

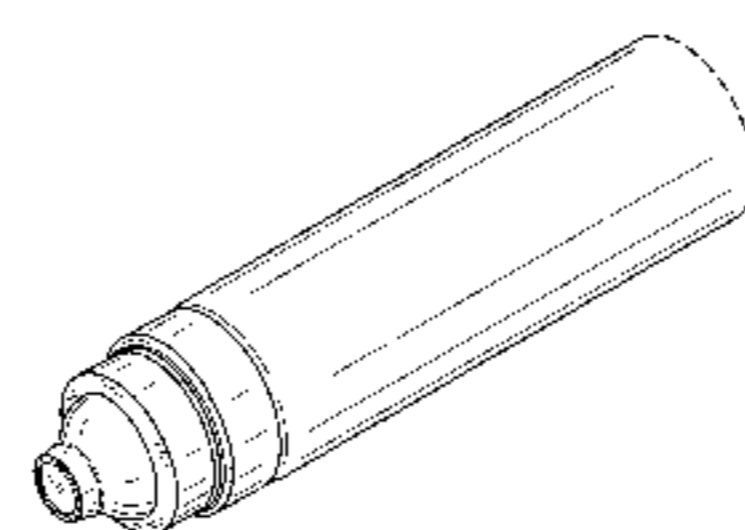
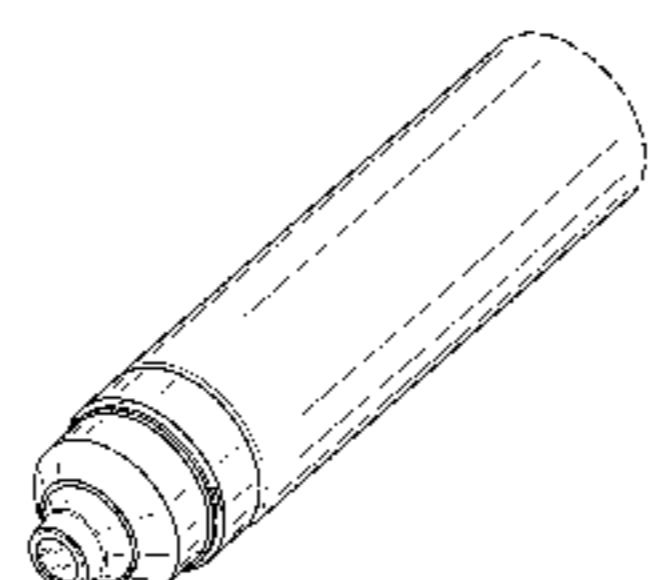
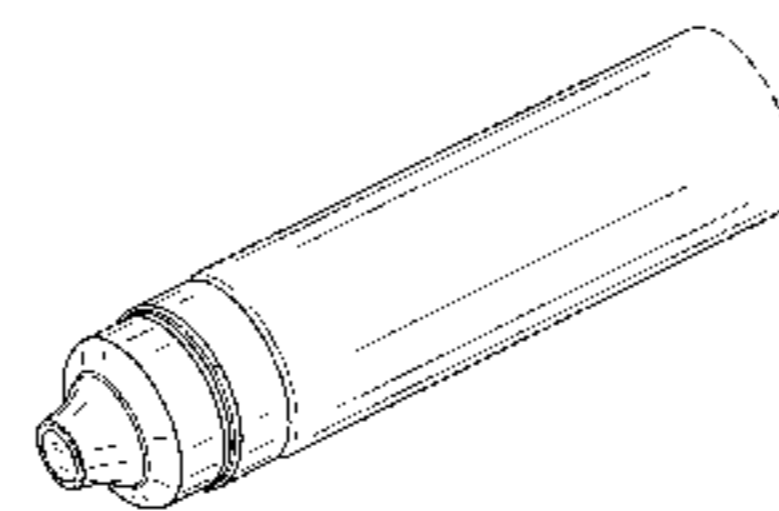
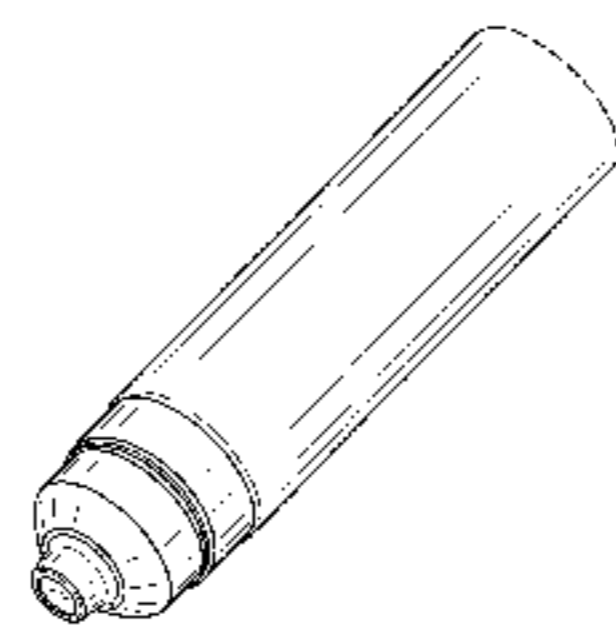
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(12) **United States Design Patent** (10) **Patent No.:** **US D505,627 S**
Py et al. (45) **Date of Patent:** **** May 31, 2005**

- (54) **TUBE AND VALVE ASSEMBLY** 5,033,647 A 7/1991 Smith et al.
5,083,416 A 1/1992 Schneider et al.
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Norbert M. Assion, Shelton, CT (US); D329,379 S * 9/1992 Jorgensen et al. D9/434
Julian V. Chan, Spring Valley, NY 5,178,300 A 1/1993 Haviv et al.
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CT (US) 5,226,568 A 7/1993 Newton et al.
D338,397 S * 8/1993 Sun et al. D9/697
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Stamford, CT (US) 5,320,256 A 6/1994 Wood
5,320,845 A 6/1994 Py
(**) Term: **14 Years** 5,332,121 A 7/1994 Schmidt et al.
5,339,972 A 8/1994 Crosnier et al.
(21) Appl. No.: **29/188,310** 5,416,303 A 5/1995 Grooms et al.
5,489,026 A 2/1996 D'Aloia
(22) Filed: **Aug. 15, 2003** 5,489,027 A 2/1996 Goerigk
5,497,910 A 3/1996 Meadows et al.
(51) **LOC (7) Cl.** **09-01** 5,556,678 A 9/1996 Jupin et al.
(52) **U.S. Cl.** **D9/697** 5,564,596 A 10/1996 Meadows et al.
(58) **Field of Search** D9/697, 434, 447, D376,100 S * 12/1996 Beaver D9/697
D9/723, 724; 222/92, 107, 568, 153.01, 545; 220/613; 206/438; 604/298
5,582,330 A 12/1996 Iba
5,609,273 A 3/1997 Firestone et al.
5,664,704 A 9/1997 Meadows et al.
5,692,651 A 12/1997 Fuchs
5,718,334 A 2/1998 Demel
5,727,892 A 3/1998 Baudin
5,730,322 A 3/1998 Iba et al.
5,743,441 A 4/1998 Baudin et al.
5,759,218 A 6/1998 Martin et al.
5,799,837 A 9/1998 Firestone et al.
5,823,397 A 10/1998 Gil
5,855,302 A 1/1999 Fisscher
5,899,624 A 5/1999 Thompson
5,921,989 A 7/1999 Deacon et al.
5,927,550 A * 7/1999 Mack et al. 222/94
5,934,500 A 8/1999 Cogger et al.
6,050,444 A 4/2000 Sugg
6,053,370 A 4/2000 Ludbrook et al.
6,062,437 A 5/2000 Mascitelli
6,083,450 A 7/2000 Safian
6,145,707 A 11/2000 Baudin
6,170,705 B1 1/2001 Schneider et al.
6,202,901 B1 3/2001 Gerber et al.
6,254,579 B1 7/2001 Cogger et al.
6,267,768 B1 7/2001 Deacon et al.
6,283,976 B1 9/2001 Portney
6,301,767 B1 10/2001 Granger et al.
6,306,423 B1 10/2001 Donovan et al.
6,312,708 B1 11/2001 Donovan

(56) **References Cited**
U.S. PATENT DOCUMENTS

- 1,978,455 A * 10/1934 Geerlings 222/92
2,128,035 A 8/1938 Boetel
3,235,128 A * 2/1966 Hansen 222/107
D212,412 S * 10/1968 Hanlon D9/697
3,412,910 A 11/1968 Hahn
3,448,896 A * 6/1969 Sakuta et al. 222/92
3,648,903 A 3/1972 Marchant
3,669,323 A 6/1972 Harker et al.
3,963,814 A 6/1976 Cospen et al.
4,002,516 A 1/1977 Gaborieau et al.
4,102,476 A 7/1978 Loeffler
4,141,474 A 2/1979 Nilson
4,513,891 A 4/1985 Hain et al.
4,699,300 A 10/1987 Blake
4,737,148 A 4/1988 Blake
4,739,906 A 4/1988 LoTurco
4,842,165 A 6/1989 Van Coney
4,895,279 A 1/1990 Schultz
4,923,480 A 5/1990 Monestere
4,949,877 A 8/1990 Hanna et al.
4,978,036 A 12/1990 Burd



6,325,253	B1	12/2001	Robinson
6,351,924	B1	3/2002	Gustafsson et al.
6,383,509	B1	5/2002	Donovan et al.
6,386,395	B1	5/2002	Lunghetti
6,428,545	B2	8/2002	Portney
6,446,844	B1	9/2002	Gross
6,450,994	B1	9/2002	Boyles et al.

FOREIGN PATENT DOCUMENTS

EP	0649795	B1	6/1999
EP	0673852	B1	2/2000

* cited by examiner

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(74) *Attorney, Agent, or Firm*—McCarter & English, LLP

(57) **CLAIM**

The ornamental design for a tube and valve assembly, as shown and described.

DESCRIPTION

This patent application is related to co-pending U.S. patent application Ser. No. 29/174,939, filed Jan. 27, 2003, entitled “Container and Valve Assembly”, and to co-pending U.S. patent application Ser. No. 10/640,500 filed Aug. 13, 2003, entitled “Container and Valve Assembly for Storing and Dispensing Substances, and Related Method”, each of which is hereby expressly incorporated by reference as part of the present disclosure.

FIG. 1 is a perspective view of a first embodiment of a tube and valve assembly of the present invention including a first version of a valve retaining member.

FIG. 2 is a side elevational view of the tube and valve assembly of FIG. 1. All other side elevational views are the same as shown in FIG. 2.

FIG. 3 is a front end elevational view of the tube and valve assembly of FIG. 1.

FIG. 4 is a rear elevational view of the tube and valve assembly of FIG. 1.

FIG. 5 is a perspective view of a second embodiment of a tube and valve assembly of the present invention including a second version of a valve retaining member.

FIG. 6 is a side elevational view of the tube and valve assembly of FIG. 5. All other side elevational views are the same as shown in FIG. 6.

FIG. 7 is a front end elevational view of the tube and valve assembly of FIG. 5.

FIG. 8 is a rear elevational view of the tube and valve assembly of FIG. 5.

FIG. 9 is a perspective view of a third embodiment of a tube and valve assembly of the present invention including a third version of a valve retaining member.

