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(12) **United States Design Patent** (10) **Patent No.:** **US D1,061,289 S**  
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(54) **INFRARED SENSOR LENS**

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(US)

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(US)

(73) Assignee: **LSI Industries, Inc.**, Cincinnati, OH  
(US)

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

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(52) **U.S. Cl.**  
USPC ..... **D10/74; D10/103**

(58) **Field of Classification Search**

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CPC .. G01P 13/00; G01P 13/0006; G01P 13/0013;

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G01P 13/0053; G01P 13/006; G01P

13/0066; G01P 13/0073; G01P 13/008;

G01P 13/0086; G01P 13/0093; G08B

21/00; G08B 21/02; G08B 21/0202;

G08B 21/0205; G08B 21/0208; G08B

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G08B 21/0219; G08B 21/0222; G08B

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G08B 21/0233; G08B 21/0236; G08B

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G08B 21/0263; G08B 21/0266; G08B

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G08B 21/0277; G08B 21/028; G08B

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G08B 21/0291; G08B 21/0194; G08B

21/0297; G08B 21/04; G08B 21/0407;

G08B 21/0415; G08B 21/0423; G08B

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,394,894 A 2/1946 Burgert et al.

4,428,031 A 1/1984 Mori

(Continued)

FOREIGN PATENT DOCUMENTS

DE 4240395 C2 6/2003

DE 202010002944 U1 5/2010

(Continued)

OTHER PUBLICATIONS

McWong International, Inc., McWong PacWave Technical Specifi-  
cations, PSC-BL-I-FM-DC0(-BLE), Bi-level Dimming PIR Sensor,  
www.McWonginc.com, Rev. Aug. 1, 2019 (4 pages).

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(57) **CLAIM**

The ornamental design for an infrared sensor lens as shown  
and described.

**DESCRIPTION**

FIG. 1 is an isometric view of my new infrared sensor lens  
showing my new design with environmental structure;

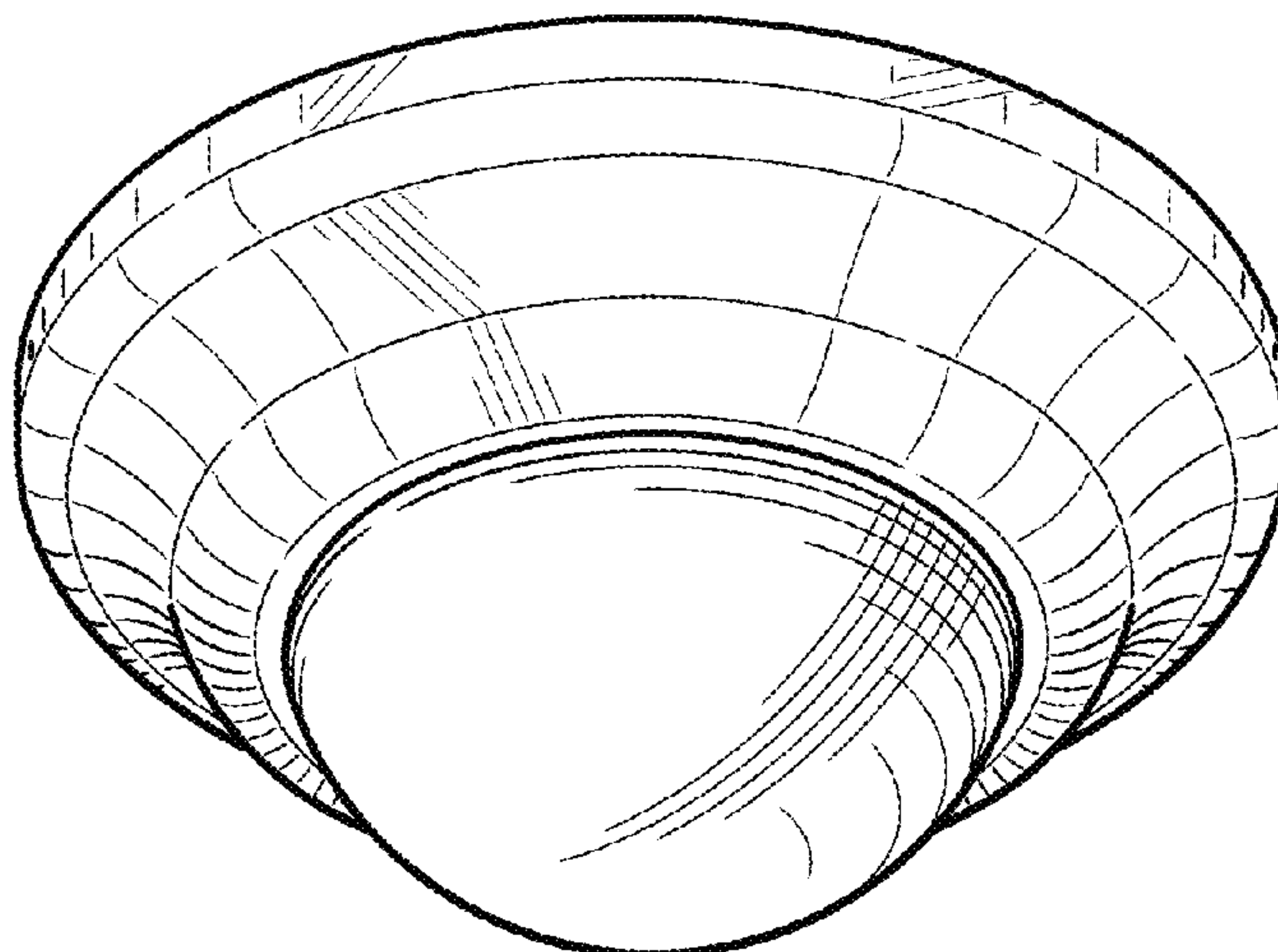
FIG. 2 is an isometric view thereof;

