



US00D864151S

(12) **United States Design Patent** (10) **Patent No.:** **US D864,151 S**
Zhang et al. (45) **Date of Patent:** **** *Oct. 22, 2019**

(54) **EARPHONES**

(71) Applicant: **Shenzhen Fogaap Technologies Co., Ltd.**, Shenzhen, Guangdong Province (CN)

(72) Inventors: **Haixing Zhang**, Shenzhen (CN);
Lianpeng Wu, Shenzhen (CN)

(73) Assignee: **Shenzhen Fogaap Technologies Co., Ltd.** (CN)

(*) Notice: This patent is subject to a terminal disclaimer.

(**) Term: **15 Years**

(21) Appl. No.: **29/631,618**

(22) Filed: **Dec. 30, 2017**

(30) **Foreign Application Priority Data**

Oct. 20, 2017 (CN) 2017 3 0503191

(51) **LOC (12) Cl.** **14-01**

(52) **U.S. Cl.**
USPC **D14/205**

(58) **Field of Classification Search**

USPC D14/205, 223; D13/103, 107, 184;
D3/201, 319, 203.1, 294, 218; D9/721,
D9/456, 424, 423, 715, 418, 430, 432;
181/129, 130, 135; 379/430, 431;
381/380, 381; 455/90.3, 575.1, 569.1;
220/4.23, 377, 200, 523, 844; 206/320,
206/525, 775, 0.5; 320/108; D24/174;
128/86, 865, 866, 864

CPC B65D 5/00; H04R 1/10; H04R 1/1016;
H04R 1/1066; H04R 5/033; H04R 5/0335

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

462,990	A *	11/1891	Oppenheimer	424/451
1,087,843	A *	2/1914	Smith	A61K 9/2072
				101/35
2,670,737	A *	3/1954	Cantor	A61F 11/08
				128/864
2,826,484	A *	3/1958	Buehler	C02F 1/688
				206/0.5
3,508,678	A *	4/1970	Noren	A61J 3/071
				220/785
3,664,495	A *	5/1972	Graham	A61J 3/071
				220/8
3,702,653	A *	11/1972	Mottin et al.	A61J 1/03
				206/459.5
3,822,816	A *	7/1974	Doyle	B25C 5/0257
				227/119
D235,483	S *	6/1975	Leight	D24/106
D245,202	S *	7/1977	Asker	128/864
4,539,708	A *	9/1985	Norris	H04B 1/088
				455/100
D281,033	S *	10/1985	Mohri	D3/295

(Continued)

Primary Examiner — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — PROI Intellectual Property US

