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

(10) **Patent No.:** **US D689,354 S**

(45) **Date of Patent:** **** Sep. 10, 2013**

(54) **ABRASION DEVICE WITH REFERENCE RING AND ABRASIVE TIP**

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(73) Assignee: **Echo Therapeutics, Inc.**, Philadelphia, PA (US)

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

(21) Appl. No.: **29/392,348**

(22) Filed: **May 19, 2011**

(51) **LOC (9) Cl.** **08-01**

(52) **U.S. Cl.**
USPC **D8/61**

(58) **Field of Classification Search**
USPC D8/61, 62, 67, 69; 81/57, 57.11, 81/57.14, 57.26, 429, 464, 469; 173/2, 170, 173/176, 181; D28/53, 54
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,525,889	A	*	6/1996	Chan et al.	173/217
D470,374	S	*	2/2003	Murray	D8/61
D474,086	S	*	5/2003	Heun	D8/61
D484,022	S	*	12/2003	Tsai	D8/107

(Continued)

OTHER PUBLICATIONS

Greenemeier, "This really won't hurt a bit: Wireless sensor promises diabetics noninvasive blood sugar readings", Scientific American, published Mar. 31, 2010, <http://www.scientificamerican.com/article.cfm?id=wireless-blood-glucose-diabetes>, accessed Apr. 1, 2011.

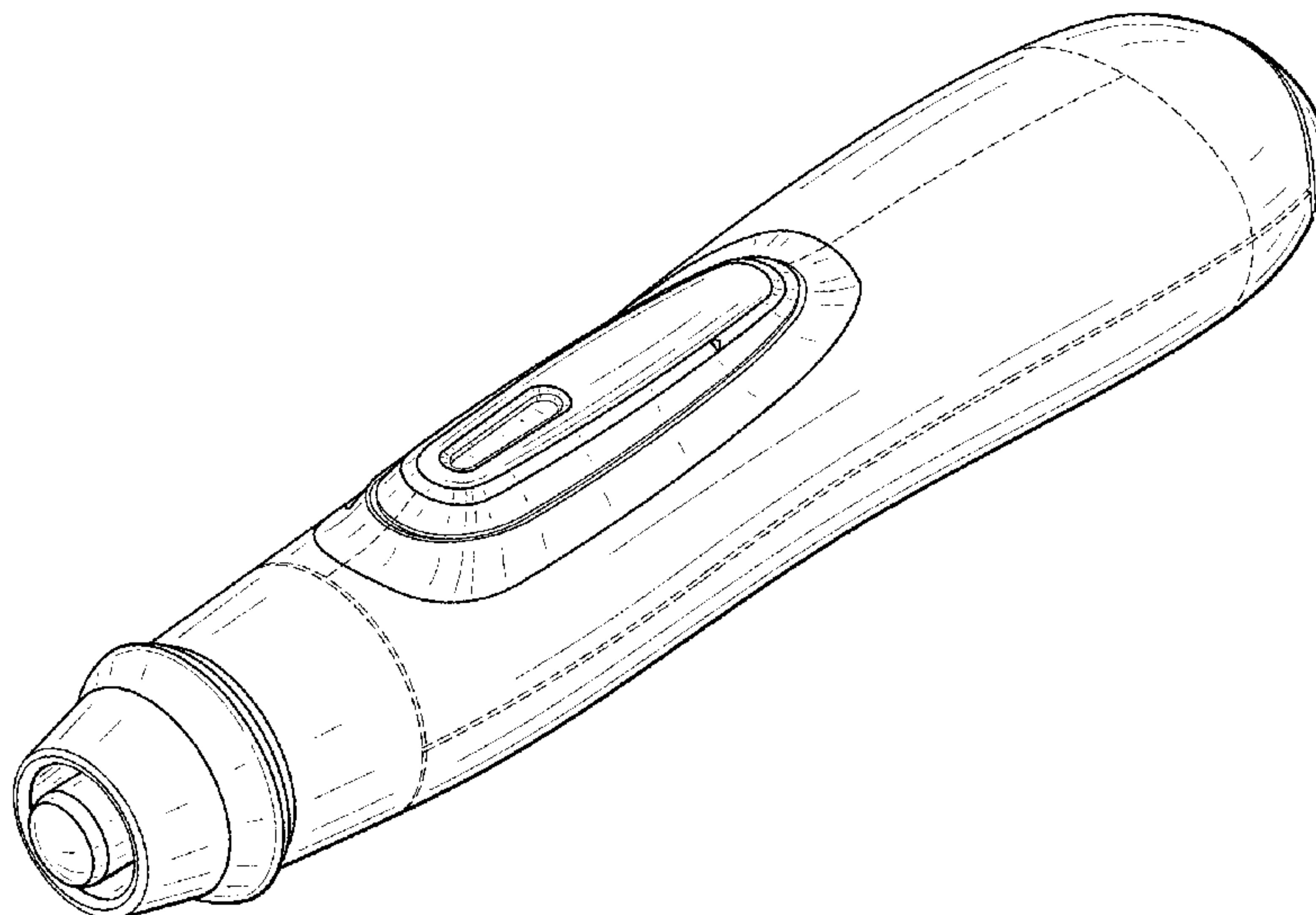
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(57) **CLAIM**
We claim the ornamental design for the abrasion device with reference ring and abrasive tip, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of an abrasion device with a reference ring and an abrasive tip showing our new design; FIG. 2 is a front perspective view; FIG. 3 is a back perspective view; FIG. 4 is a side elevational view, the opposite side elevational view being a mirror image thereof; FIG. 5 is a top elevational view; FIG. 6 is a bottom elevational view; FIG. 7 is a top perspective view of a reference ring for the device showing our new design; FIG. 8 is a front elevational view; FIG. 9 is a back elevational view; FIG. 10 is a side elevational view, the opposite side elevational view being a mirror image thereof; FIG. 11 is a back perspective view of an abrasive tip for the device showing our new design; FIG. 12 is a back elevational view; FIG. 13 is a front elevational view; FIG. 14 is a side elevational view; FIG. 15 is the opposite side elevational view; and, FIG. 16 is a front perspective view of the device without a reference ring or an abrasive tip showing our new design. The broken lines are for illustrative purposes only and form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D531,472 S * 11/2006 Schiller et al. D8/61
D556,000 S * 11/2007 Singh et al. D8/61
D565,916 S * 4/2008 Chen D8/61
D569,205 S * 5/2008 Lai D8/61
D586,195 S * 2/2009 Okuda D8/61

