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

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(54) **SYRINGE PLUNGER**

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(73) Assignee: **Daikyo Seiko, Ltd.**, Tokyo (JP)

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

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(22) Filed: **Jun. 14, 2007**

(30) **Foreign Application Priority Data**

Dec. 15, 2006 (JP) 2006-034425

(51) **LOC (9) Cl.** **24-02**

(52) **U.S. Cl.** **D24/130**

(58) **Field of Classification Search** D24/112,
D24/114, 127-131; 206/363-364, 367; 604/54,
604/110, 192, 263, 295

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 3,677,448 A * 7/1972 Harris et al. 222/387
- D229,538 S * 12/1973 Steffan D8/397
- 4,925,449 A * 5/1990 Saez et al. 604/227
- D401,135 S * 11/1998 Willert D8/387
- 5,876,379 A * 3/1999 Beauvais et al. 604/181
- 6,159,184 A * 12/2000 Perez et al. 604/192
- D441,869 S * 5/2001 Bloor et al. D24/189
- D489,819 S * 5/2004 Ford D24/114
- 7,357,789 B2 * 4/2008 Bills 604/187
- 2004/0059300 A1 * 3/2004 Kosinski et al. 604/213
- 2004/0064105 A1 * 4/2004 Capes et al. 604/218
- 2004/0097884 A1 * 5/2004 Capes et al. 604/240
- 2004/0116875 A1 * 6/2004 Fischer et al. 604/227
- 2005/0038395 A1 * 2/2005 Shih 604/227
- 2006/0116642 A1 * 6/2006 Bills 604/187
- 2006/0167409 A1 * 7/2006 Pelkey et al. 604/110
- 2006/0195063 A1 * 8/2006 Lim et al. 604/110
- 2006/0253081 A1 * 11/2006 Paulos et al. 604/187

- 2007/0060885 A1 * 3/2007 Wu 604/110
- 2007/0191785 A1 * 8/2007 Barere et al. 604/228
- 2007/0255201 A1 * 11/2007 McLean et al. 604/82

FOREIGN PATENT DOCUMENTS

JP 161234 2/1961

OTHER PUBLICATIONS

Office Action mailed Nov. 9, 2007, issued on the corresponding Japanese design application and the translation thereof.

* cited by examiner

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(57) **CLAIM**

The ornamental design for a syringe plunger, as shown and described.

DESCRIPTION

This application is related to a co-pending U.S. Design patent application Ser. No. 29/274,980 entitled “Syringe Plunger” and a co-pending U.S. patent application Ser. No. 11/808,992 entitled “Syringe Barrel and Syringe” and both filed Jun. 14, 2007 in both names of Masamichi Sudo and Hideaki Kawamura; which applications are assigned to the assignee of the present application and are incorporated by reference herein.

FIG. 1 is a perspective view from below of the syringe plunger;

FIG. 2 is a front/back view of thereof;