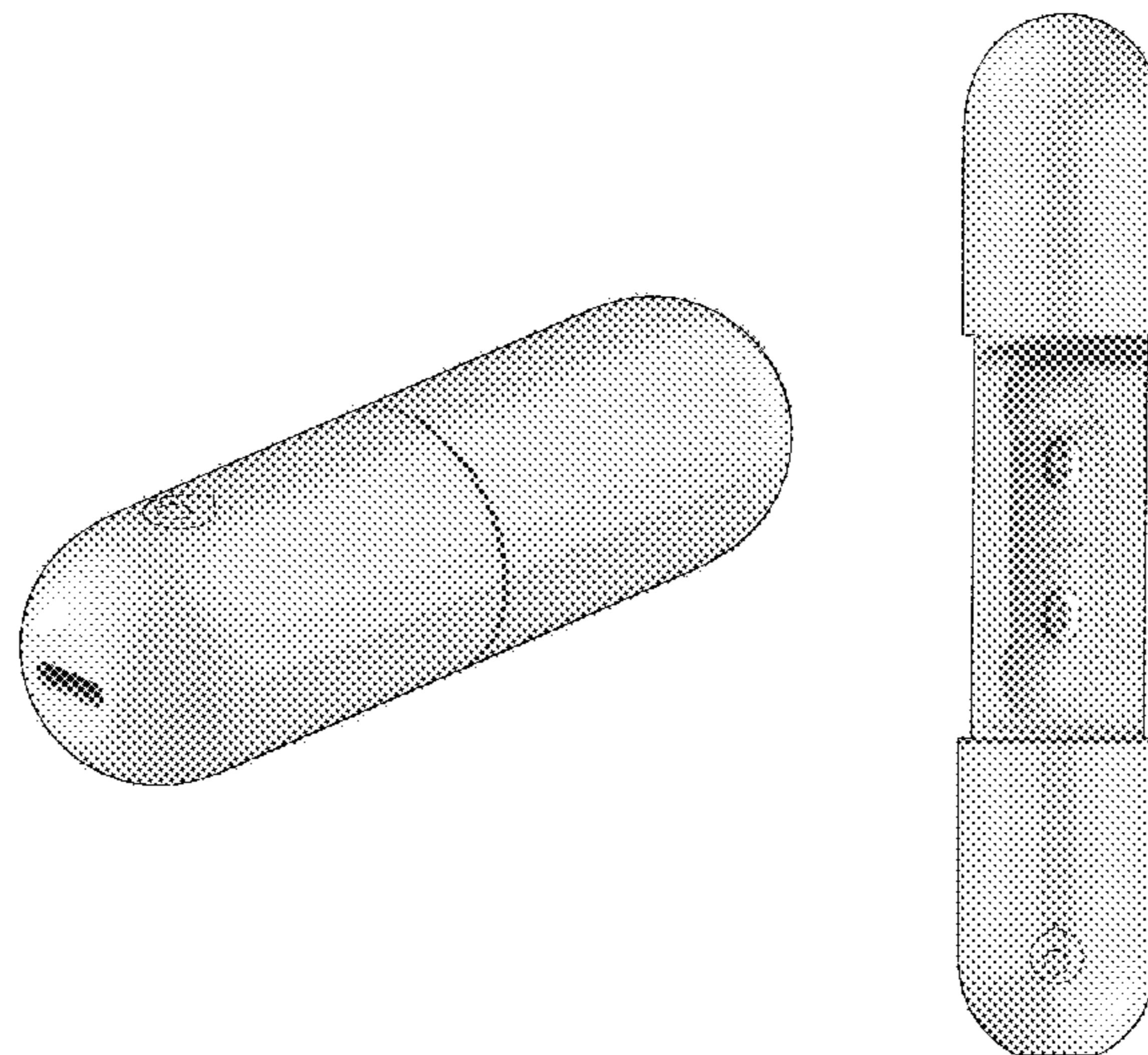
(57) **CLAIM**

The ornamental design for earphones, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of earphones;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a top view thereof;
FIG. 5 is a bottom view thereof;
FIG. 6 is a disassembled front view thereof;
FIG. 7 is a disassembled perspective view thereof; and,
FIG. 8 is a disassembled front view thereof in use.
The broken lines on the drawings depict environment that forms no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,822,618 A * 4/1989 Schweiger A61J 3/071
 424/453
 D333,917 S * 3/1993 Daido D3/218
 5,314,696 A * 5/1994 Paulos A61J 3/07
 424/451
 D361,066 S * 8/1995 Langhorn D14/142
 D473,859 S * 4/2003 Rivera D14/223
 6,656,501 B1 * 12/2003 Cooker A61K 9/4808
 424/400
 D518,727 S * 4/2006 Haley D22/116
 D541,412 S * 4/2007 Benner D24/106
 D548,325 S * 8/2007 Benner D24/106
 7,264,081 B2 * 9/2007 Bruck A61F 11/08
 181/129
 D584,398 S * 1/2009 Benner D24/106
 D595,837 S * 7/2009 Benner D24/106
 D598,374 S * 8/2009 Sasada D13/108
 D605,182 S * 12/2009 Fagnot D14/223
 D614,168 S * 4/2010 Rogers D14/206
 D639,280 S * 6/2011 Hayes D14/223
 D654,056 S * 2/2012 Hoggarth D14/205
 D656,922 S * 4/2012 Massaro D14/223
 D662,045 S * 6/2012 Gotou D13/107
 D664,920 S * 8/2012 Huang D13/107

