# (12) United States Design Patent (10) Patent No.:

Amamiya et al.

US D554,549 S

(45) Date of Patent:

Nov. 6, 2007

### REFRACTOMETER

Inventors: **Hideyuki Amamiya**, Tokyo (JP); Yasuhiko Amagasa, Tokyo (JP);

Takeshi Kubodera, Tokyo (JP)

Assignee: ATAGO Co, Ltd., Tokyo (JP)

14 Years Term:

Appl. No.: 29/234,936

(22)Filed: Jul. 25, 2005

### Foreign Application Priority Data (30)2005-002494 (JP)Jan. 31, 2005

(51)	LOC (8) Cl.	•••••	10-04
(52)	U.S. Cl		D10/78

(58)D10/81; 356/128–137, 243.1, 246

See application file for complete search history.

#### (56)**References Cited**

## U.S. PATENT DOCUMENTS

4,890,916	A	*	1/1990	Rainer 356/135
D348,849	S	*	7/1994	Thompson
6,195,160	В1	*	2/2001	Rainer et al 356/135
D511,980	S	*	11/2005	McFarland et al D10/78

<sup>\*</sup> cited by examiner

Primary Examiner—Antoine D. Davis (74) Attorney, Agent, or Firm—McAndrews, Held & Malloy, Ltd.

#### (57)**CLAIM**

The ornamental design for a refractometer, as substantially shown and described.

### DESCRIPTION

FIG. 1 is a top, front, and right side perspective view of first embodiment of our new design for a refractometer in an open position;

FIG. 2 is a top, front, and right side perspective view thereof in a closed position;

FIG. 3 is a top plan view thereof in a closed position;

FIG. 4 is a bottom plan view thereof in a closed position;

FIG. 5 is a right side elevation view thereof in a closed position, the left side being a mirror image thereof;

FIG. 6 is a rear elevation view thereof in a closed position;

FIG. 7 is a front elevation view thereof in a closed position;

FIG. 8 is a top, front, and right side perspective view of a second embodiment of our new design for a refractometer in an open position;

FIG. 9 is a top, front, and right side perspective view thereof in a closed position;

FIG. 10 is a top plan view thereof in a closed position;

FIG. 11 is a bottom plan view thereof in a closed position;

FIG. 12 is a right side elevation view thereof in a closed position, the left side being a mirror image thereof;

FIG. 13 is a front elevation view thereof in a closed position;

FIG. 14 is a rear elevation view thereof in a closed position;

FIG. 15 is a top, front, and right side perspective view of a third embodiment of our new design for a refractometer in an open position;

FIG. 16 is a top, front, and right side perspective view thereof in a closed position;

FIG. 17 is a top plan view thereof in a closed position;

FIG. 18 is a bottom plan view thereof in a closed position;

FIG. 19 is a right side elevation view thereof in a closed position, the left side being a mirror image thereof;

FIG. 20 is a rear elevation view thereof in a closed position;

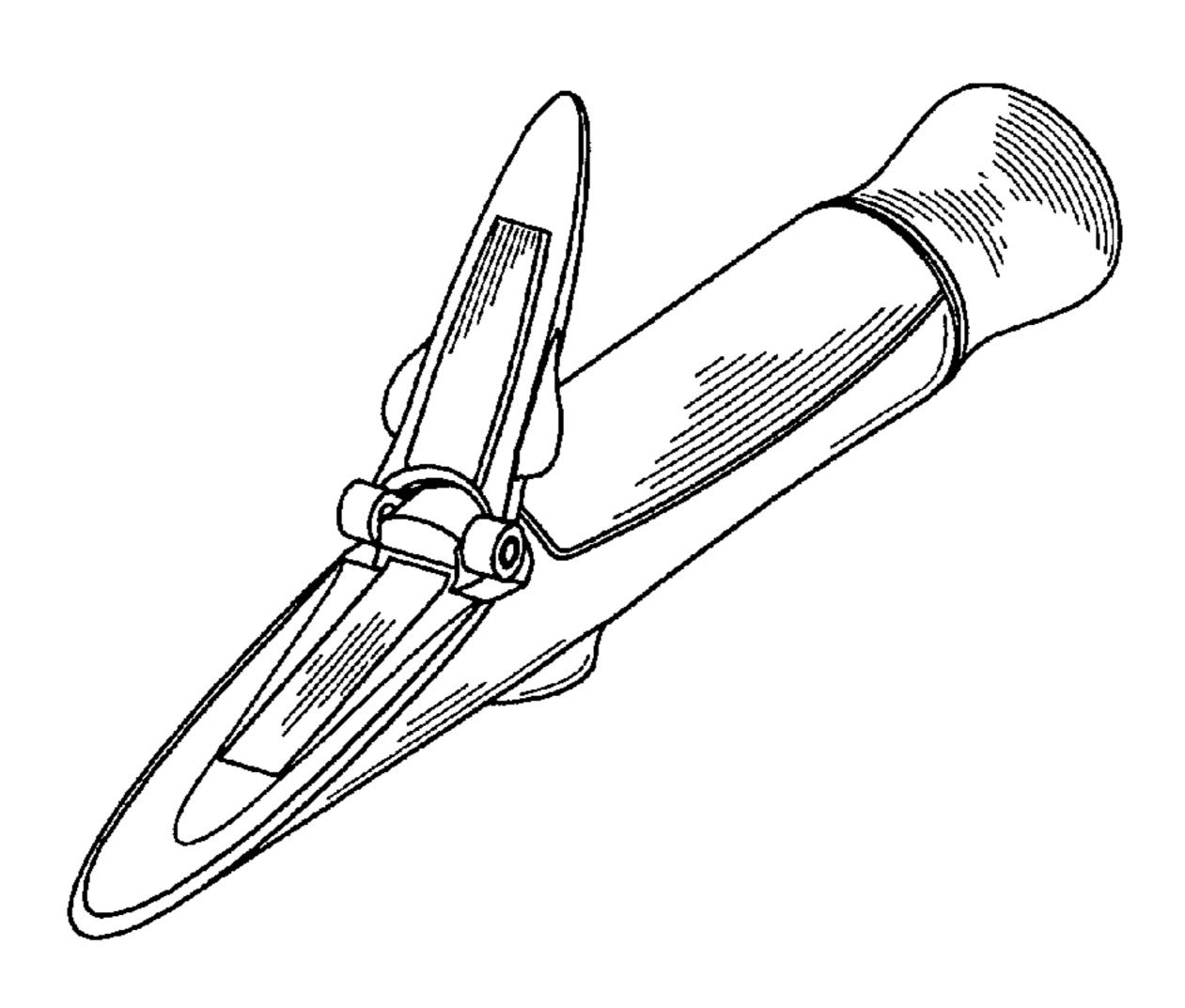


FIG. 21 is a front elevation view thereof in a closed position;

FIG. 22 is a top, front, and right side perspective view of a fourth embodiment of our new design for a refractometer in an open position;

FIG. 23 is a top, front, and right side perspective view thereof in a closed position;

FIG. 24 is a top plan view thereof in a closed position;

FIG. 25 is a bottom plan view thereof in a closed position;

FIG. 26 is a right side elevation view thereof in a closed position, the left side being a mirror image thereof;

FIG. 27 is a front elevation view thereof in a closed position; and,

FIG. 28 is a rear elevation view thereof in a closed position.

