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(54) END FITTING FOR A LIQUID CHROMATOGRAPHY COLUMN

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D24/233; D10/81; D23/259, 262;
D13/133, 155
CPC B01D 15/3809; B01D 15/3804; B01D 15/34;
B01D 15/32; B01D 15/30; B01D 15/265;
B01D 15/08; B01D 15/3833; B01D
15/3842; B01D 15/3857
See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

2,867,143 A * 1/1959 Appleton H01R 4/58
D23/262

3,064,983 A * 11/1962 Halterman F16L 17/035
D23/262

D254,445 S * 3/1980 Boghosian D24/224

D285,290 S * 8/1986 Shalon D10/81

D320,949 S * 10/1991 Kopf D10/81

D417,408 S * 12/1999 Rigoli D10/81

D495,060 S * 8/2004 Hellstrom D24/224

D500,856 S * 1/2005 Hellstrom D24/224

D600,580 S * 9/2009 Wounder D10/81

(Continued)

FOREIGN PATENT DOCUMENTS

CN 308060408 * 5/2023

EM 001239909-0001 * 11/2010

(Continued)

OTHER PUBLICATIONS

“Labmate Online: Making Good UHPLC Column Connections.”
Found online Apr. 12, 2024 at labmate-online.com. Reference dated
Jun. 6, 2012. Retrieved from[https://www.labmate-online.com/news/
laboratory-products/3/avantor/making-good-uhplc-column-connections/
20295](https://www.labmate-online.com/news/laboratory-products/3/avantor/making-good-uhplc-column-connections/20295).*

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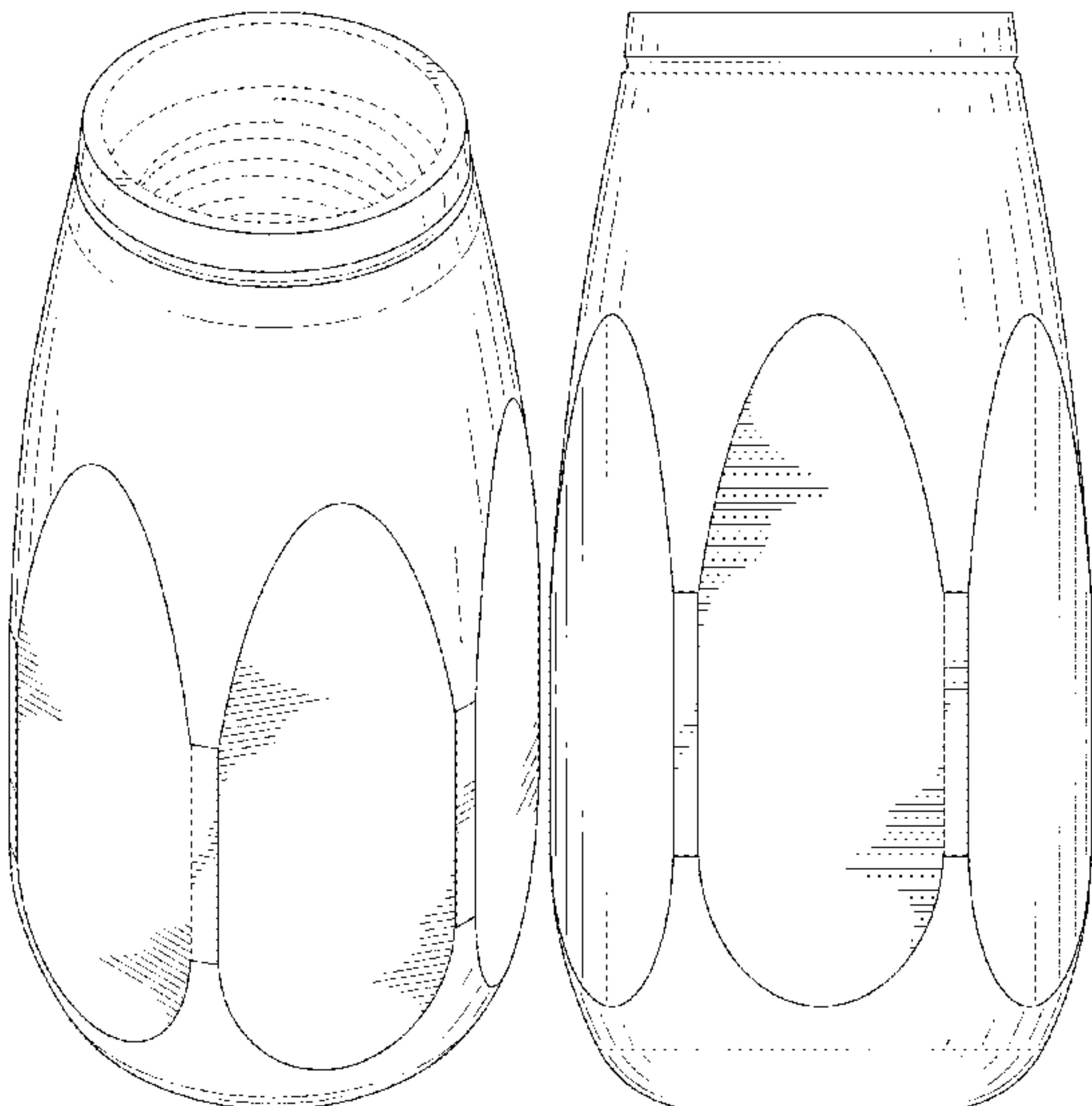
(57) CLAIM