D680,102 S * 4/2013 Chen D14/223
 8,731,227 B2 * 5/2014 Hwang H04R 1/1091
 181/135
 D751,053 S * 3/2016 Shin D14/205
 9,402,120 B2 * 7/2016 Linden H04R 1/1025
 9,438,989 B2 * 9/2016 Chu H04R 1/2811
 D772,572 S * 11/2016 Palmborg D3/201
 D772,840 S * 11/2016 Forslund D14/205
 D776,634 S * 1/2017 Lee D14/205
 D792,378 S * 7/2017 Brunner D14/223
 D795,225 S * 8/2017 Sumii D14/223
 D804,445 S * 12/2017 Golnik D14/205
 D804,455 S * 12/2017 Hsieh D14/223
 D815,034 S * 4/2018 Zhao D13/107
 D821,970 S * 7/2018 Loermann D13/107
 2004/0251871 A1 * 12/2004 Dvorak H02J 7/025
 320/108
 2007/0154042 A1 * 7/2007 Buckley B65D 85/38
 381/322
 2010/0027249 A1 * 2/2010 Connor F21L 4/08
 362/183
 2011/0110552 A1 * 5/2011 Pang H04R 1/1033
 381/374
 2012/0177240 A1 * 7/2012 Hwang H04R 1/1058
 381/379
 2017/0064433 A1 * 3/2017 Hirsch H04R 1/1041

