



US00D880298S

(12) **United States Design Patent** (10) **Patent No.:** **US D880,298 S**
Spang, Jr. et al. (45) **Date of Patent:** **** Apr. 7, 2020**

(54) **ACTUATOR**

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

(21) Appl. No.: **29/661,390**

(22) Filed: **Aug. 27, 2018**

(51) **LOC (12) Cl.** **09-07**

(52) **U.S. Cl.**
USPC **D9/448**

(58) **Field of Classification Search**
USPC D9/414, 434-436, 438-440, 443-457, D9/499, 503-505, 682, 685, 686; D7/387, 391, 392, 392.1, 396.2-396.4, D7/401.1, 507, 509-511, 538, 900; D3/202, 203.2, 318; D28/91.1; D23/365, D23/366; D26/9, 22, 118, 131, 135; D11/152-154
CPC .. A61J 1/00; A61J 1/1412; B65D 1/00; B65D 1/02; B65D 1/10; B65D 1/46; B65D 5/46; B65D 41/00; B65D 41/38; B65D 41/56; B65D 41/62; B65D 47/00; B65D 47/06; B65D 47/08; B65D 2251/00; B65D 2543/00046; B65D 2543/00092; B65D 2543/00296; B65D 2585/56; B65D 2585/545

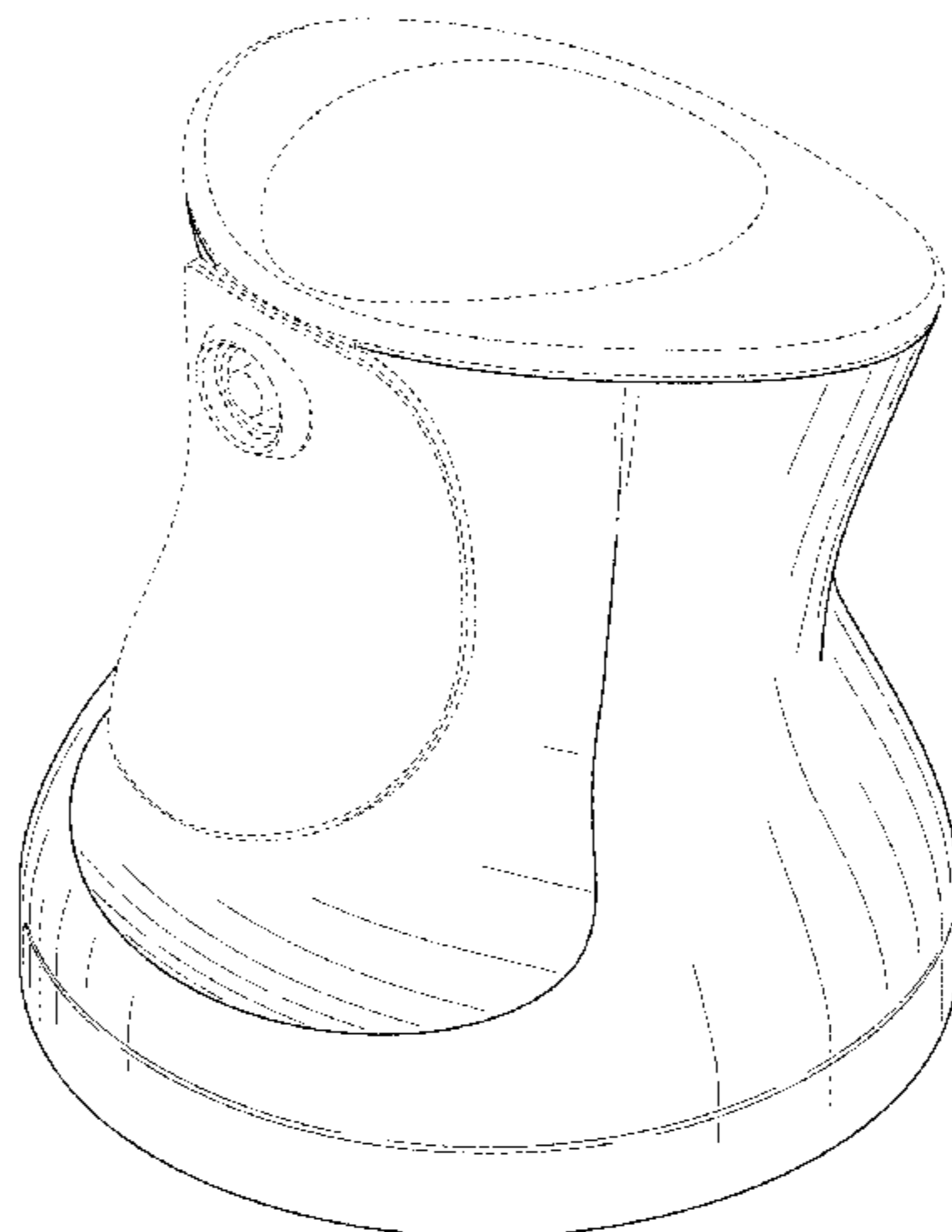
See application file for complete search history.

