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(12) **United States Design Patent**
Nagareda

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(54) **ULTRASONIC TRANSDUCER FOR A FISH FINDER**

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(30) **Foreign Application Priority Data**

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(51) **LOC (13) Cl.** **10-05**

(52) **U.S. Cl.**
USPC **D10/65; D22/134**

(58) **Field of Classification Search**
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D22/134, 199, 146
CPC G01S 19/35; G01S 19/14; G01S 19/51;
G01S 15/8902; G01S 15/96; G01S 15/93;
G01S 15/88; G01S 17/02; G01S 17/87;
G01S 7/521; G10K 11/006

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 5,463,597 A * 10/1995 Harlev G01S 7/003
43/17.1
- 5,771,205 A * 6/1998 Currier A01K 97/00
43/17.1
- D585,521 S * 1/2009 Crawford D22/134
- 8,186,097 B2 * 5/2012 Crawford A01K 61/90
224/103
- D742,480 S * 11/2015 Zhang D22/134

- D762,130 S * 7/2016 Hays D10/70
- D762,131 S * 7/2016 Hays D10/70
- D818,852 S * 5/2018 Chen D10/65
- 2005/0170718 A1 * 8/2005 Rogerson B63B 22/02
441/3

(Continued)

FOREIGN PATENT DOCUMENTS

- CN 303189024 * 11/2014
- CN 303561707 * 7/2015

(Continued)

OTHER PUBLICATIONS

Deeper Store, Start Smart Fish Finder, Date first available May 1, 2018, [online]retrieved Apr. 8, 2022,available from https://www.amazon.com/Deeper-Start-Smart-Fish-Finder/dp/B07BR2FQZN/ref=psdc_551460_t1_B08LDZWMKF (Year: 2018).*

(Continued)

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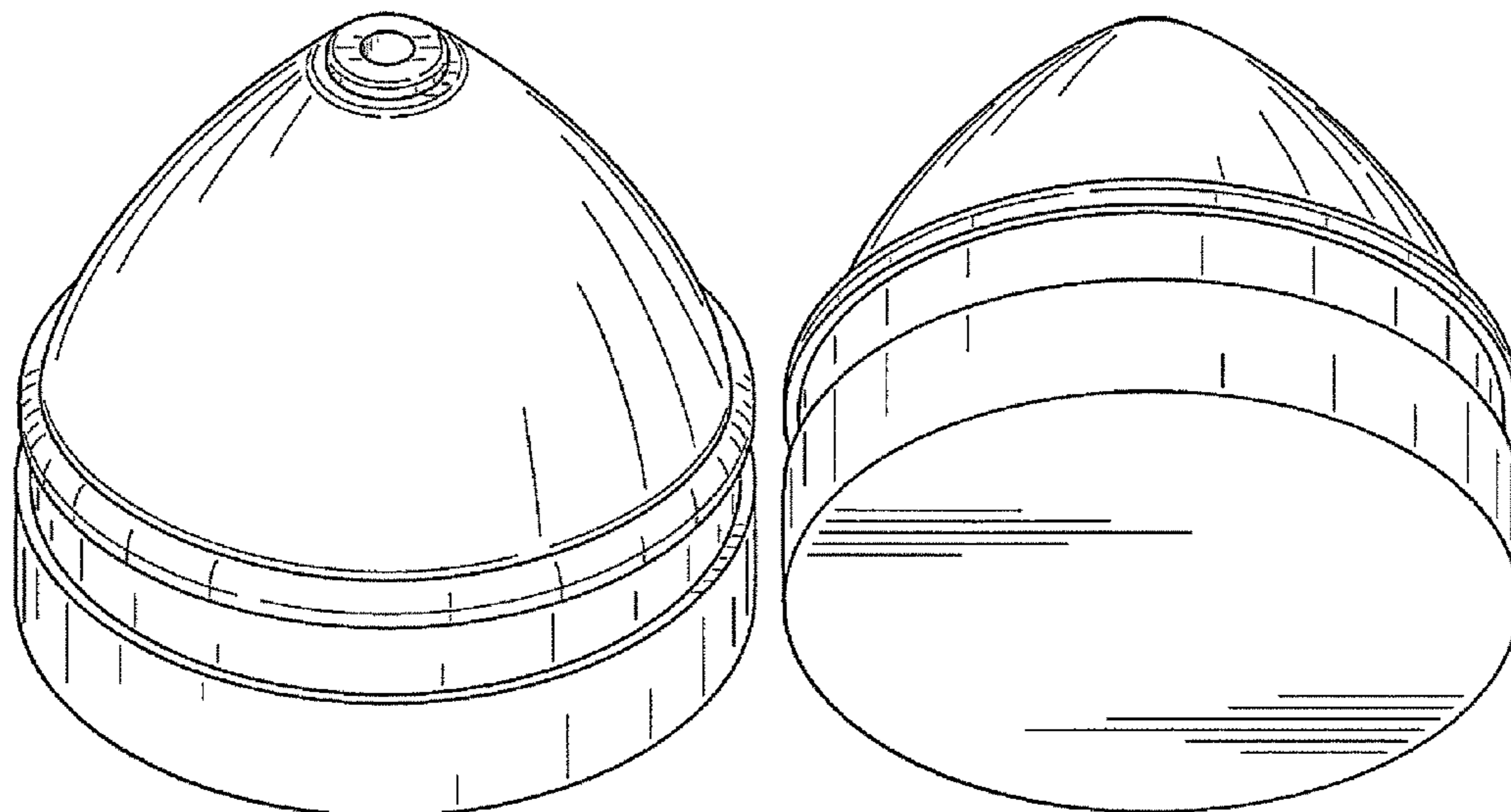
(57) **CLAIM**