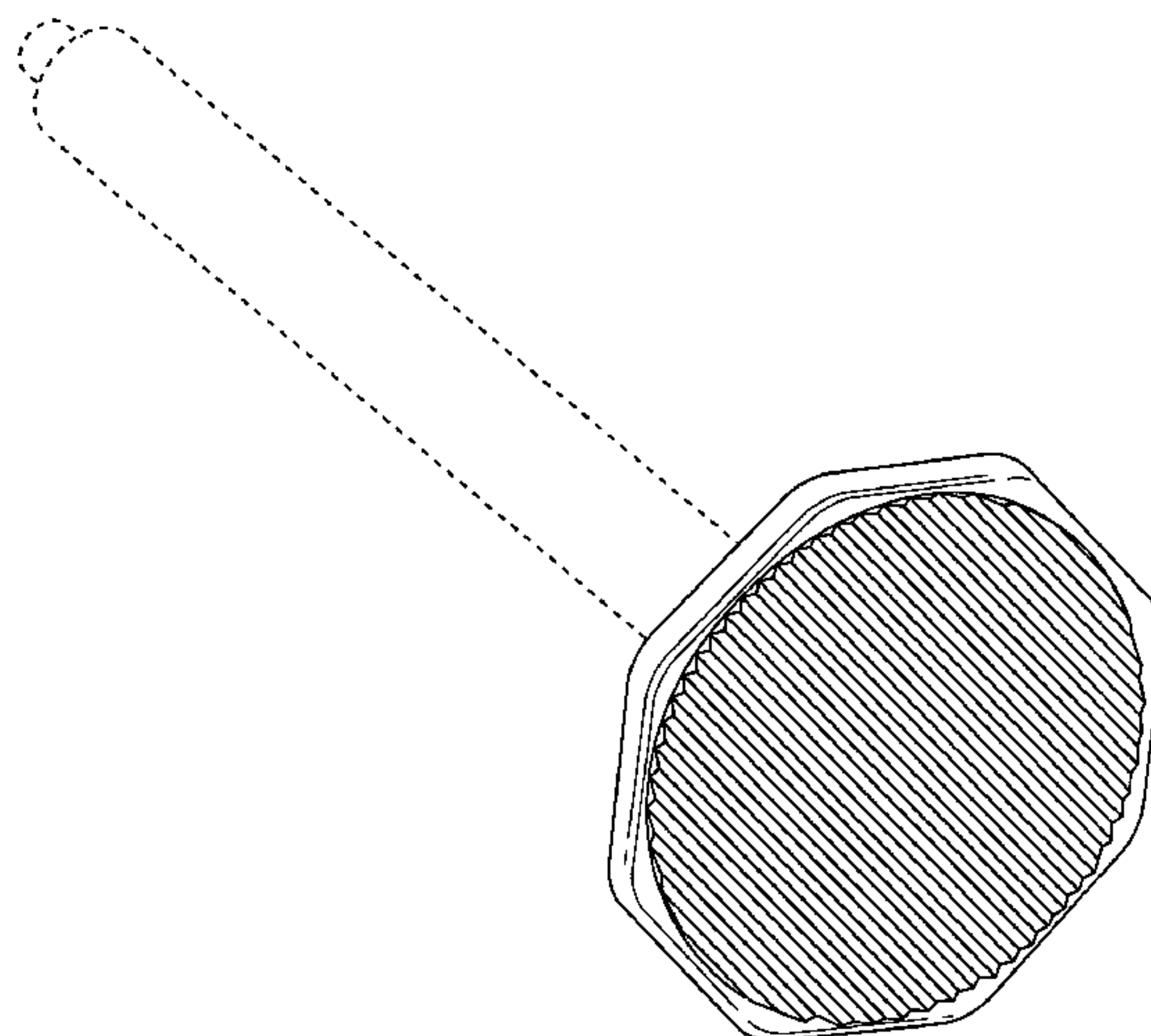
FIG. 3 is a left/right side view thereof;

FIG. 4 is a top down view thereof; and,

FIG. 5 is a bottom view thereof.

The broken line showing of the plunger rod is included for the purpose of illustrating portions of the article and forms no part of the claimed design.