### 1 Claim, 8 Drawing Sheets

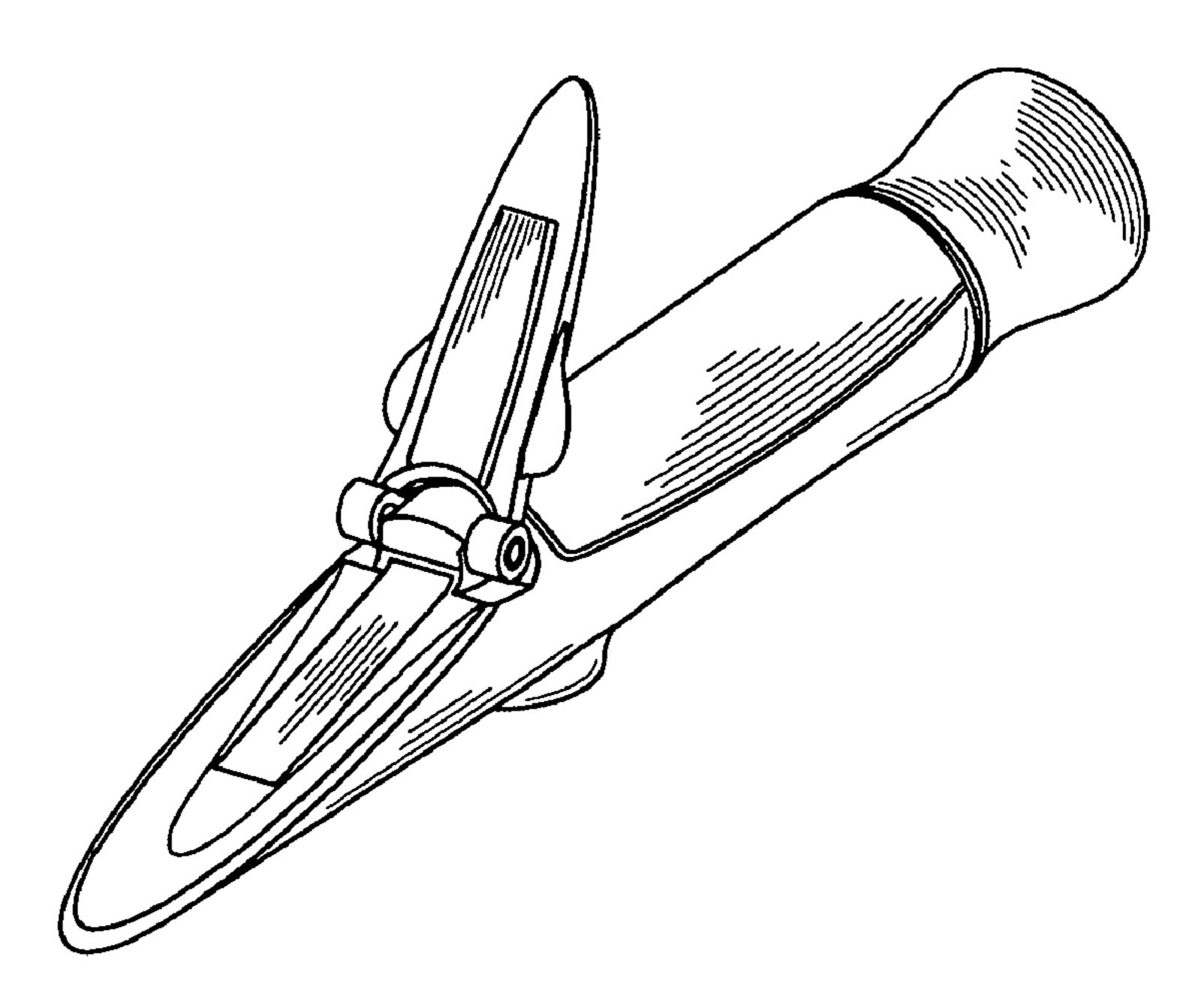


FIG. 1

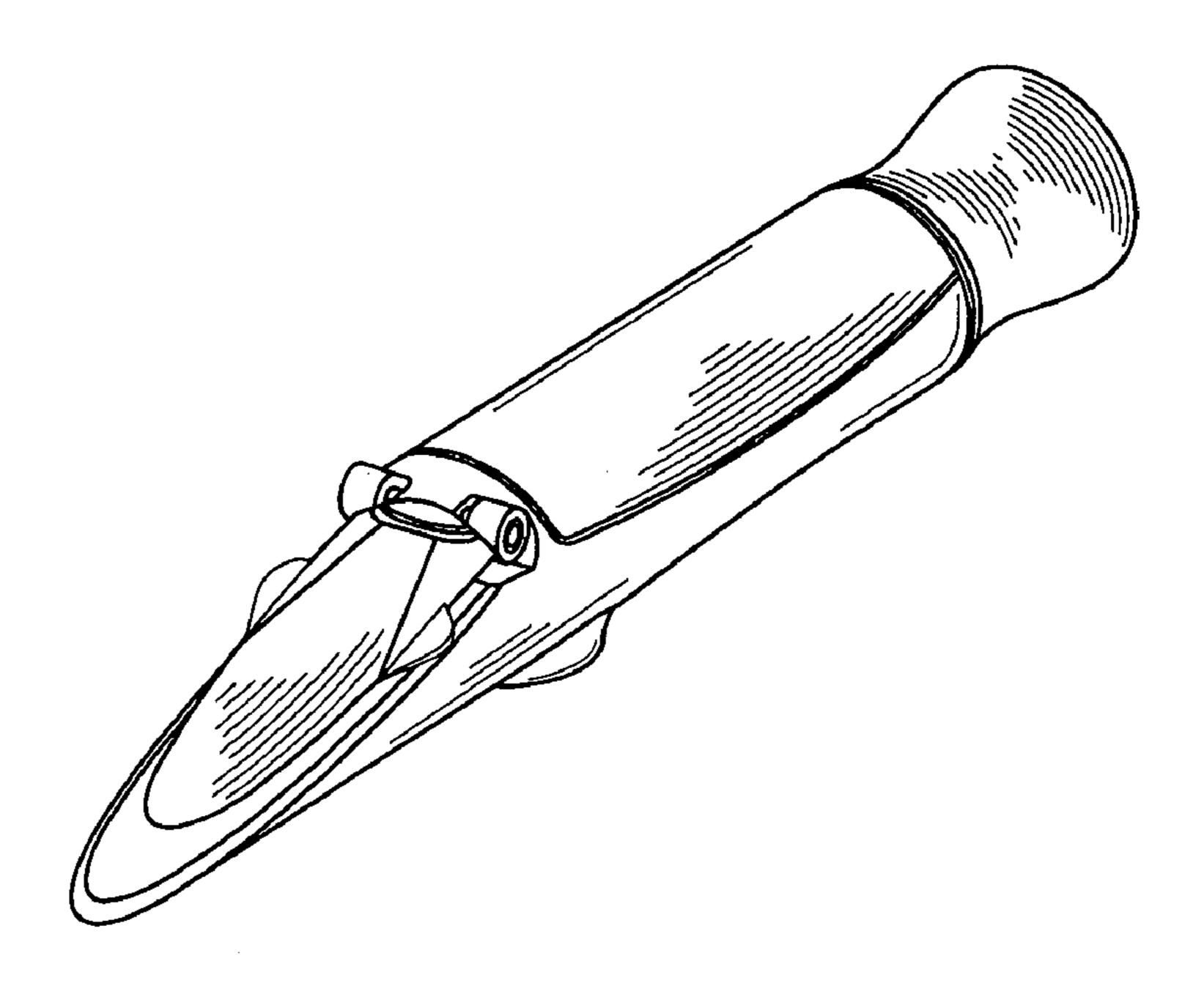
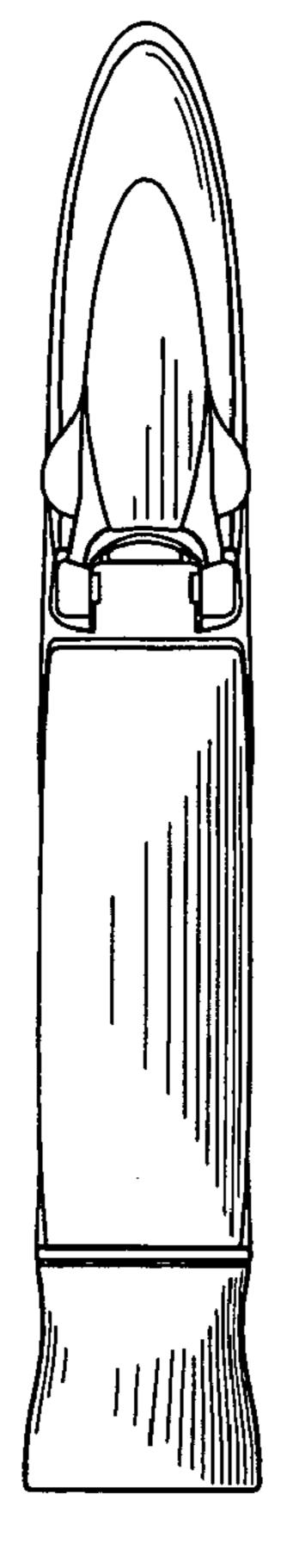