The ornamental design for an ultrasonic transducer for a fish finder, as shown.

DESCRIPTION

FIG. 1 is a top side perspective view of the ultrasonic transducer for a fish finder showing my new design; FIG. 2 is a left side view, with right, front and back sides all the same due to the rotational symmetry of the ultrasonic transducer; FIG. 3 is a top view thereof; FIG. 4 is a bottom view thereof; FIG. 5 is a bottom side perspective view thereof; and, FIG. 6 is a cross-sectional view taking along the line 6-6 of FIG. 2.

1 Claim, 3 Drawing Sheets



(56)

References Cited

OTHER PUBLICATIONS

U.S. PATENT DOCUMENTS

2014/0009481 A1* 1/2014 Butterworth G01S 7/58
345/581
2014/0057677 A1* 2/2014 Liubinas H04M 1/026
367/87
2015/0346339 A1* 12/2015 Zenanko A01K 97/125
367/173
2017/0023676 A1* 1/2017 Laster G01S 7/003

FOREIGN PATENT DOCUMENTS

CN 304191143 * 3/2017
CN 304302036 * 4/2017
CN 306823479 * 4/2021
CN 307140970 * 10/2021
JP 58-029670 7/1983
JP 2001-166056 6/2001
JP 1194104 1/2004
JP 1263875 2/2007
JP 1514390 12/2014

Yamo Dudo, Underwater Fish Finder, Date first available 2022, [online]retrieved Apr. 12, 2022,available from https://www.amazon.com/dp/B09T396N5V/ref=sspa_dk_detail_4?psc=1&pf_rd_p=b9951ce4-3bd8-4b04-9123-0fda35d6155e&pd_rd_wg=stRL1&pf_rd_r=3N25J0RNRAG3W4R2W0AD&pd_rd_w=wcLGf&pd_rd_r=7b... (Year: 2022).*

Garmin, Striker Cast,Date first available Oct. 27, 2020, [online]retrieved Apr. 12, 2022,available from https://www.amazon.com/dp/B08LDZWMKF/ref=sspa_dk_detail_2?pf_rd_p=dae498aa-ddd7-4672-8f8e-8f83deeac4ef&pd_rd_wg=pxrbQ&pf_rd_r=40YBHQ5CC2891H3CKK7K&pd_rd_w=CCwfa&pd_rd_r=71f85420... (Year: 2020).*

Pro-View Ice-Ducer Transducer, <https://store.vexilar.com/pro-view-ice-ducer-transducer.html>, Vexilar, Inc. 2020.