FIG. 10 is a side elevational view of the tube and valve assembly of FIG. 9. All other side elevational views are the same as shown in FIG. 10.

FIG. 11 is a front end elevational view of the tube and valve assembly of FIG. 9.

FIG. 12 is a rear elevational view of the tube and valve assembly of FIG. 9.

FIG. 13 is a perspective view of a fourth embodiment of a tube and valve assembly of the present invention including a fourth version of a valve retaining member.

FIG. 14 is a side elevational view of the tube and valve assembly of FIG. 13. All other side elevational views are the same as shown in FIG. 14.

FIG. 15 is a front end elevational view of the tube and valve assembly of FIG. 13.

FIG. 16 is a rear elevational view of the tube and valve assembly of FIG. 13.

FIG. 17 is a perspective view of another embodiment of a tube and valve assembly of the present invention;

FIG. 18 is a side elevational view of the tube and valve assembly of FIG. 17. All other side elevational views are the same as shown in FIG. 18.

FIG. 19 is a front end elevational view of the tube and valve assembly of FIG. 17.

FIG. 20 is a rear elevational view of the tube and valve assembly of FIG. 17.

FIG. 21 is a perspective view of another embodiment of a tube and valve assembly of the present invention;

FIG. 22 is a side elevational view of the tube and valve assembly of FIG. 21. All other side elevational views are the same as shown in FIG. 22.

FIG. 23 is a front end elevational view of the tube and valve assembly of FIG. 21; and,

FIG. 24 is a rear elevational view of the tube and valve assembly of FIG. 21.

The broken lines in the figures show boundaries of the respective embodiments of the tube and valve assembly of the present invention and form no part of the design to be patented. The areas within the broken lines are not part of the claimed invention. The shading and tones, and any variations thereof; shown in the informal drawings do not imply any specific colors or color contrast scheme in the article to be patented. In addition, the surface coloration and tones, and the variations thereof, shown in the informal drawings form no part of the claimed design.