(56)

References Cited

U.S. PATENT DOCUMENTS

D198,547 S	6/1964	Vuillemenot	
D222,036 S *	9/1971	Carpenter	D9/448
D229,825 S *	1/1974	Hayes	D9/448
D232,499 S *	8/1974	Martinelli	D9/445
D236,252 S *	8/1975	Sette	D9/448
D238,934 S *	2/1976	Corba	D9/448
5,738,251 A	4/1998	Schuckmann	
6,095,377 A	8/2000	Sweeton et al.	
6,116,472 A	9/2000	Wanbaugh et al.	
6,286,728 B1	9/2001	Driskell et al.	
6,332,562 B1	12/2001	Sweeton	
6,378,786 B1	4/2002	Beeston et al.	
RE38,022 E	3/2003	De Laforcade	
D476,558 S	7/2003	Cho et al.	
D488,535 S	4/2004	Foster et al.	
6,722,532 B2	4/2004	Lasserre et al.	
D489,970 S	5/2004	Nelson et al.	
6,758,373 B2	7/2004	Jackson et al.	
6,834,778 B2	12/2004	Jinbo et al.	
6,860,411 B2	3/2005	Stradella	
D507,493 S	7/2005	Nelson et al.	
D510,408 S	10/2005	Bitowft et al.	
6,978,946 B2	12/2005	Sweeton	
D514,933 S	2/2006	Bitowft et al.	
7,028,866 B2	4/2006	Kunesh et al.	
D525,123 S	7/2006	Walters et al.	
D528,418 S	9/2006	Kuo	
7,108,159 B2	9/2006	Stradella	
7,137,536 B2	11/2006	Walters et al.	
7,137,537 B2	11/2006	Rueschhoff et al.	
7,140,515 B2	11/2006	Cardwell, III et al.	
D534,077 S	12/2006	Paas et al.	
D535,188 S	1/2007	Lee	
D537,359 S	2/2007	Butler et al.	
D538,650 S	3/2007	Paas et al.	
D539,142 S	3/2007	Butler et al.	
7,204,393 B2	4/2007	Strand	
D545,190 S	6/2007	Wu	
D548,078 S	8/2007	Foster	
D552,991 S	10/2007	Lai	
7,296,712 B2	11/2007	Stradella	
D559,682 S	1/2008	Meeker et al.	
7,325,705 B2	2/2008	Sweeton	
7,344,053 B2	3/2008	Sweeton	
7,350,675 B2	4/2008	Sweeton	
7,360,672 B2	4/2008	Sweeton	
D569,723 S *	5/2008	Sellick	D9/448
D571,206 S *	6/2008	Sweeton	D9/448
D580,761 S	11/2008	Sweeton	