FIG. 2





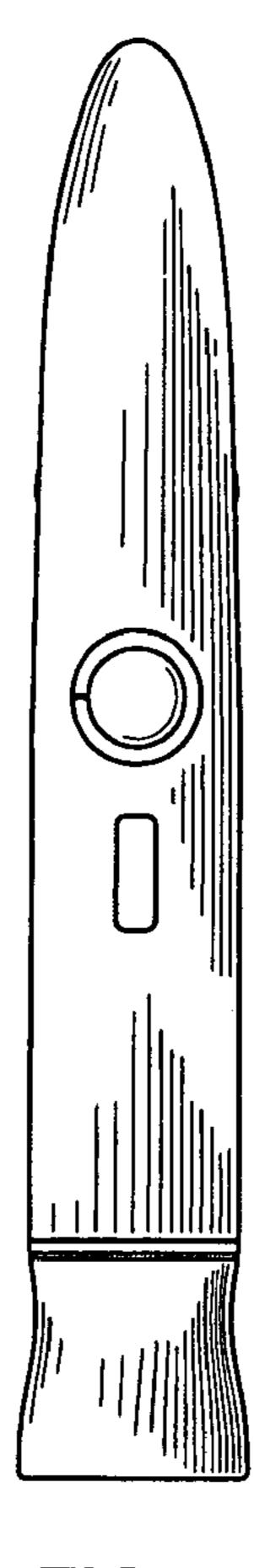


FIG. 4

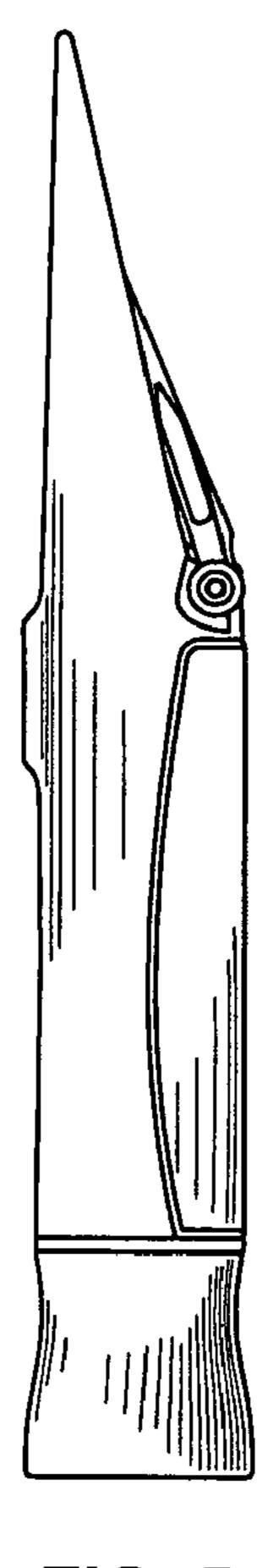


FIG. 5

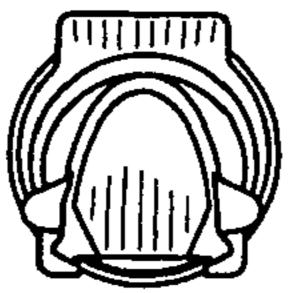


FIG. 6