D593,387 S * 6/2009 Liao D8/68
D618,079 S * 6/2010 Blythe et al. D8/61
D641,222 S * 7/2011 Molina et al. D8/61
D657,646 S * 4/2012 Schoch et al. D8/61
D663,180 S * 7/2012 Jerome et al. D8/61
D677,540 S * 3/2013 Meyers et al. D8/61

* cited by examiner

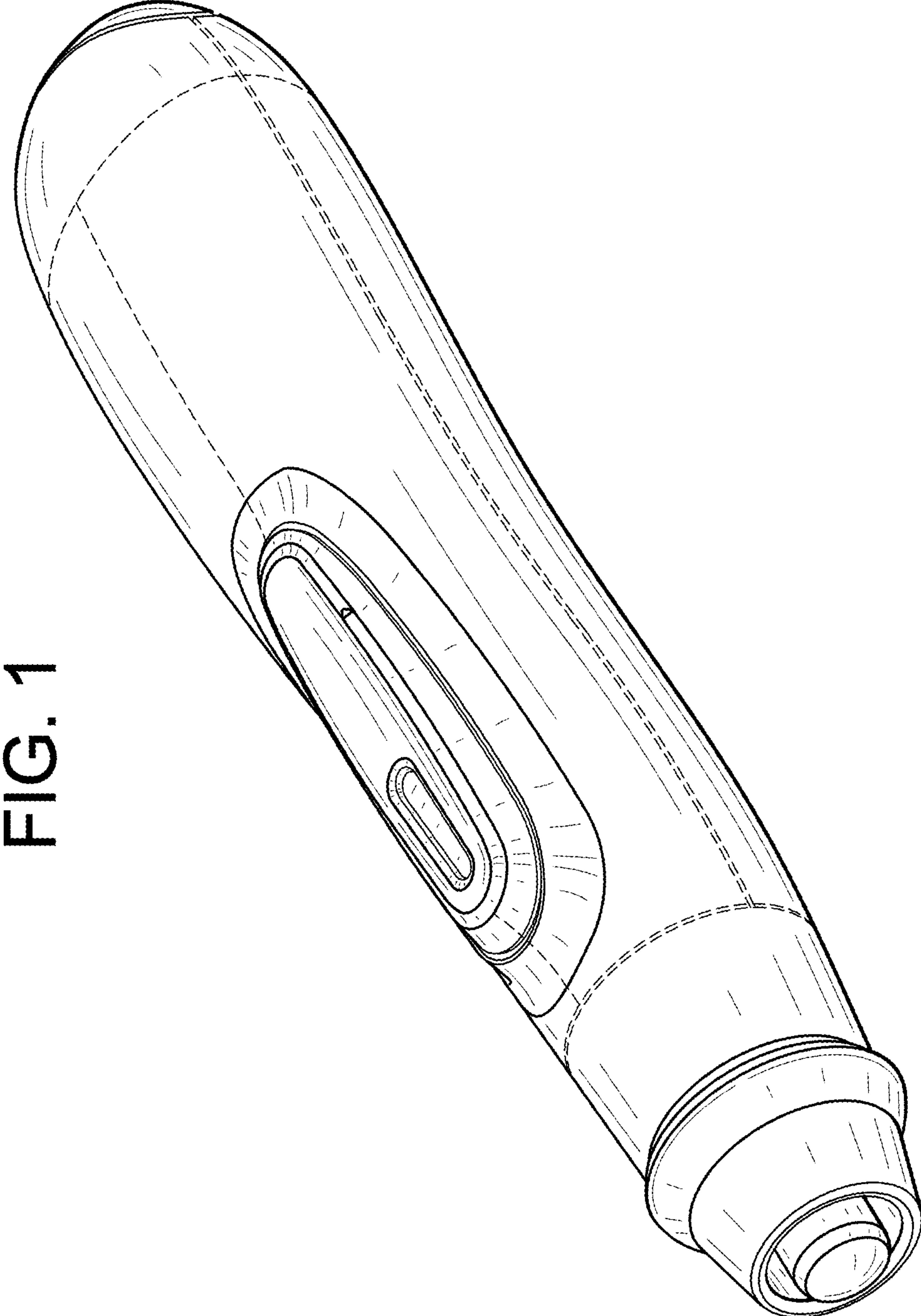