1 Claim, 4 Drawing Sheets



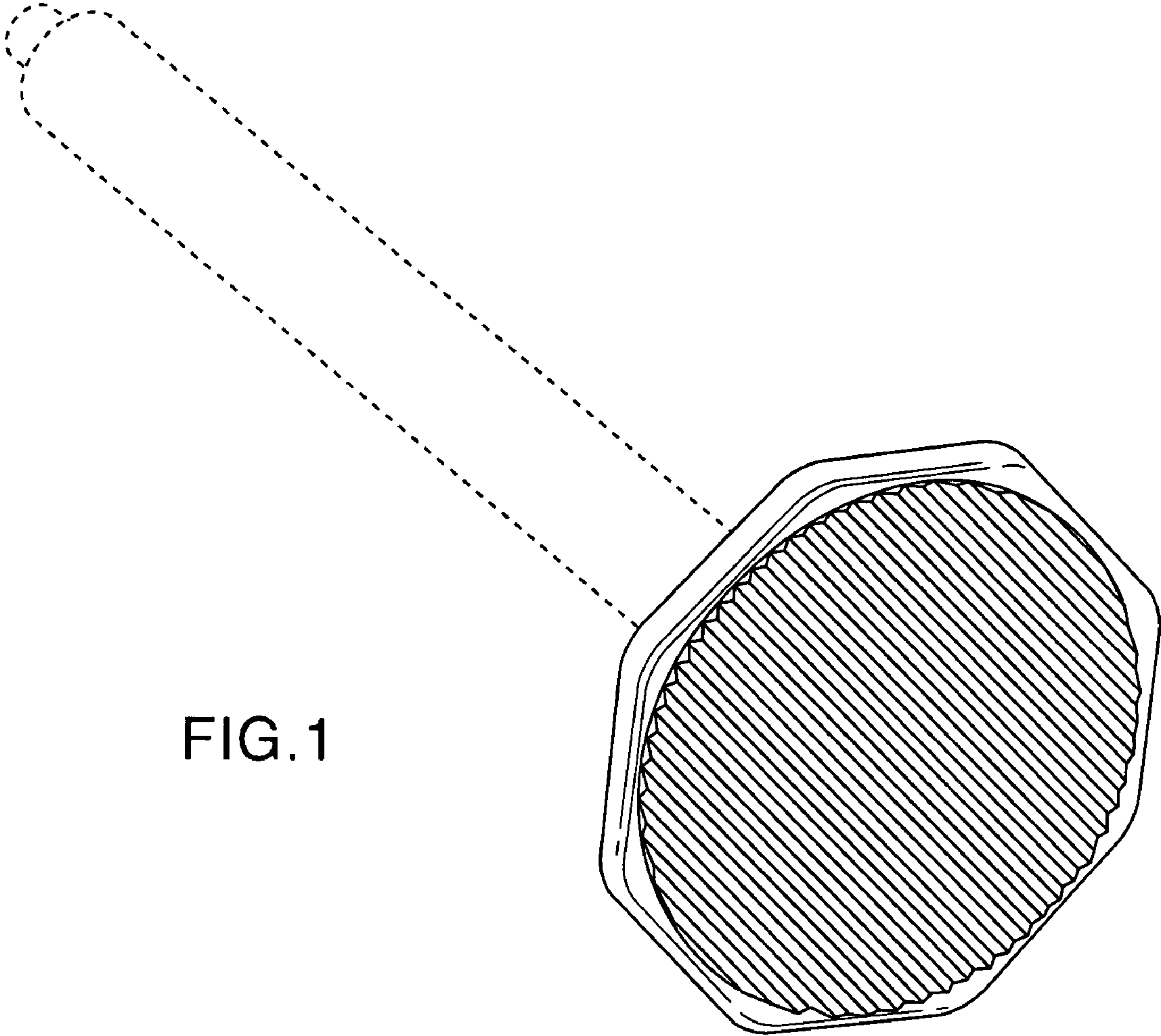


FIG. 1

FIG.2

