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(12) **United States Design Patent** (10) **Patent No.:** **US D516,740 S**  
**Sales** (45) **Date of Patent:** **\*\* Mar. 7, 2006**

(54) **PRISMATIC REFRACTOR WITH CIRCUMFERENTIAL PRISMS AND LENS**

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(51) **LOC (8) Cl.** ..... **26-99**

(52) **U.S. Cl.** ..... **D26/123**

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D26/118, 119, 122, 123, 134; 362/299, 300,  
362/309, 310, 329, 348, 333, 335-340

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

|                 |           |                    |         |
|-----------------|-----------|--------------------|---------|
| 3,766,375 A     | 10/1973   | Edman et al.       |         |
| 4,175,661 A     | 11/1979   | Barnes             |         |
| D254,215 S      | * 2/1980  | Yahraus et al.     | D26/89  |
| 4,403,277 A     | 9/1983    | Eargle, Jr. et al. |         |
| 4,683,525 A     | 7/1987    | Camm               |         |
| 4,839,781 A     | * 6/1989  | Barnes et al.      | 362/299 |
| 4,903,180 A     | 2/1990    | Taylor et al.      |         |
| 5,046,818 A     | 9/1991    | Barnes             |         |
| 5,143,446 A     | 9/1992    | Barnes et al.      |         |
| 5,416,684 A     | 5/1995    | Pearce             |         |
| 5,444,606 A     | 8/1995    | Barnes et al.      |         |
| 5,481,445 A     | 1/1996    | Sitzema et al.     |         |
| D367,337 S      | 2/1996    | Barnes et al.      |         |
| 5,523,931 A     | 6/1996    | Kassay et al.      |         |
| 5,528,473 A     | 6/1996    | Kassay et al.      |         |
| 5,582,479 A     | 12/1996   | Thomas et al.      |         |
| D384,770 S      | 10/1997   | Bray               |         |
| D388,526 S      | 12/1997   | Bray               |         |
| D389,949 S      | 1/1998    | Walker             |         |
| 5,743,634 A     | 4/1998    | Sitzema et al.     |         |
| 5,967,648 A     | 10/1999   | Barnes, II et al.  |         |
| 6,068,388 A     | 5/2000    | Walker et al.      |         |
| 6,336,734 B1    | * 1/2002  | Arumugasaamy       | 362/309 |
| 6,478,454 B1    | 11/2002   | Jaffari et al.     |         |
| 6,494,596 B1    | * 12/2002 | Burroughs          | 362/348 |
| 6,575,601 B1    | * 6/2003  | Sitzema et al.     | 362/340 |
| 2003/0185012 A1 | * 10/2003 | Sitzema et al.     | 362/299 |

**OTHER PUBLICATIONS**

LexaLite International Corporation, Products and Assembly Services, web page print out, as of Dec. 23, 2002, 1 page. LexaLite International Corporation, Prismatic Reflexors® Products and Assembly Services, LexaLite Model 822 Drawings, web page print out, as of Dec. 23, 2002, 1 page. LexaLite International Corporation, LexaLite Lex-Efx® Light Control Film®, web page print out, as of Dec. 23, 2002, 2 pages.

WOLFRAM Research, Eric Weisstein's World of Mathematics, Surface of Revolution, web page print out, as of Dec. 2, 2002, 14 pages.

Cooper Lighting Lumark® SS16", 22" & 25" Prismatic High-Bay Industrial Luminaire, pamphlet, not dated, 2 pages.

Cooper Lighting Lumark® HB16", 22" & 25" Prismatic Benchmark, pamphlet, not dated, 2 pages.

Cooper Lighting Lumark® HB16", 22" & 25" Prismatic Benchmark pamphlet, (p. 1 of 2, p. 506); and Lumark® SS16", 22" & 25" Prismatic High-Bay Industrial Luminaire, (p. 2 of 2, p. 493) (attached pages), not dated.

\* cited by examiner

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(57) **CLAIM**

The ornamental design for a prismatic refractor with circumferential prisms and lens, as shown and described.

