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(12) **United States Design Patent**
Deyaf et al.

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(54) **LED OPTICAL LENS**

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(73) Assignee: **SpeedTech Lights, Inc.**, Buda, TX (US)

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

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(51) **LOC (10) Cl.** **26-99**

(52) **U.S. Cl.**
USPC **D26/124**

(58) **Field of Classification Search**

USPC D26/20, 27, 30, 31, 32, 25, 35, 36, 42,
D26/46, 55, 69, 70, 71, 76, 72, 85, 113,
D26/78, 80, 101, 110, 109, 118-120, 123,
D26/124, 133, 134, 139; D7/416;
D10/111-113, 115, 113.1; D11/144;
D13/134, 158-178; D14/473, 230;
D22/118; D25/126-135

CPC F21Y 2115/10; F21Y 2107/20; F21V 5/04;
F21V 5/007; F21V 5/045; F21V 7/0083;
F21V 7/0091; F21V 7/09; F21V 7/10;
F21V 15/01; F21V 14/06; F21V 29/74;
F21V 23/0471; F21S 48/215; F21S
48/115; F21S 48/2212; F21S 48/1394;
F21S 48/1154; F21K 9/00; G02B
19/0061; G02B 27/0955; G02B 27/095;
G02B 27/0983; H05K 1/0203; H05K
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2003/0117803 A1* 6/2003 Chen F21V 23/0471
362/276
2003/0137838 A1* 7/2003 Rizkin F21V 7/0091
362/240

2006/0034094 A1* 2/2006 Asada F21S 48/215
362/545

2007/0062032 A1* 3/2007 Ter-
Hovhannissian H05K 1/0203
29/840

2008/0101064 A1* 5/2008 Draganov F21K 9/00
362/231

2009/0080209 A1* 3/2009 Hu F21S 48/1394
362/518

(Continued)

OTHER PUBLICATIONS

“LED lens BL-15H1” May 12, 2011, lensblx.en.frbiz.com, site
visited Apr. 21, 2017 <[http://lensblx.en.frbiz.com/group-contact_](http://lensblx.en.frbiz.com/group-contact_lens_care_products/36817201-led_lens_bl_15h1.html)
[lens_care_products/36817201-led_lens_bl_15h1.html](http://lensblx.en.frbiz.com/group-contact_lens_care_products/36817201-led_lens_bl_15h1.html)>.*

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(57)

CLAIM

The ornamental design for a LED optical lens, as shown and
described.

DESCRIPTION

FIG. 1 is a perspective view of a LED optical lens showing
our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a back view thereof;

FIG. 4 is a right side view thereof;

FIG. 5 is a left side view thereof;