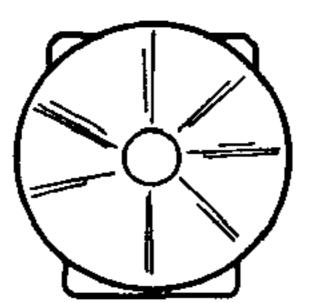


FIG. 7

Nov. 6, 2007

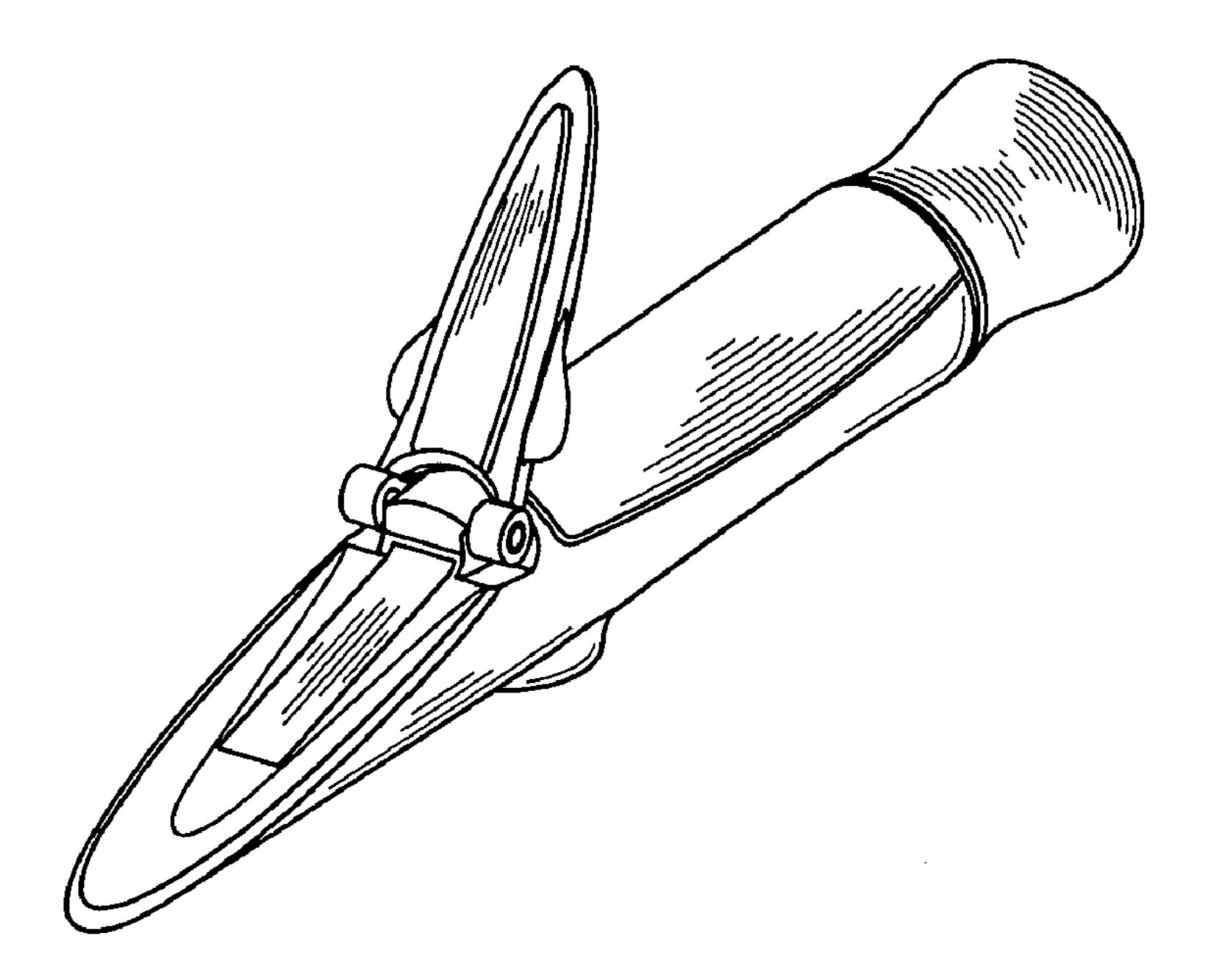


FIG. 8

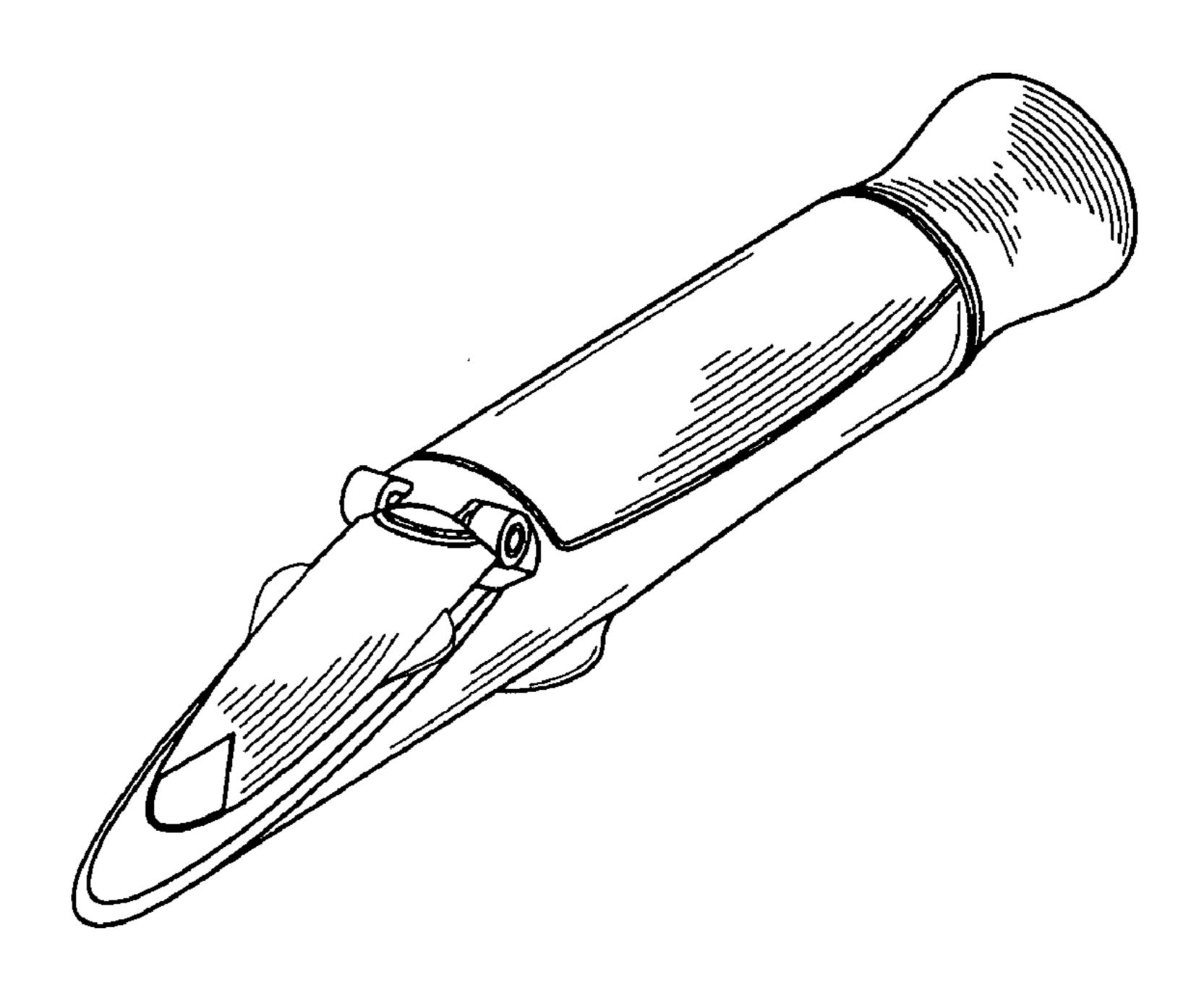
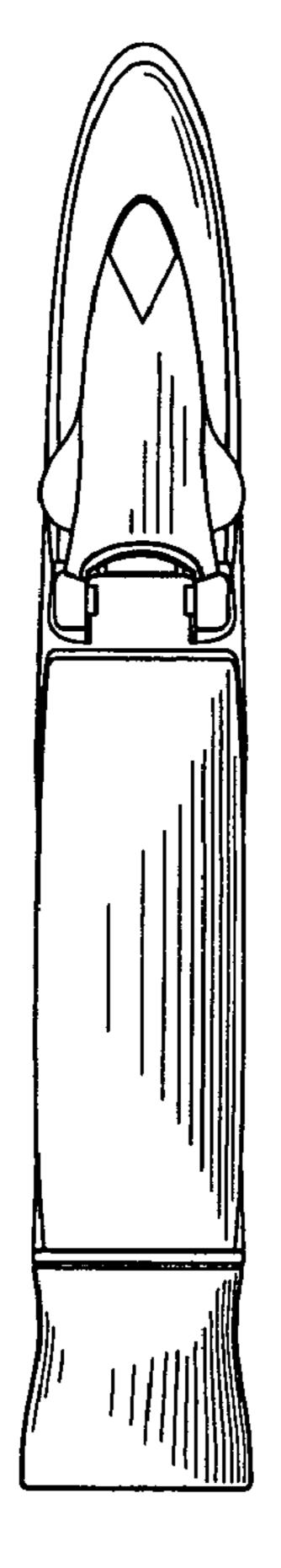