The ornamental design for an end fitting for a liquid chro-
matography column, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an end fitting for a liquid
chromatography column;
FIG. 2 is a front elevational view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a right side elevational view thereof;
FIG. 5 is a left side elevational view thereof;
FIG. 6 is a top plan view thereof; and,
FIG. 7 is a bottom plan view thereof.
The broken lines in the figures illustrate portions of the end
fitting for a liquid chromatography column that form no part
of the claimed design.

1 Claim, 7 Drawing Sheets



References Cited

D1,001,266	S *	10/2023	Proctor	D24/216
2011/0049030	A1 *	3/2011	Nickerson	B01D 15/22
				210/198.2
2015/0042089	A1 *	2/2015	Joudrey	G01N 30/6026
				285/343
2015/0211663	A1 *	7/2015	Belanger	G01N 30/6004
				285/355

IN	213764	*	5/2011
KR	3020120001302	*	10/2012

“Chromatography Online: Fittings and Tubing for Ultrahigh-Pressure Liquid Chromatography.” Found online Apr. 12, 2024 at chromatographyonline.com. Reference dated Nov. 1, 2014. Retrieved from <https://www.chromatographyonline.com/view/fittings-and-tubing-ultrahigh-pressure-liquid-chromatography>.*

“Santa Cruz Biotechnology: Chromatography Column—CrystalCruz.” Found online Apr. 12, 2024 at [scbt.com](https://www.scbt.com). Reference dated 2017. Retrieved from <https://www.scbt.com/p/crystalcruz-chromatography-columns>.*

“Bio-Rad: Chromatography Cables, Fittings, and Tubing.” Found online Apr. 12, 2024 at [bio-rad.com](https://www.bio-rad.com). Reference dated Jul. 16, 2018. Retrieved from <https://www.bio-rad.com/en-us/category/chromatography-cables-fittings-tubing?ID=645d3e58-b576-49ed-92cf-b3b7ff8451fc>.*