**DESCRIPTION**

The present application is related to co-pending U.S. patent application Ser. No. 10/349,299 ("Industrial Luminaire with Prismatic Refractor"), filed on Jan. 22, 2003, and U.S. Design patent application Ser. No. 29/174,649, now U.S. Pat. No. D494,308, (Prismatic Refractor with Circumferential Prisms), filed on Jan. 22, 2003, which are both incorporated by reference here in their entirety.

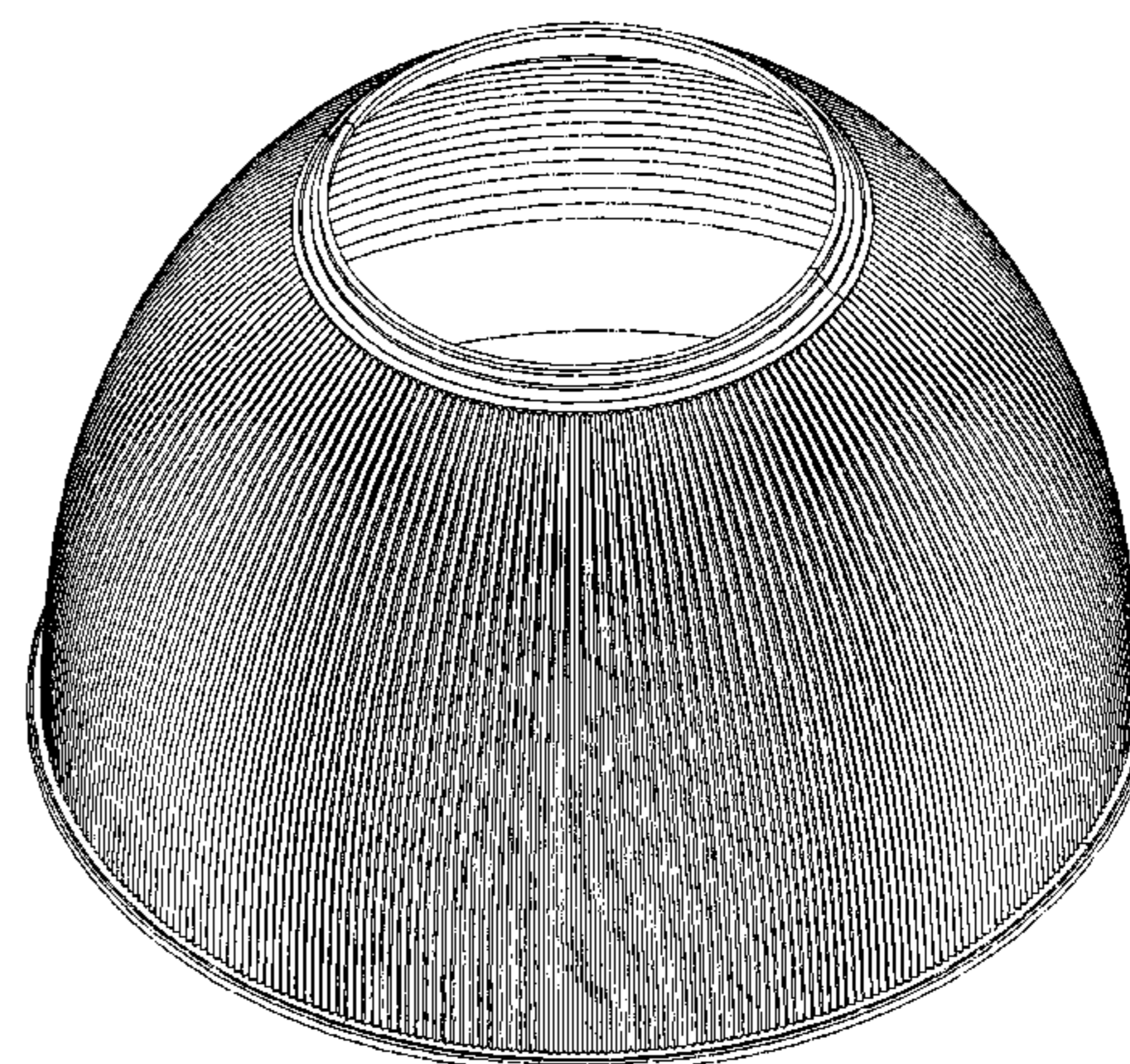
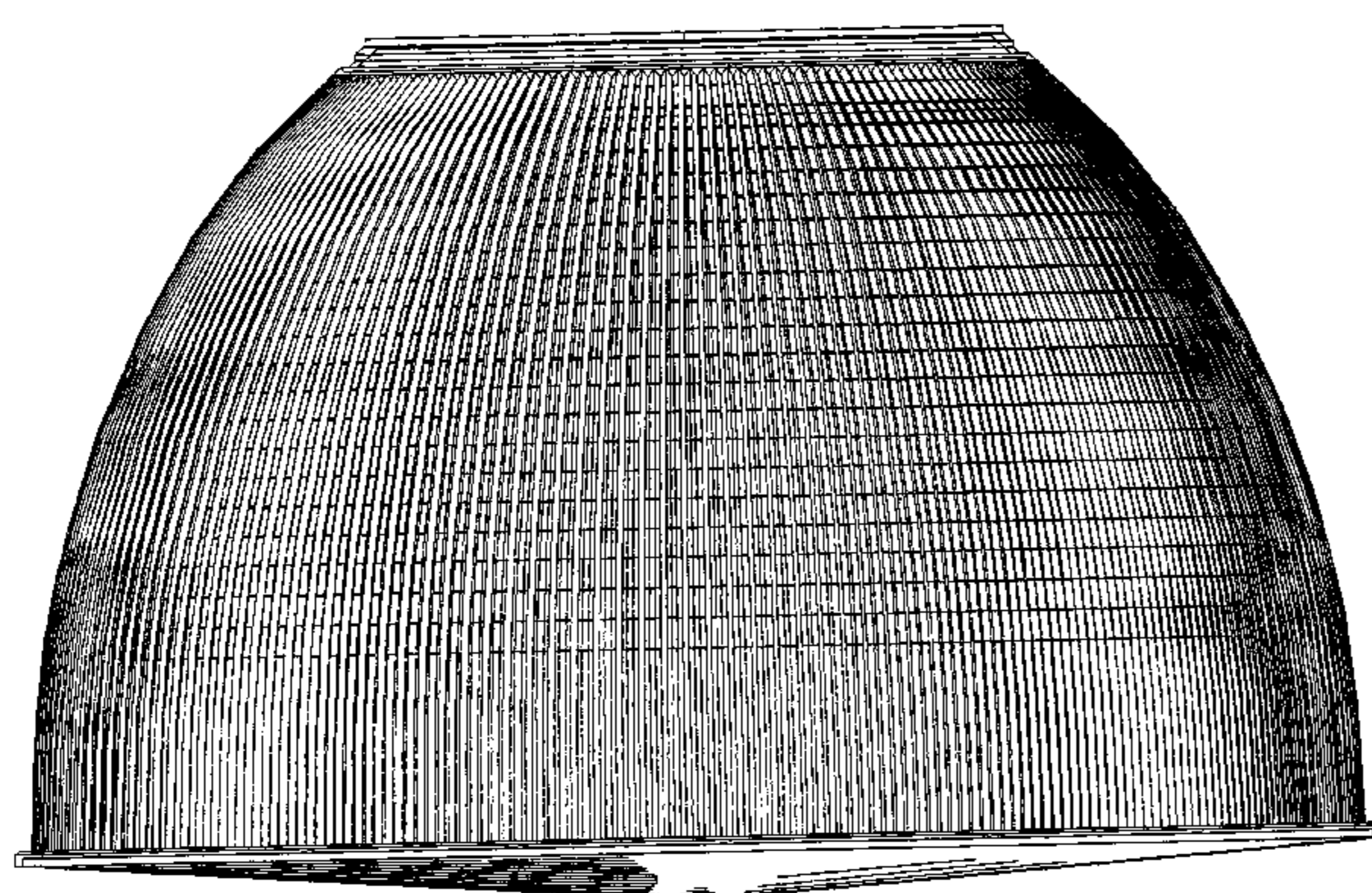
FIG. 1 is a top plan view of the prismatic refractor with circumferential prisms and lens;

FIG. 2 is a side plan view thereof;

FIG. 3 is a bottom plan view thereof; and,

FIG. 4 is an isometric view thereof.