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

FIG. 4 is a front elevation view thereof, with the rear, right  
side, and left side views being identical.

The broken dash lines shown in FIG. 1 are for illustrative  
purposes only and represent non-claimed environmental  
structure. Neither the portions of the environmental structure  
shown in broken dash line nor the broken dash lines them-  
selves form any part of the claimed invention.

**1 Claim, 3 Drawing Sheets**



(58) **Field of Classification Search**

CPC ..... 21/043; G08B 21/0438; G08B 21/0446;  
G08B 21/0453; G08B 21/0461; G08B  
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G08B 21/086; G08B 21/088; G08B  
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21/185; G08B 21/187; G08B 21/20;  
G08B 21/22; G08B 21/24; G08B 21/245;  
G08B 23/00; G08B 13/00; G08B 13/02;  
G08B 13/04; G08B 13/06; G08B 13/08;  
G08B 13/10; G08B 13/12; G08B 13/122;  
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G08B 13/1418; G08B 13/1427; G08B  
13/1436; G08B 13/1445; G08B 13/1454;  
G08B 13/1463; G08B 13/1472; G08B  
13/1481; G08B 13/149; G08B 13/16;  
G08B 13/1609; G08B 13/1618; G08B  
13/1627; G08B 13/1636; G08B 13/1645;  
G08B 13/1654; G08B 13/1663; G08B  
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G08B 13/18; G08B 13/181; G08B  
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G08B 13/187; G08B 13/189; G08B  
13/1895; G08B 13/19; G08B 13/191;  
G08B 13/193; G08B 13/194; G08B  
13/196; G08B 13/19602; G08B 13/19604;  
G08B 13/19606; G08B 13/19608; G08B  
13/1961; G08B 13/19613; G08B  
13/19615; G08B 13/19617; G08B  
13/19619; G08B 13/19621; G08B  
13/19623; G08B 13/19626; G08B  
13/19628; G08B 13/1963; G08B  
13/19632; G08B 13/19634; G08B  
13/19636; G08B 13/19639; G08B  
13/19641; G08B 13/19643; G08B  
13/19645; G08B 13/19647; G08B  
13/1965; G08B 13/19652; G08B  
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13/19658; G08B 13/1966; G08B  
13/19663; G08B 13/19665; G08B  
13/19667; G08B 13/19669; G08B  
13/19671; G08B 13/19673; G08B  
13/19676; G08B 13/19678; G08B  
13/1968; G08B 13/19682; G08B  
13/19684; G08B 13/19686; G08B  
13/19689; G08B 13/19691; G08B  
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13/2405; G08B 13/2408; G08B 13/2411;  
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13/242; G08B 13/2422; G08B 13/2425;  
G08B 13/2428; G08B 13/2431; G08B  
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G08B 13/2457; G08B 13/246; G08B