FIG. 9

Nov. 6, 2007





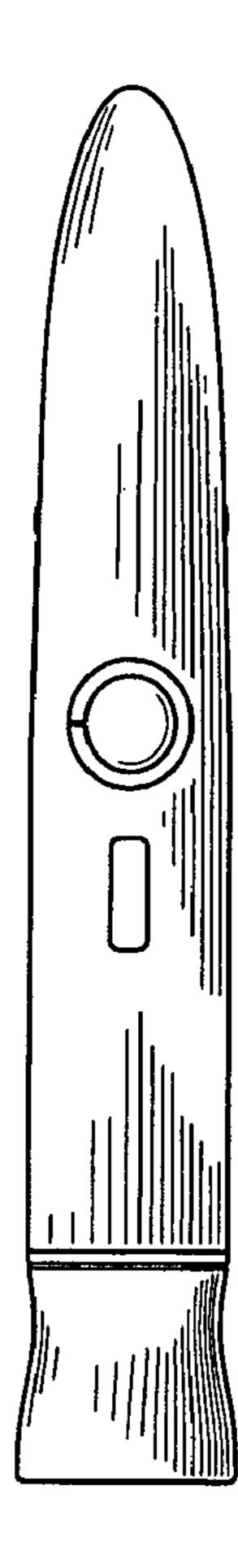


FIG. 11

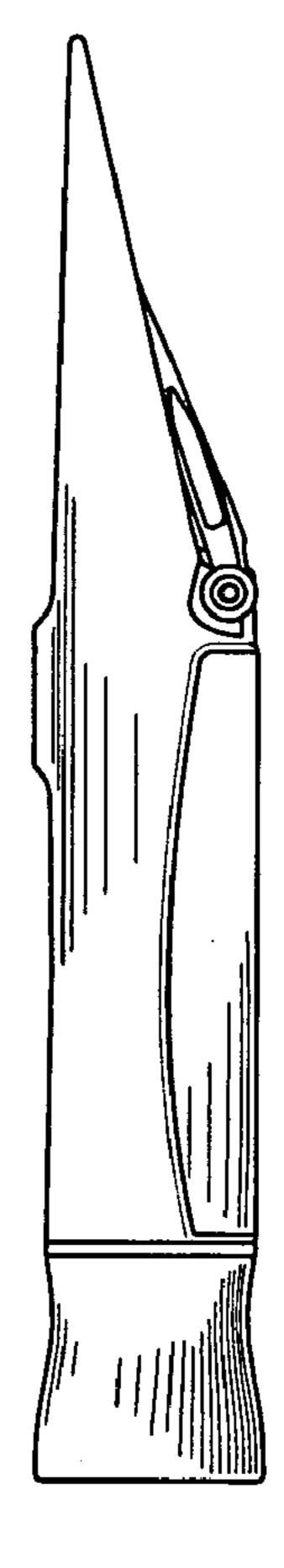


FIG. 12

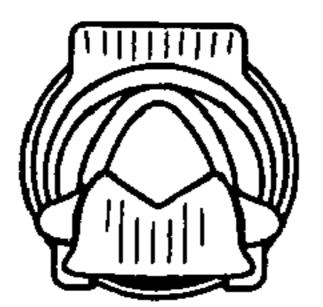


FIG. 13