* cited by examiner

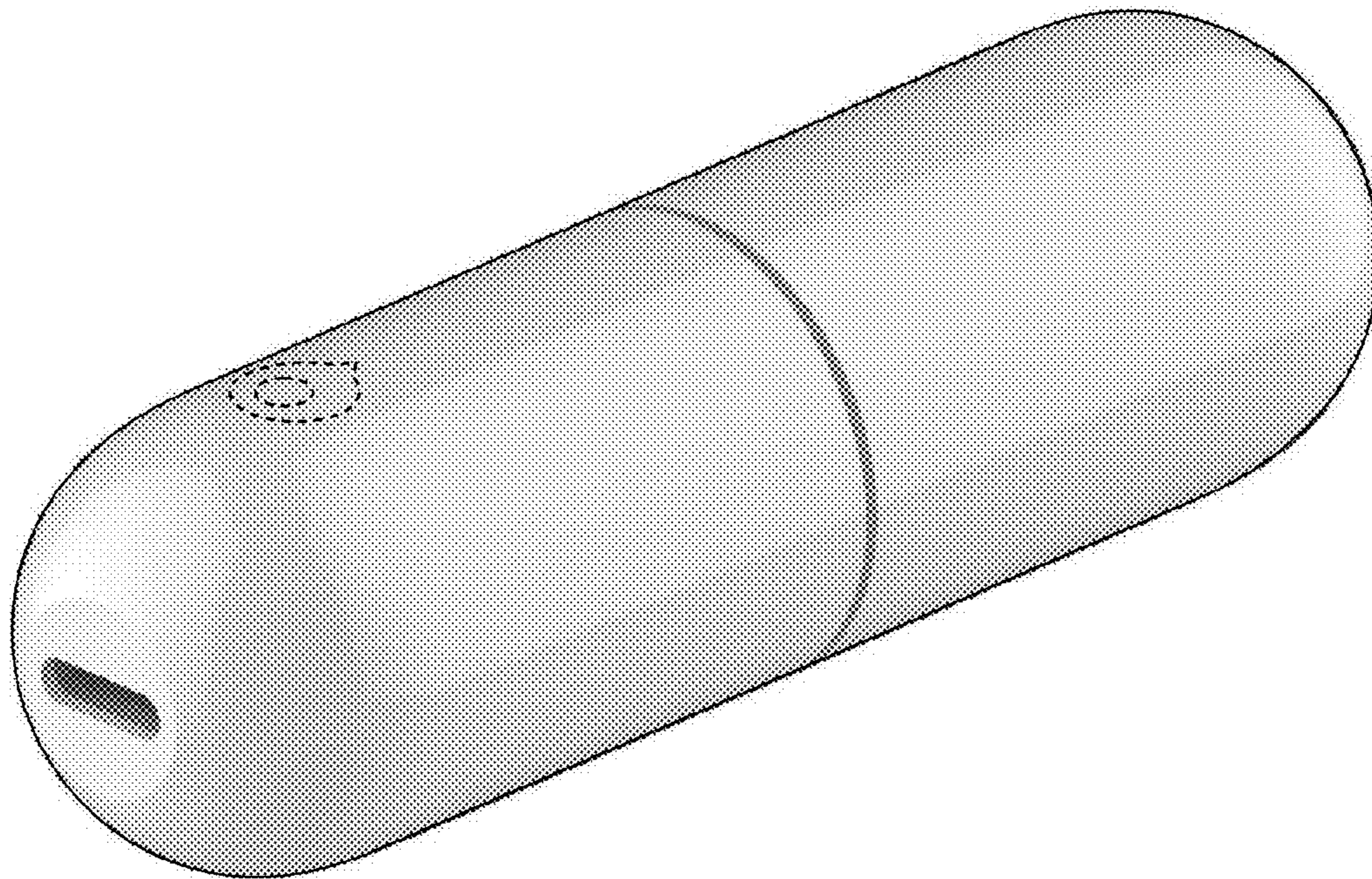


FIG. 1