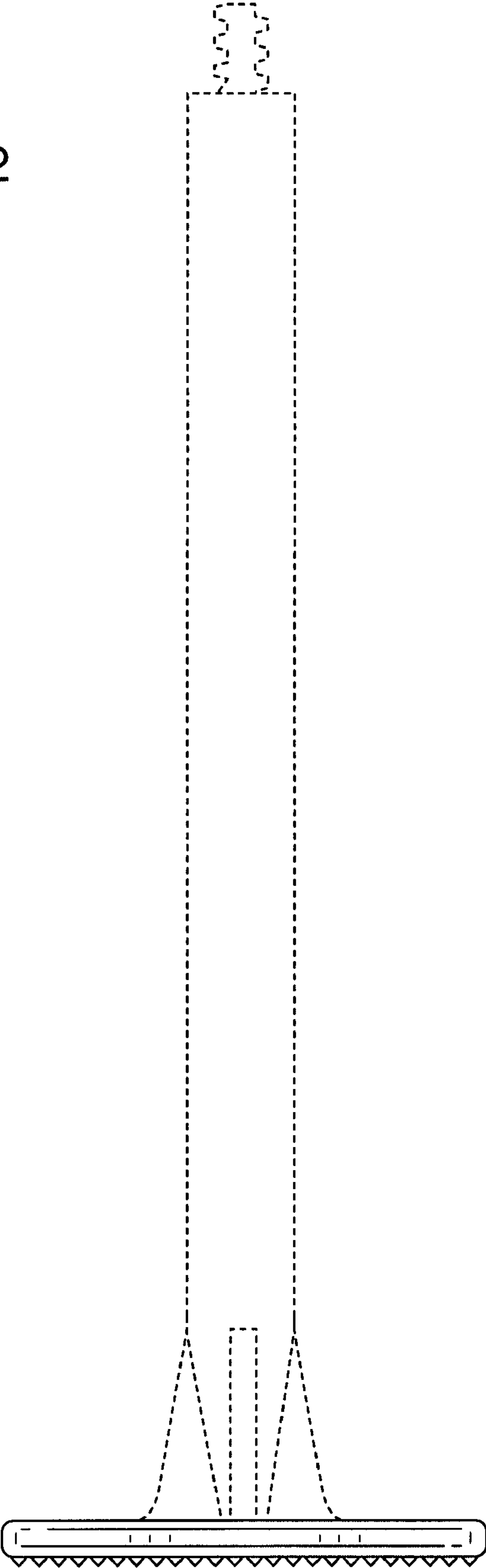
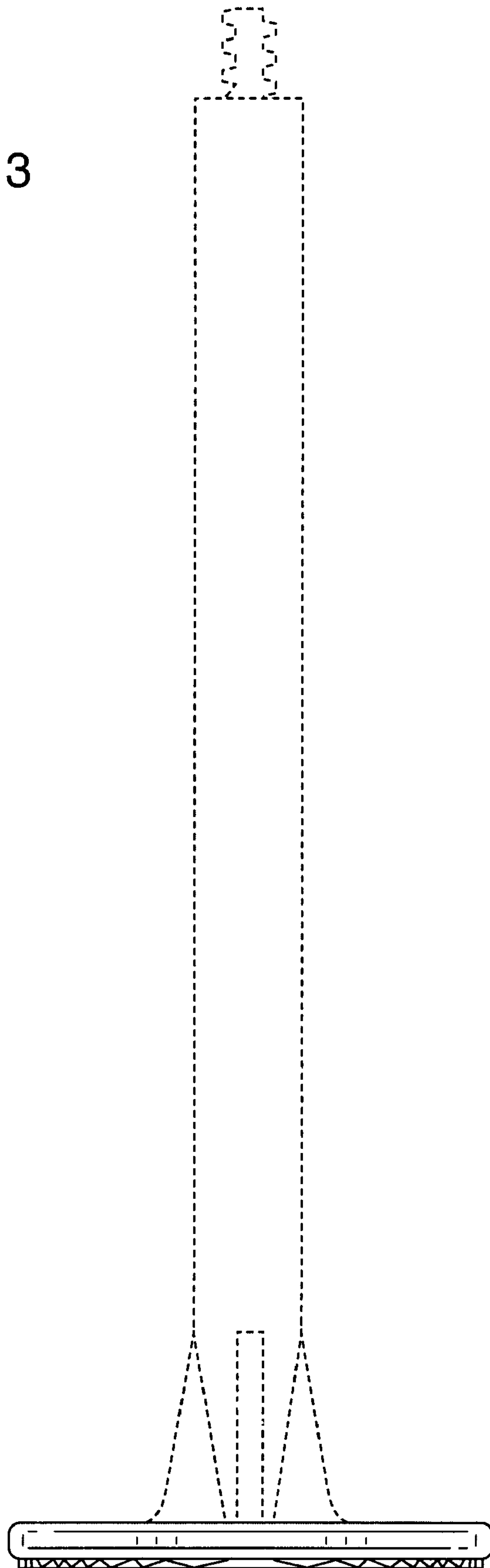