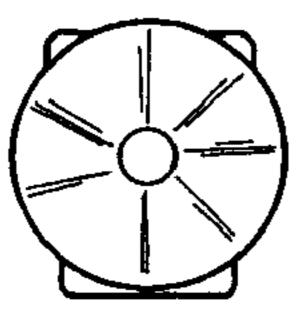


FIG. 14

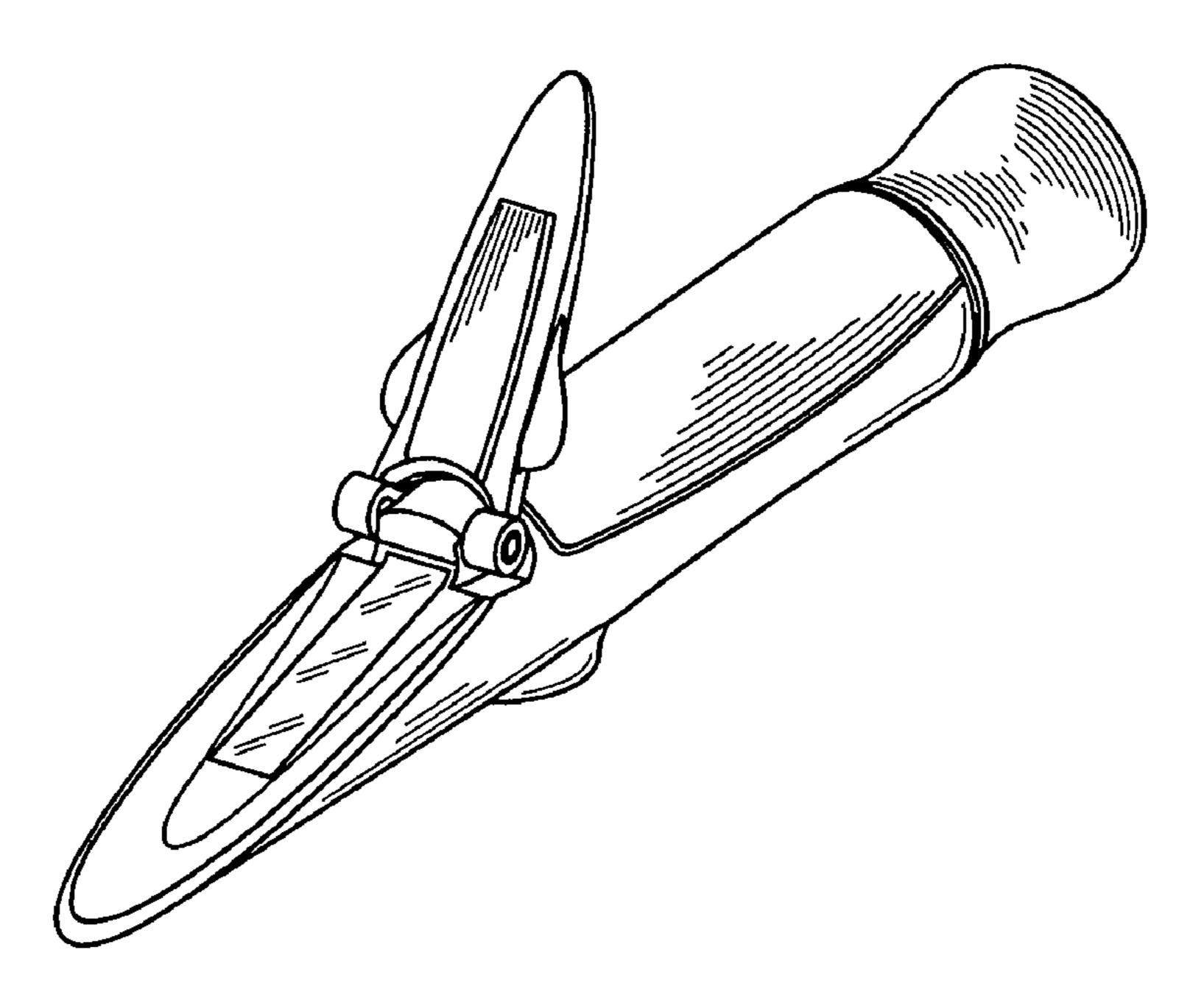


FIG. 15

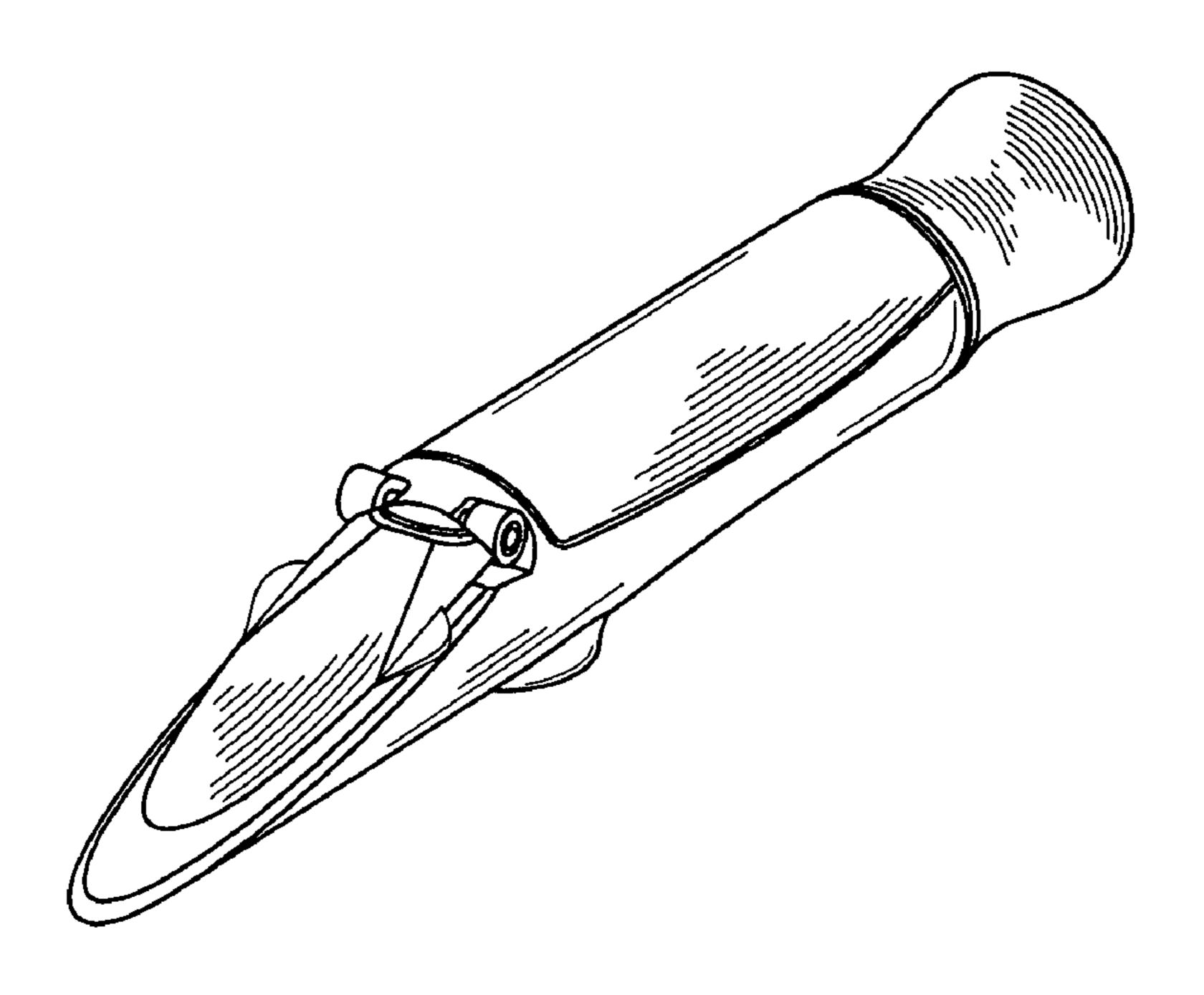
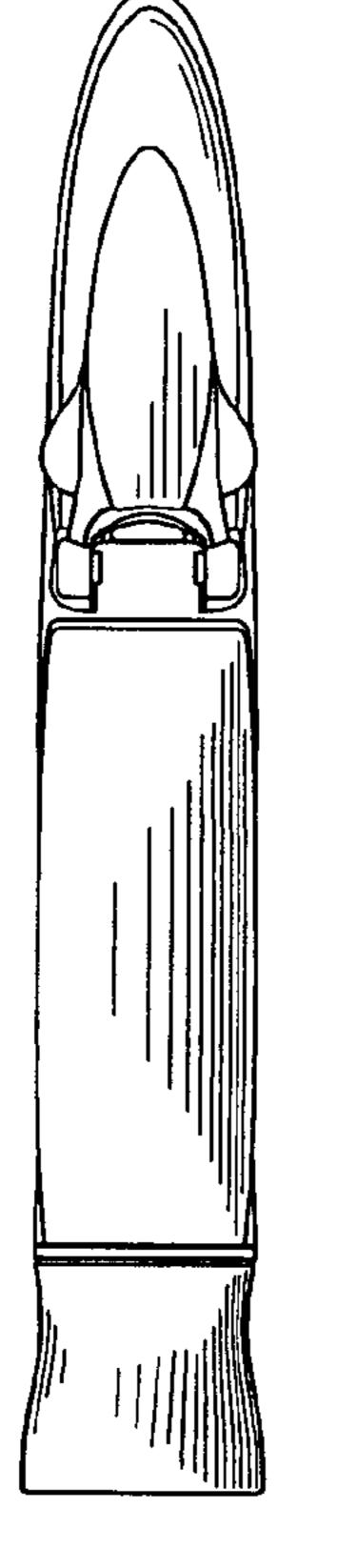