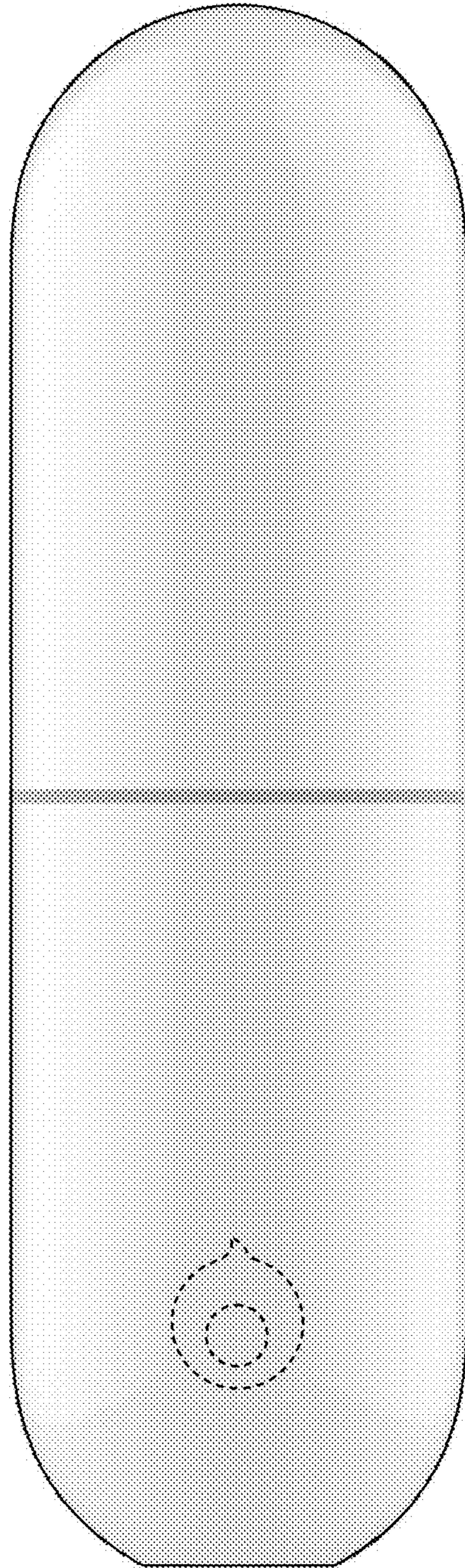


FIG. 2

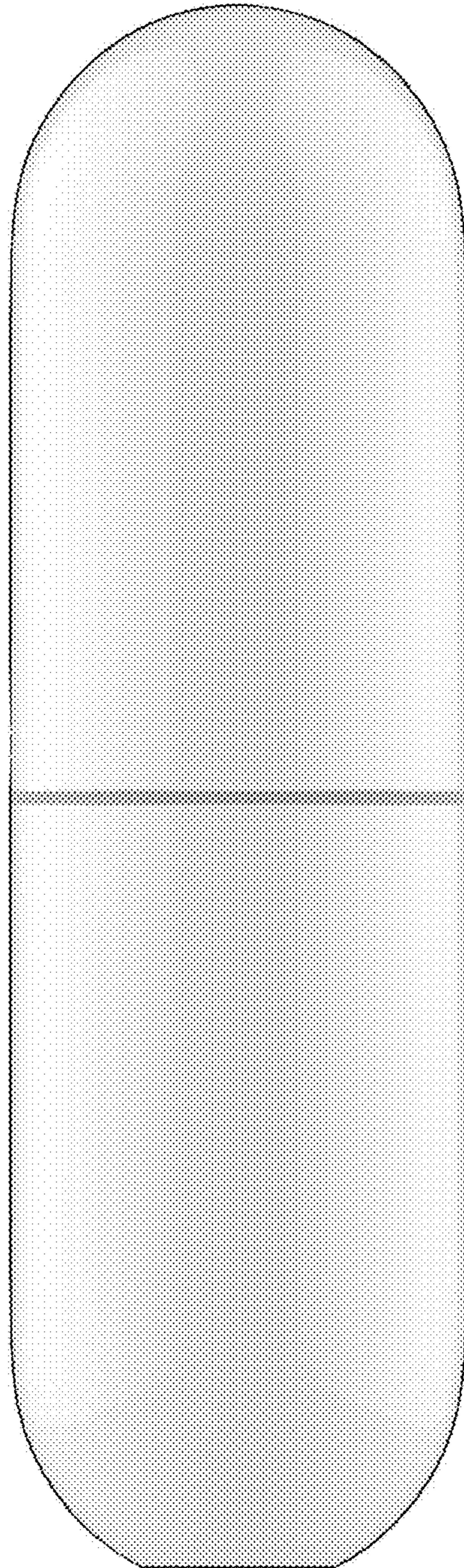


Fig. 3