* cited by examiner

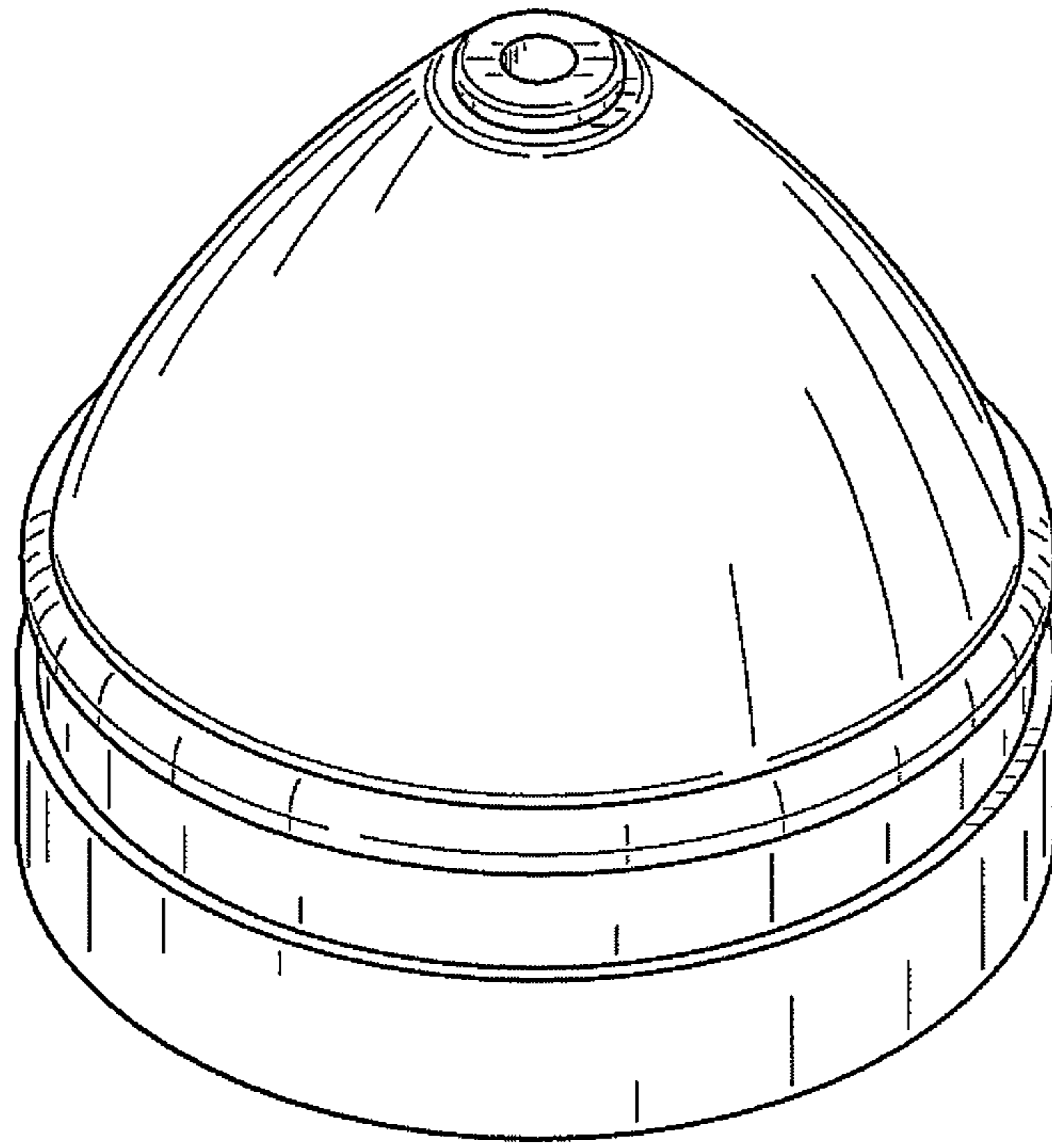