FIG. 1

FIG. 2

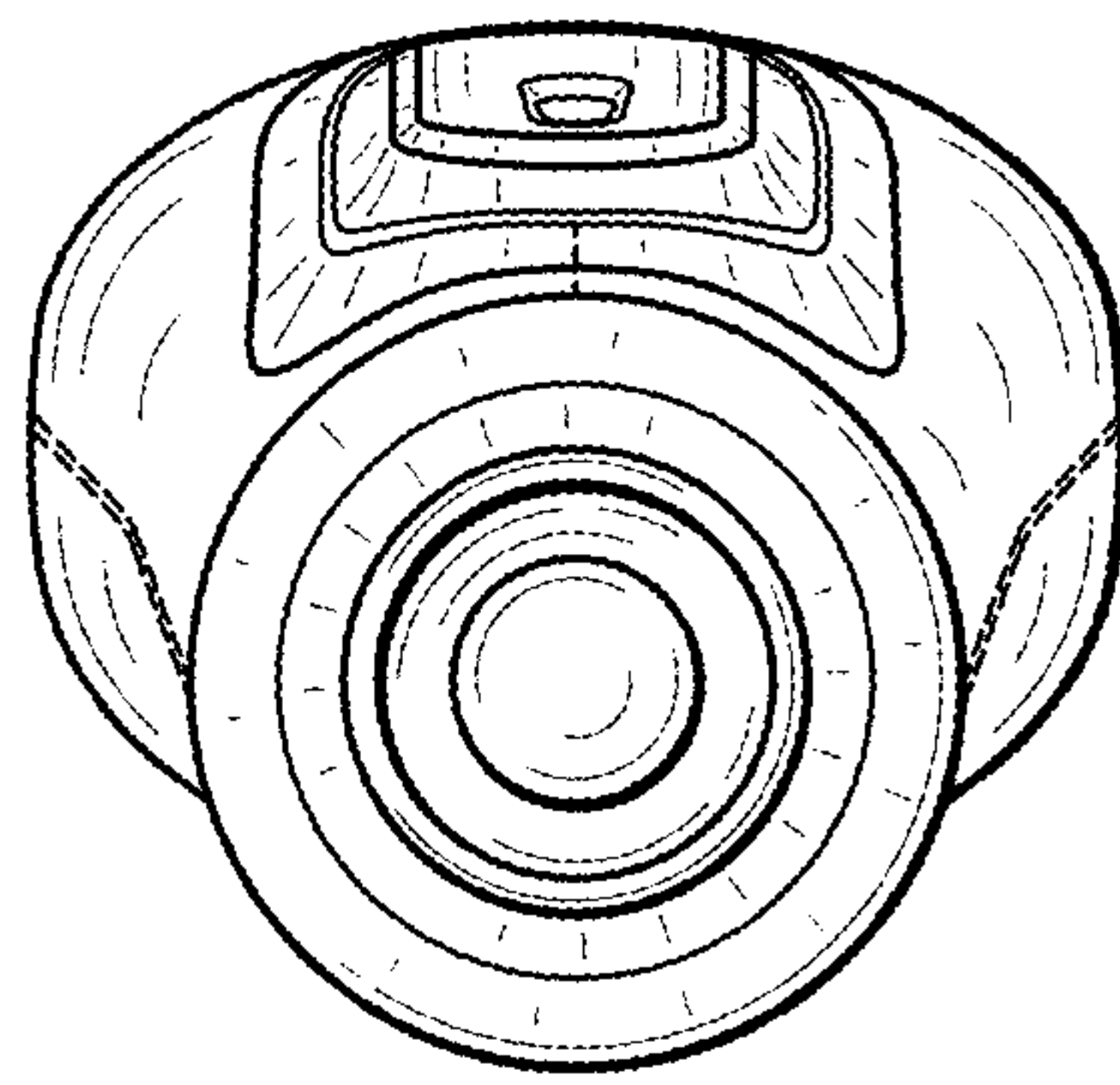


FIG. 3

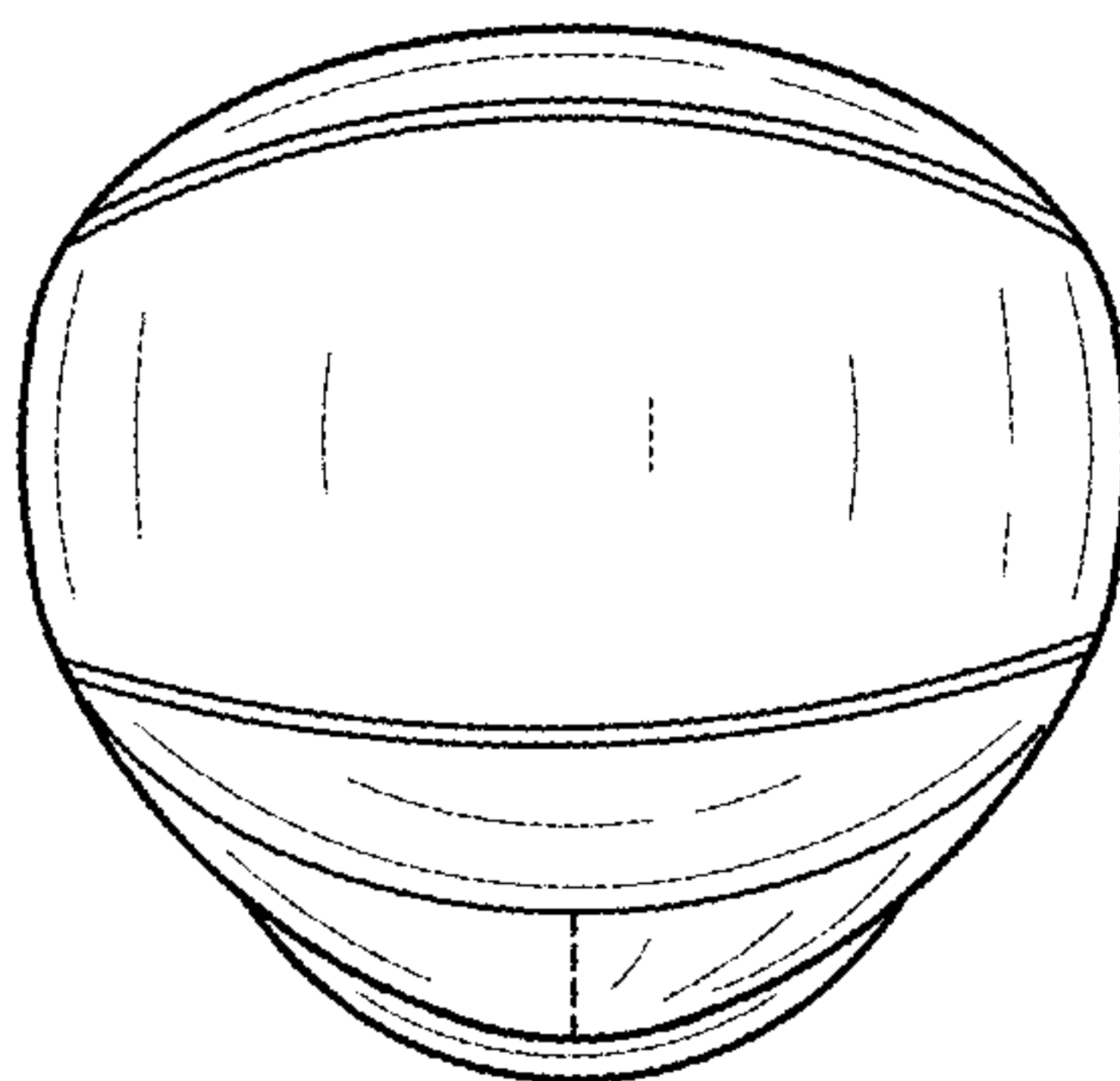


FIG. 4

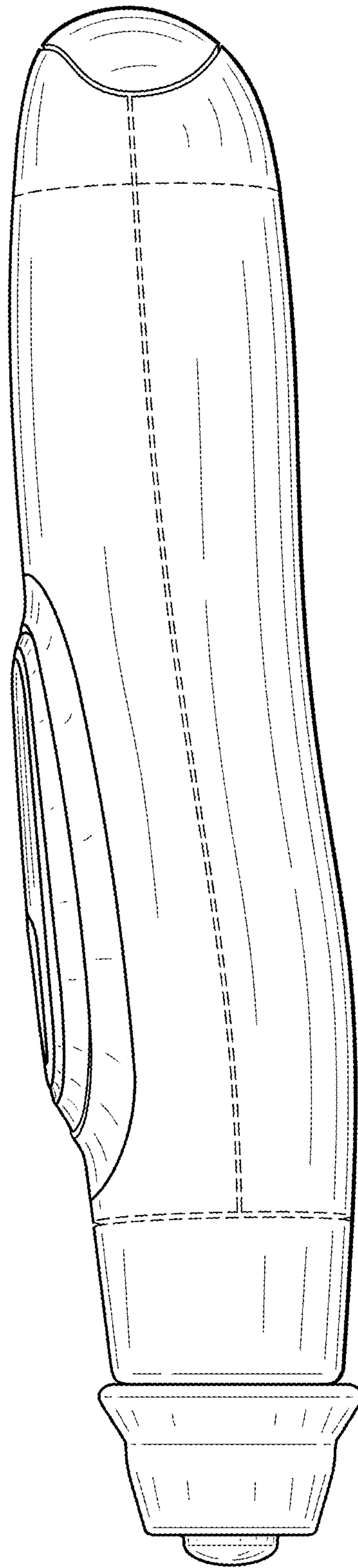