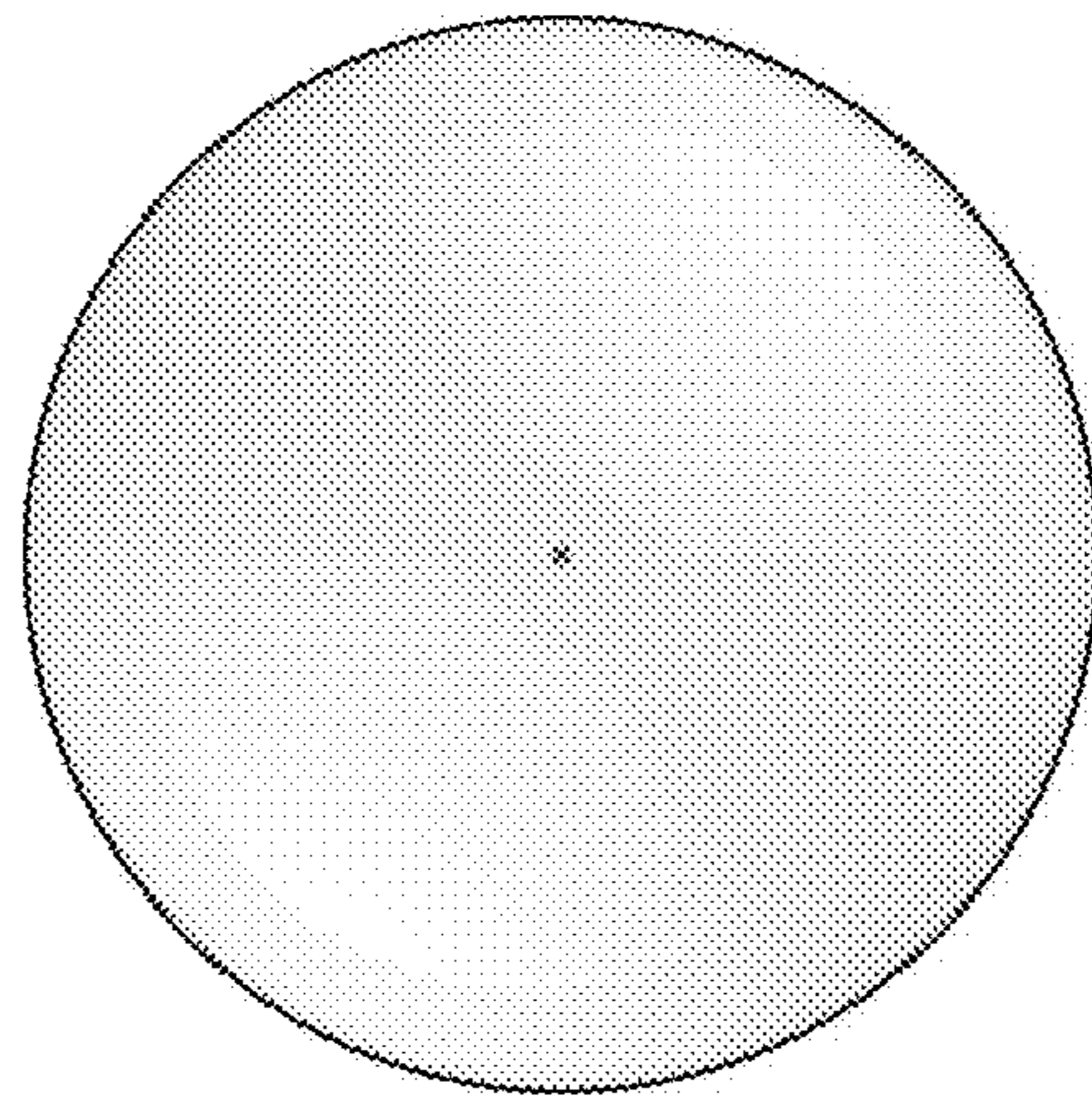


Fig. 4

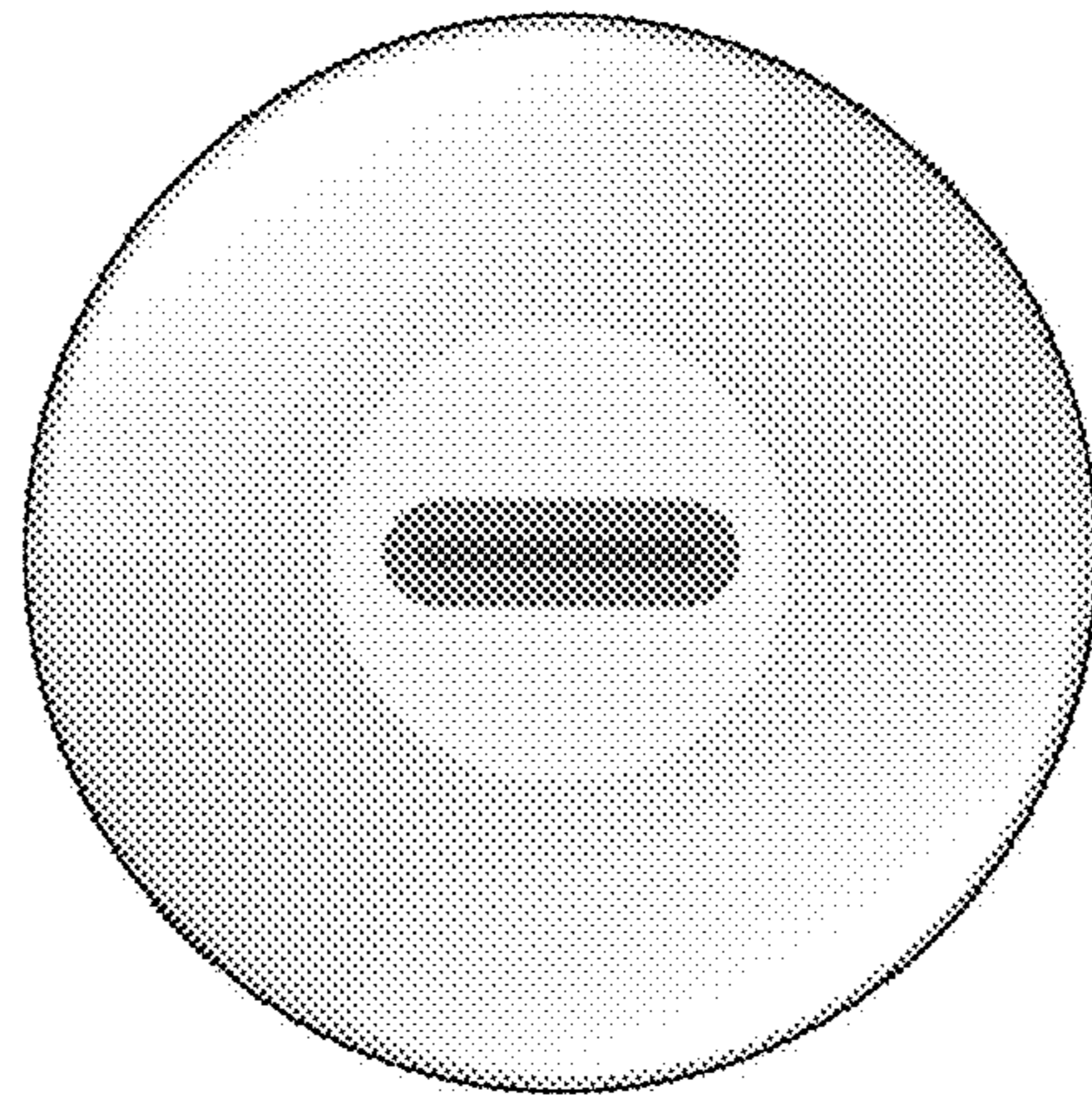