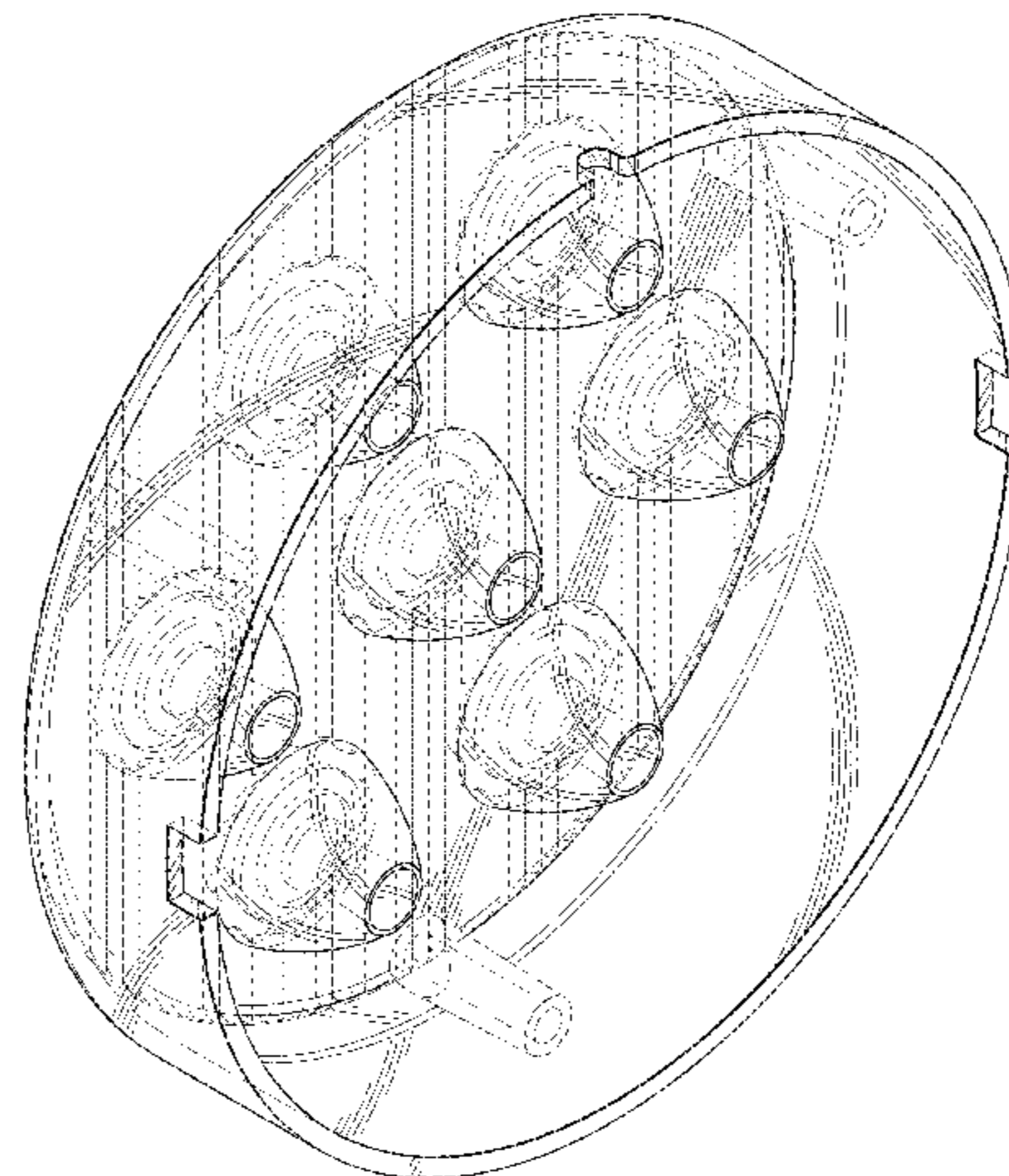
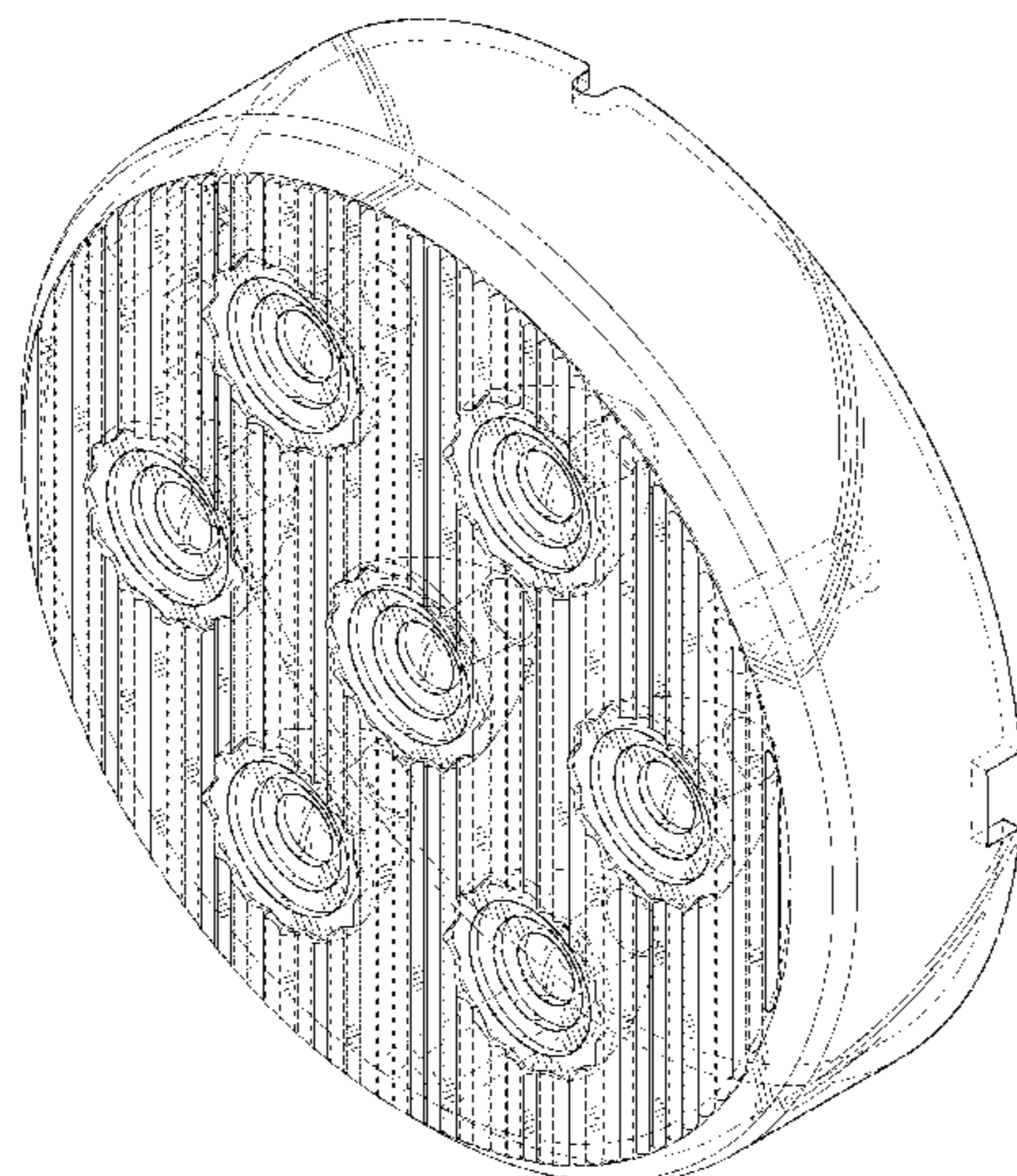
FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof; and,