1 Claim, 18 Drawing Sheets

FIG. 1

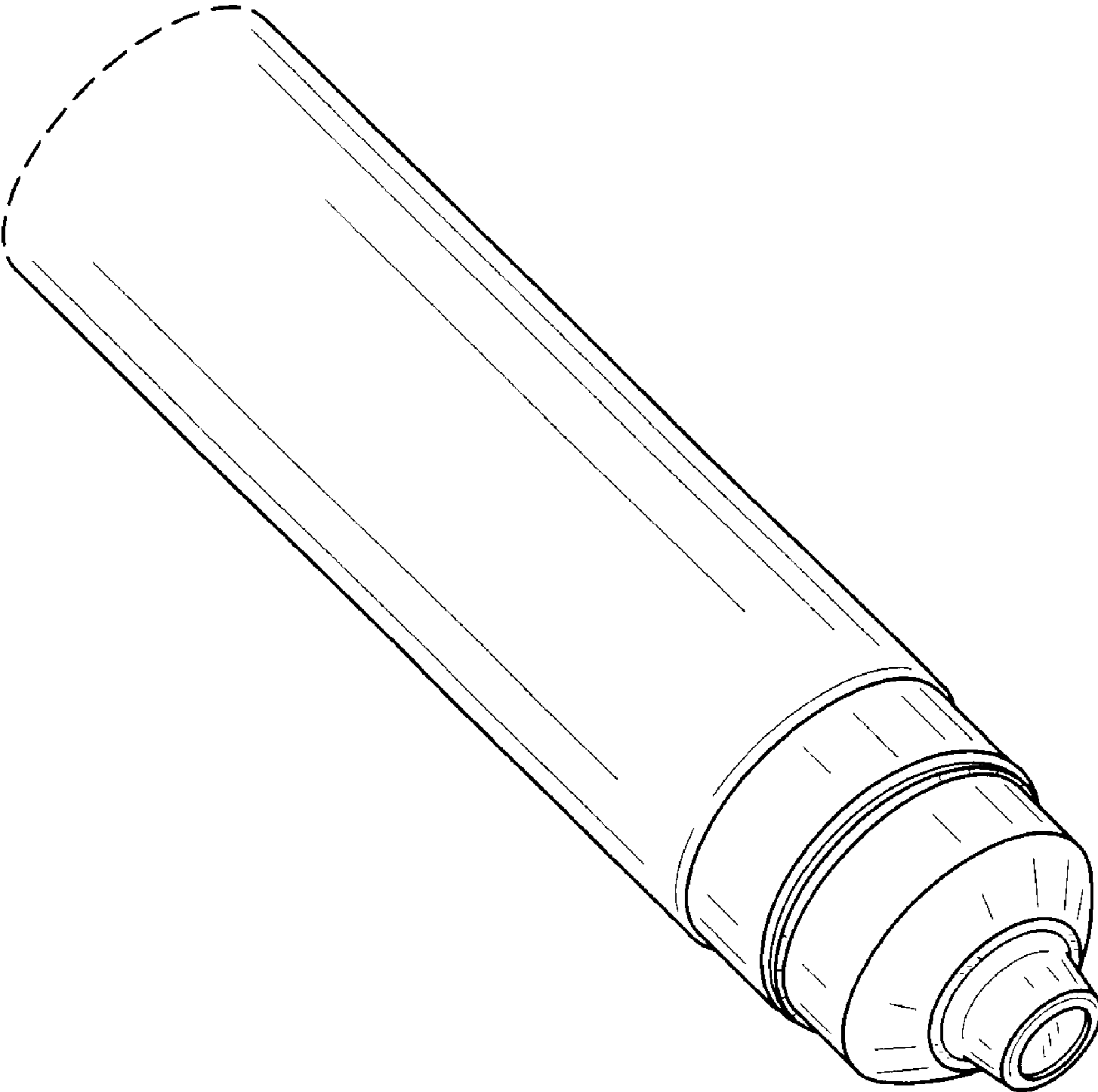


FIG. 2

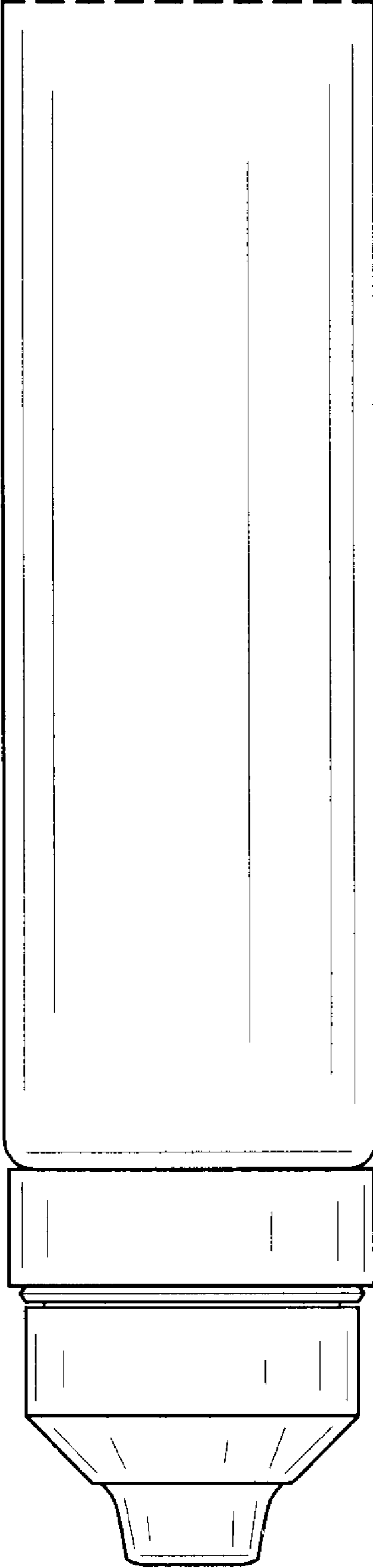


FIG. 4

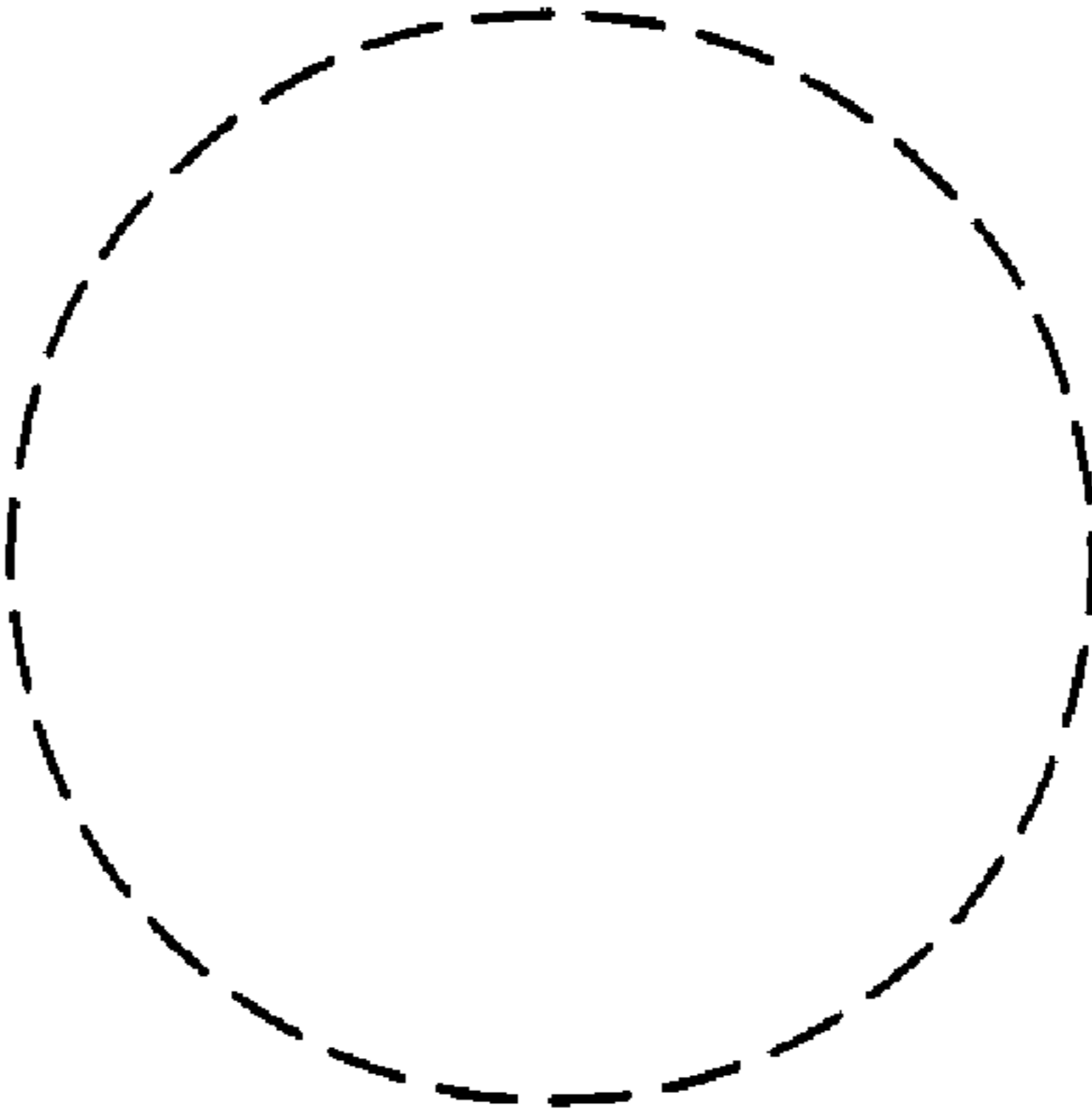


FIG. 3