Fig. 5

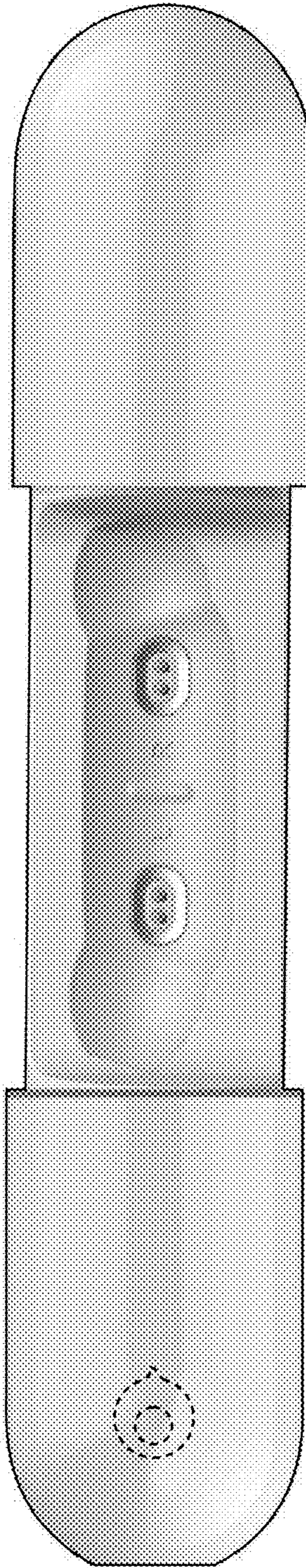


FIG. 6