FIG.3



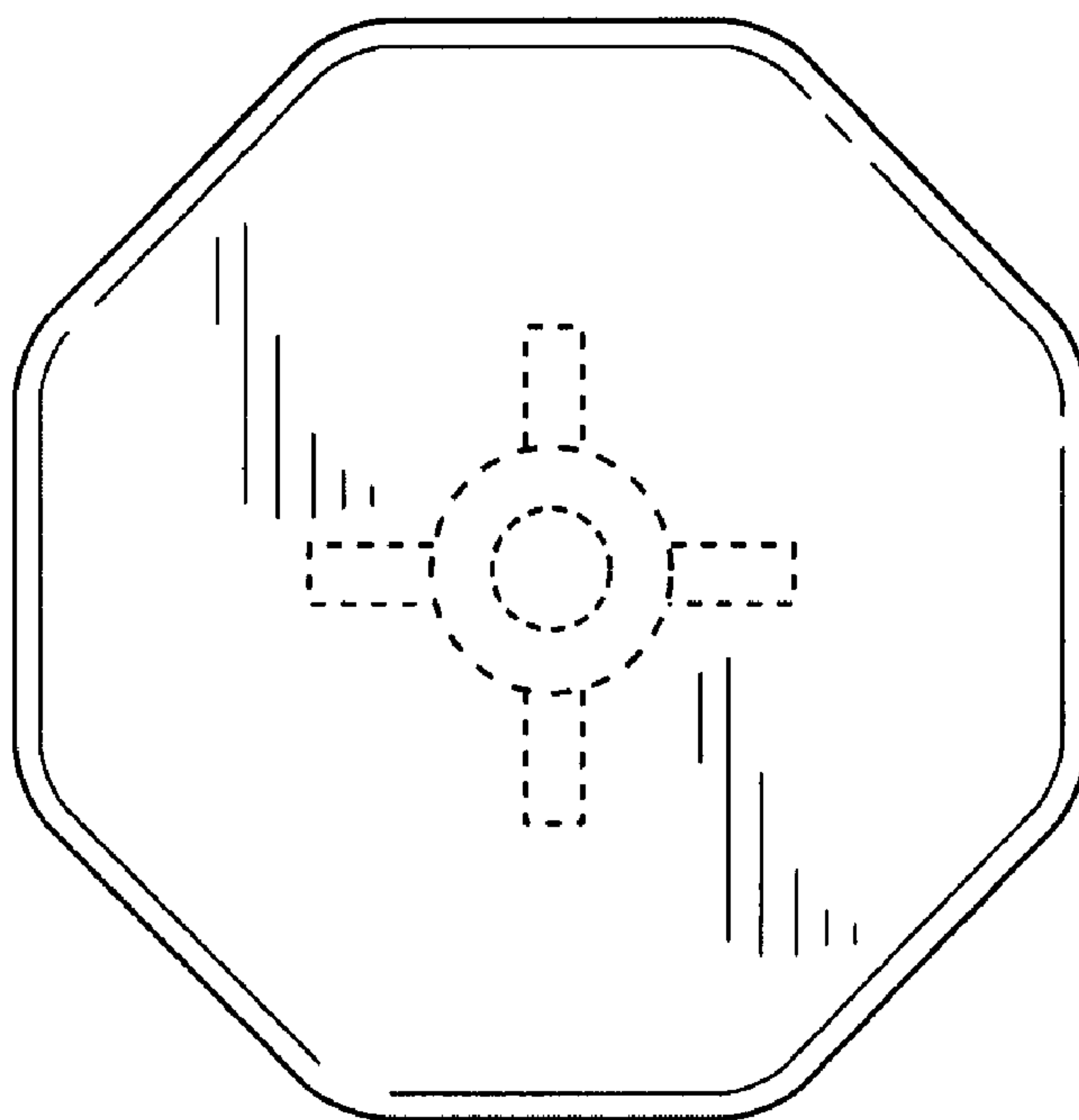