FIG. 8 is a perspective back view thereof.

The broken line portions in FIGS. 1-8 are included to show
unclaimed subject matter only and form no part of the
claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2010/0219760 A1* 9/2010 Tanaka F21V 5/04
 315/152
 2012/0051065 A1* 3/2012 Daily F21V 5/007
 362/311.02
 2013/0094210 A1* 4/2013 Rice F21S 48/1154
 362/245
 2013/0114279 A1* 5/2013 Marley F21S 48/115
 362/516
 2014/0292204 A1* 10/2014 Potucek H05B 33/0842
 315/134
 2014/0328060 A1* 11/2014 Gadegaard F21V 7/09
 362/235
 2016/0084475 A1* 3/2016 Fujii F21V 7/10
 362/294
 2016/0195237 A1* 7/2016 Quadri F21V 5/007
 362/232
 2016/0215961 A1* 7/2016 Kjeldsen F21V 14/06
 2016/0272883 A1* 9/2016 Yamane C09K 11/02
 2016/0312977 A1* 10/2016 Jiang F21V 5/045
 2016/0323981 A1* 11/2016 Clark F21V 15/01
 2017/0059120 A1* 3/2017 Kataoka F21V 29/74

OTHER PUBLICATIONS

“RER-7 Spot” Jul. 6, 2012, ledil.com, site visited Apr. 21, 2017
 <<http://www.ledil.com/rer-7-s>>.*
 “Bright LED Downlight” Dec. 5, 2014, igniteelectronics.in, site
 visited Apr. 24, 2017 <<http://www.igniteelectronics.in/led-downlight.html>>.*