* cited by examiner

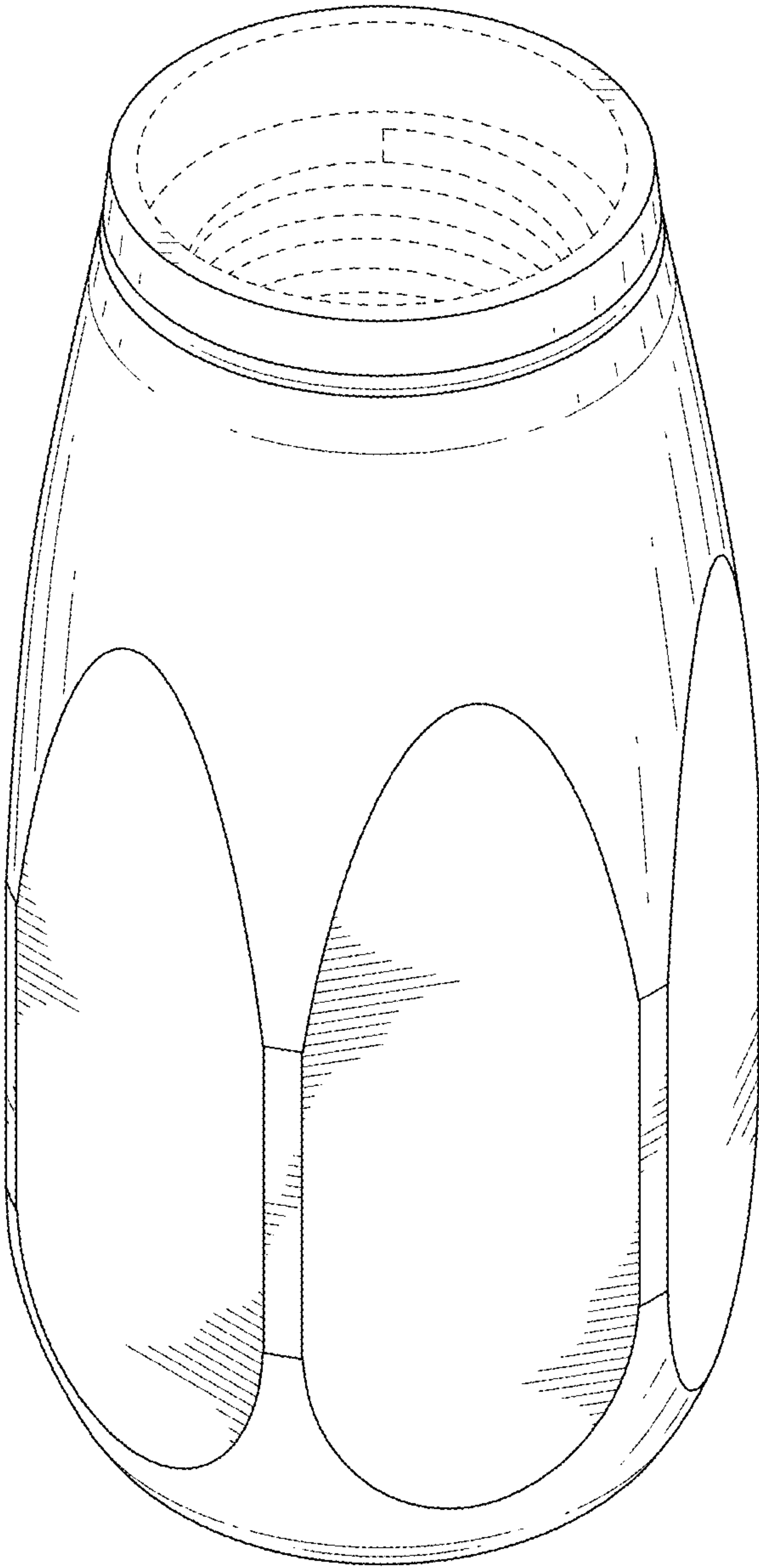