FIG. 4

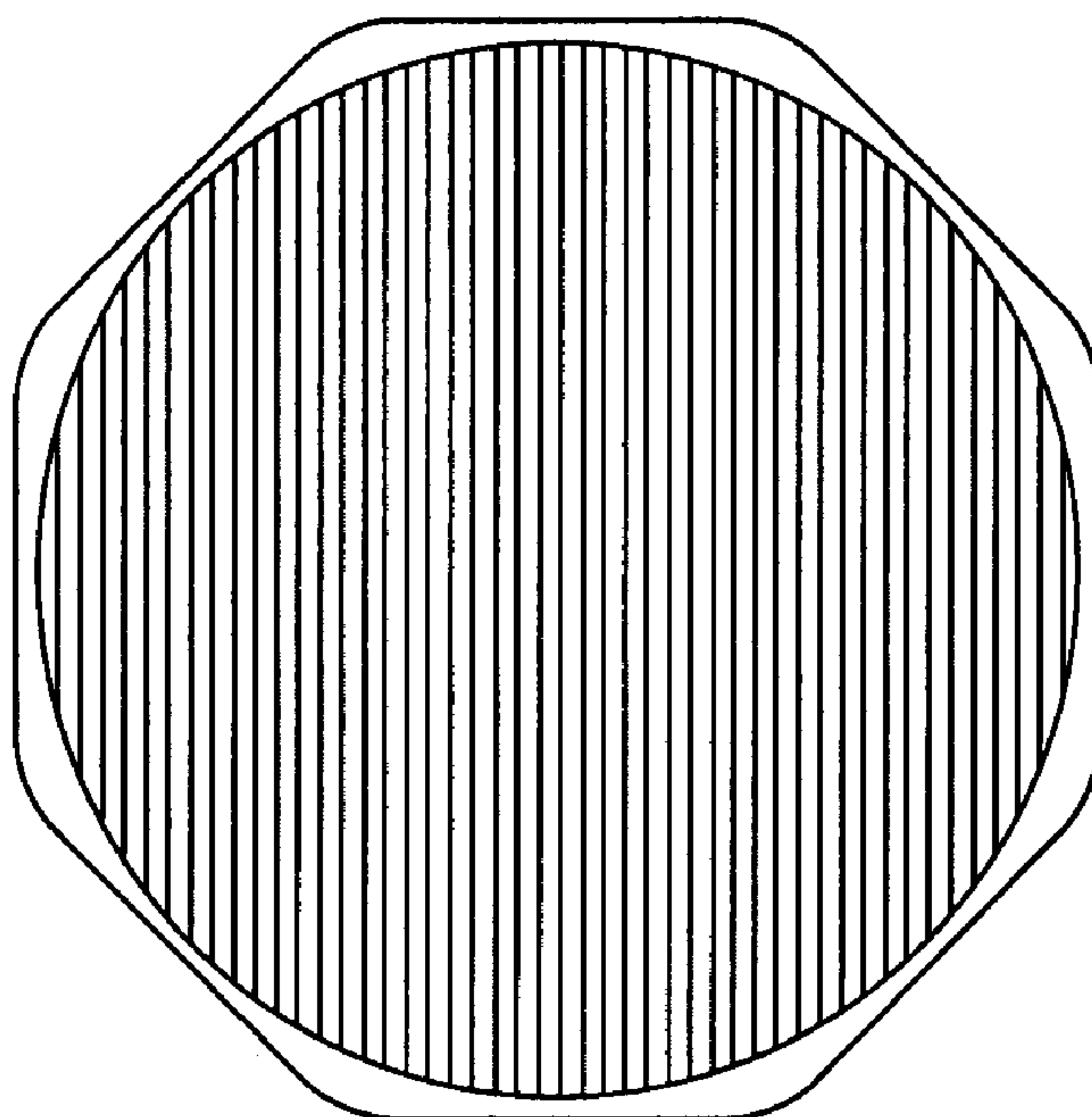


FIG. 5