* cited by examiner

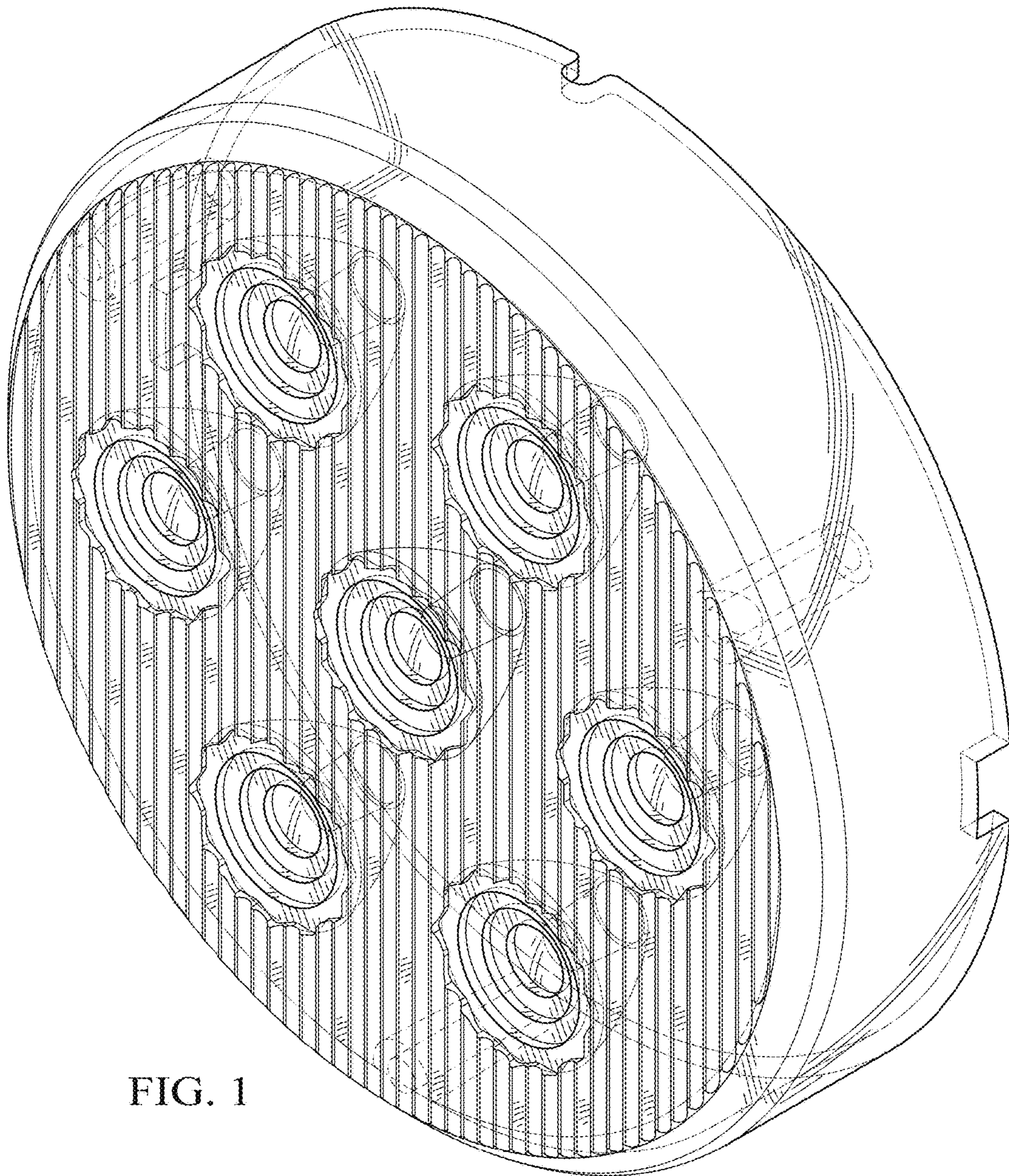


FIG. 1