FIG. 1

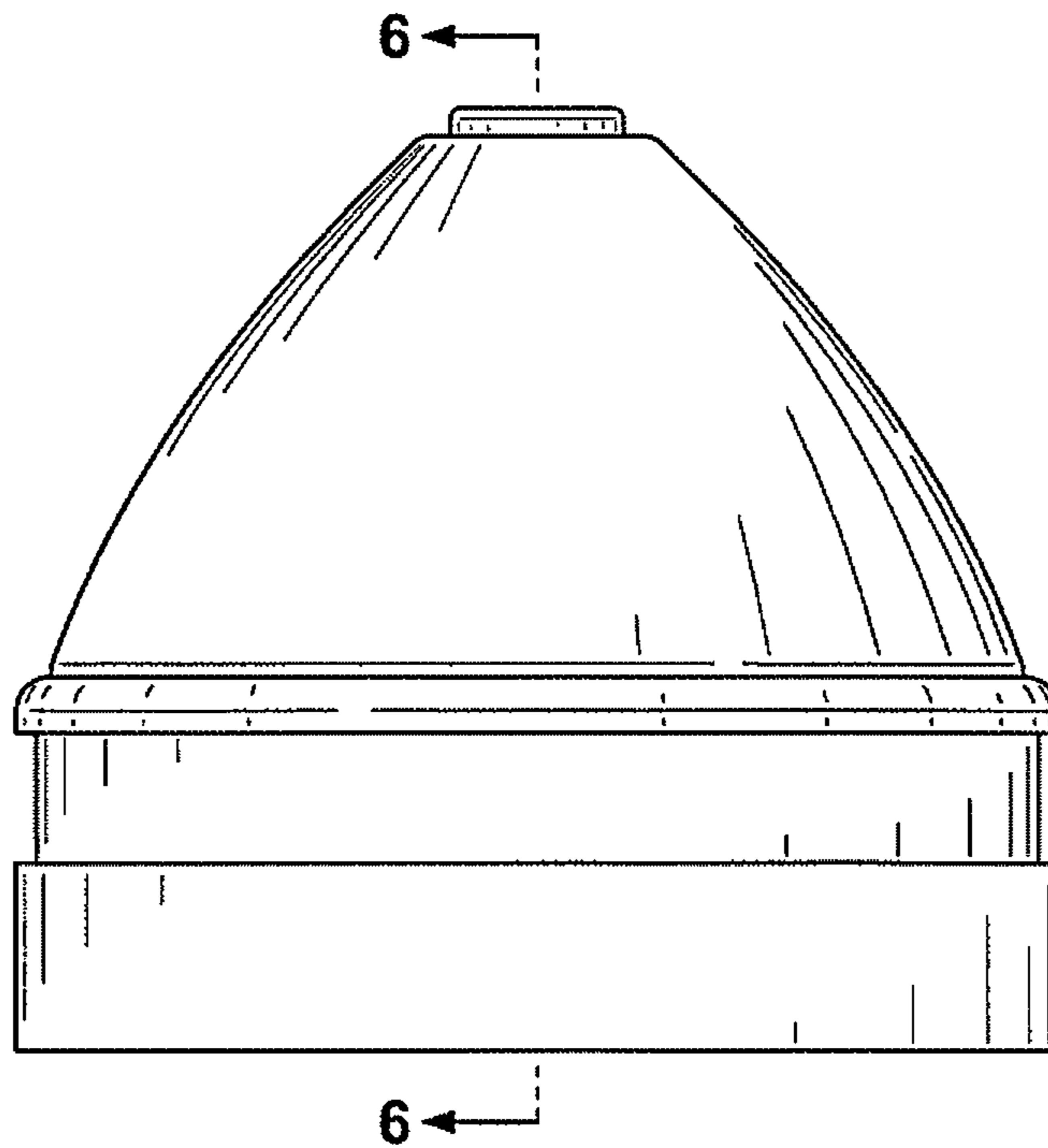