FIG. 1

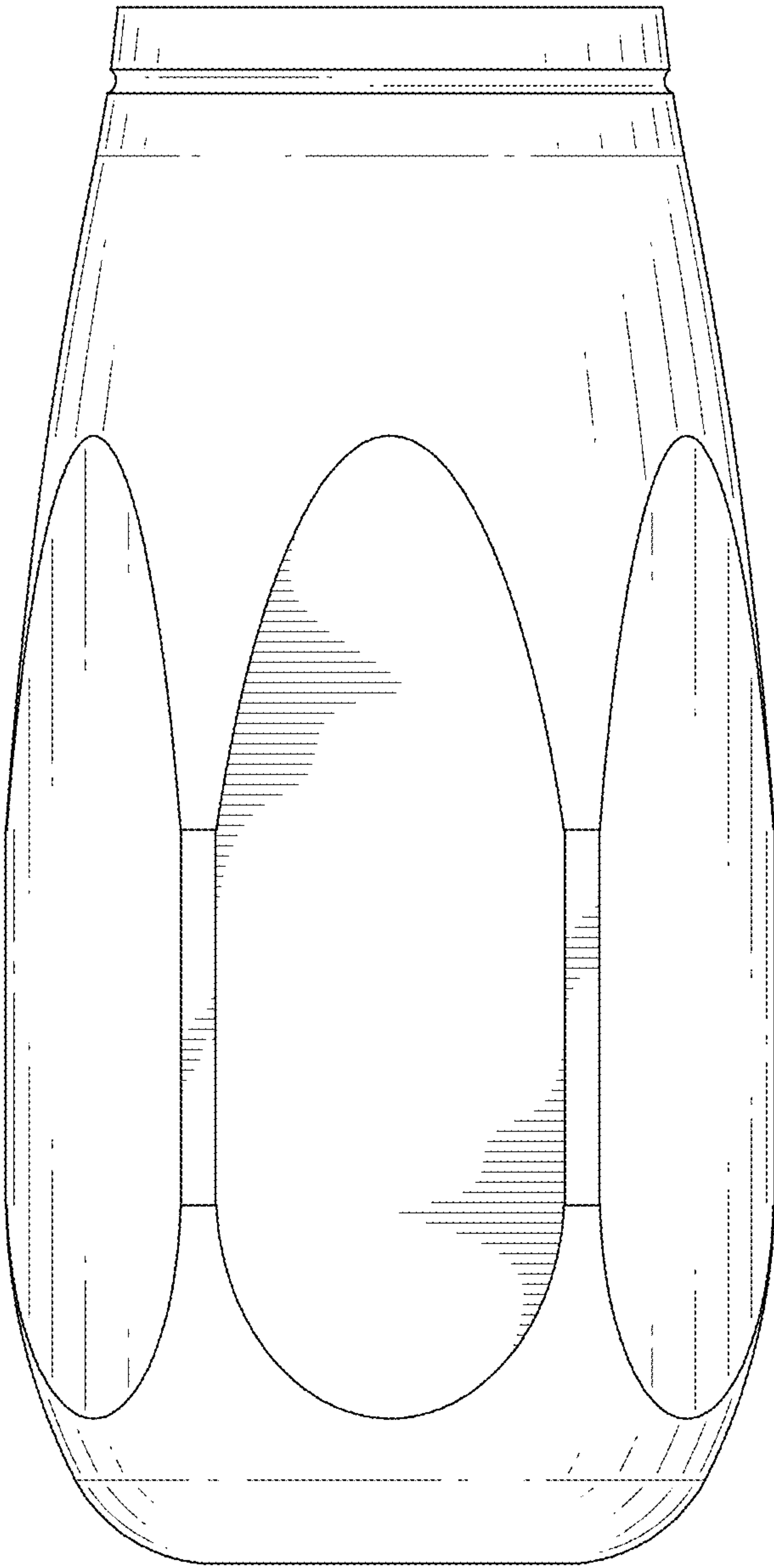


FIG.2