US D880,298 S

7,455,198 B2	11/2008	Foster et al.		2008/0290120 A1	11/2008	Helf et al.	
D581,789 S	12/2008	Ames et al.		2009/0114215 A1	5/2009	Boeck et al.	
D582,272 S	12/2008	Cichy		2011/0108583 A1	5/2011	Sell et al.	
D583,668 S	12/2008	Sweeton		2013/0146611 A1	6/2013	Sell	
D588,456 S	3/2009	Dejong et al.		2014/0084026 A1	3/2014	Gillespie et al.	
7,497,358 B2	3/2009	Clynes et al.		2014/0110440 A1	4/2014	Good et al.	
D590,712 S	4/2009	Sweeton		2014/0209633 A1*	7/2014	McDaniel	B65D 83/38
D591,612 S	5/2009	Ames et al.					222/95
D595,575 S	7/2009	Cichy		2017/0305645 A1	10/2017	Sell	
D598,283 S	8/2009	Ames et al.					
7,571,836 B2	8/2009	Foster et al.					
D600,119 S	9/2009	Sweeton					
D604,610 S	11/2009	Ames et al.					
7,621,468 B2	11/2009	Smith et al.					
D605,953 S	12/2009	Wang Treadway et al.		CA	104739 S	1/2005	
7,637,396 B2	12/2009	Foster et al.		CA	124466 S	1/2009	
7,641,079 B2	1/2010	Lott et al.		CA	129347 S	1/2009	
7,677,416 B2	3/2010	Foster et al.		CA	129348 S	1/2009	
7,721,920 B2	5/2010	Ruiz De Gopegui et al.		CA	129349 S	1/2009	
7,757,567 B2	7/2010	Joyce et al.		CA	2656031 C	10/2013	
7,784,650 B2	8/2010	Bates et al.		CA	2618034 C	3/2014	
D623,071 S	9/2010	Driskell et al.		CN	1257017 C	5/2006	
D627,224 S	11/2010	Bass et al.		CN	100534631 C	9/2009	
D634,194 S	3/2011	Driskell et al.		CN	103619728 B	3/2016	
D639,160 S	6/2011	Jug et al.		EM	000097969-0001	11/2003	
D645,745 S	9/2011	Driskell et al.		EM	000385471-0001	8/2005	
8,016,167 B2	9/2011	Tomkins et al.		EM	000385471-0002	8/2005	
D647,805 S	11/2011	Broen et al.		EM	000385471-0003	8/2005	
D649,048 S *	11/2011	Baker	D9/435	EM	000385471-0004	8/2005	
D649,456 S *	11/2011	Baker	D9/448	EM	000385489-0001	8/2005	
8,066,155 B2	11/2011	Tada		EM	000385489-0002	8/2005	
8,123,082 B2	2/2012	Hayton et al.		EM	000385489-0003	8/2005	
D660,150 S	5/2012	Fournet		EM	000385489-0004	8/2005	
8,167,176 B2	5/2012	Stradella		EM	000405980-0001	9/2005	
D661,987 S	6/2012	Broen et al.		EM	000405980-0002	9/2005	
8,196,784 B2	6/2012	Tomkins et al.		EM	000452354-0001	12/2005	
8,201,714 B2	6/2012	Tomkins et al.		EM	000452354-0002	12/2005	
D665,260 S	8/2012	Driskell et al.		EM	000452354-0003	12/2005	
D673,448 S *	1/2013	Cohen	D9/434	EM	000452354-0004	12/2005	
D674,469 S	1/2013	Boyer		EM	000647839-0001	1/2007	
D674,695 S	1/2013	Thurin et al.		EM	000860259-0001	1/2008	
D675,103 S	1/2013	Broen et al.		EM	000860259-0002	1/2008	
8,444,026 B2	5/2013	Adams et al.		EM	000860259-0003	1/2008	
8,499,984 B2	8/2013	Strand		EM	000860259-0004	1/2008	
D697,815 S	1/2014	Broen et al.		EM	000860259-0005	1/2008	
D705,651 S	5/2014	Neumann et al.		EM	000860259-0006	1/2008	
D710,200 S	8/2014	Takizawa et al.		EM	000971221-0001	7/2008	
D710,697 S	8/2014	Lind		EM	001009054-0001	9/2008	
D713,251 S	9/2014	Driskell et al.		EM	001009054-0002	9/2008	
8,840,045 B2	9/2014	Thurin et al.		EM	001009054-0003	9/2008	
8,863,995 B2	10/2014	Stegeman		EM	001009054-0004	9/2008	
8,881,944 B2	11/2014	Paas et al.		EM	001009054-0005	9/2008	
D718,624 S	12/2014	Hanson		EM	001009054-0006	9/2008	
8,936,180 B2	1/2015	Sell		EM	002070086-0001	7/2012	
D721,961 S	2/2015	Takizawa et al.		EM	002070086-0002	7/2012	
D723,368 S	3/2015	Checklin et al.		EM	002182121-0001	2/2013	
8,998,041 B2	4/2015	Strand		EM	002182121-0002	2/2013	
9,004,324 B2	4/2015	Adams et al.		EM	002182121-0003	2/2013	
D731,321 S	6/2015	Farrell et al.		EM	002511758-0004	7/2014	
9,061,816 B2	6/2015	Best et al.		EM	002511758-0005	7/2014	
9,061,817 B2	6/2015	Lind et al.		EM	003534486-0001	12/2016	
D735,036 S *	7/2015	Broen	D9/448	EM	003534486-0002	12/2016	
D746,135 S	12/2015	Lind		EP	2297003 A2	3/2011	
D752,977 S	4/2016	Herbst et al.		EP	2346748 A1	7/2011	
D758,878 S	6/2016	Hoeke et al.		JP	1336737 S	6/2008	
9,375,593 B2	6/2016	Fishman et al.		JP	1336738 S	6/2008	
D761,650 S	7/2016	Hoeke et al.		JP	2015030460 A	2/2015	
9,435,120 B2	9/2016	Hanson et al.		MX	247079 B	7/2007	
9,475,635 B2	10/2016	Driskell et al.		MX	283783 B	2/2011	
D773,929 S	12/2016	Richard et al.		MX	2010013544 A	2/2011	
D777,033 S	1/2017	Takizawa et al.		MX	2013002100 A	5/2013	
D787,326 S	5/2017	Hanson et al.		MX	354198 B	2/2018	
D790,342 S	6/2017	Farrell et al.		WO	2009152112 A1	12/2009	
9,738,436 B2	8/2017	Sell		WO	2010008462 A2	1/2010	
D796,322 S	9/2017	Hanson		WO	2010056724 A1	5/2010	
9,758,294 B2	9/2017	McDaniel et al.		WO	DM076856	5/2011	
D866,325 S *	11/2019	Tu	D9/448	WO	2012166793 A1	12/2012	
2004/0140328 A1	7/2004	Pericard et al.		WO	DM081741	9/2013	
2004/0222246 A1	11/2004	Bates et al.		WO	DM082807	11/2013	
				WO	DM082809	11/2013	
				WO	2016163987 A1	10/2016	