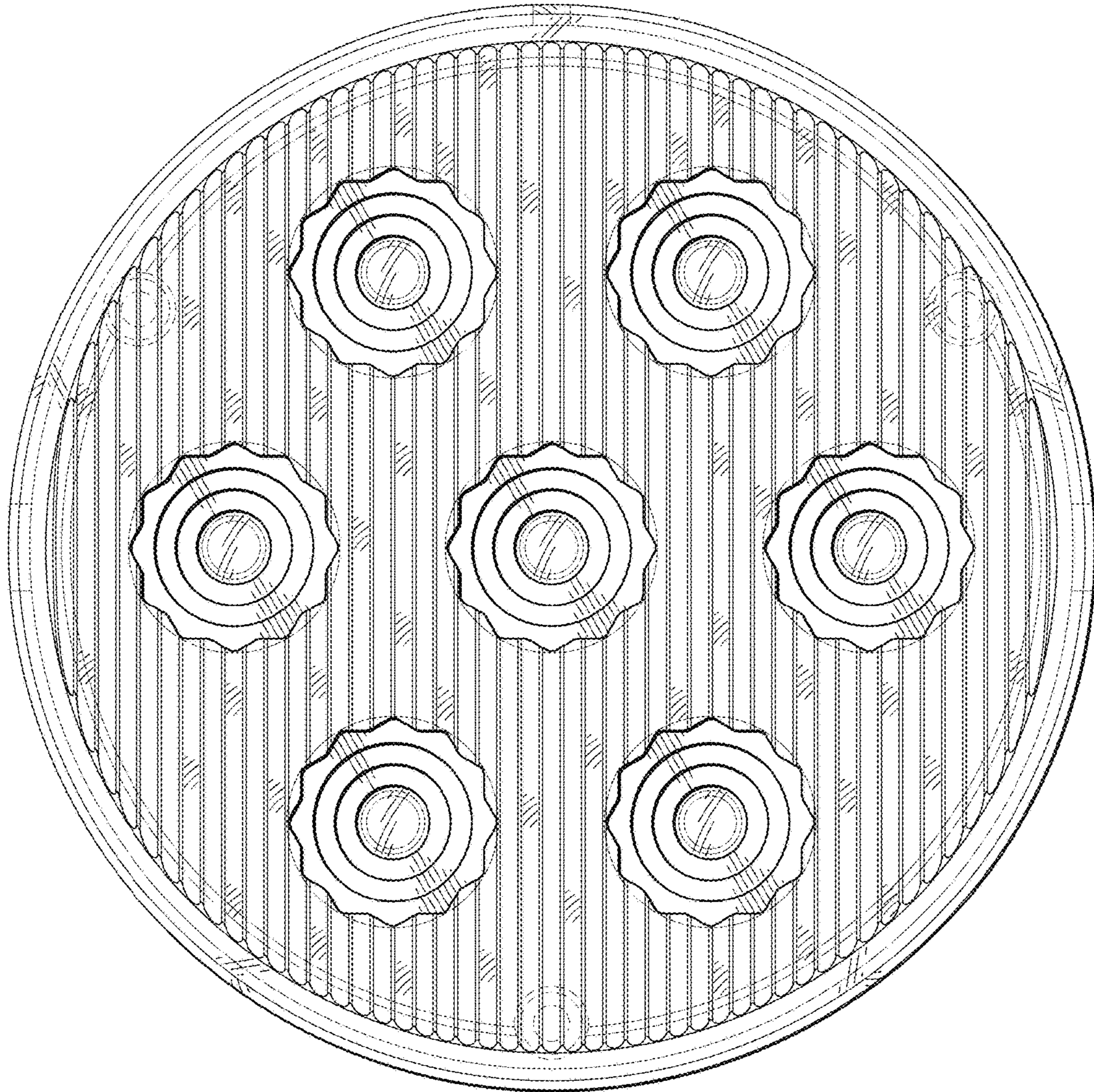


FIG. 2

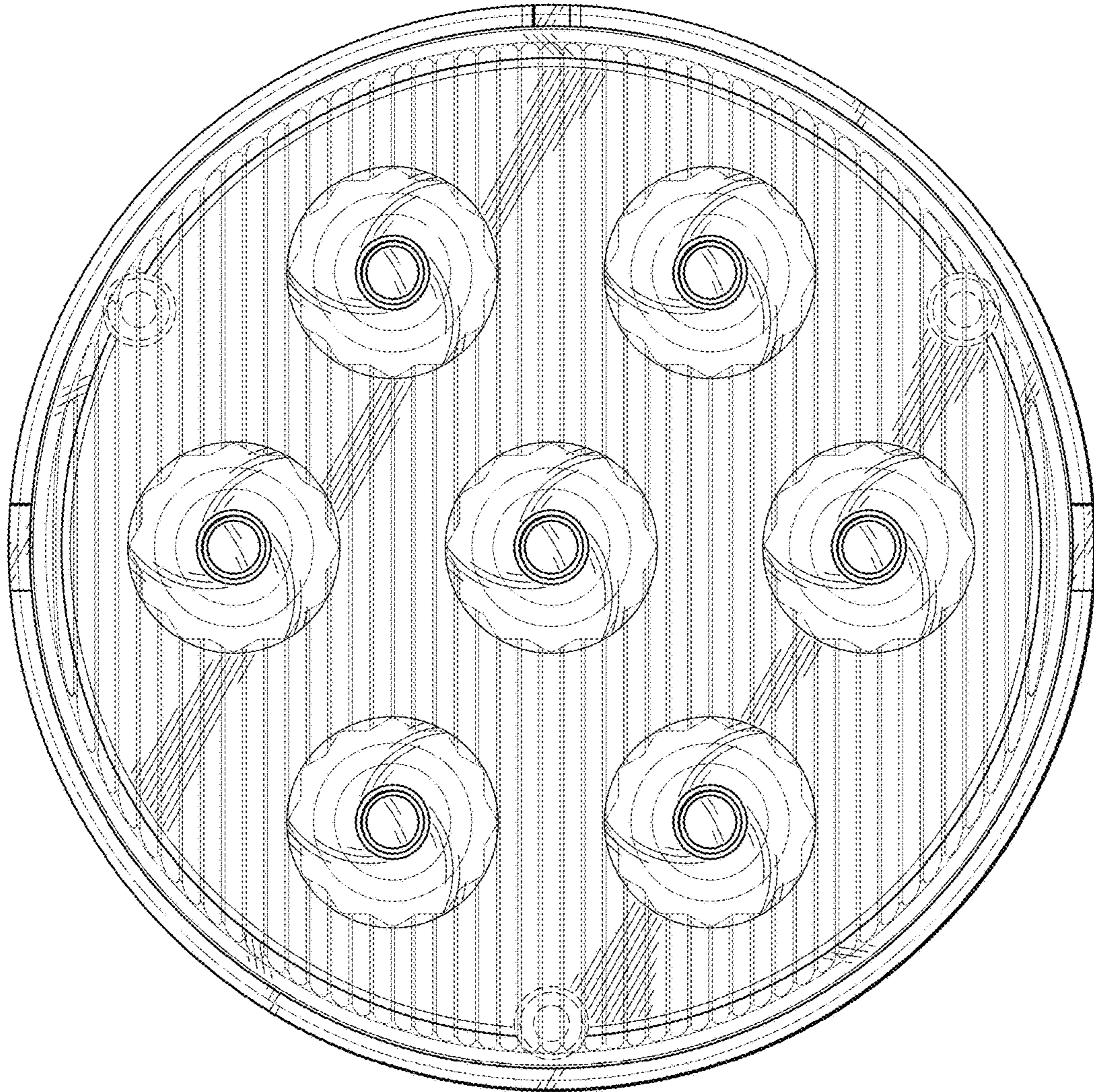


FIG. 3