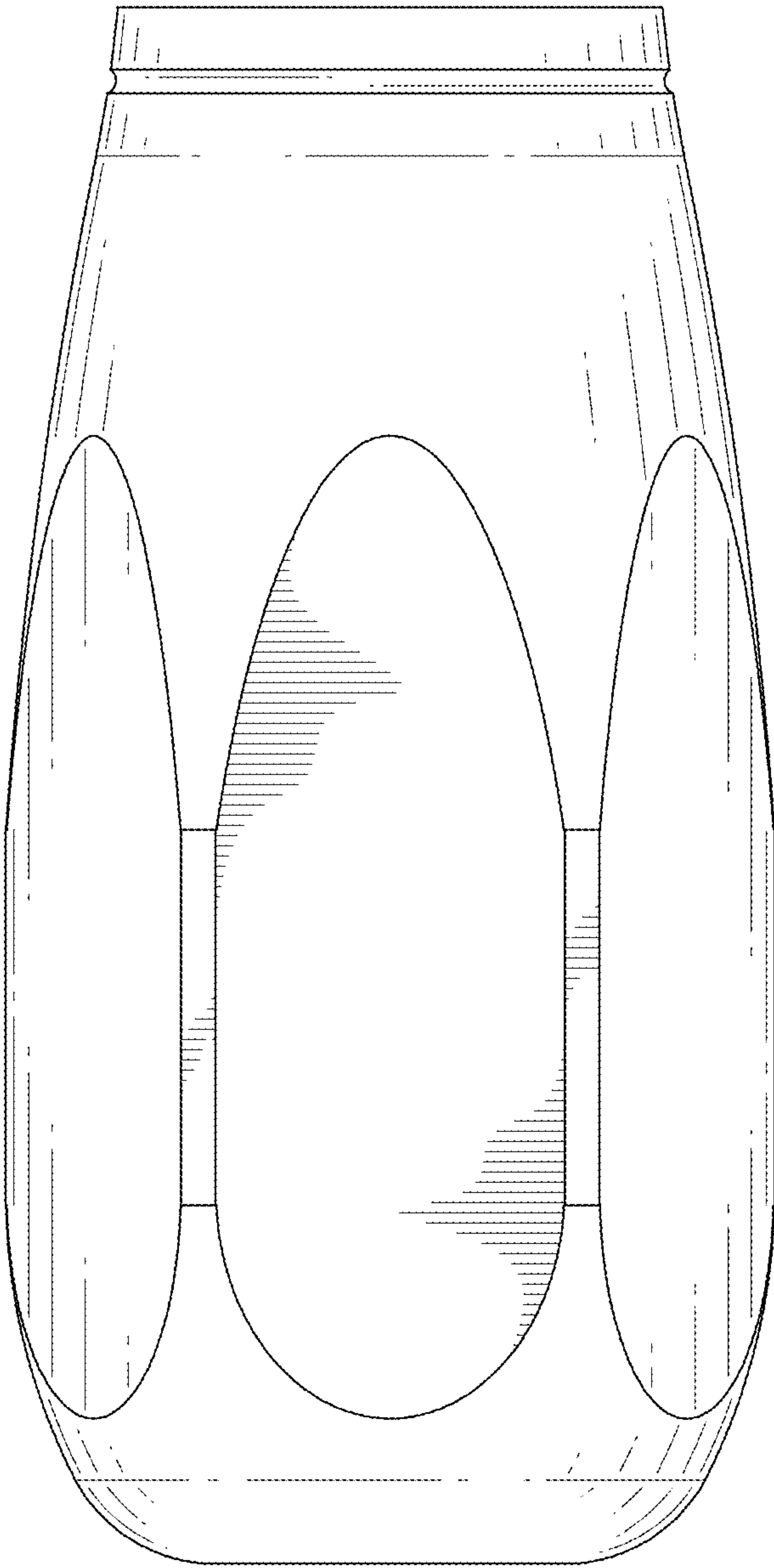


FIG.3

