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(12) **United States Design Patent** (10) **Patent No.:** **US D873,301 S**
Crawford et al. (45) **Date of Patent:** **** Jan. 21, 2020**

(54) **FUEL CELL ADAPTER CAP**

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(US)

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(US)

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

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Related U.S. Application Data

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May 27, 2016, now Pat. No. Des. 812,101.

(51) **LOC (12) Cl.** **15-01**

(52) **U.S. Cl.**
USPC **D15/5**

(58) **Field of Classification Search**
USPC D12/174, 179, 180, 187, 197, 213;
D15/1, 2, 3, 4, 5, 7; D23/213, 225, 233,
D23/237; D26/117; D7/391, 416
CPC B25C 1/08; B25C 1/04; F16K 15/144;
B65D 83/30; A61M 39/24
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,403,722 A	9/1983	Nikolich
4,483,474 A	11/1984	Nikolich
4,522,162 A	6/1985	Nikolich
D294,820 S	3/1988	Belletire
5,115,944 A	5/1992	Nikolich
D405,315 S	2/1999	Lioi
D420,462 S	2/2000	Menter
6,095,704 A	8/2000	Jaeger et al.

6,176,412 B1	1/2001	Weinger et al.
6,302,297 B1	10/2001	Richardson et al.
D457,811 S	5/2002	Vanstaen et al.
6,371,338 B1	8/2002	Klein et al.
6,796,478 B2	9/2004	Shkolnikov et al.

(Continued)

FOREIGN PATENT DOCUMENTS

EP	1254745	11/2002
EP	2815851	12/2014

OTHER PUBLICATIONS

Paslode Quicklode Fuel Cartridge Image, http://static.grainger.com/rp/s/is/image/Grainger/31EE19_AS01?hei=800&wid=935, Jan. 19, 2016, (1 page).

(Continued)

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(57) **CLAIM**

The ornamental design for a fuel cell adapter cap, as shown
and described.

DESCRIPTION

FIG. 1 is a top perspective view of a fuel cell adapter cap of
our new design.

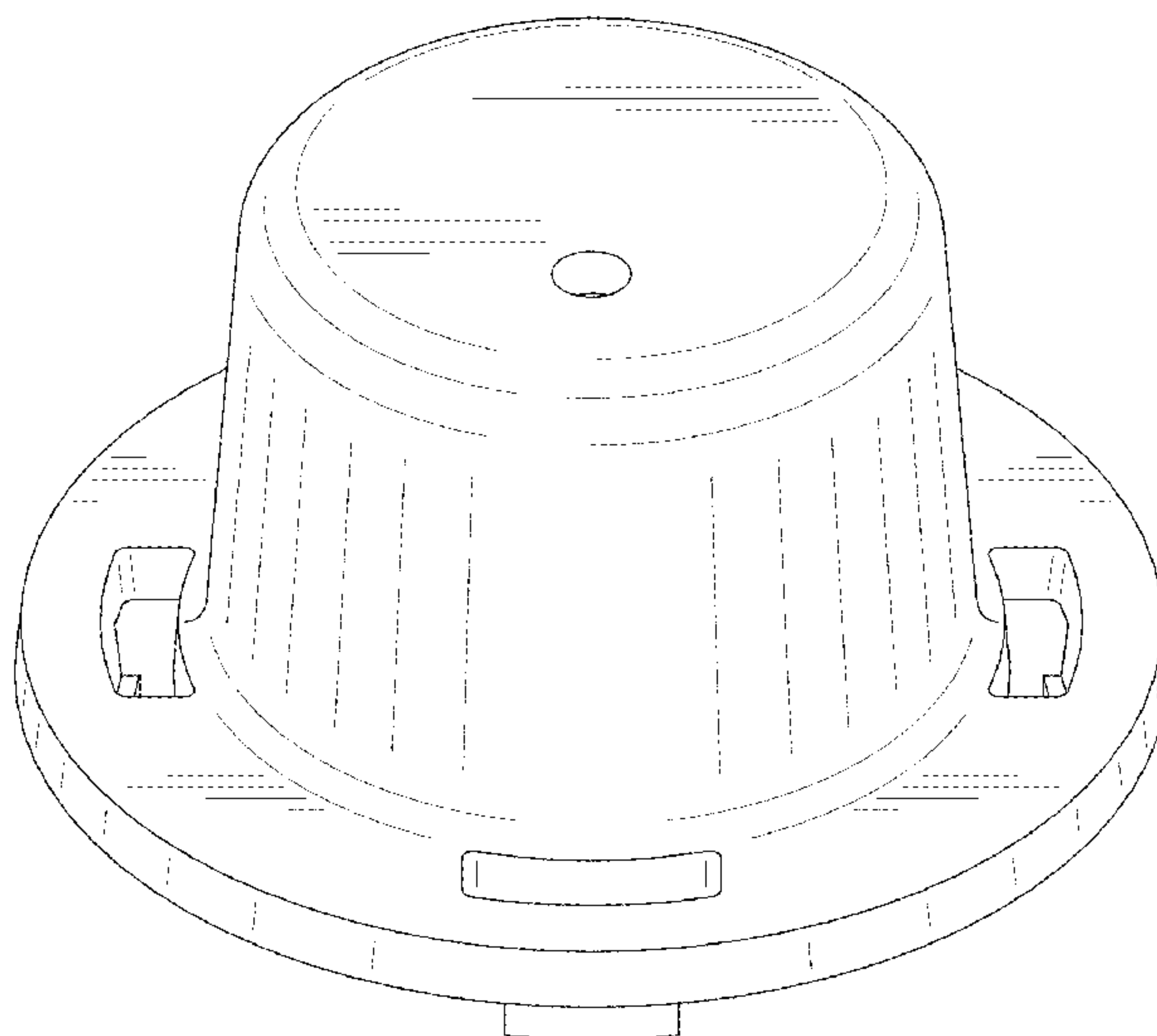
FIG. 2 is a bottom front perspective view of the fuel cell
adapter cap of FIG. 1.