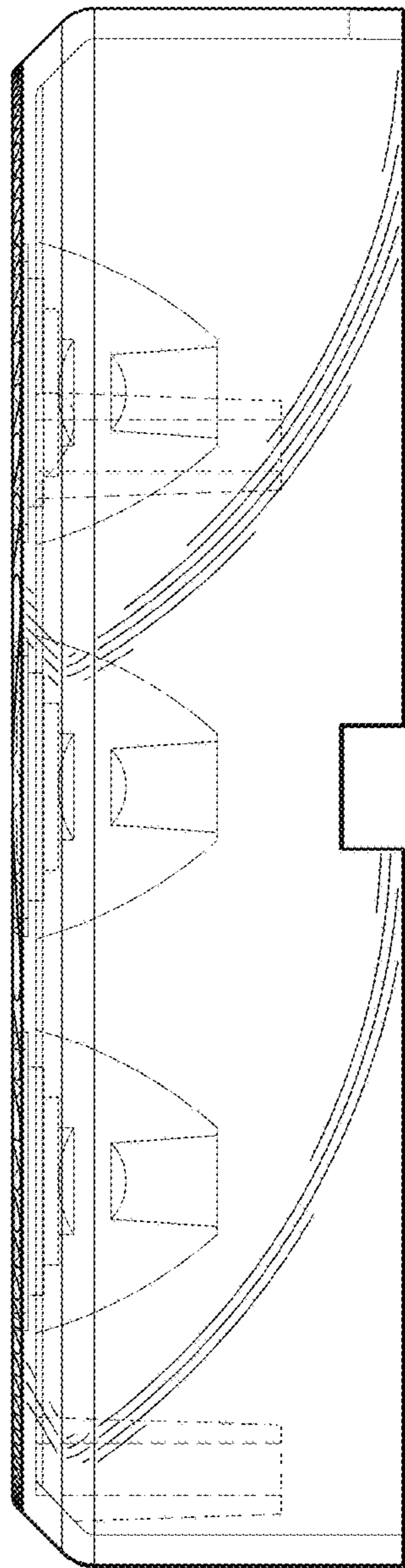


FIG. 4

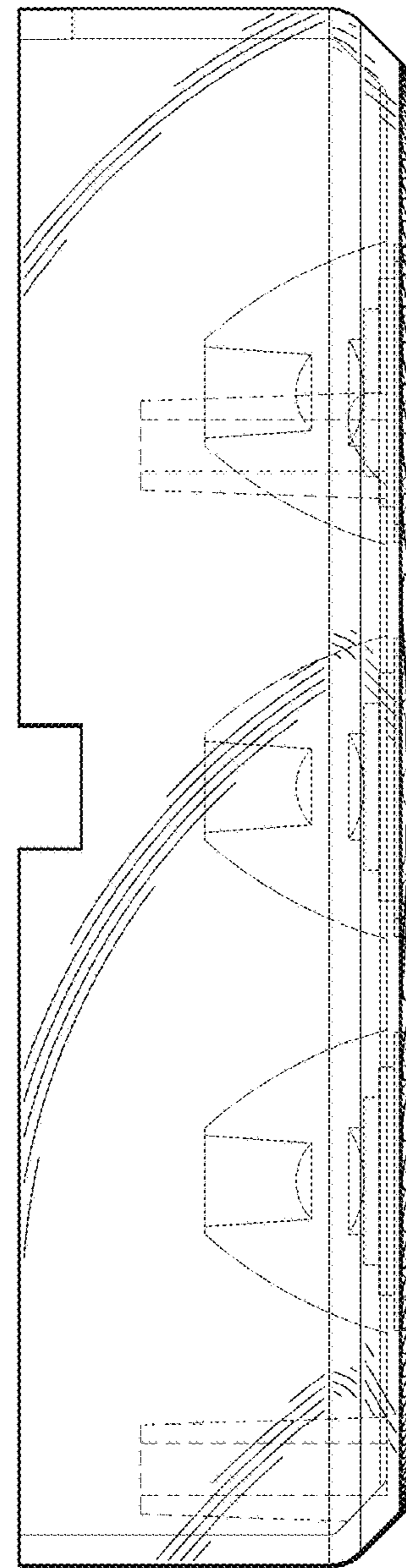