FIG. 16





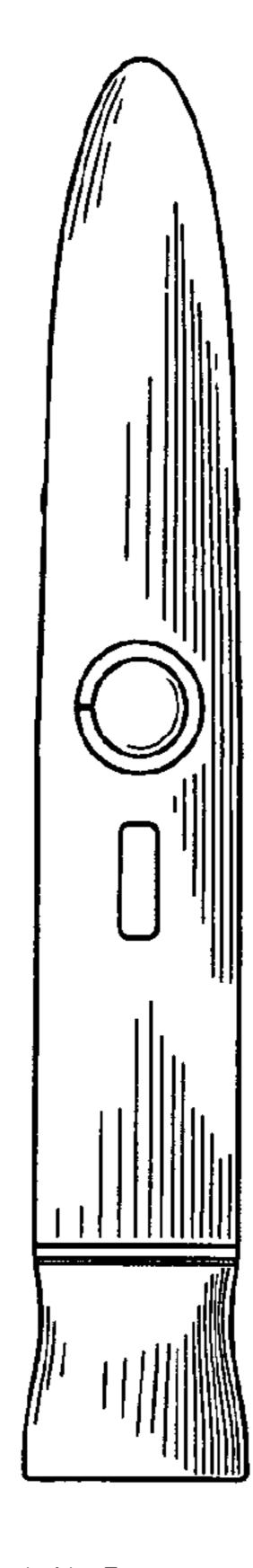


FIG. 18

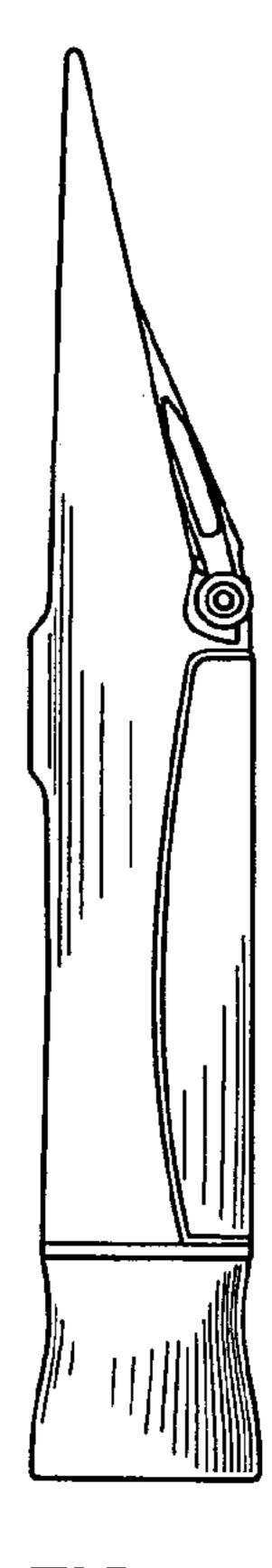


FIG. 19

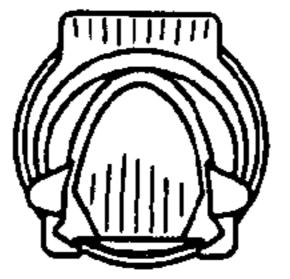


FIG. 20

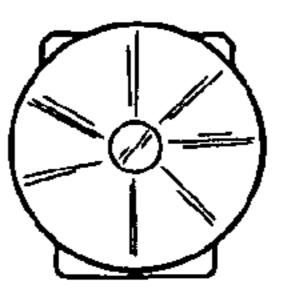


FIG. 21

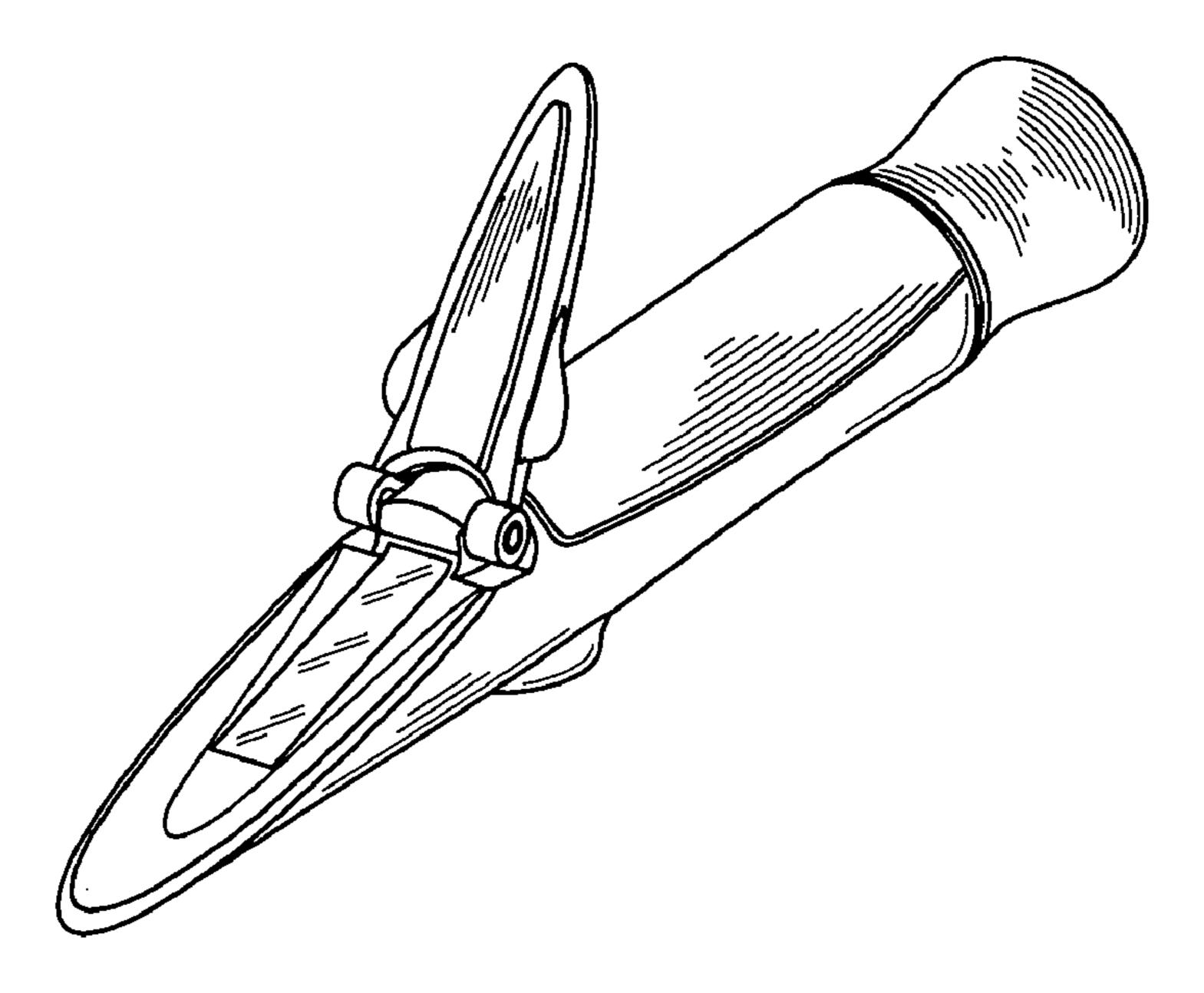


FIG. 22