FIG. 3 is a front elevational view of the fuel cell adapter cap
of FIG. 1, the back, the right side, and the left side eleva-
tional views being identical thereto.

FIG. 4 is a top plan view of the fuel cell adapter cap of FIG.
1; and,

FIG. 5 is a bottom plan view of the fuel cell adapter cap of
FIG. 1.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,302,971 B2 * 12/2007 Myntti F16K 15/144
137/512.15
7,392,922 B2 1/2008 Vanstaen et al.
D577,100 S * 9/2008 Brown D23/213
D582,437 S * 12/2008 Shimomura D15/7
D582,440 S * 12/2008 Shimomura D15/7
7,478,740 B2 1/2009 Shea et al.
D590,840 S 4/2009 Shea et al.
7,571,841 B2 8/2009 Gibson et al.
7,591,249 B2 9/2009 Wagdy et al.
7,654,429 B2 2/2010 Shea et al.
7,661,568 B2 2/2010 Vanstaen et al.
7,677,420 B1 * 3/2010 Greer, Jr. B65D 83/30
222/1
7,757,920 B2 7/2010 Shea et al.
D633,922 S 3/2011 Shea et al.
D645,053 S 9/2011 Shea et al.
8,157,130 B2 * 4/2012 Murayama B25C 1/08
222/105
8,302,831 B2 11/2012 Taylor et al.
D681,677 S 5/2013 Shea et al.
D721,789 S 1/2015 Lu
8,939,339 B2 1/2015 Vanstaen et al.
D739,919 S 9/2015 Alexander et al.