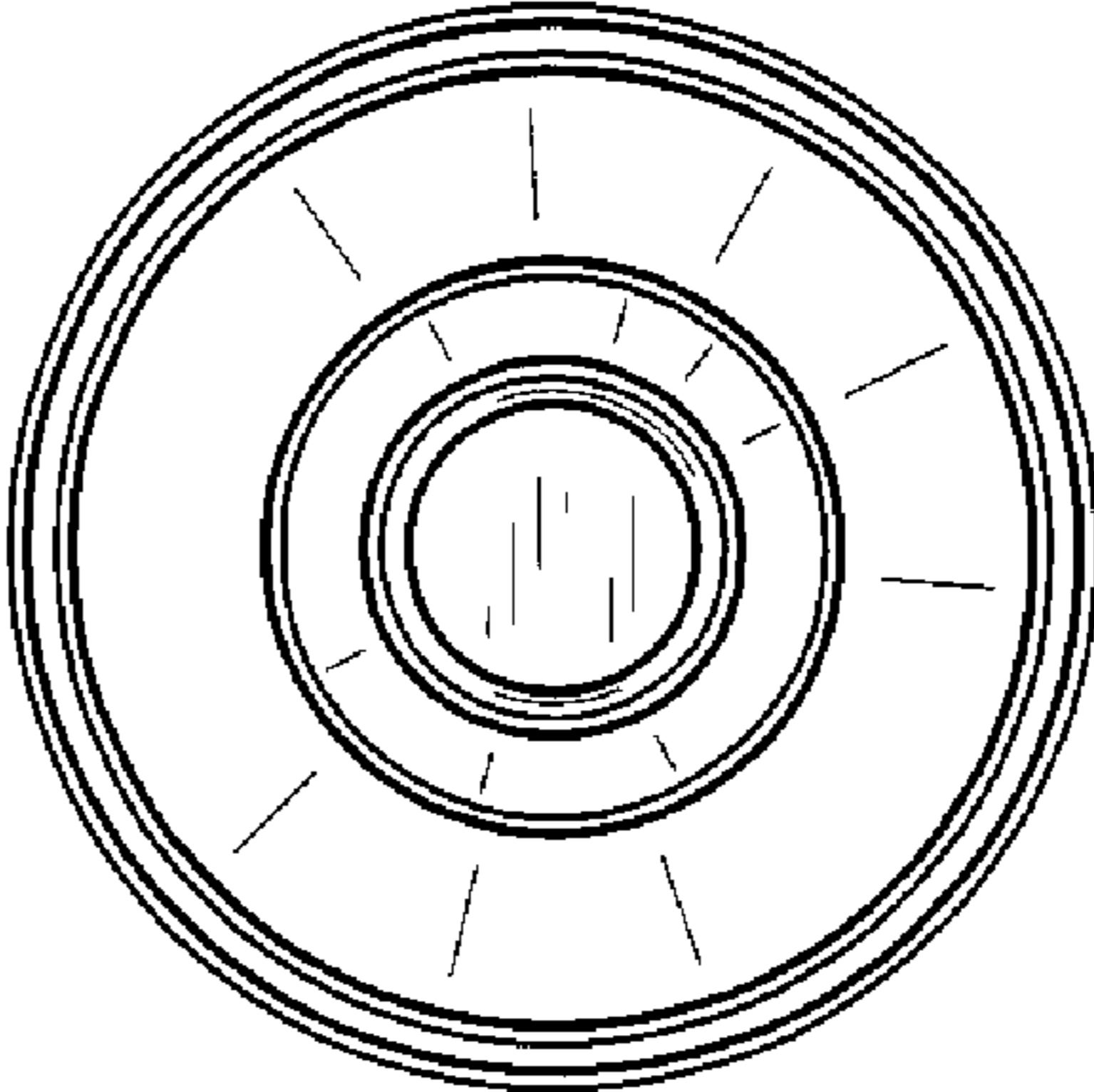


FIG. 5

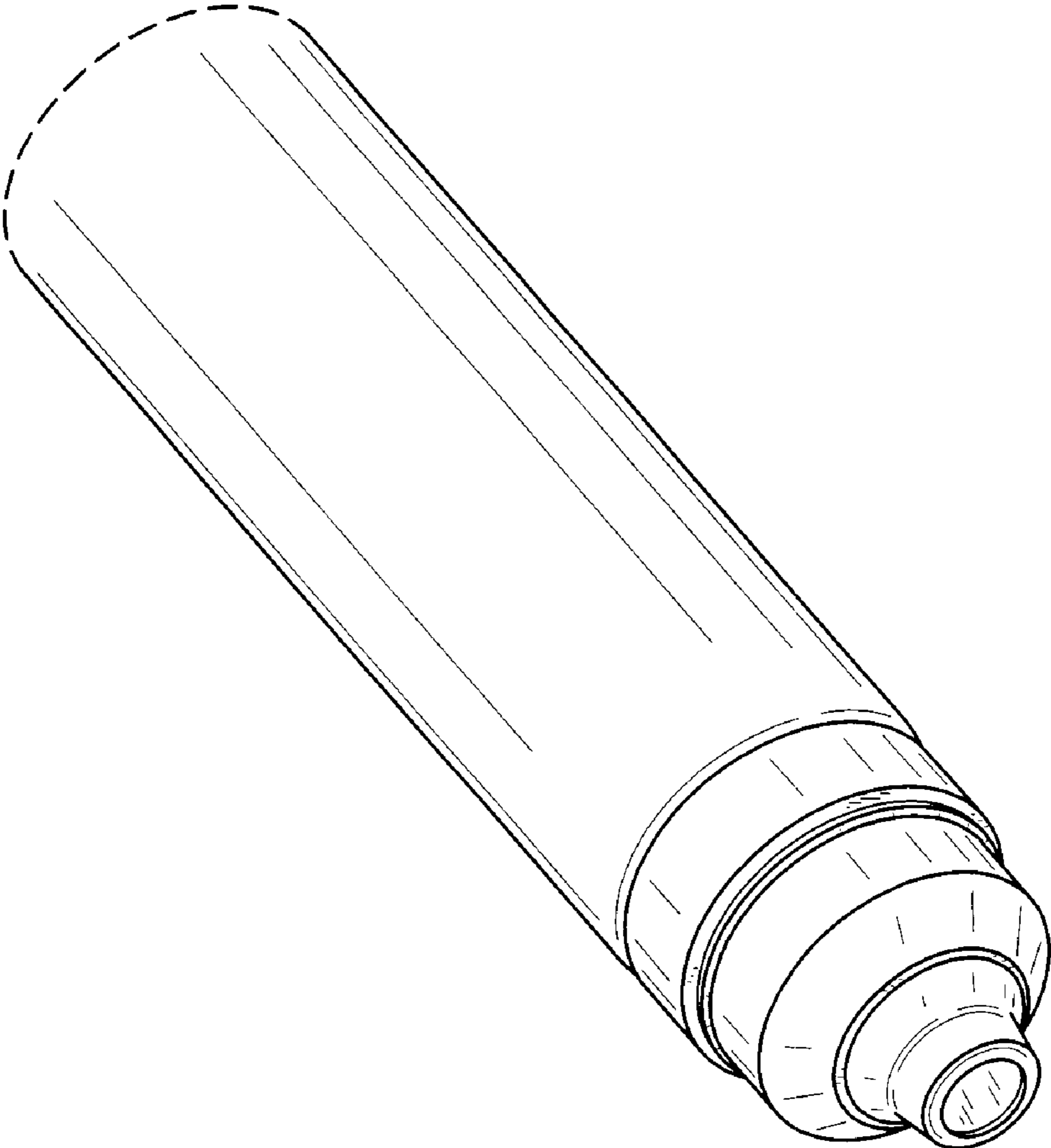


FIG. 6

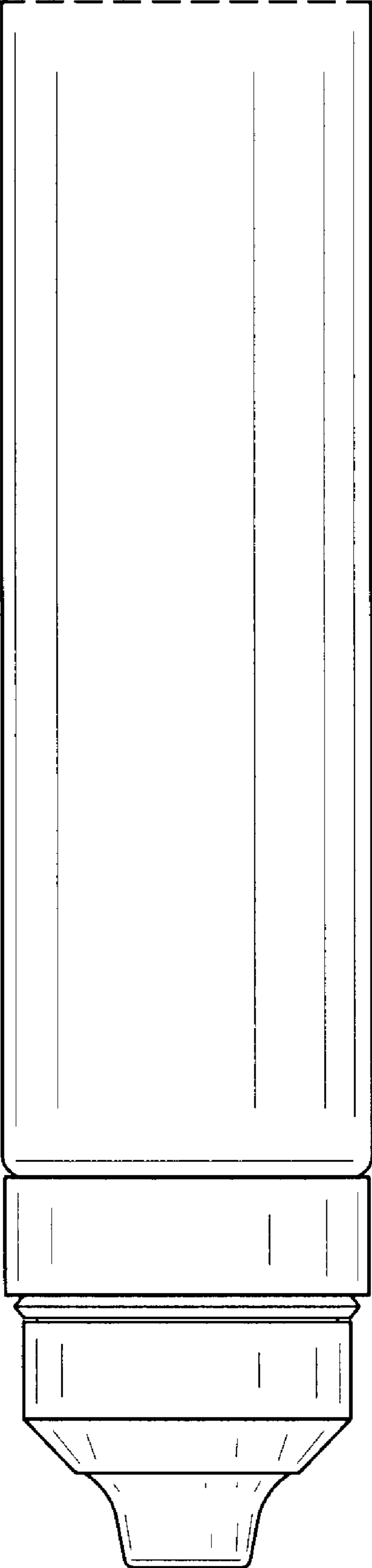


FIG. 8

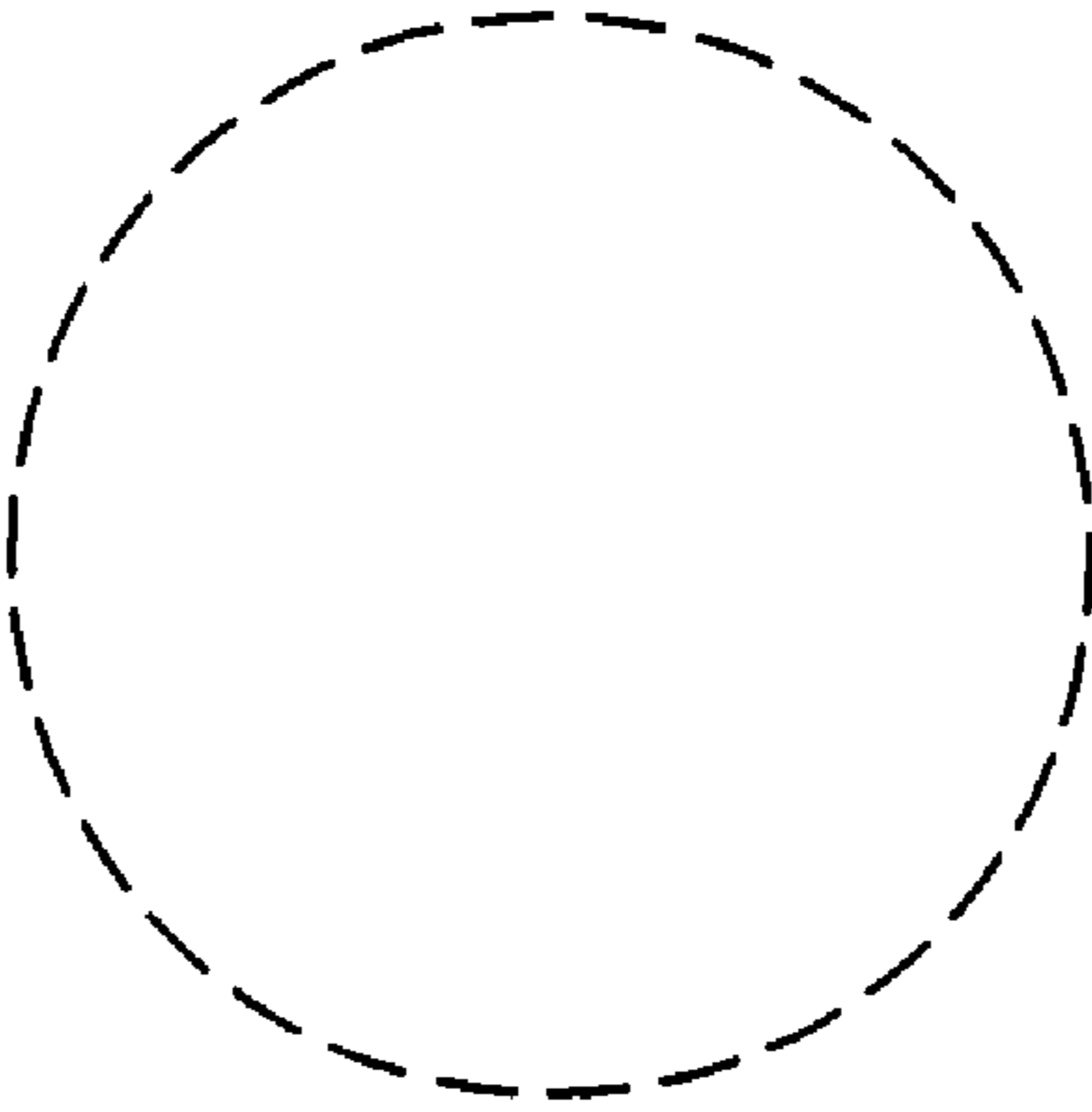


FIG. 7