FIG. 5

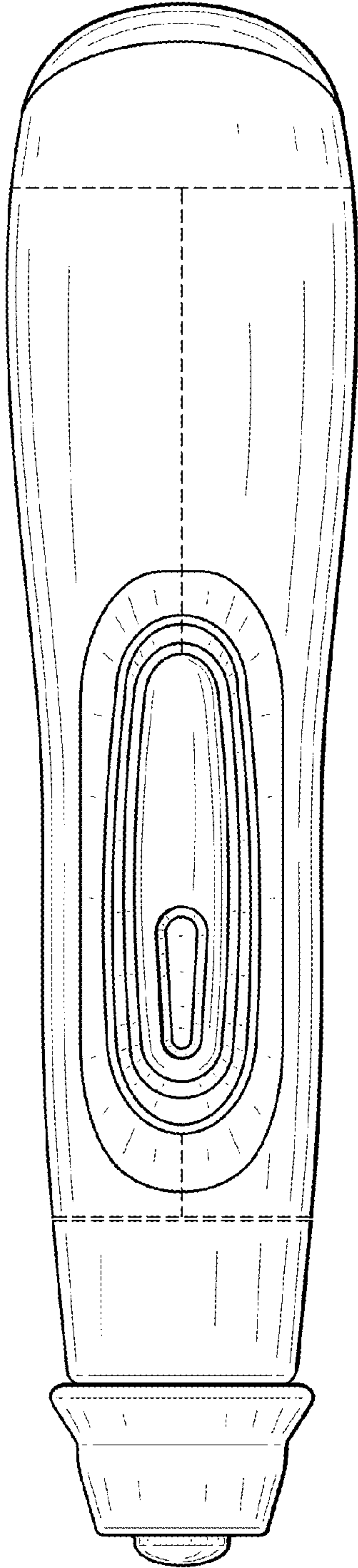


FIG. 6

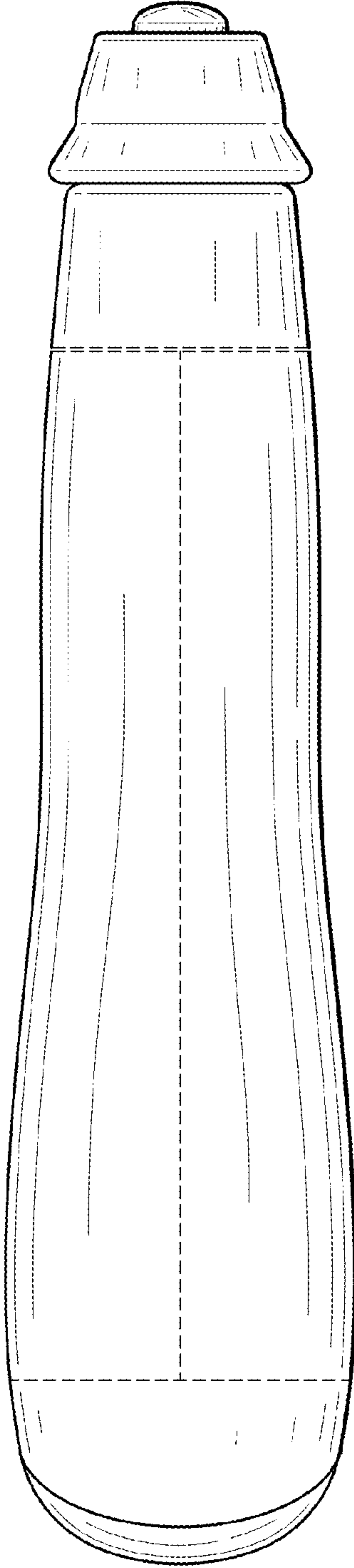


FIG. 7

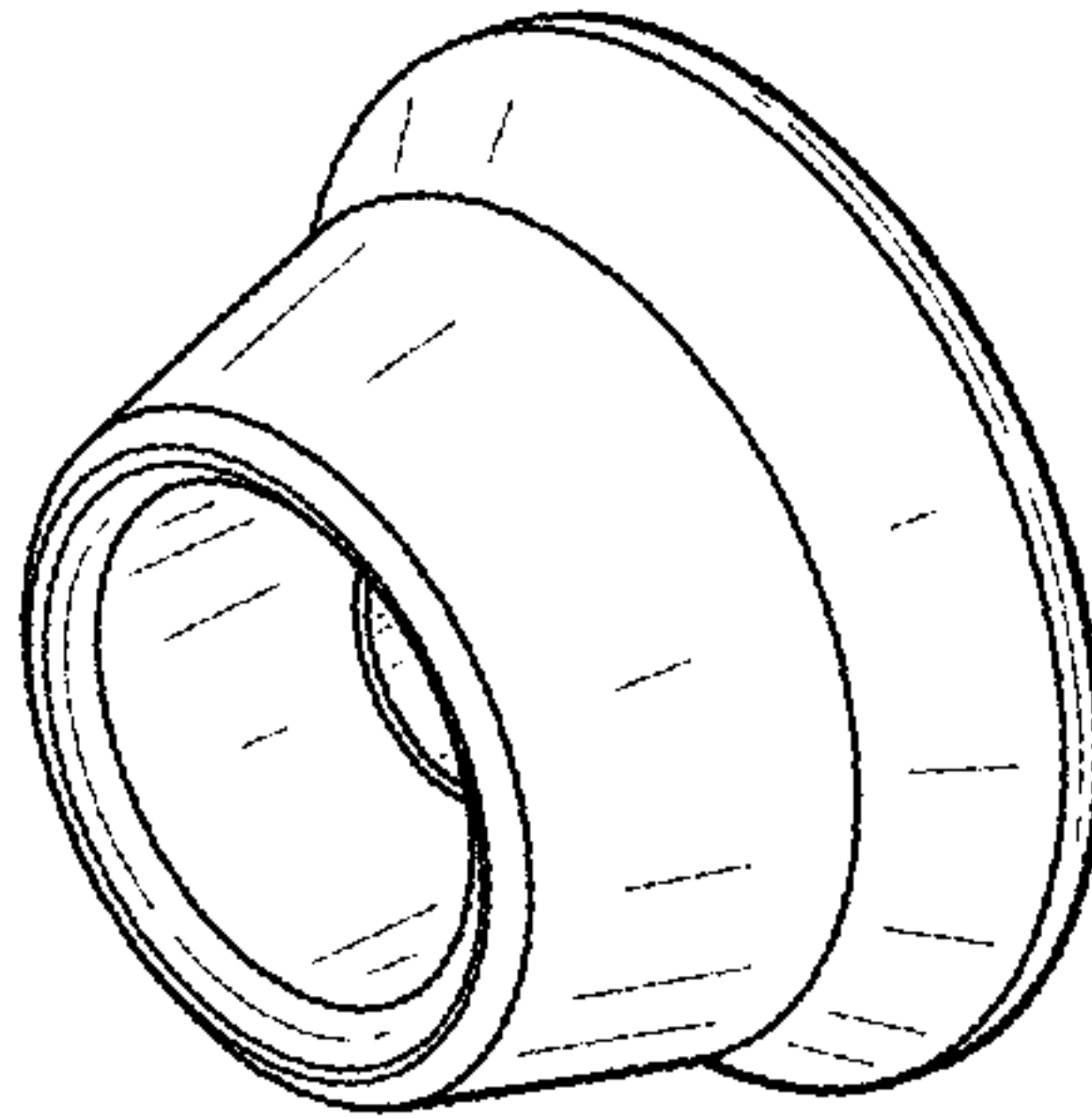