9,505,509 B2 11/2016 Smith
D787,326 S 5/2017 Hanson et al.
D812,101 S * 3/2018 Crawford D15/5
10,226,614 B2 * 3/2019 Tumminaro A61M 39/24
2004/0206798 A1 10/2004 Robinson
2005/0230451 A1 10/2005 Vanstaen et al.
2008/0000451 A1 1/2008 Shea et al.
2008/0110953 A1 * 5/2008 Gibson B25C 1/08
227/10
2014/0175143 A1 6/2014 Vanstaen et al.
2016/0045072 A1 2/2016 Myoung
2017/0343211 A1 * 11/2017 Crawford B25C 1/04

OTHER PUBLICATIONS

Yagid, Rob, “Cordless finish nailer”, HowItWorks, The Taunton Press, Inc. Jun./Jul. 2011, (2 pages).
ECKO MultiCell, ECKO Fastening Systems, Available prior to May 27, 2016, (4 pages).
ECKO FuelCell Cordless Fastening System Images, Available prior to May 27, 2016 (3 pages).
International Search Report and Written Opinion for International Application No. PCT/US2016/062529, dated Mar. 21, 2017 (11 pages).

* cited by examiner

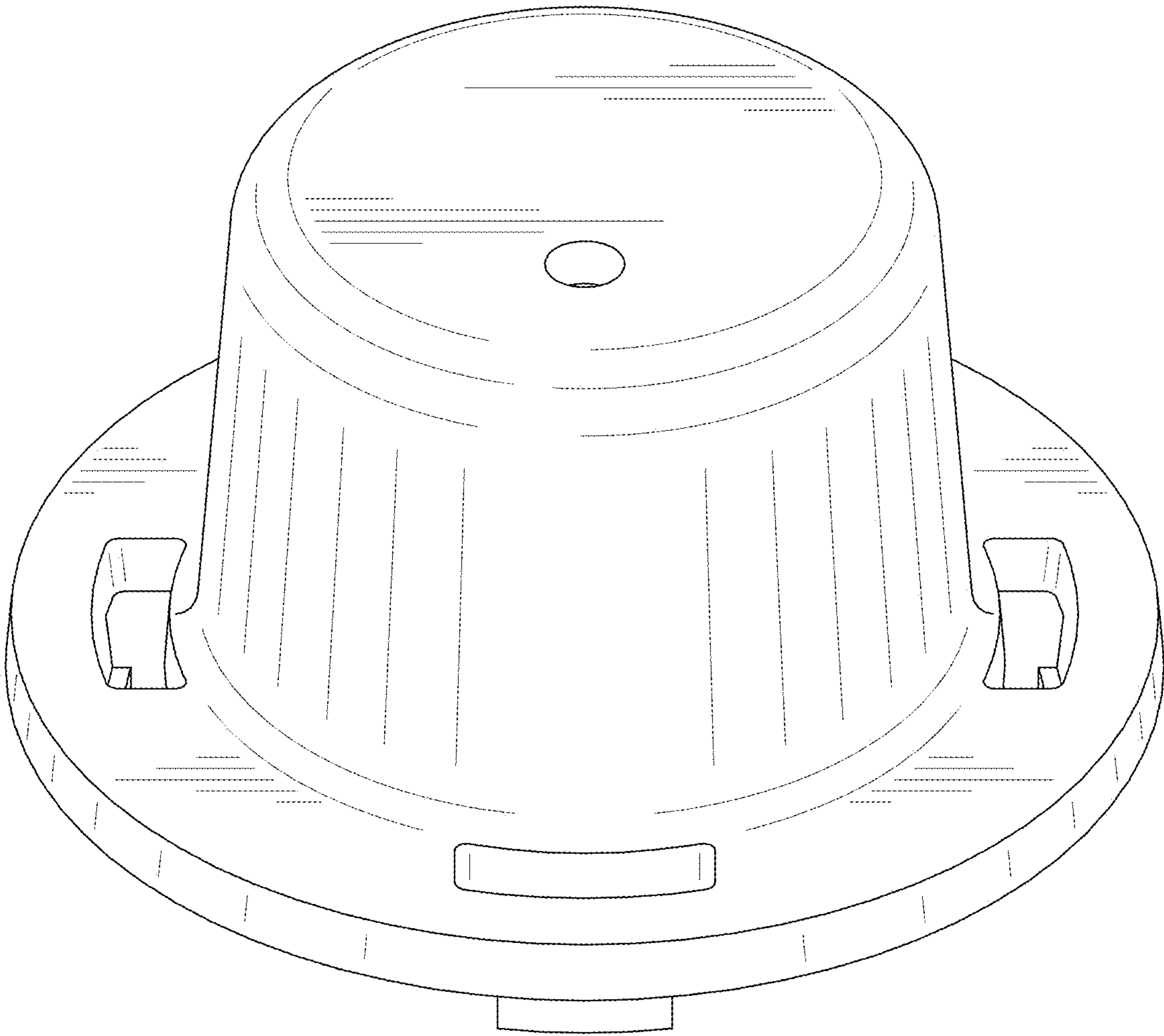