FIG. 5

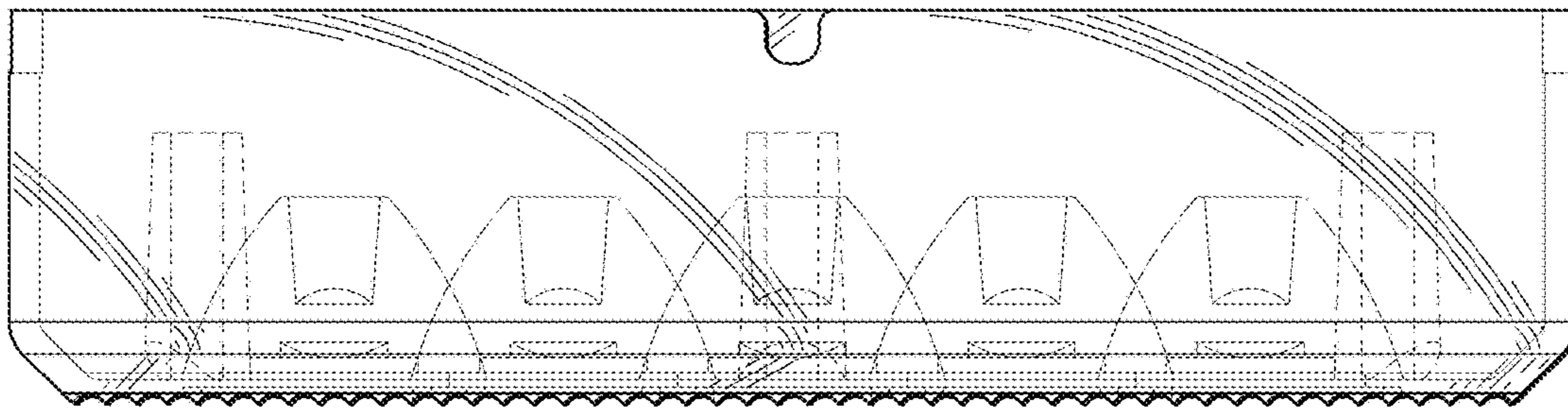


FIG. 6