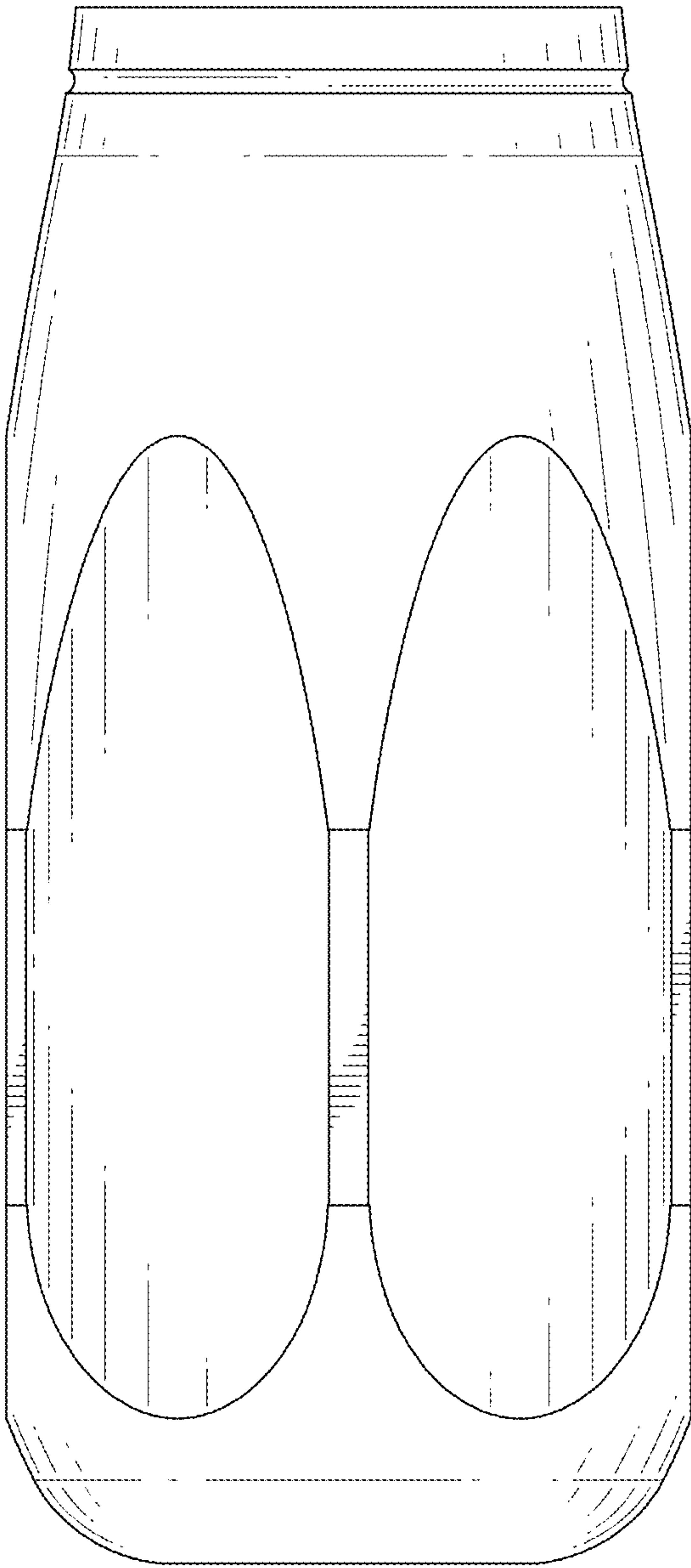


FIG.4

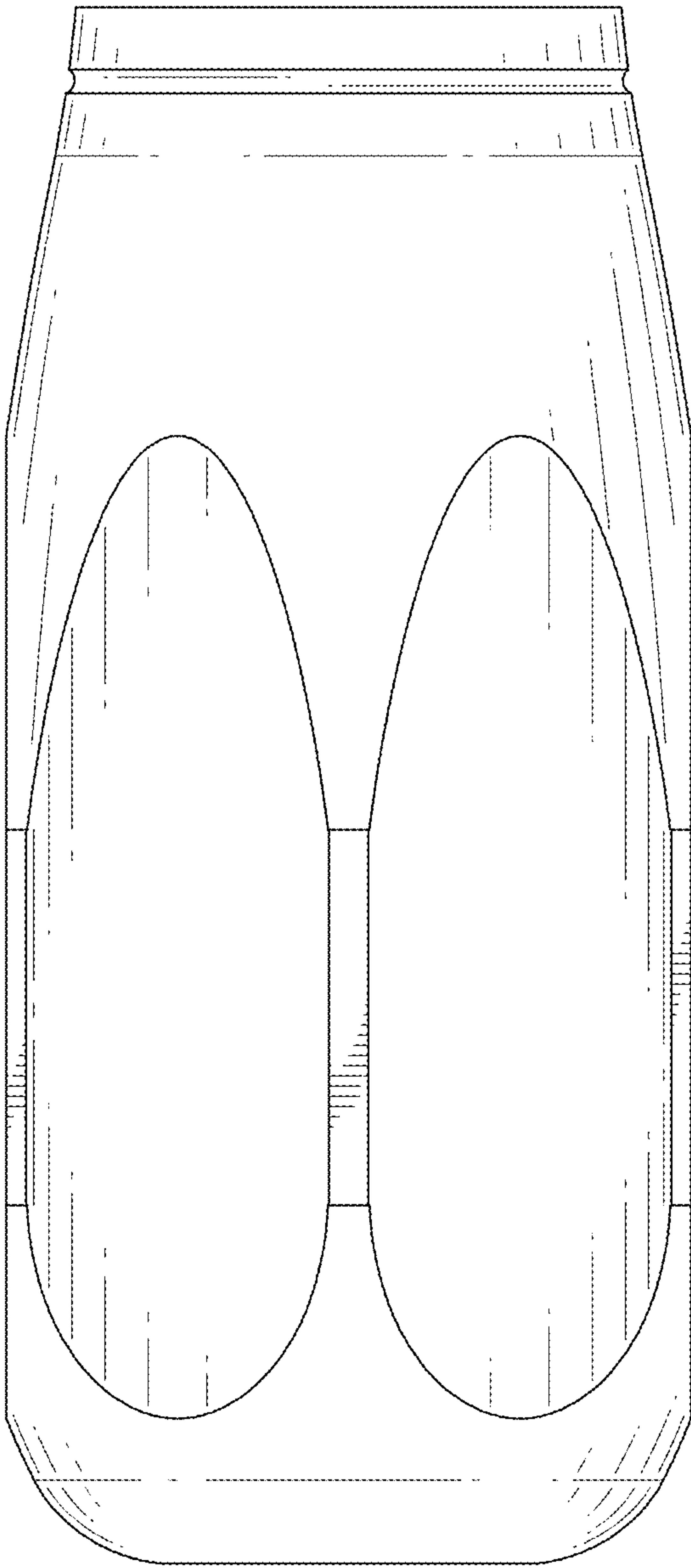