FIG. 1

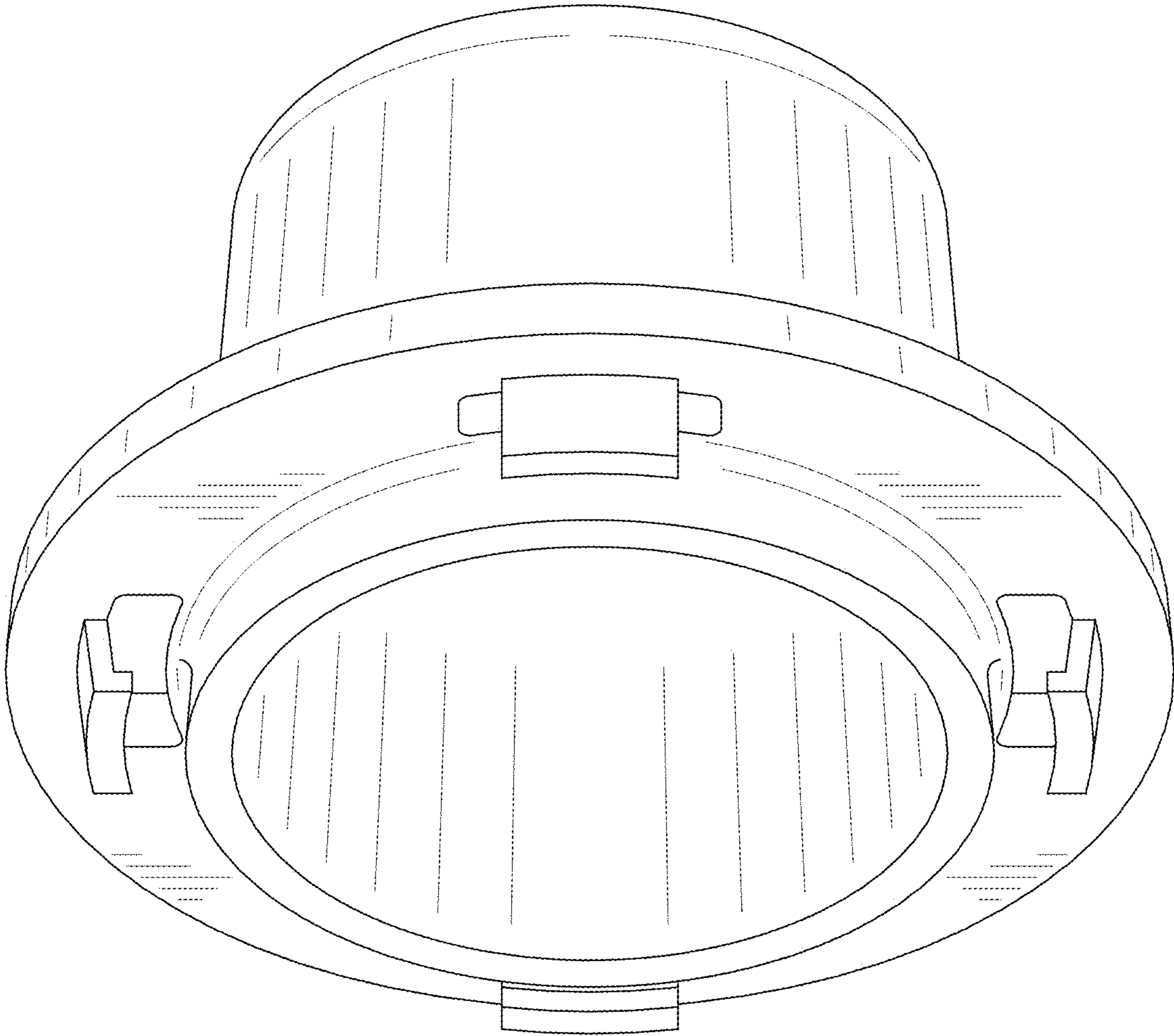


FIG. 2

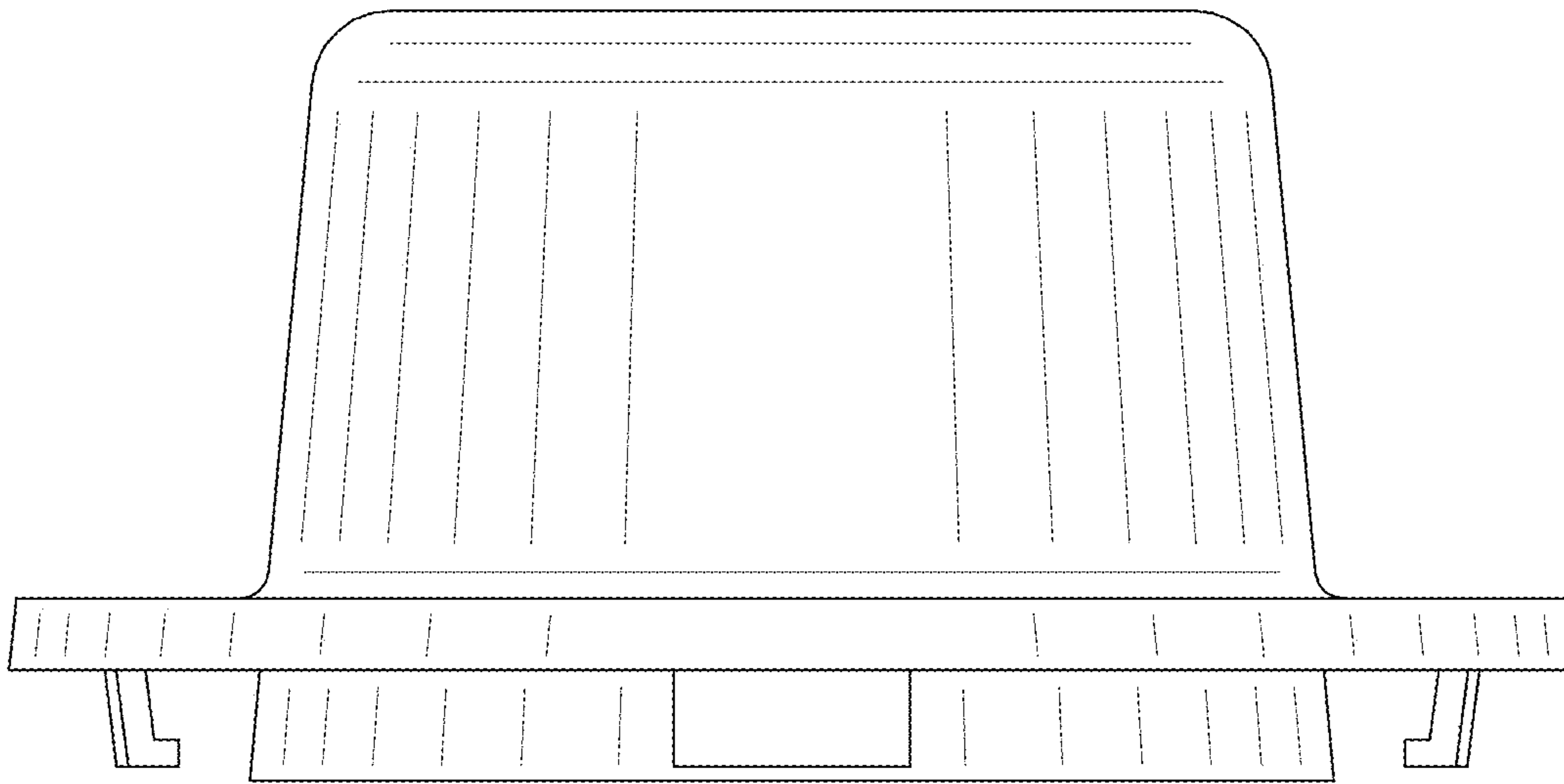


FIG. 3

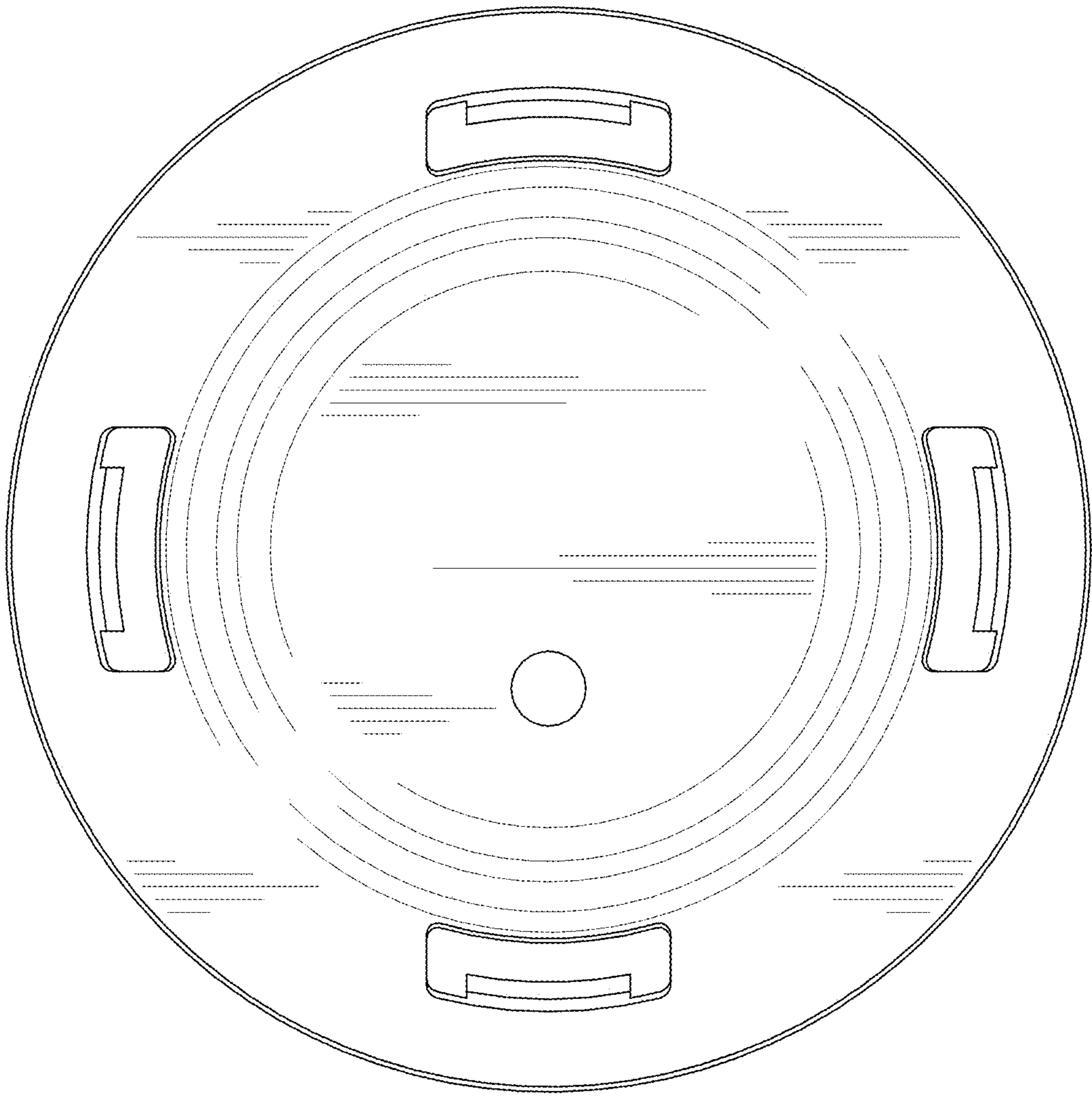


FIG. 4

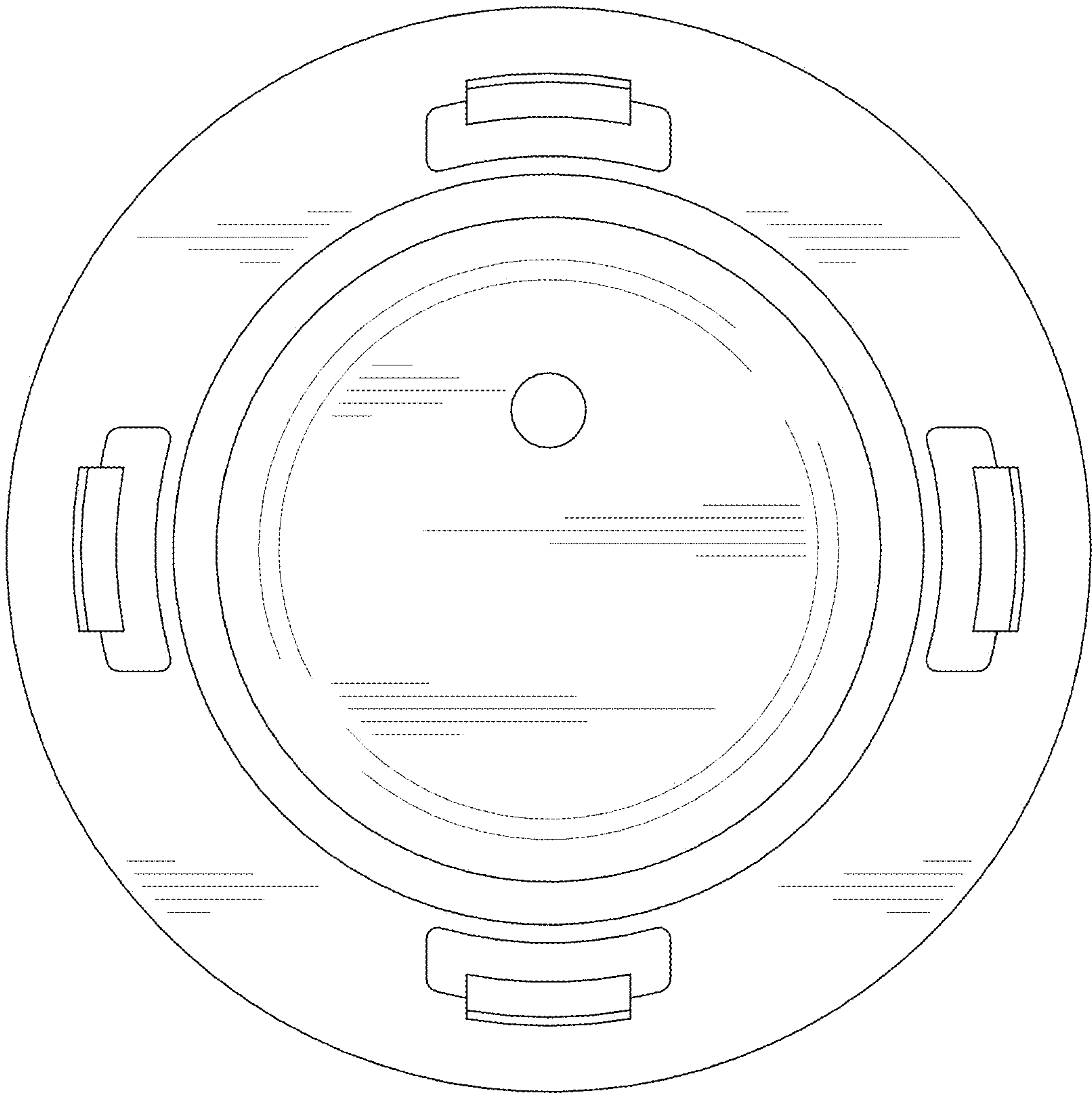


FIG. 5