FIG. 8

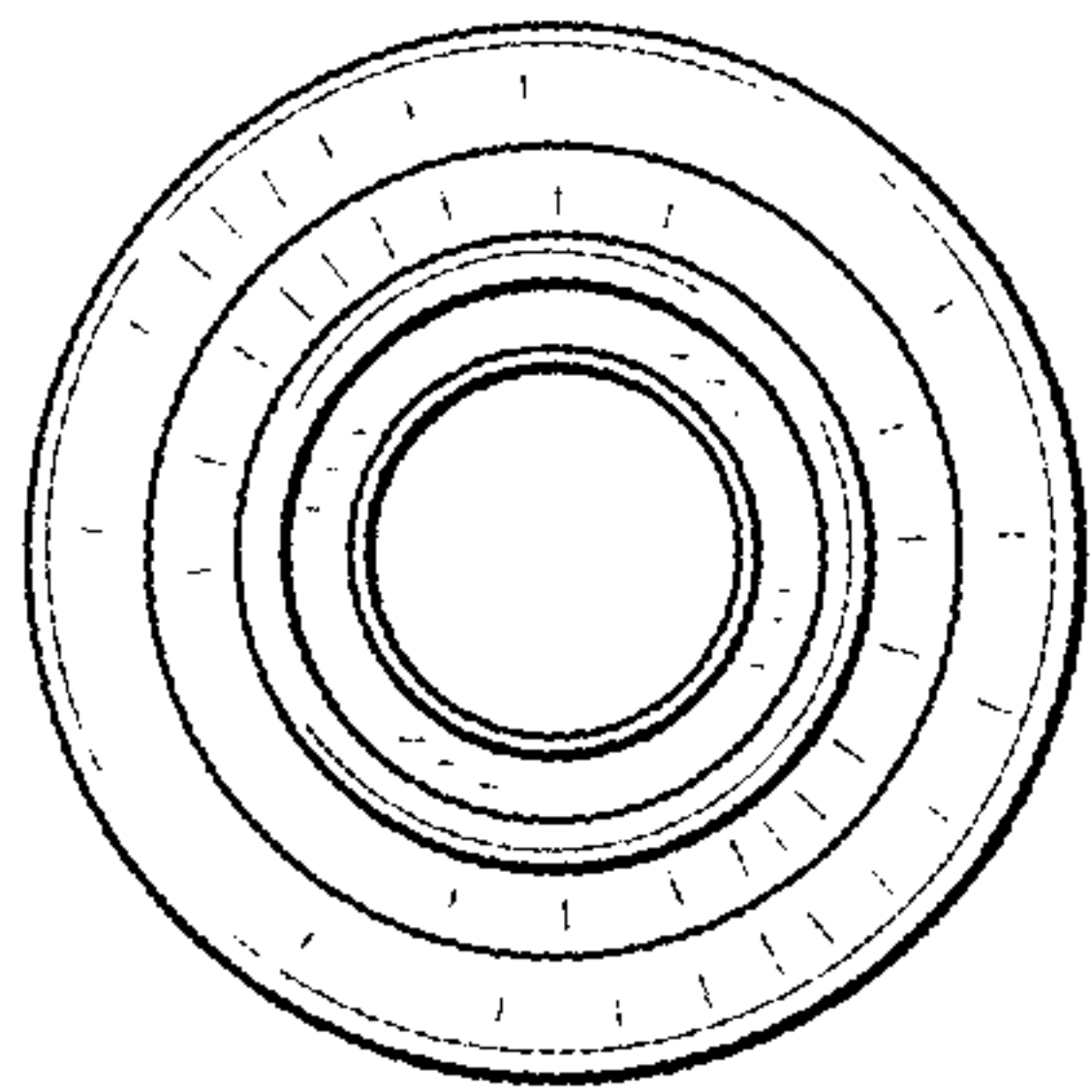


FIG. 9

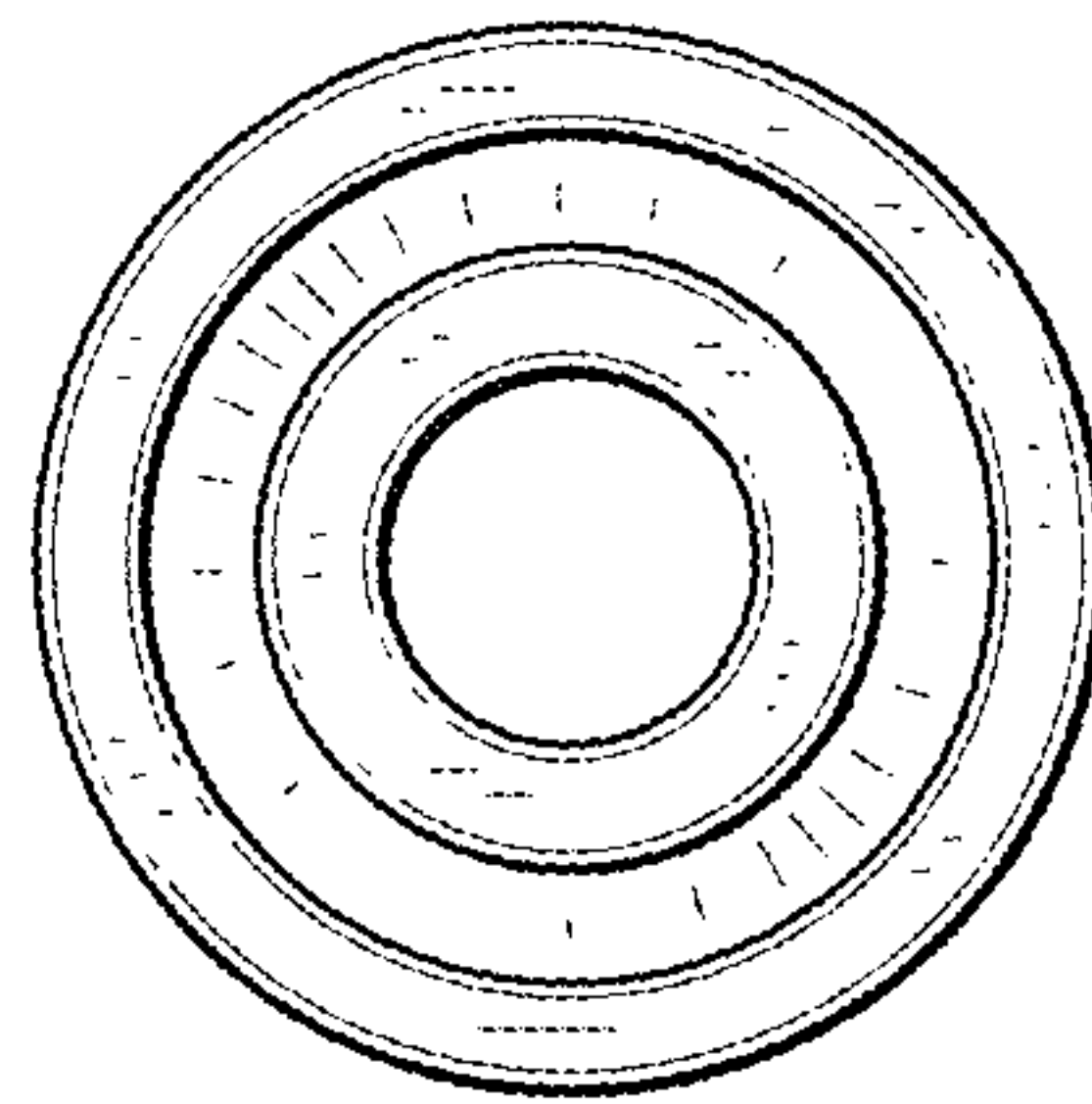


FIG. 10