FIG.5

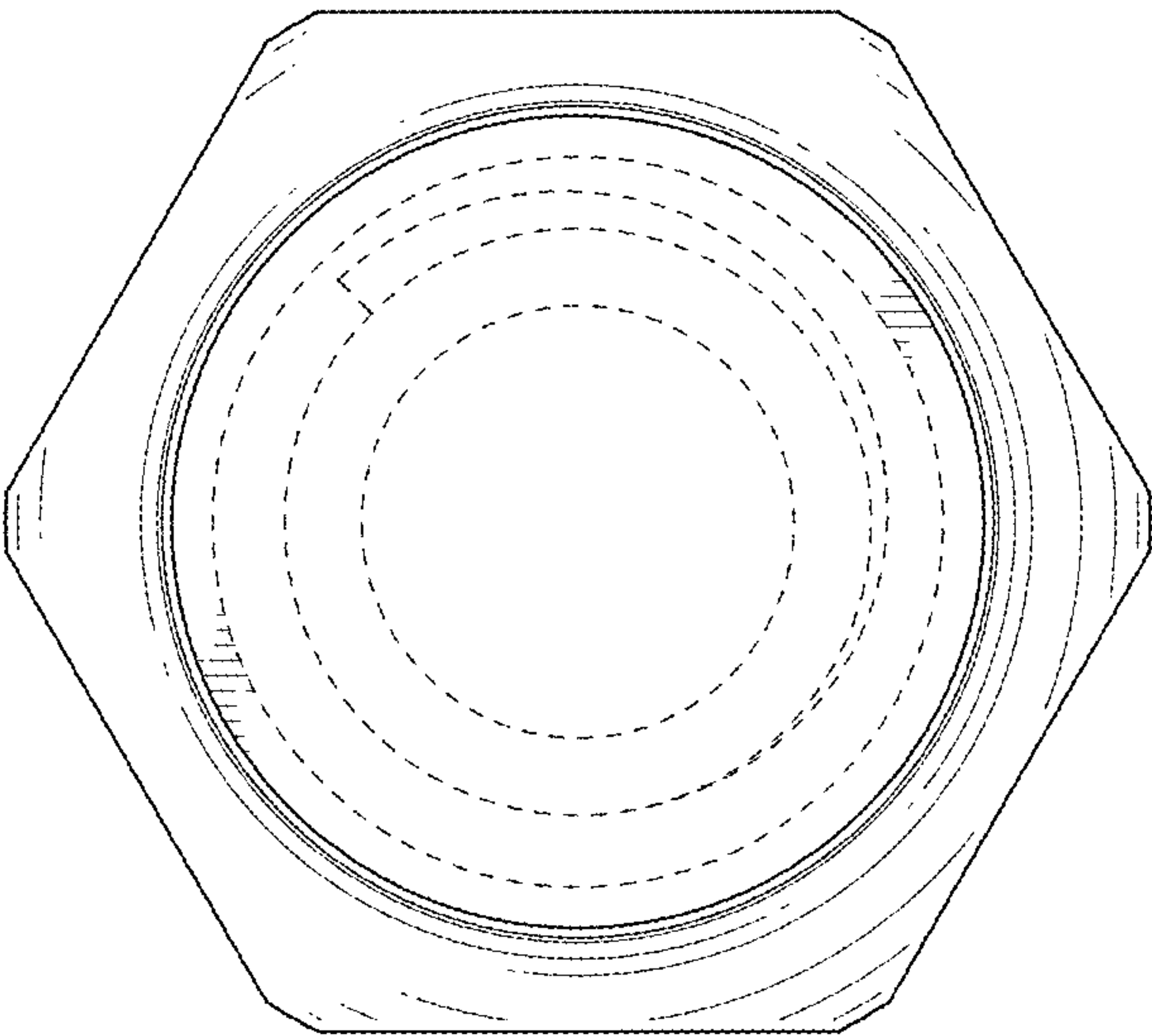