FIG. 2

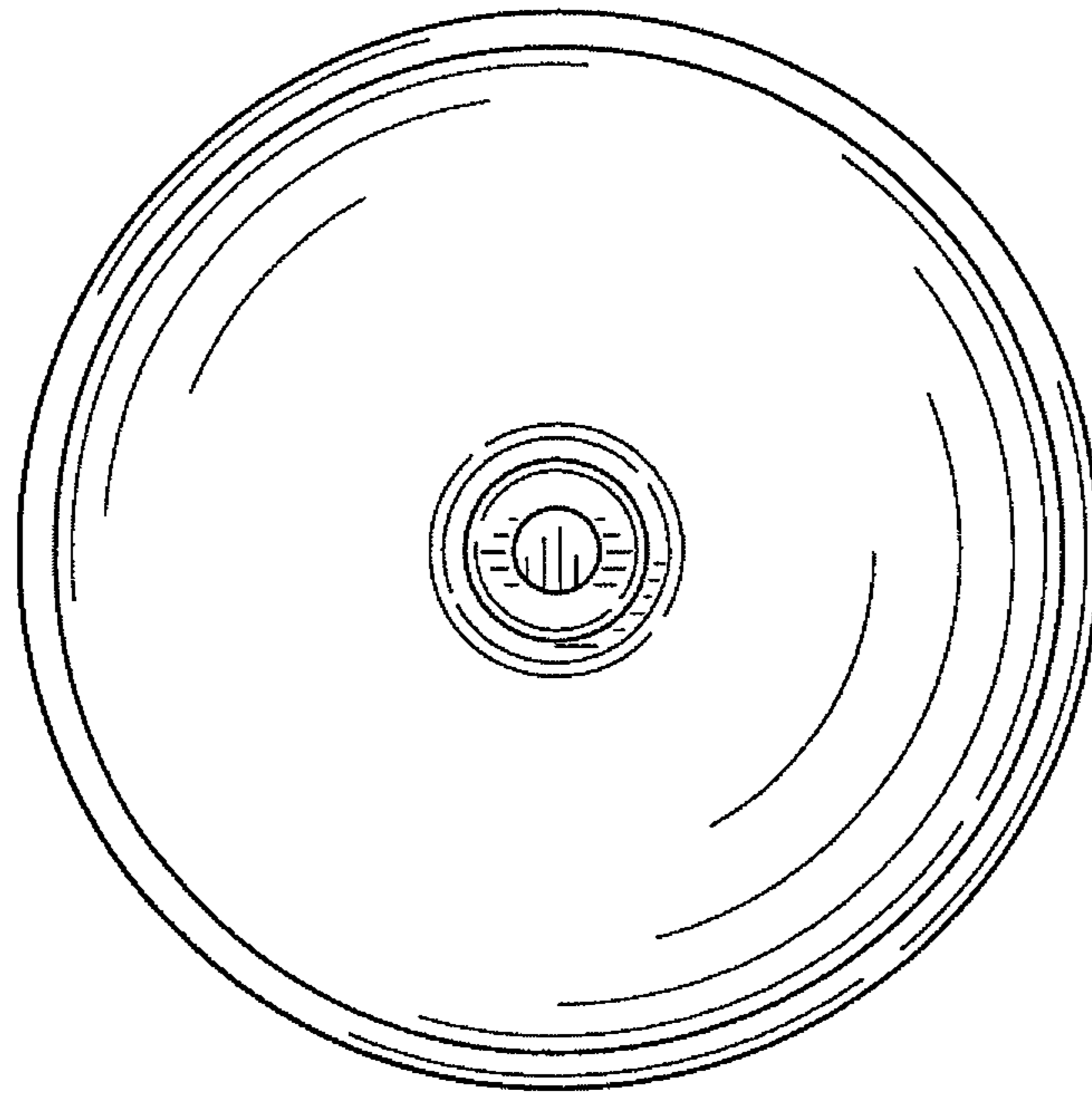