**1 Claim, 4 Drawing Sheets**



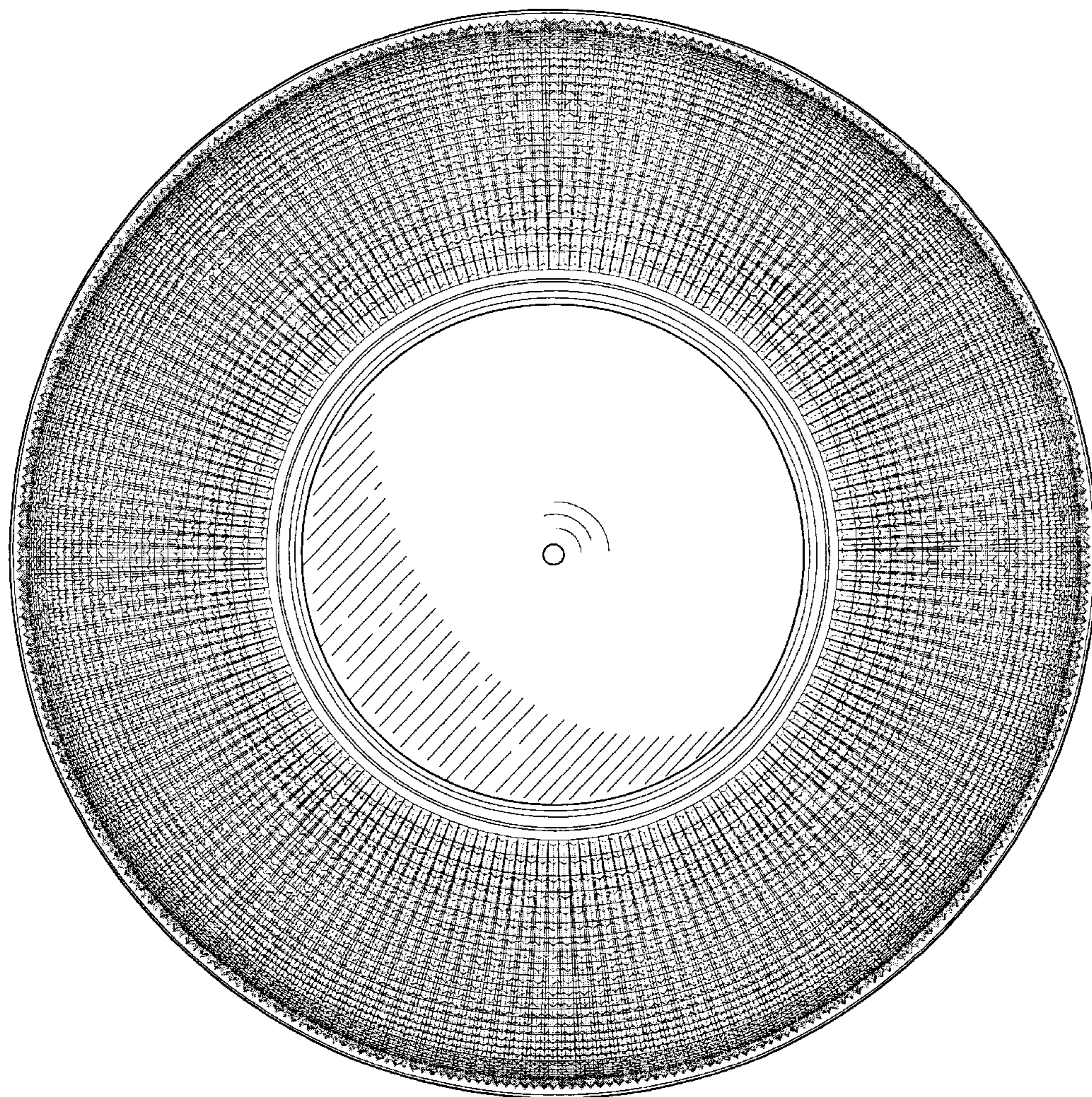