FIG.6

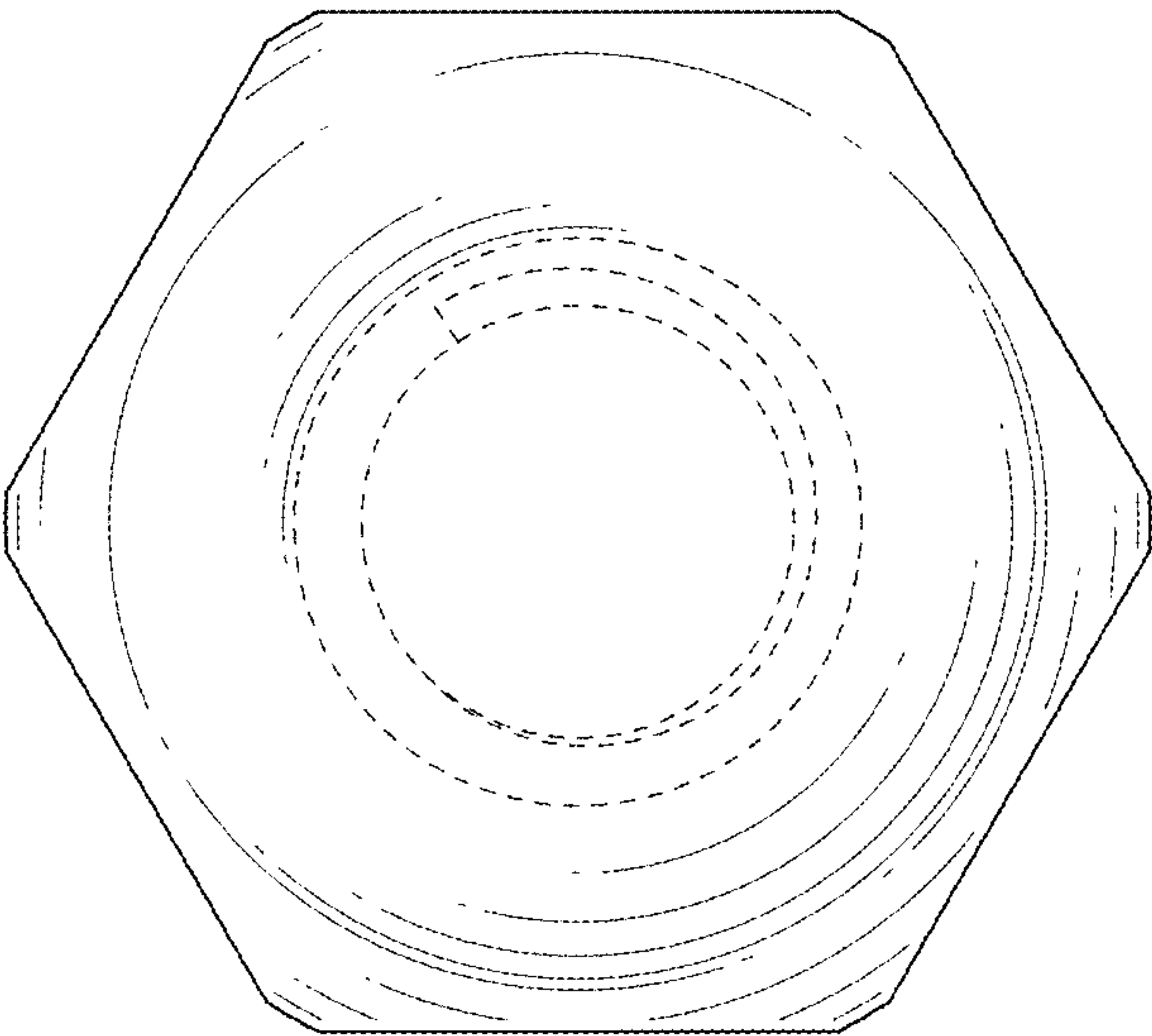


FIG.7