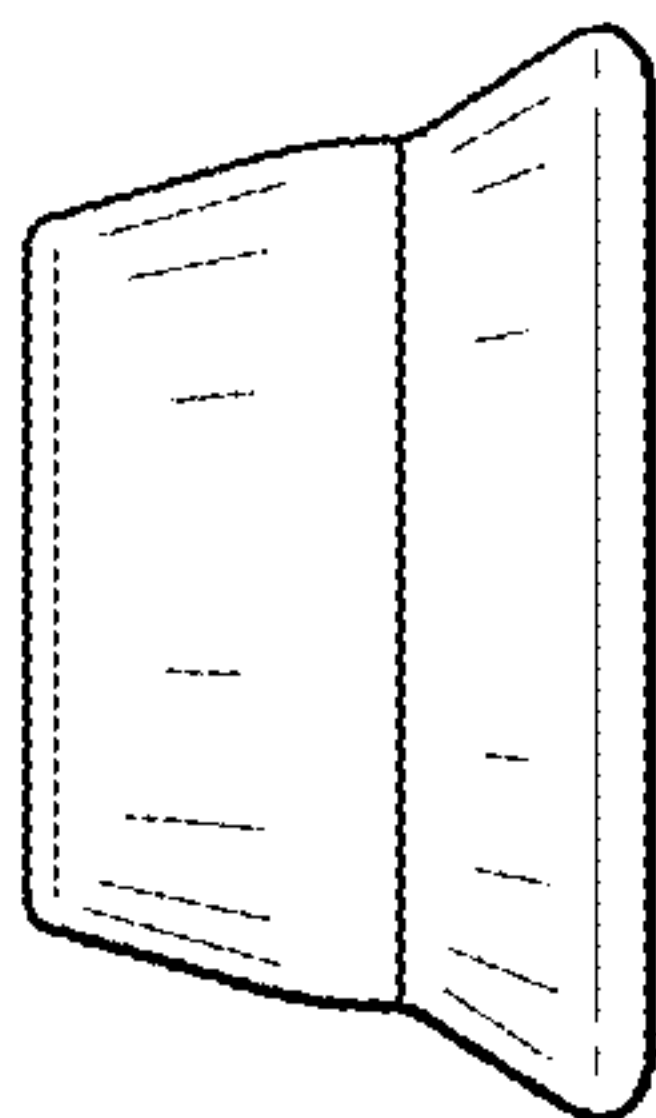


FIG. 11

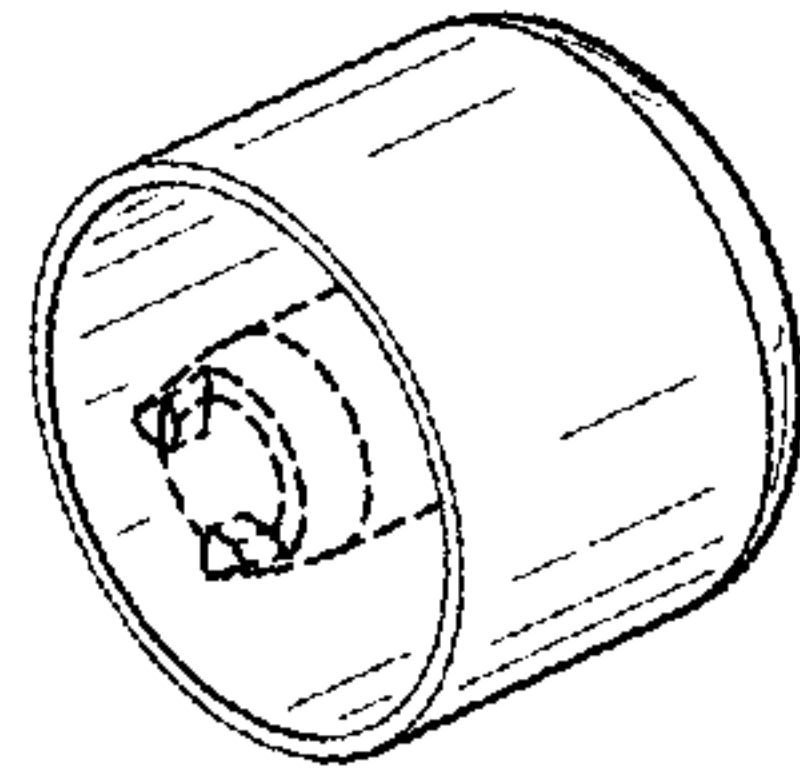


FIG. 12

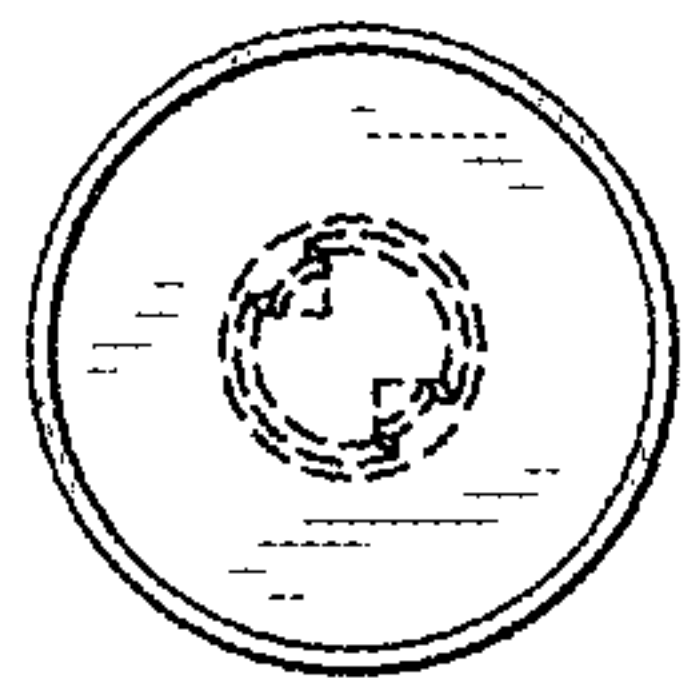


FIG. 13