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G08B 13/2471; G08B 13/2474; G08B  
13/2477; G08B 13/248; G08B 13/2482;  
G08B 13/2485; G08B 13/2488; G08B  
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G08B 13/26

See application file for complete search history.

(56)

**References Cited**

## U.S. PATENT DOCUMENTS

|              |     |         |                     |
|--------------|-----|---------|---------------------|
| 4,604,524    | A   | 8/1986  | Kotlicki et al.     |
| 4,626,686    | A   | 12/1986 | Pompei et al.       |
| 4,672,206    | A   | 6/1987  | Suzuki et al.       |
| 4,880,974    | A   | 11/1989 | Yamakawa            |
| 4,963,741    | A   | 10/1990 | McMullin            |
| 5,311,024    | A   | 5/1994  | Marman et al.       |
| 5,394,209    | A   | 2/1995  | Stiepel et al.      |
| 5,790,910    | A   | 8/1998  | Haskin              |
| 6,222,191    | B1  | 4/2001  | Myron et al.        |
| 6,273,338    | B1  | 8/2001  | White               |
| 6,324,008    | B1  | 11/2001 | Baldwin et al.      |
| 6,357,936    | B1  | 3/2002  | Elberbaum           |
| 6,376,840    | B1  | 4/2002  | Ko                  |
| 6,653,939    | B2  | 11/2003 | Galloway            |
| 6,755,031    | B2  | 6/2004  | Cho et al.          |
| 7,053,374    | B2  | 5/2006  | Barone              |
| 7,151,457    | B2  | 12/2006 | Riley et al.        |
| 7,560,696    | B2  | 7/2009  | Wu et al.           |
| 8,247,770    | B2  | 8/2012  | Fischer             |
| 8,530,840    | B2  | 9/2013  | Carberry et al.     |
| 8,947,590    | B2  | 2/2015  | Nunnink             |
| 9,029,781    | B2  | 5/2015  | Huang               |
| 9,121,760    | B2  | 9/2015  | Cabib et al.        |
| 9,261,409    | B2  | 2/2016  | Crottereau et al.   |
| 9,291,506    | B2  | 3/2016  | Cabib et al.        |
| 9,305,446    | B1  | 4/2016  | Clinton et al.      |
| 9,372,121    | B2  | 6/2016  | Huang               |
| 9,438,782    | B2  | 9/2016  | Donaldson           |
| 9,885,608    | B2  | 2/2018  | Claytor             |
| 10,067,312   | B2  | 9/2018  | Nunnink             |
| 10,120,156   | B2  | 11/2018 | Tang et al.         |
| 10,143,066   | B2  | 11/2018 | Zhou et al.         |
| 10,447,904   | B2  | 10/2019 | Iinuma              |
| 10,498,933   | B2  | 12/2019 | Nunnink et al.      |
| 10,545,039   | B2  | 1/2020  | Lake et al.         |
| 10,612,663   | B2  | 4/2020  | Little et al.       |
| 10,678,019   | B2  | 6/2020  | Nunnink             |
| D913,821     | S * | 3/2021  | Behnke ..... D10/74 |
| 11,076,075   | B2  | 7/2021  | Leonelli, Jr.       |
| 11,115,566   | B2  | 9/2021  | Nunnink et al.      |
| 11,366,284   | B2  | 6/2022  | Nunnink et al.      |
| 11,519,784   | B2  | 12/2022 | Tran et al.         |
| 2001/0022627 | A1  | 9/2001  | Bernhardt           |
| 2008/0100910 | A1  | 5/2008  | Kim et al.          |
| 2012/0029393 | A1  | 2/2012  | Lee                 |
| 2017/0082495 | A1  | 3/2017  | Myllymäki           |
| 2017/0255083 | A1  | 9/2017  | Donaldson           |
| 2019/0316940 | A1  | 10/2019 | Tener               |
| 2020/0358931 | A1  | 11/2020 | Jenkinson           |
| 2021/0011250 | A1  | 1/2021  | Tang                |
| 2021/0156736 | A1  | 5/2021  | Hu                  |