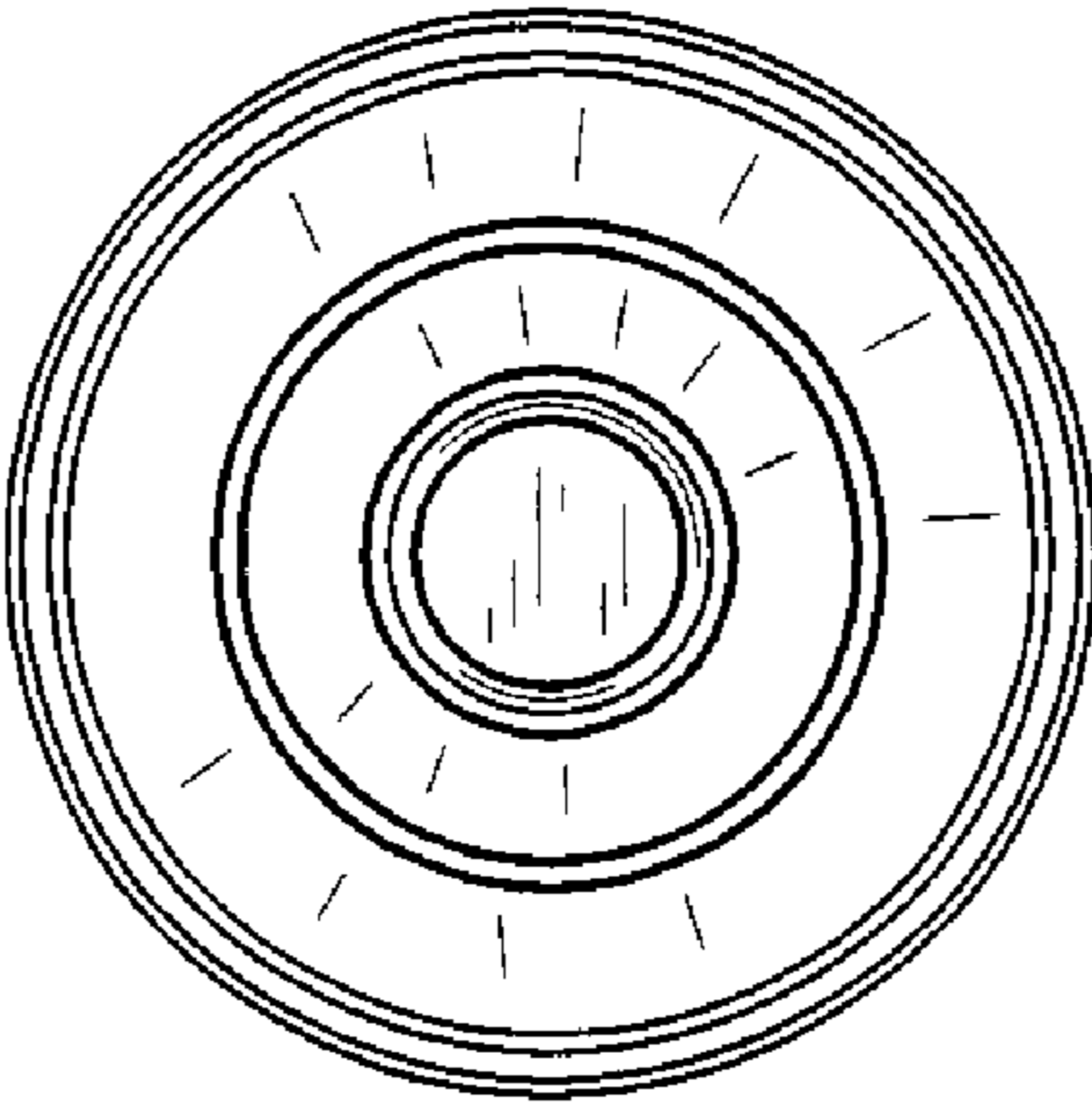


FIG. 9

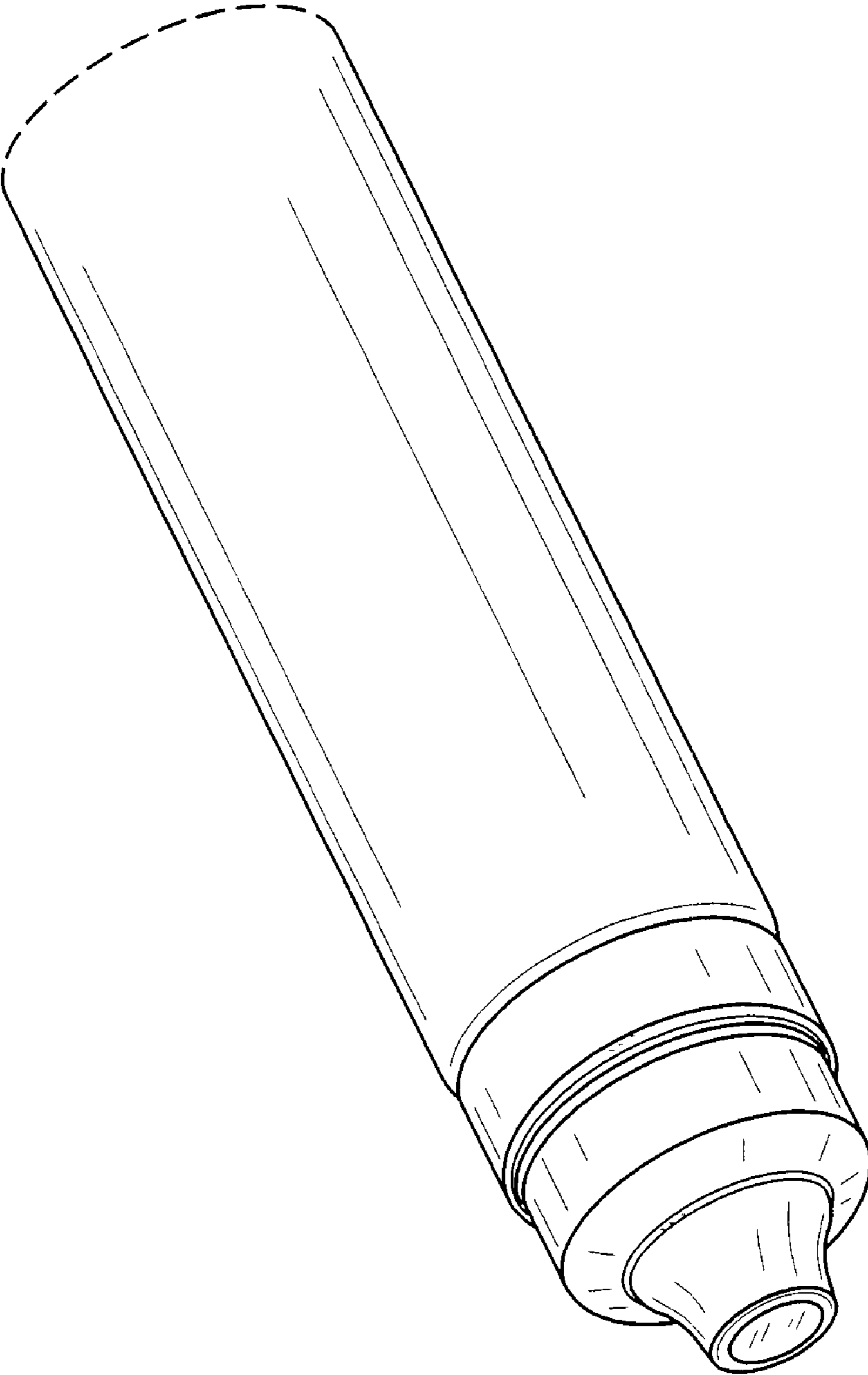


FIG. 10

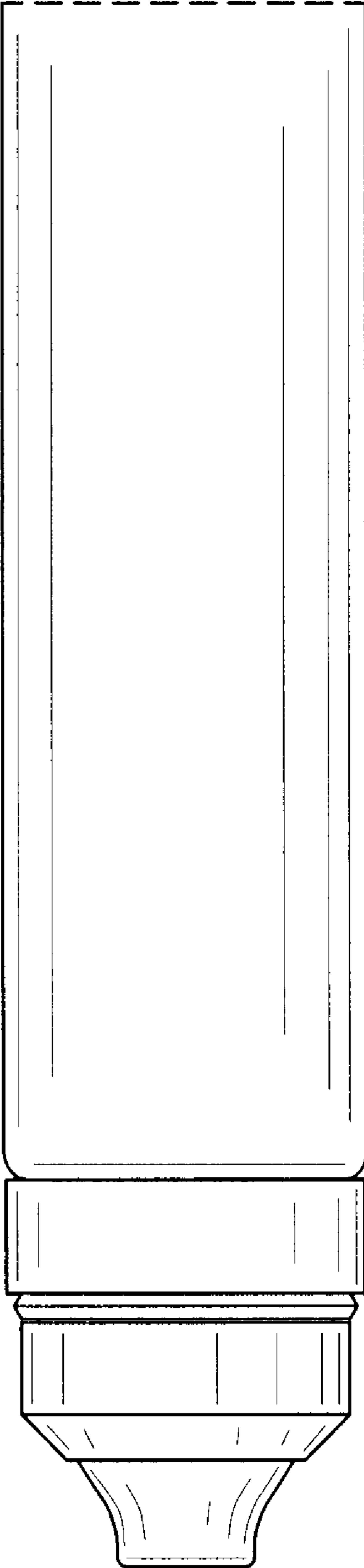


FIG. 12

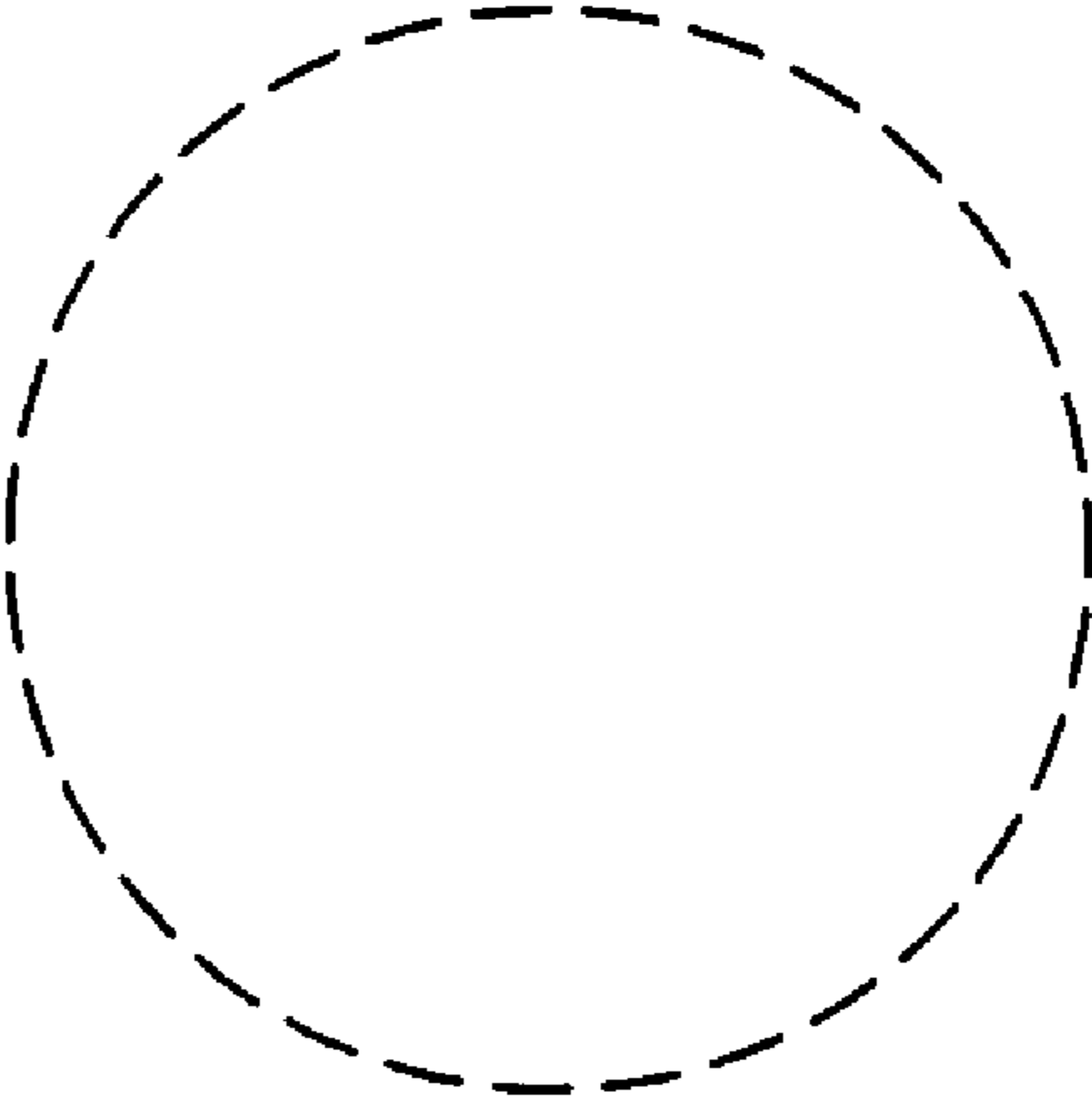


FIG. 11