FIG. 3

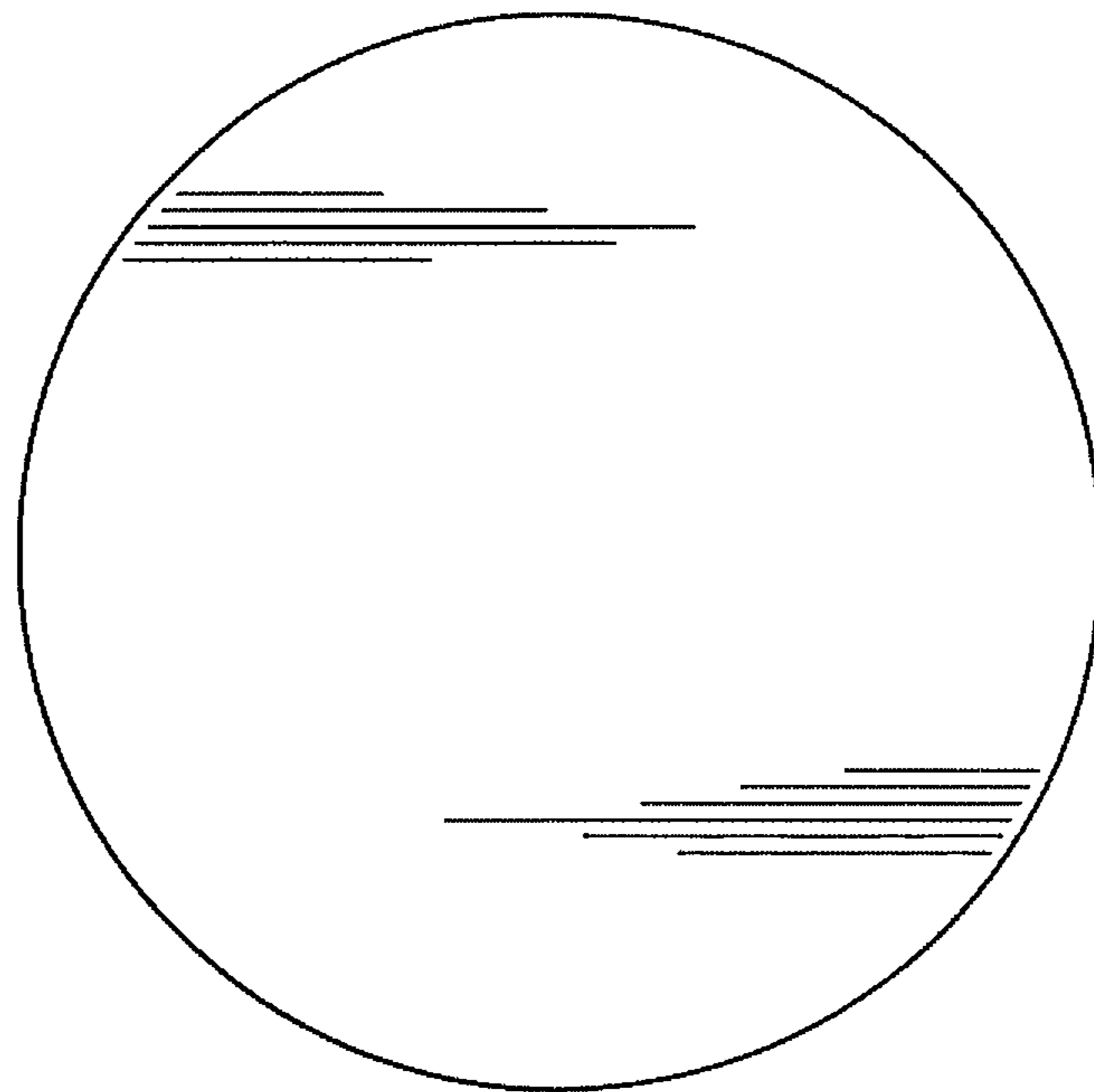