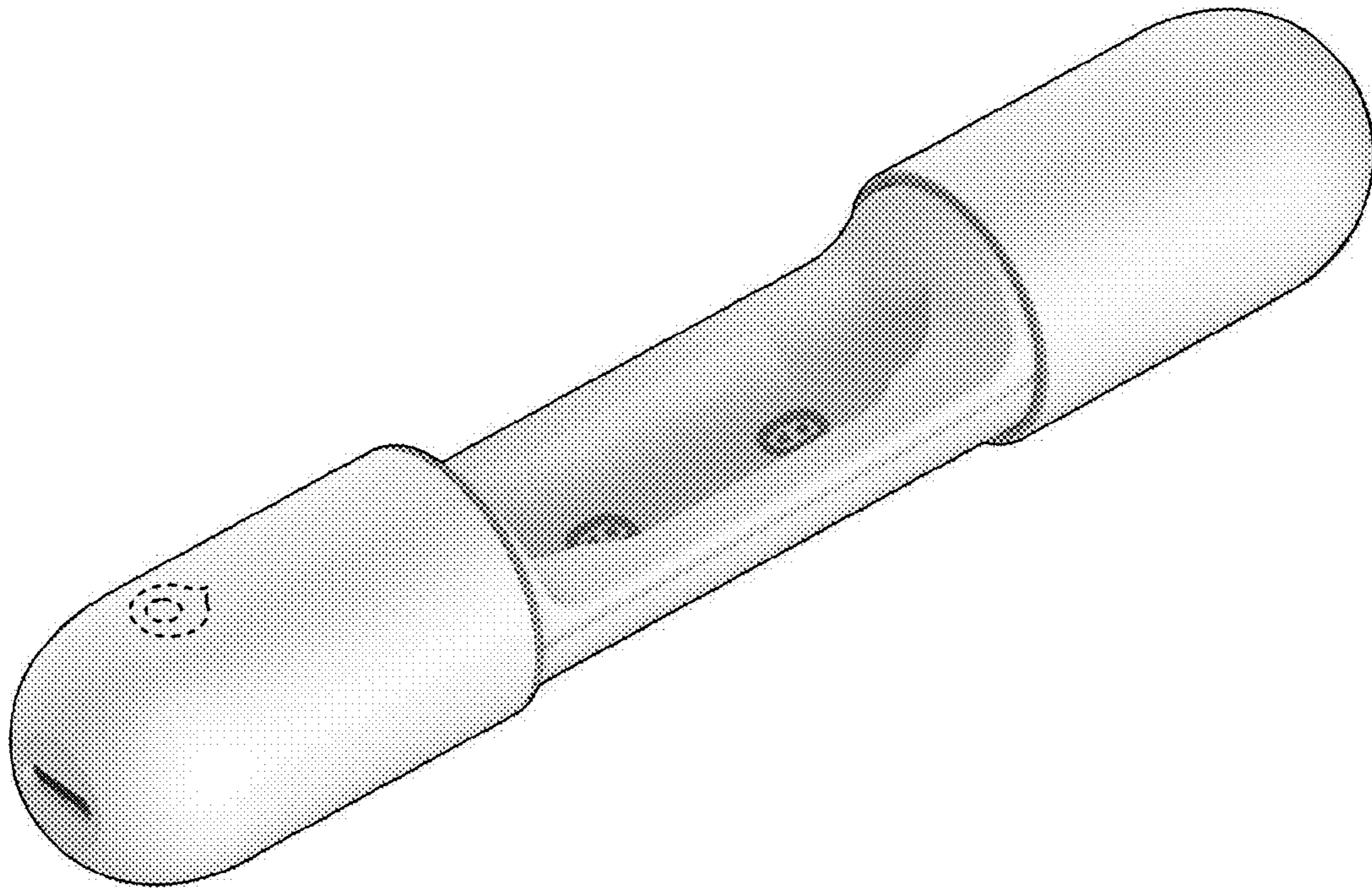


FIG. 7

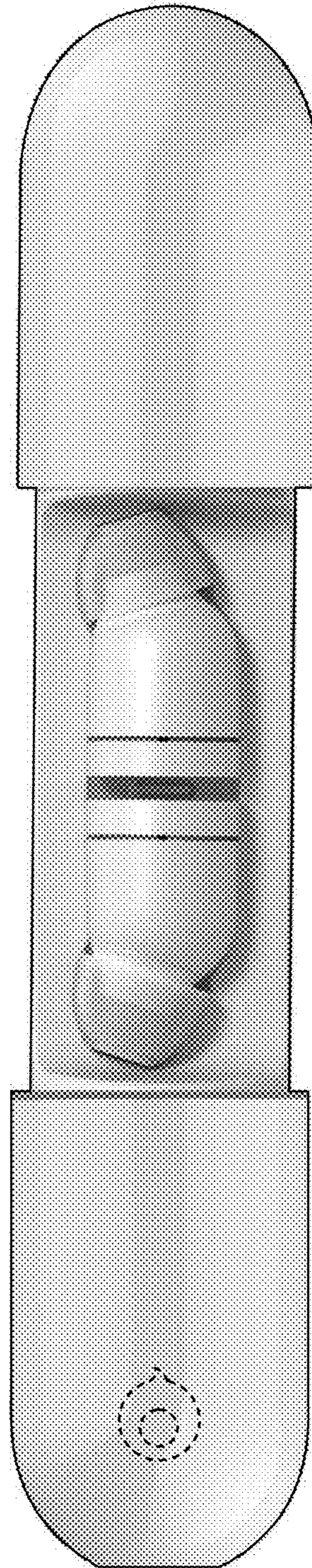


FIG. 8