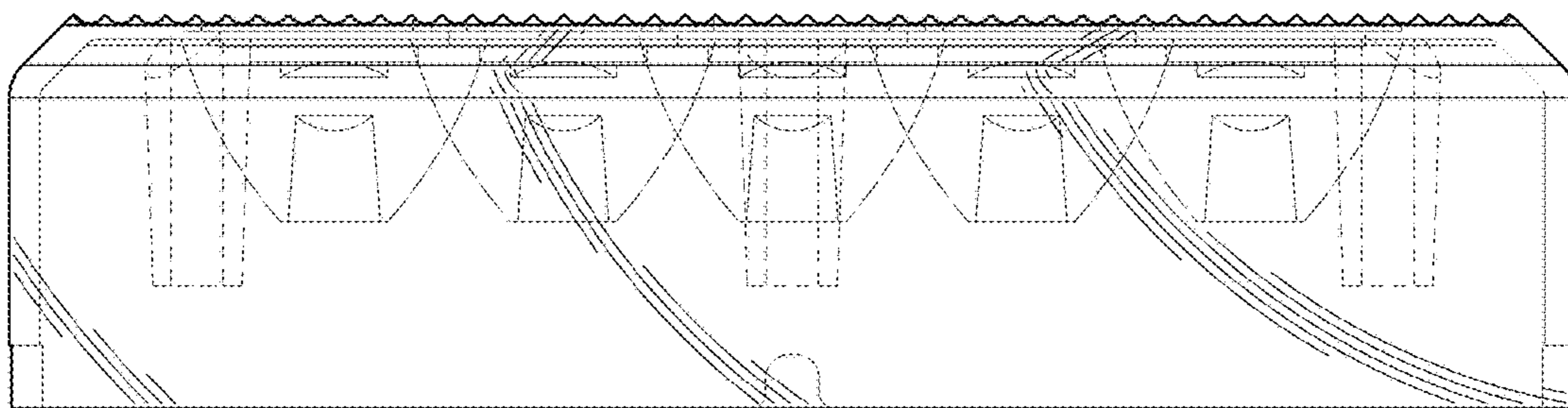


FIG. 7

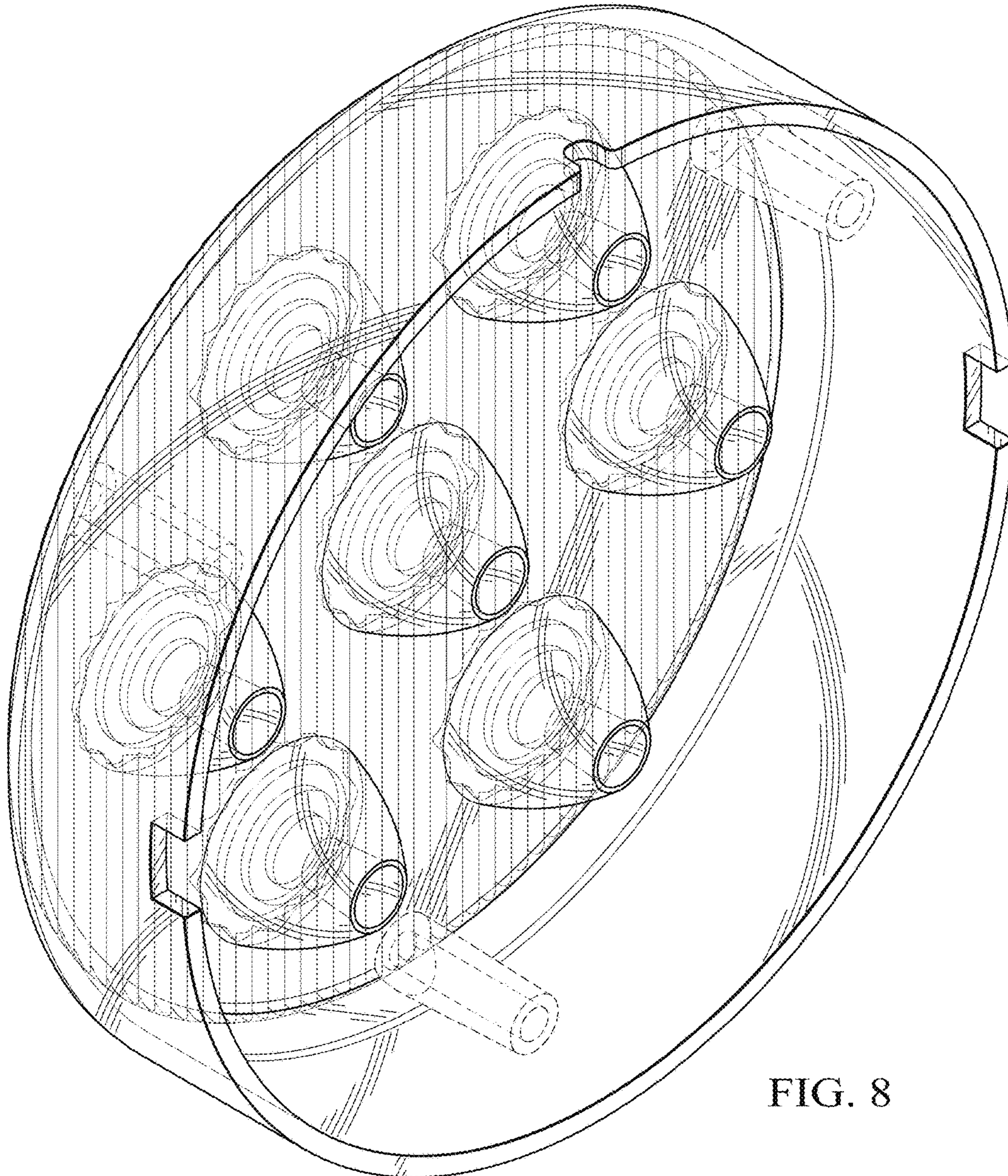


FIG. 8