FIG. 4

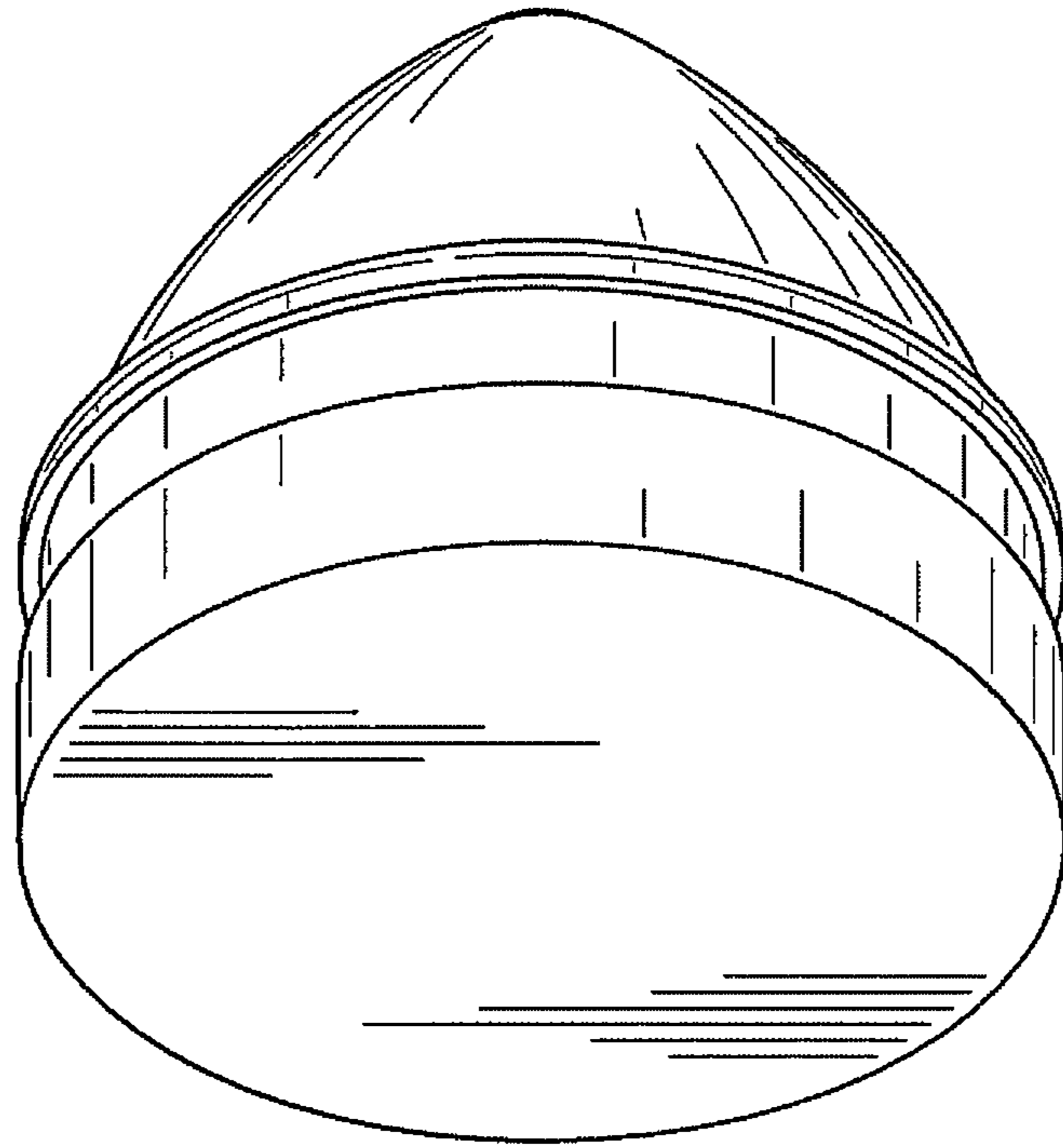