FIG. 1

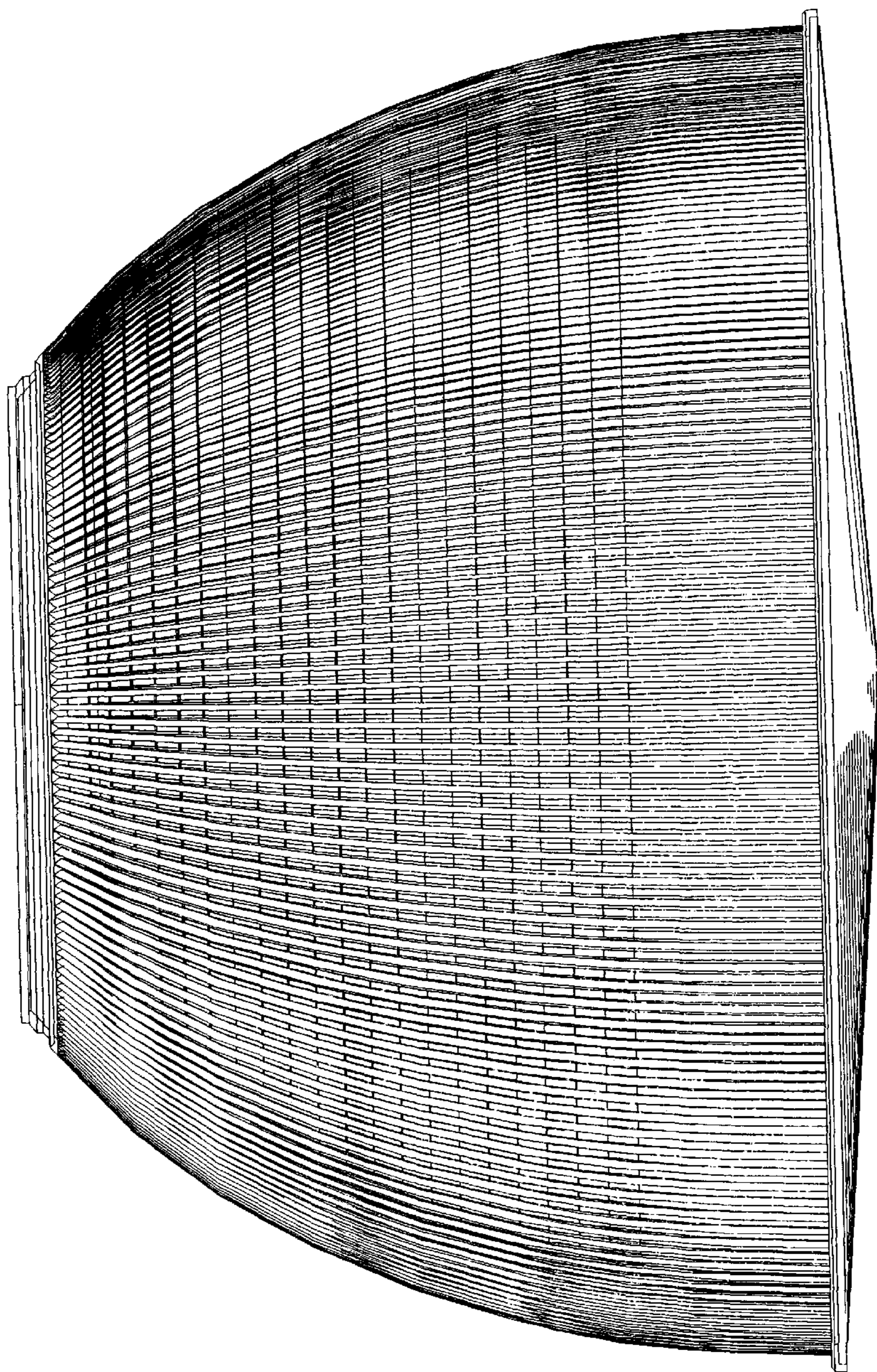