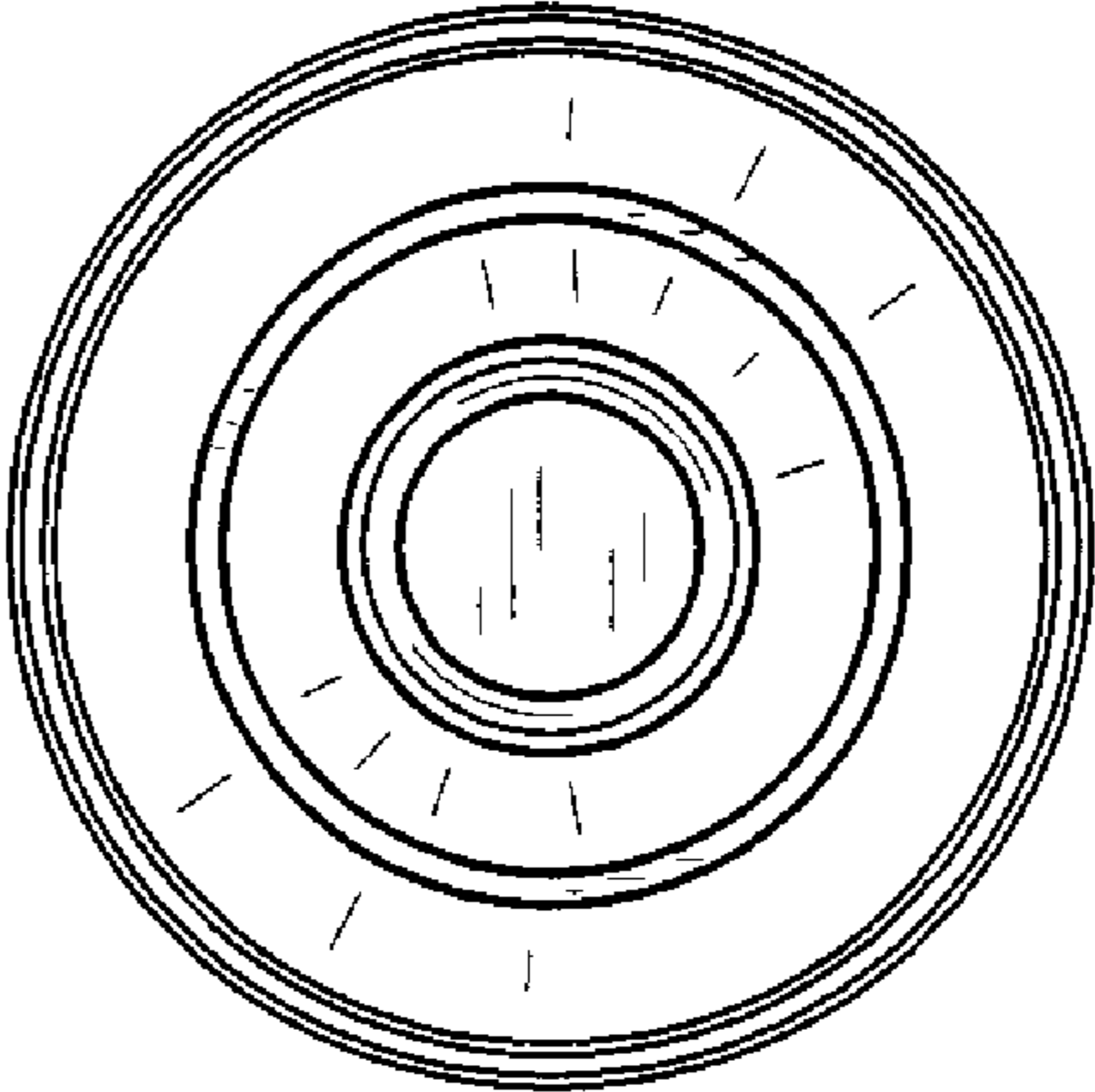


FIG. 13

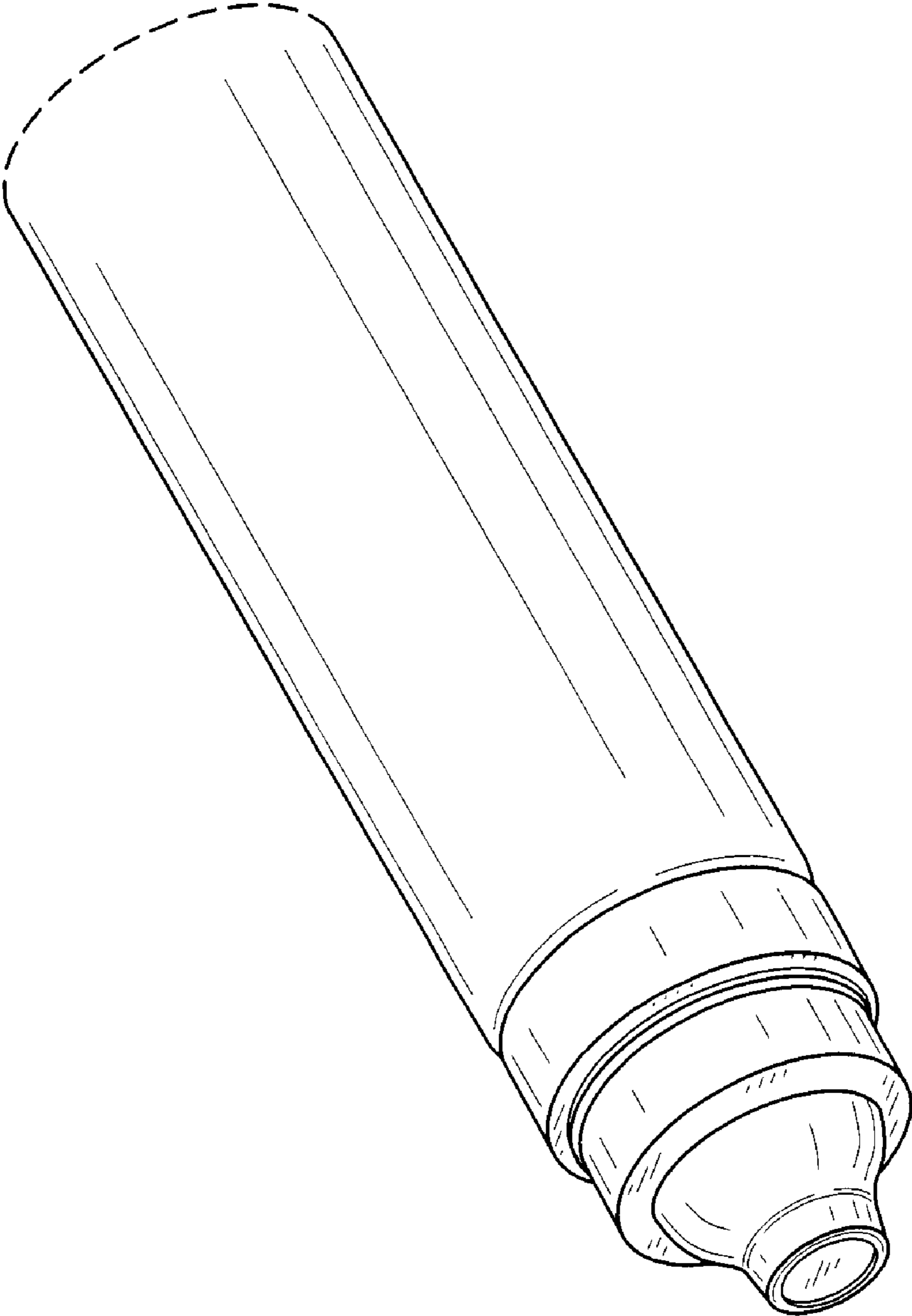


FIG. 14

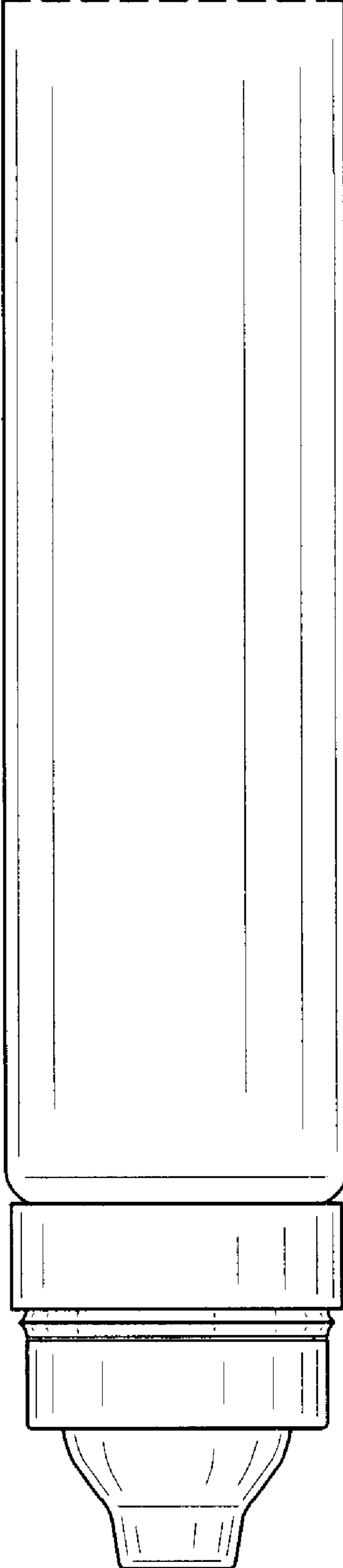


FIG. 16

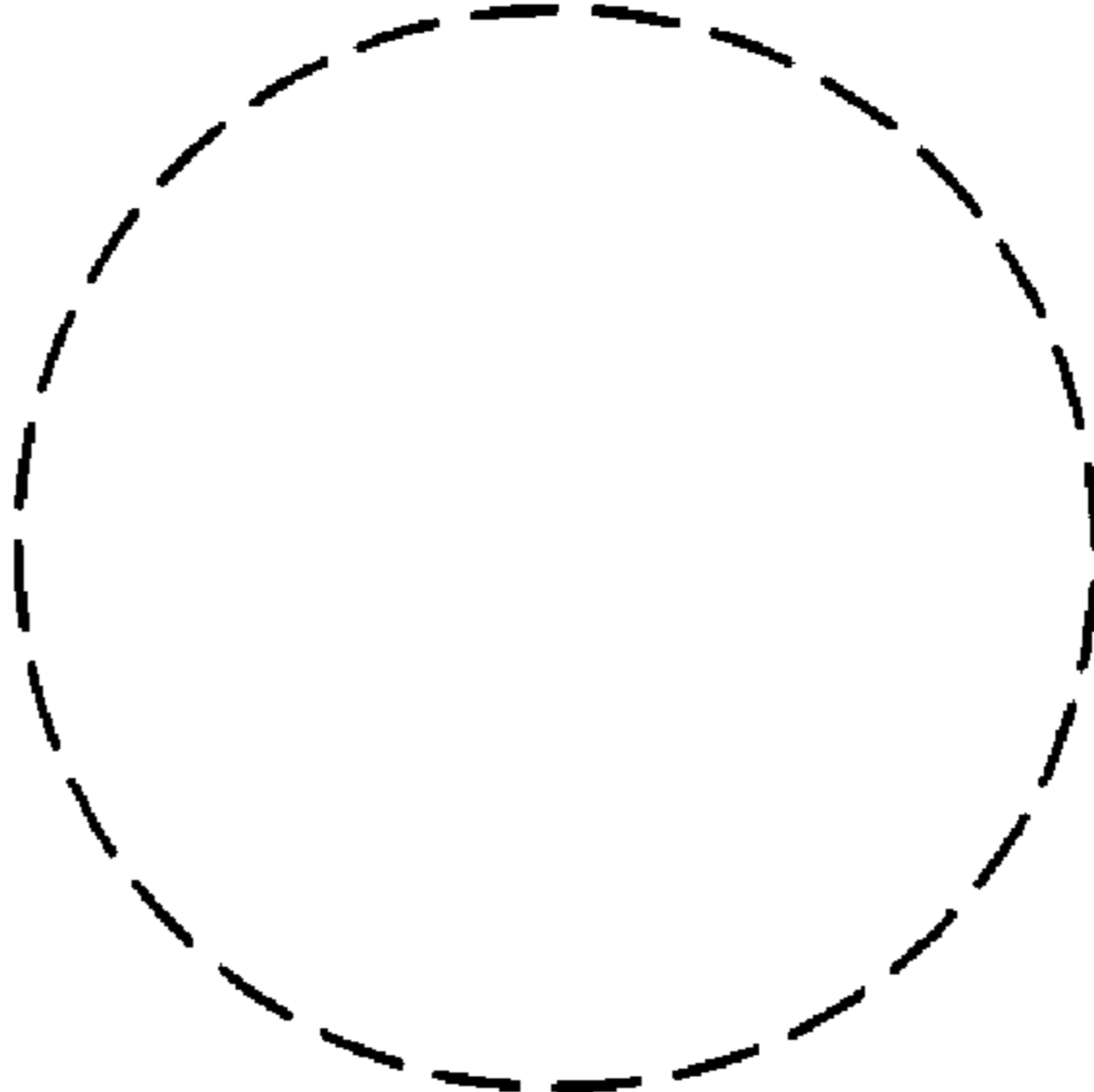


FIG. 15