FIG. 5

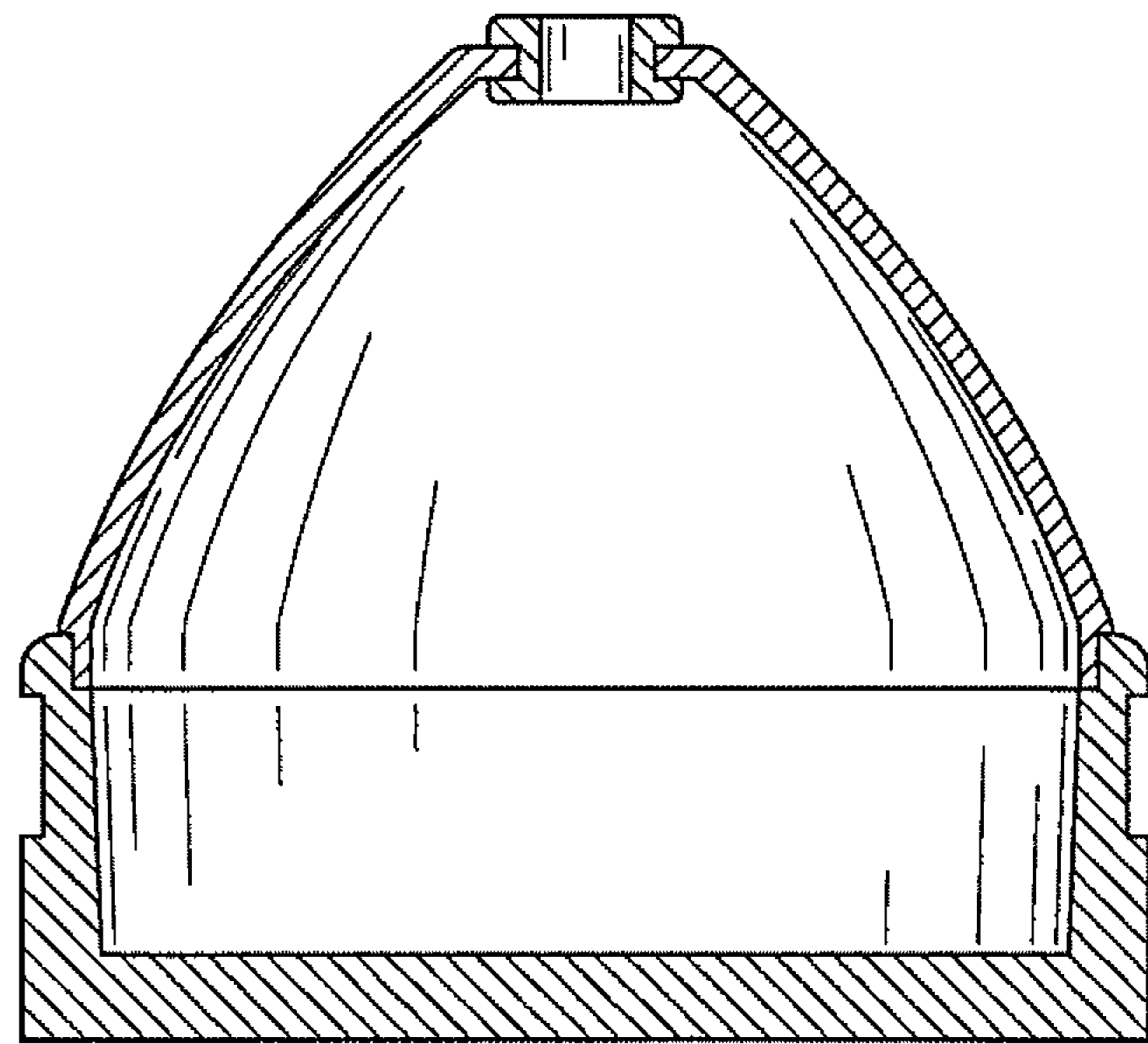


FIG. 6