## FOREIGN PATENT DOCUMENTS

|    |              |    |         |
|----|--------------|----|---------|
| DE | 102012010881 | A1 | 12/2013 |
| EP | 1120763      | A1 | 8/2001  |
| EP | 1441317      | B1 | 12/2005 |
| WO | 2019196537   | A1 | 10/2019 |

\* cited by examiner

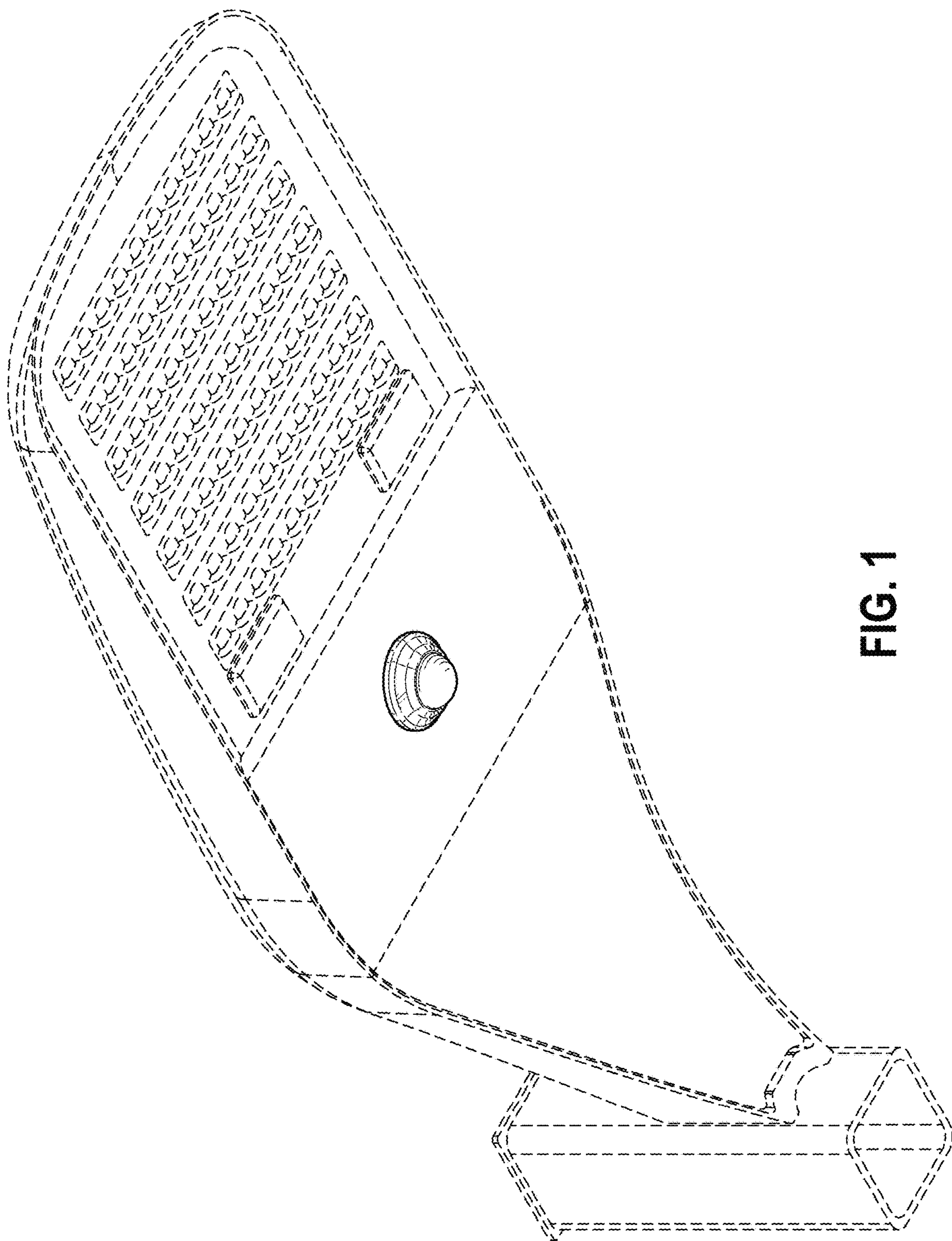


FIG. 1

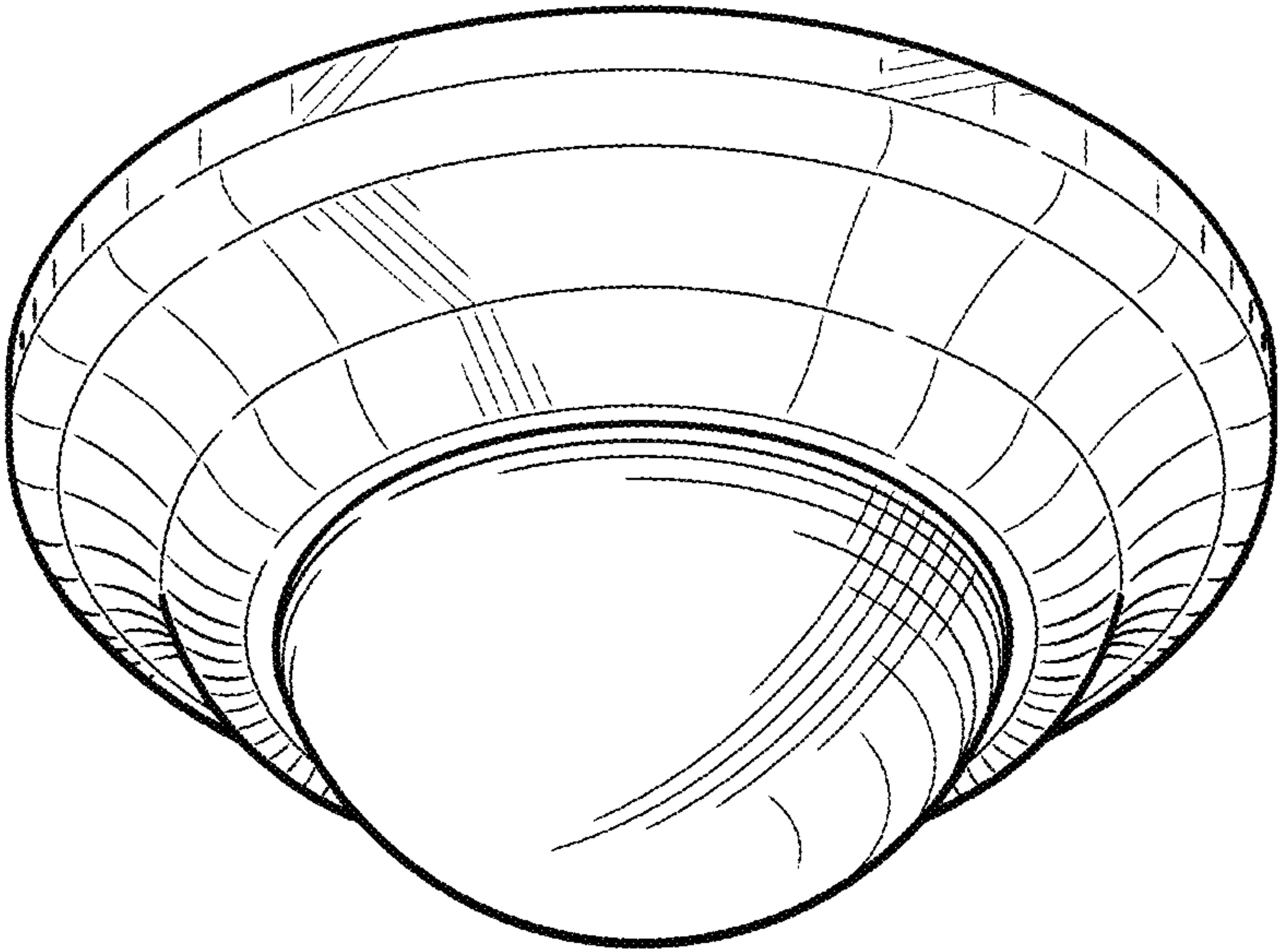