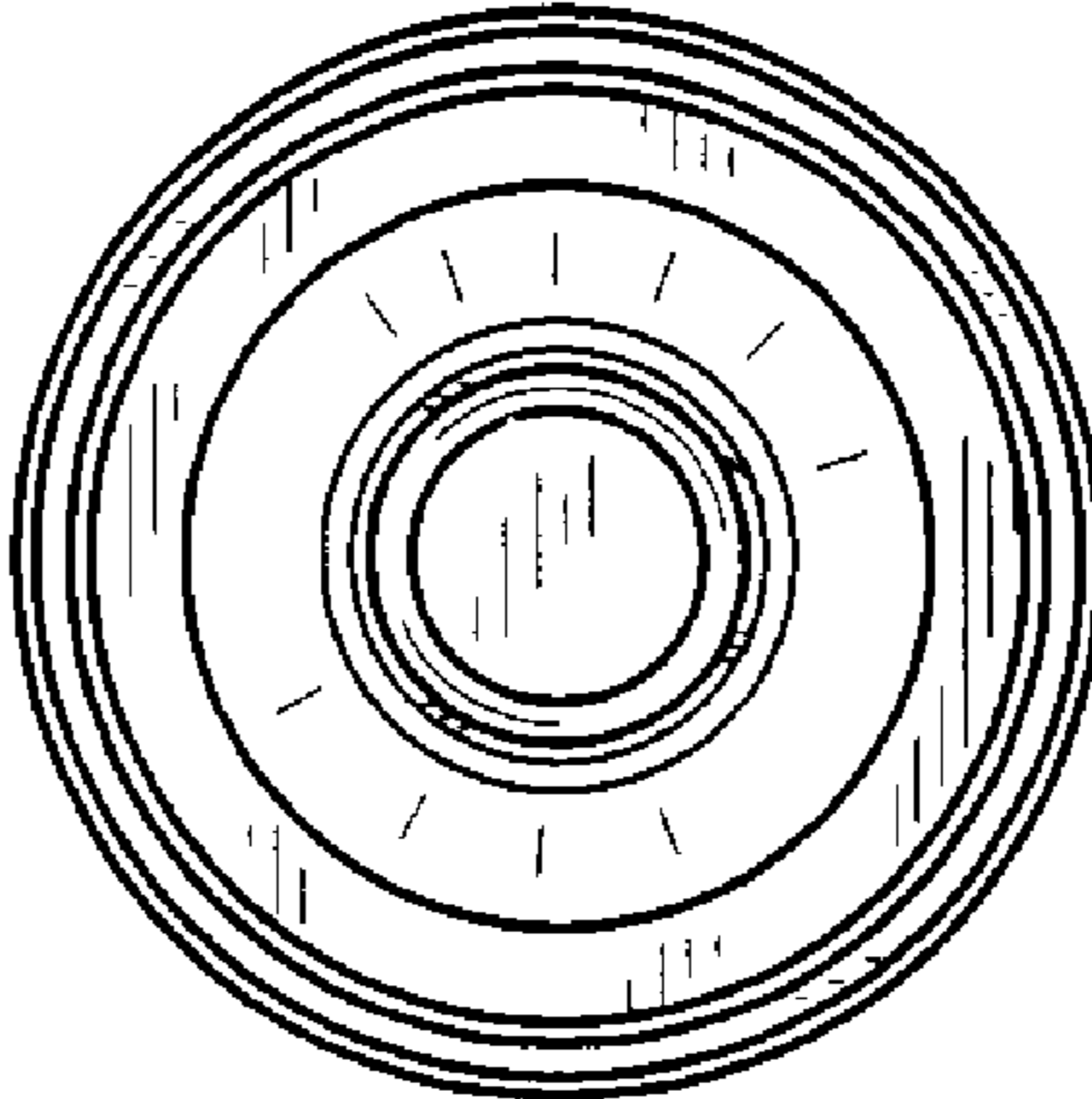


FIG. 17

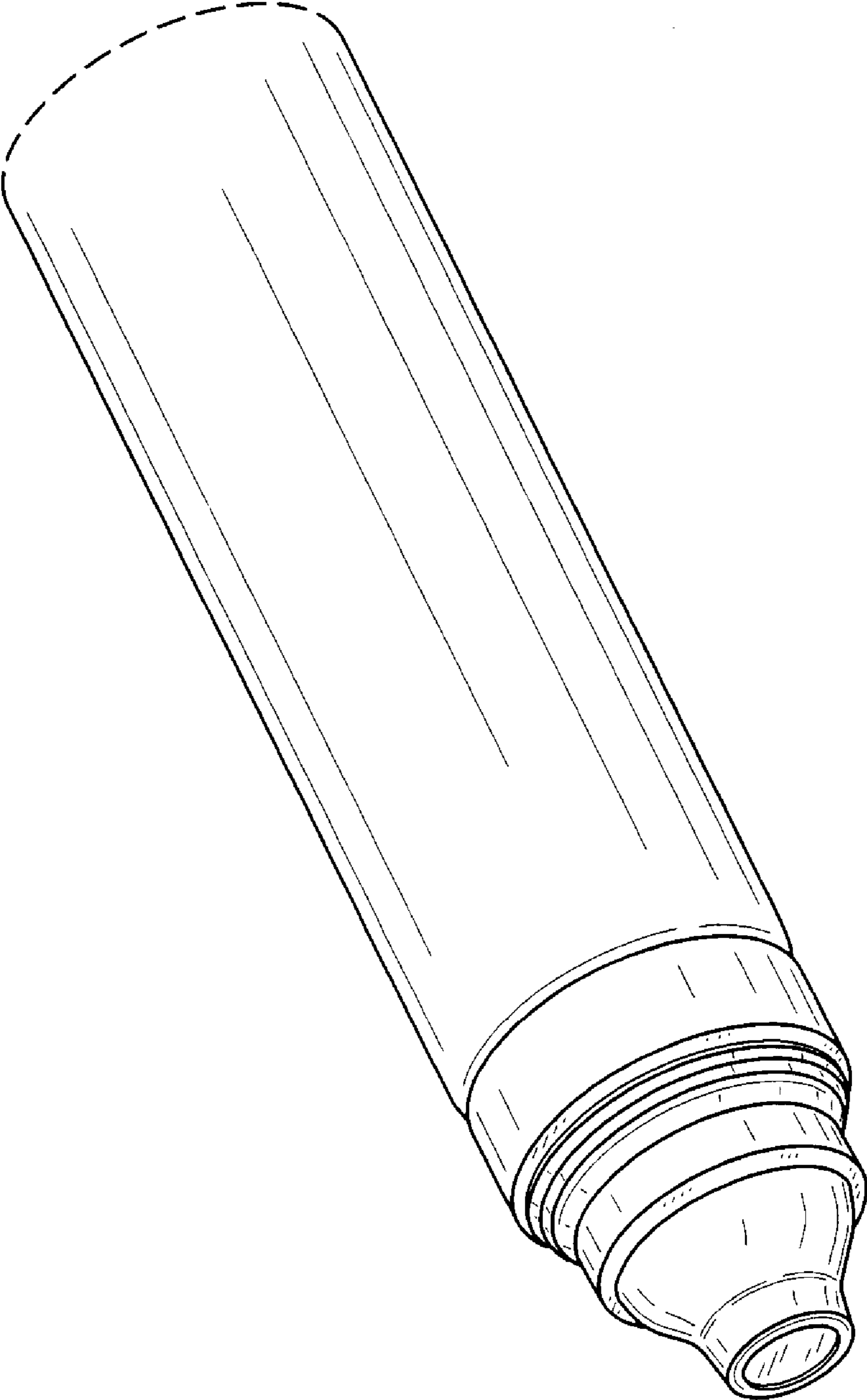


FIG. 18

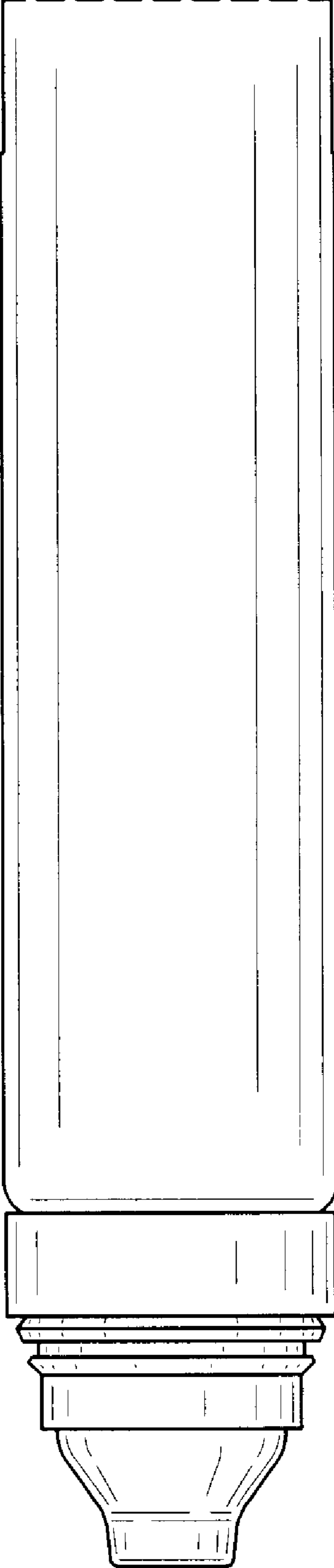


FIG. 20

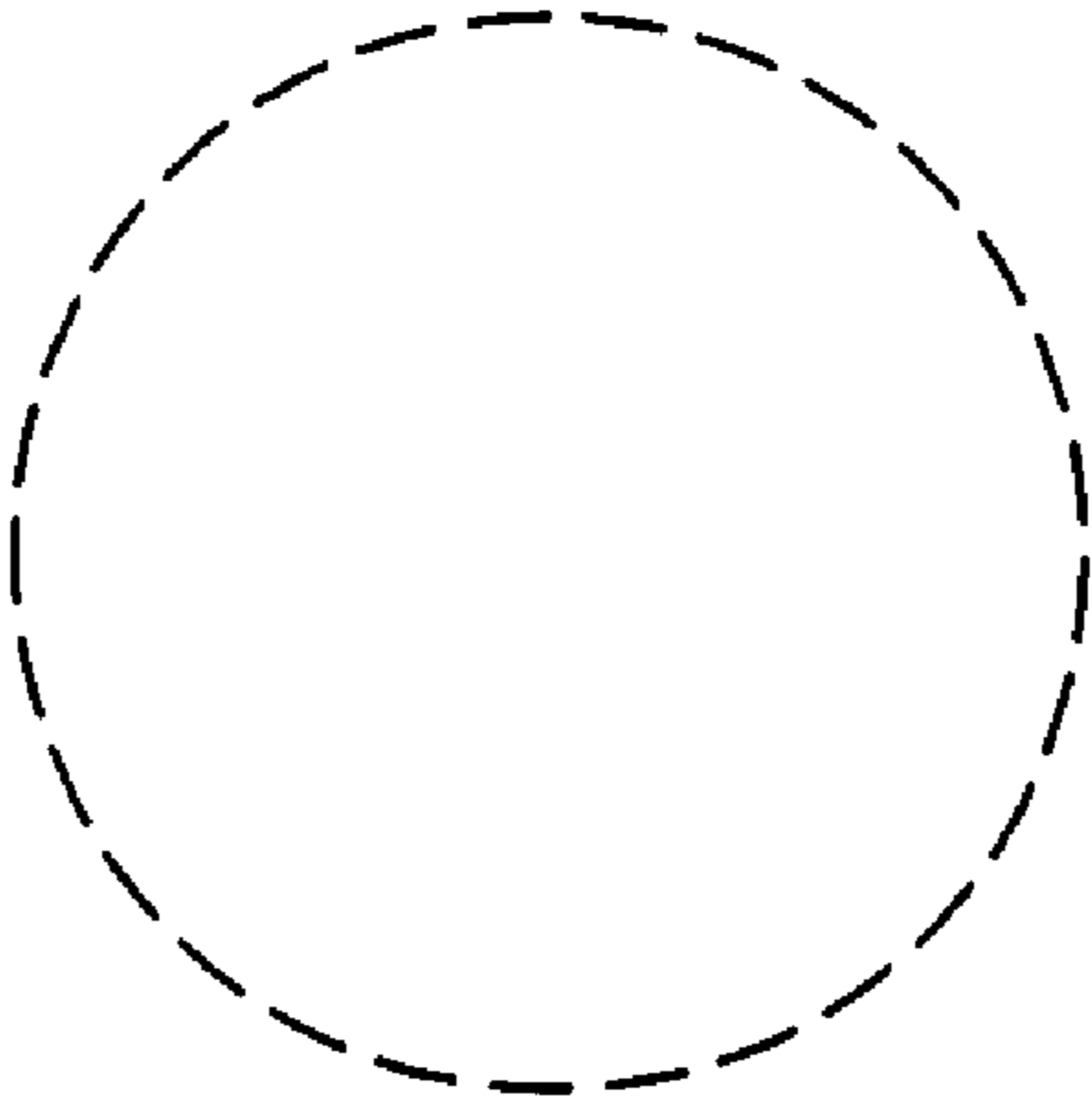


FIG. 19