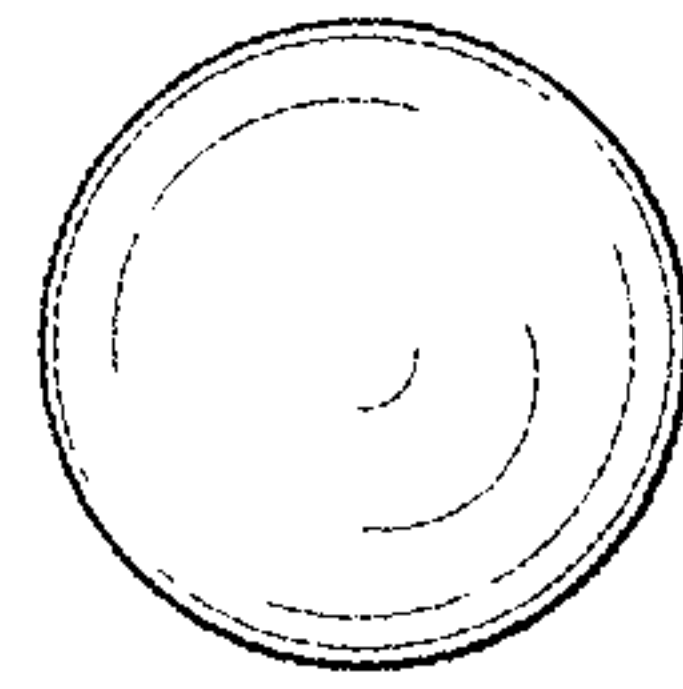


FIG. 14

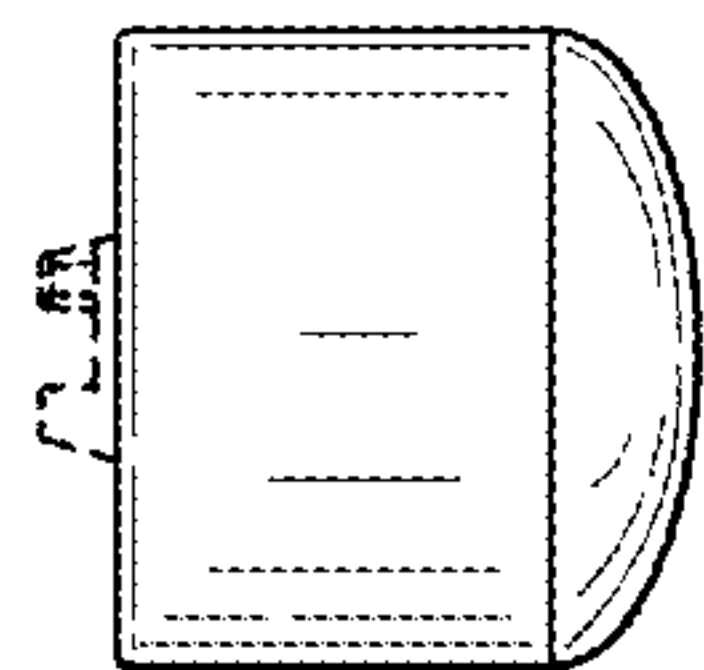


FIG. 15

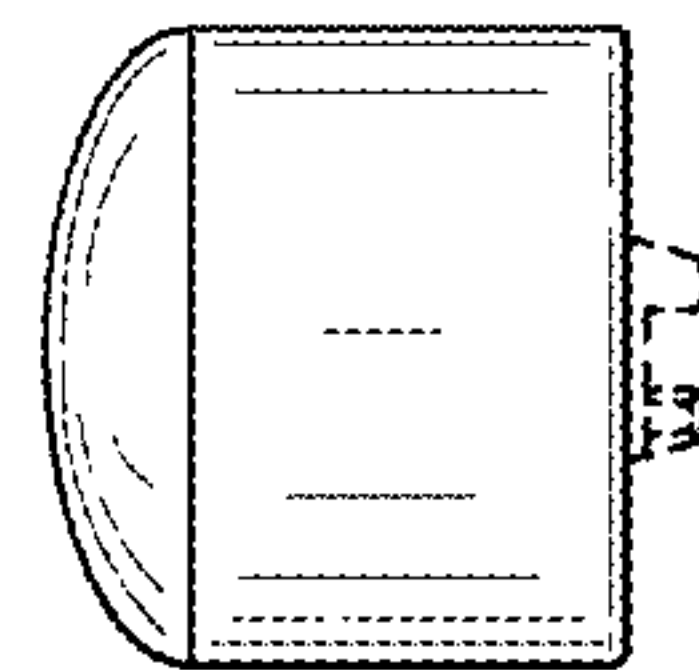


FIG. 16