FIG. 2

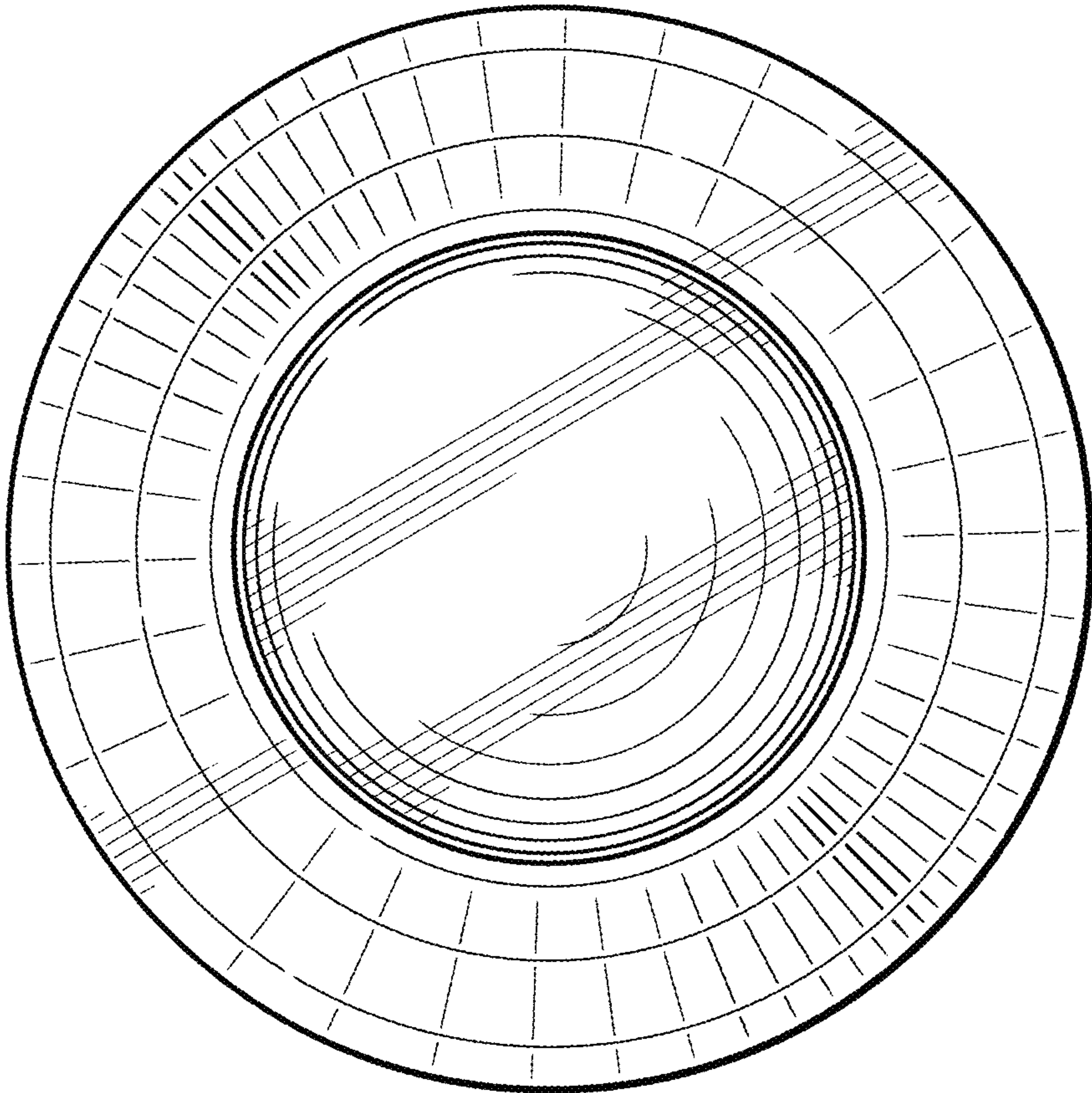


FIG. 3

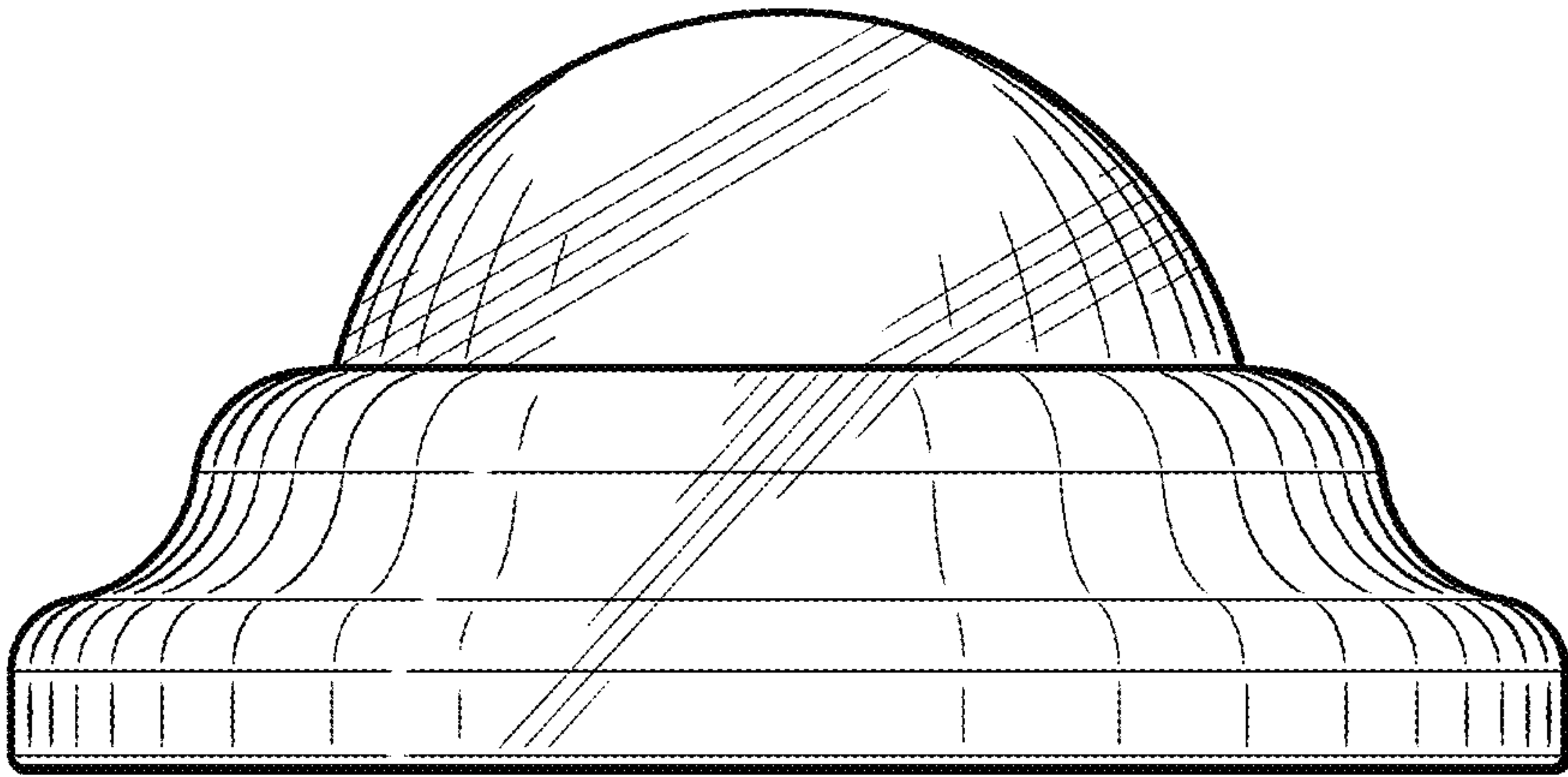


FIG. 4