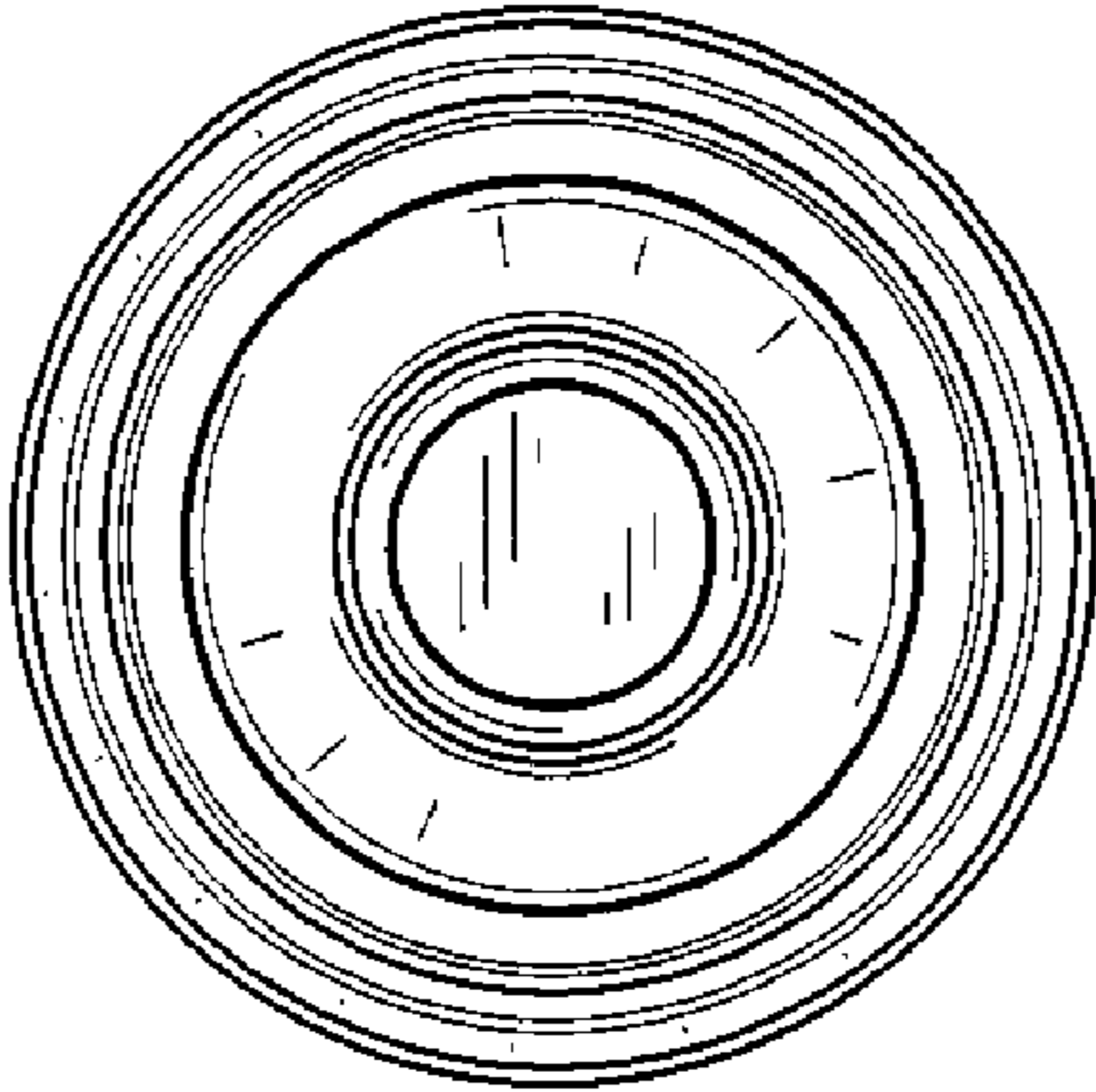


FIG. 21

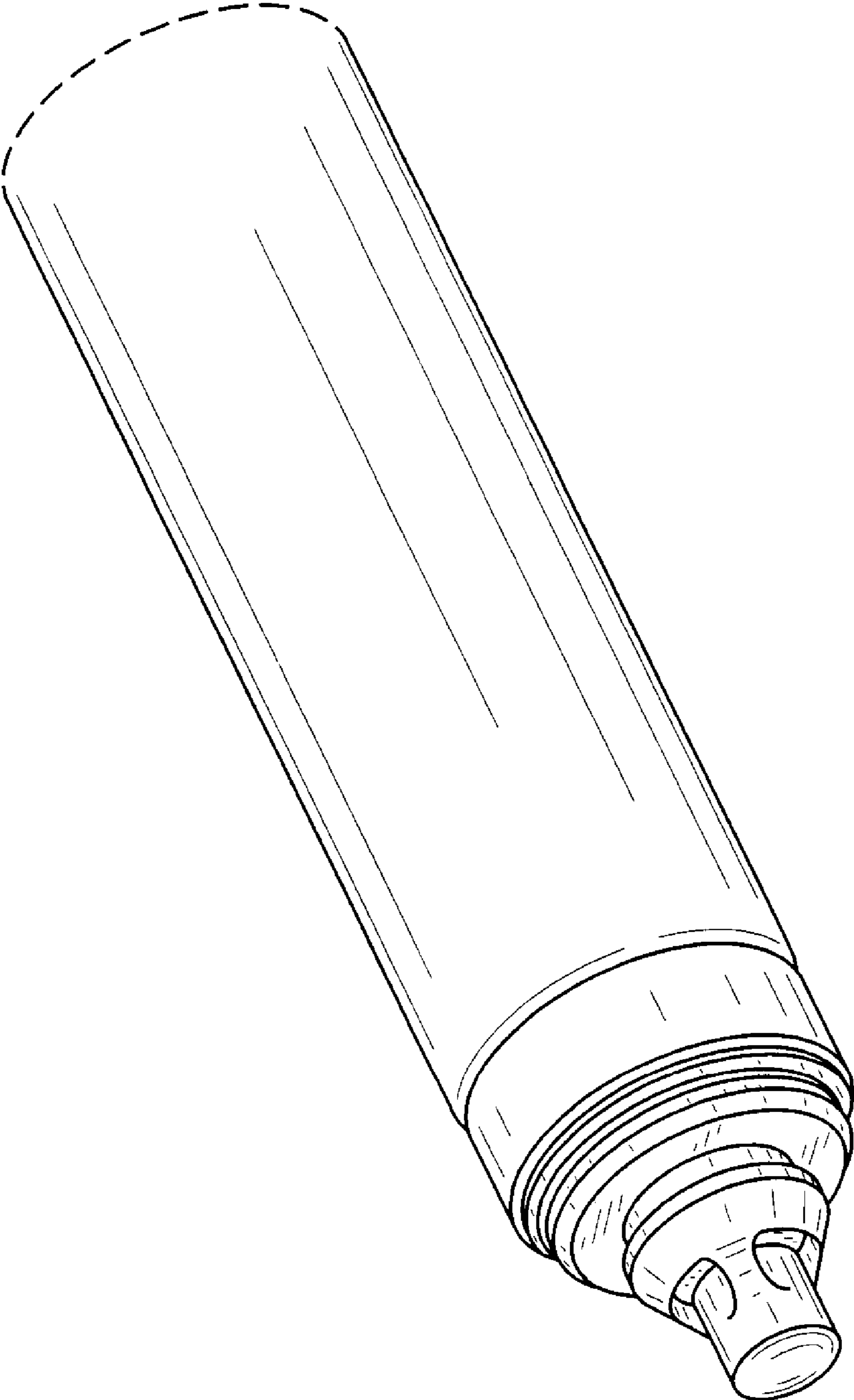


FIG. 22

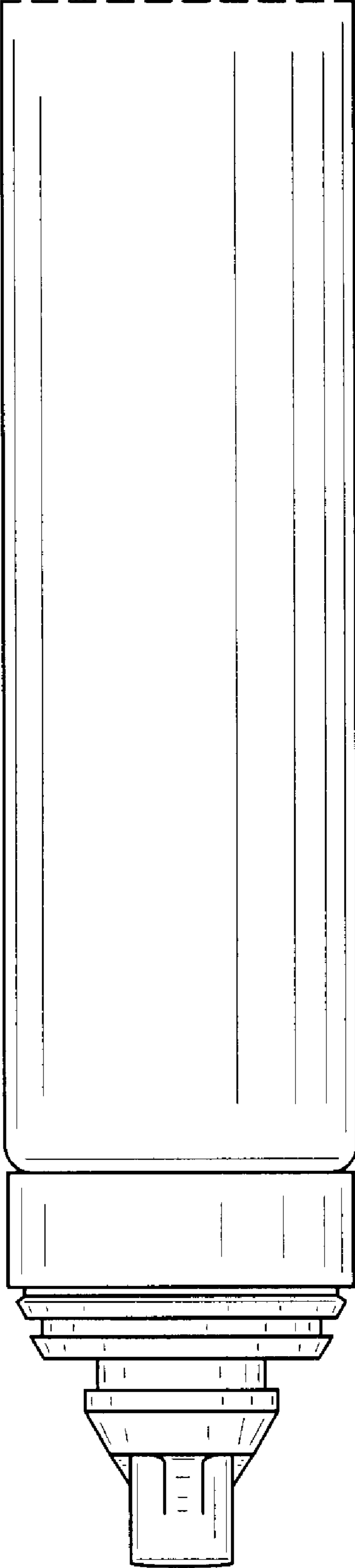


FIG. 24

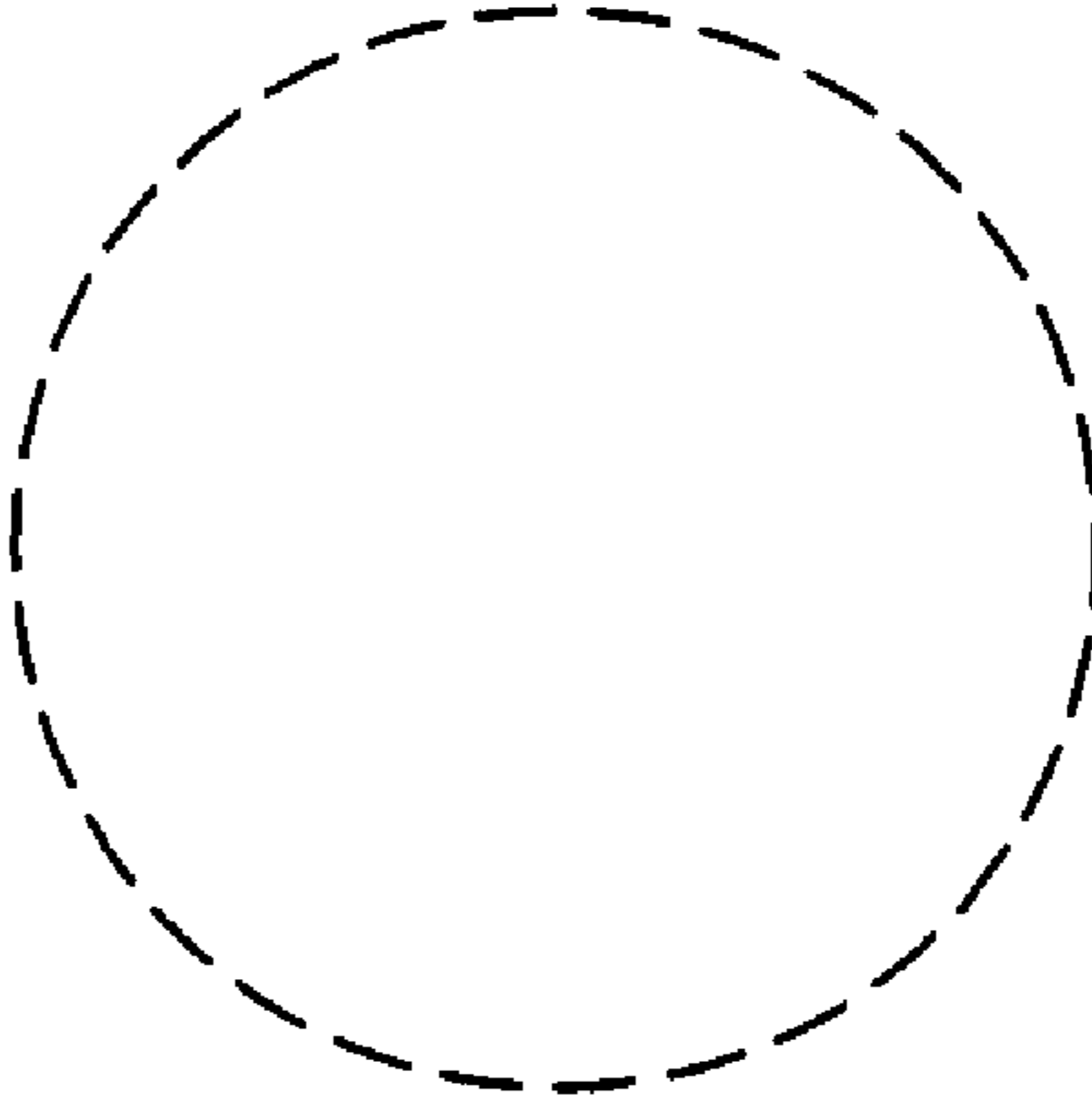


FIG. 23