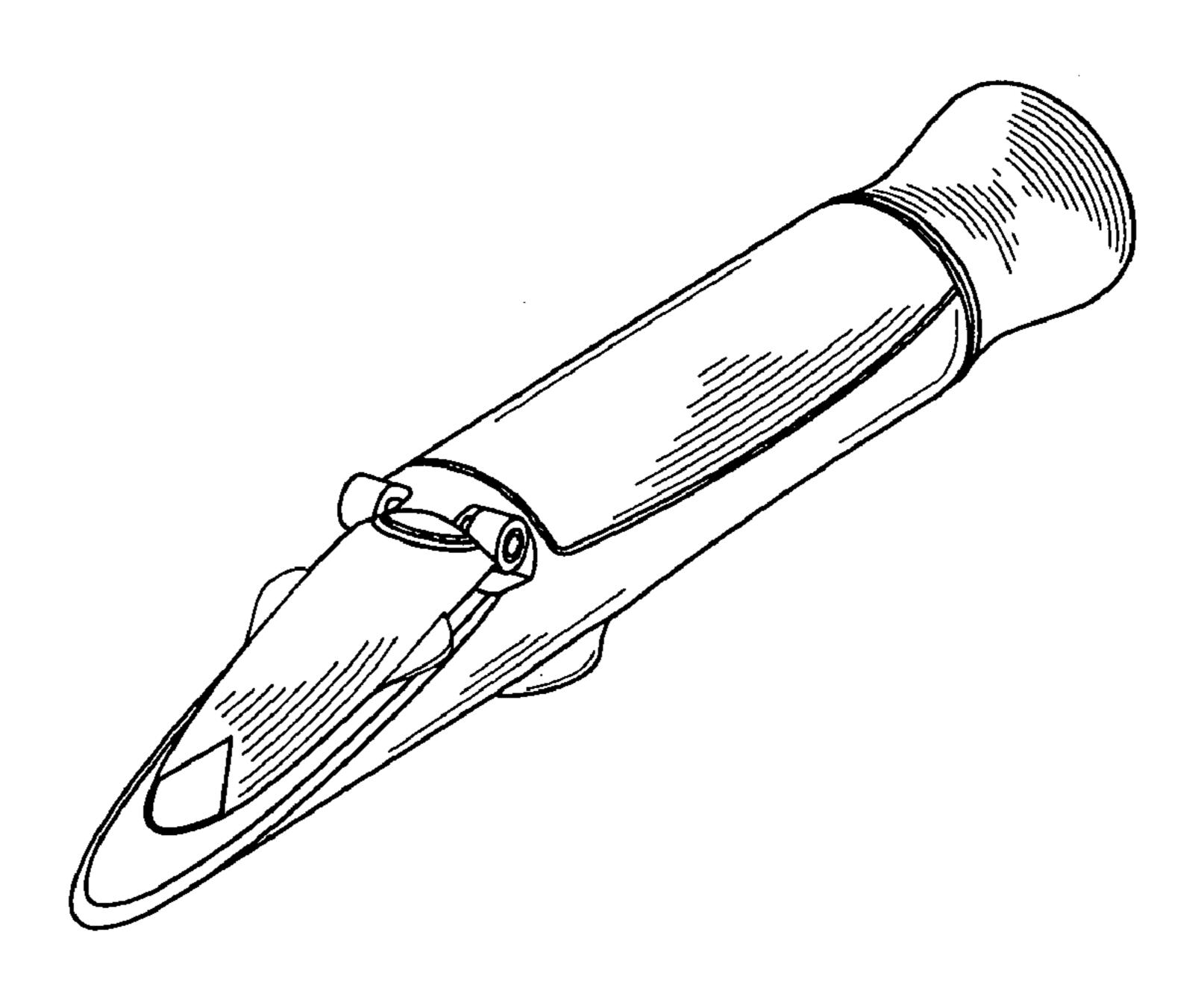
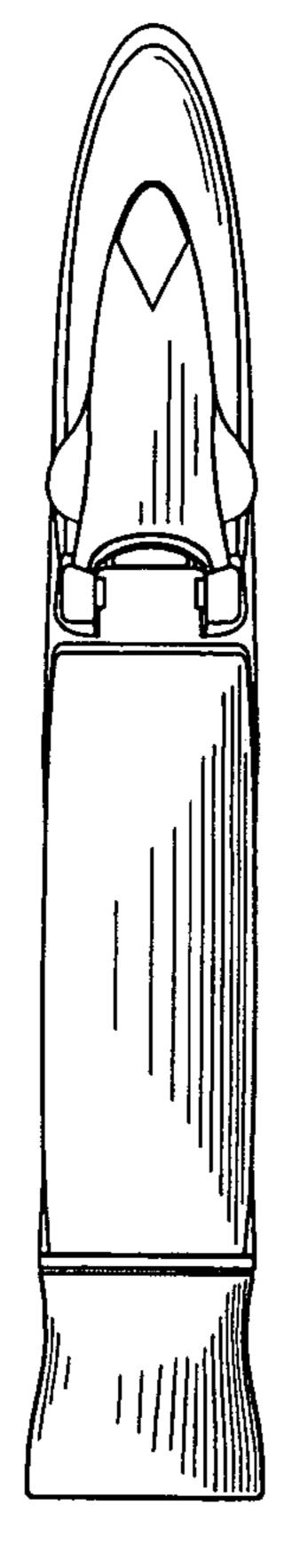


FIG. 23





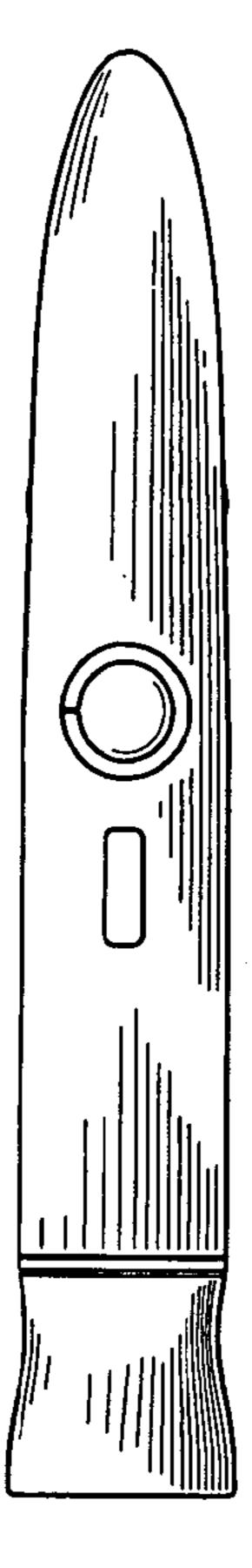


FIG. 25

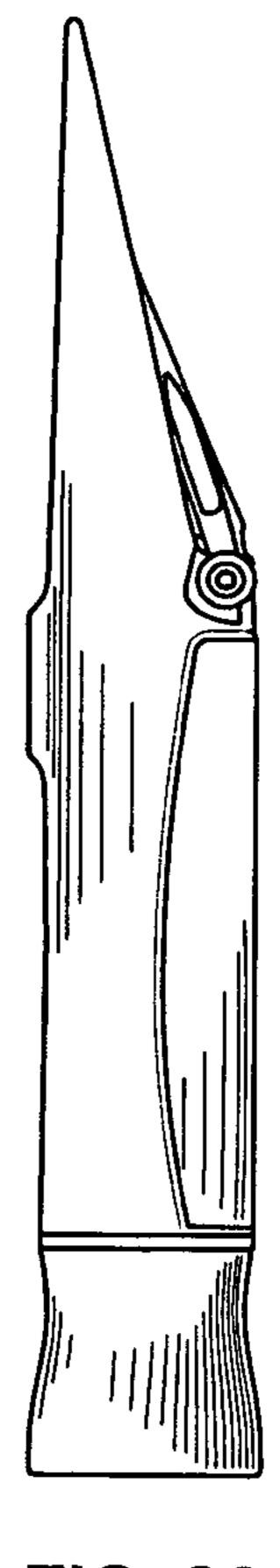


FIG. 26

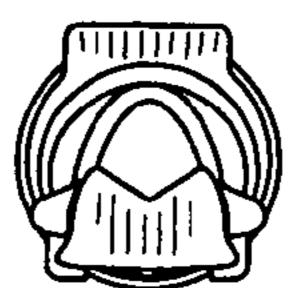


FIG. 27

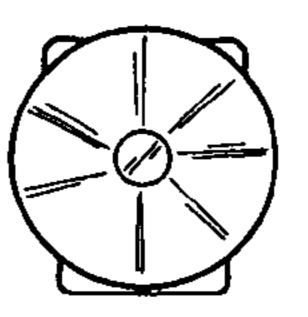


FIG. 28