FIG. 2

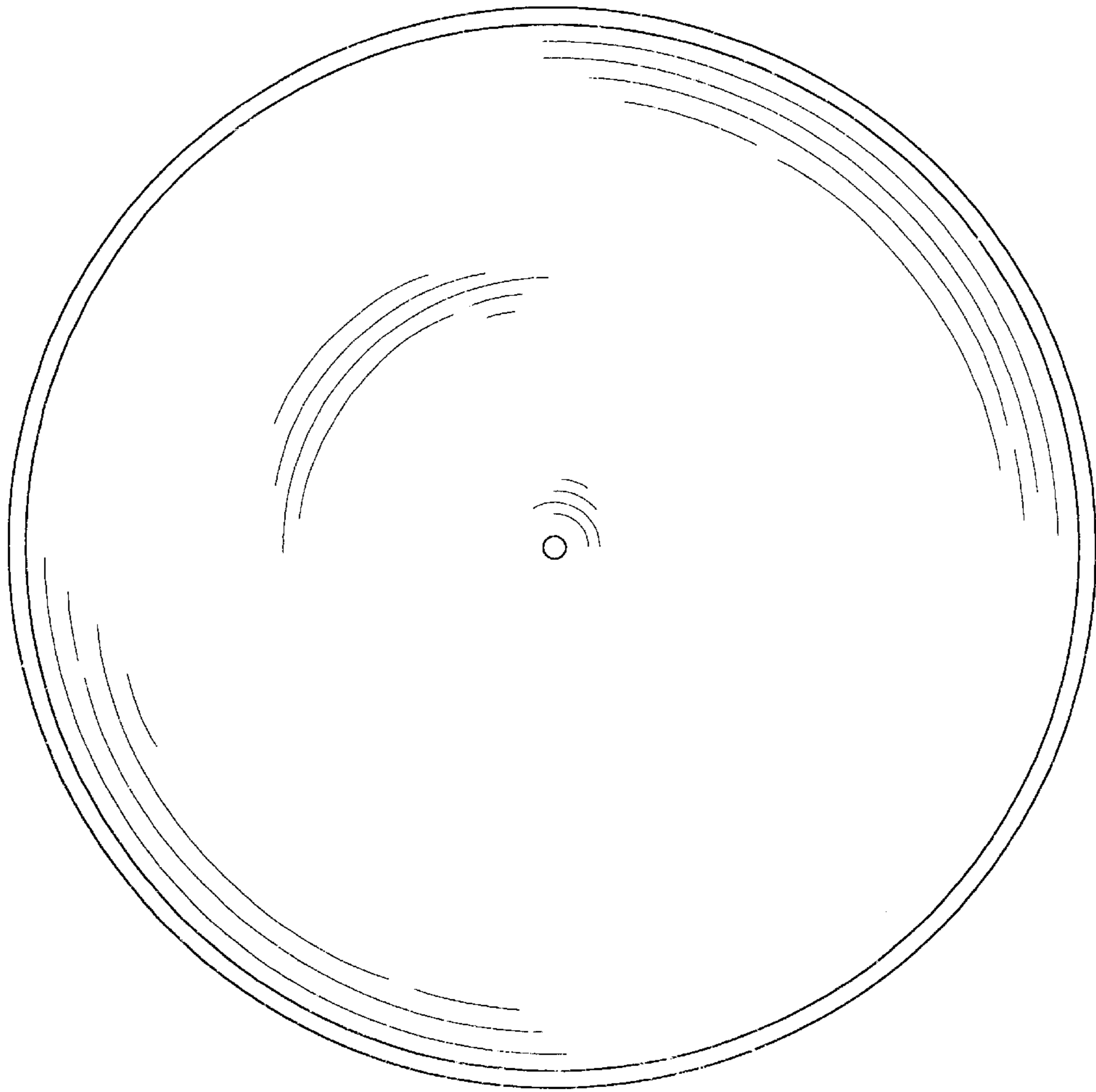


FIG. 3

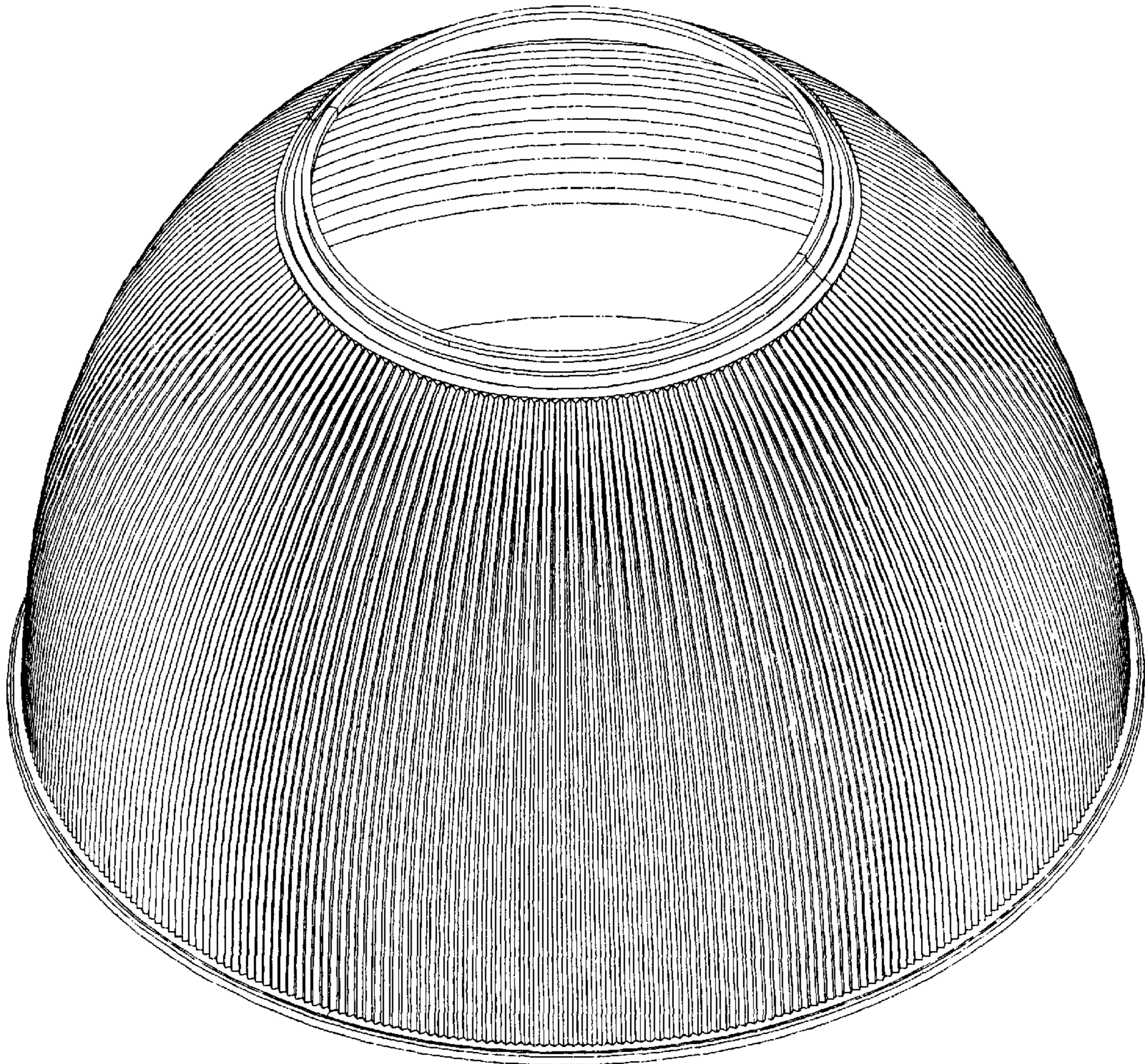


FIG. 4