FOREIGN PATENT DOCUMENTS

OTHER PUBLICATIONS

“Pink Fine Mist Sprayer & Dip Tube for 5 oz. Bottle | U.S. Plastic Corp.,” United States Plastic Corp., 2 pages. Retrieved from Internet on Dec. 5, 2017, URL: <https://www.usplastic.com/catalog/item.aspx?itemid=126360&catid=470>.

“Plastic Continuous Fine Mist Spray Bottle Finger Sprayer Bottle Rd-107x,” Alibaba.com, 13 pages. Retrieved from Internet on Dec. 5, 2017, URL: https://www.alibaba.com/product-detail/300ML-Plastic-Continuous-Fine-Mist-Spray_60641511667.html?spm=a2700.7724857.main07.21.66de1d87Dy.

“Salon Water spray bottle automatic high pressurized Mist spray Water bottle,” eBay, Sep. 18, 2017, 8 pages. Retrieved from Internet on Dec. 5, 2017, URL: <https://www.ebay.in/itm/Salon-Water-spray-bottle-automatic-high-pressurized-Mist-spray-Water-bottle-/282550002825?hash=item41c94ae489>.

International Search Report and Written Opinion issued in corresponding International Application No. PCT/US2019/048342, dated Nov. 15, 2019, 14 pages.

* cited by examiner

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(57)

CLAIM

The ornamental design for an actuator, as shown and described.

DESCRIPTION

FIG. 1 is an isometric view of a top, front, and right side of an actuator;

FIG. 2 is a front elevational view of the actuator of FIG. 1;

FIG. 3 is a rear elevational view of the actuator of FIG. 1;

FIG. 4 is a right side elevational view of the actuator of FIG. 1;

FIG. 5 is a left side elevational view of the actuator of FIG. 1;

FIG. 6 is a top plan view of the actuator of FIG. 1; and,

FIG. 7 is a bottom plan view of the actuator of FIG. 1.

The dash-dash-dash-dash broken lines are included for the purpose of illustrating portions that form no part of the claimed design.

1 Claim, 7 Drawing Sheets

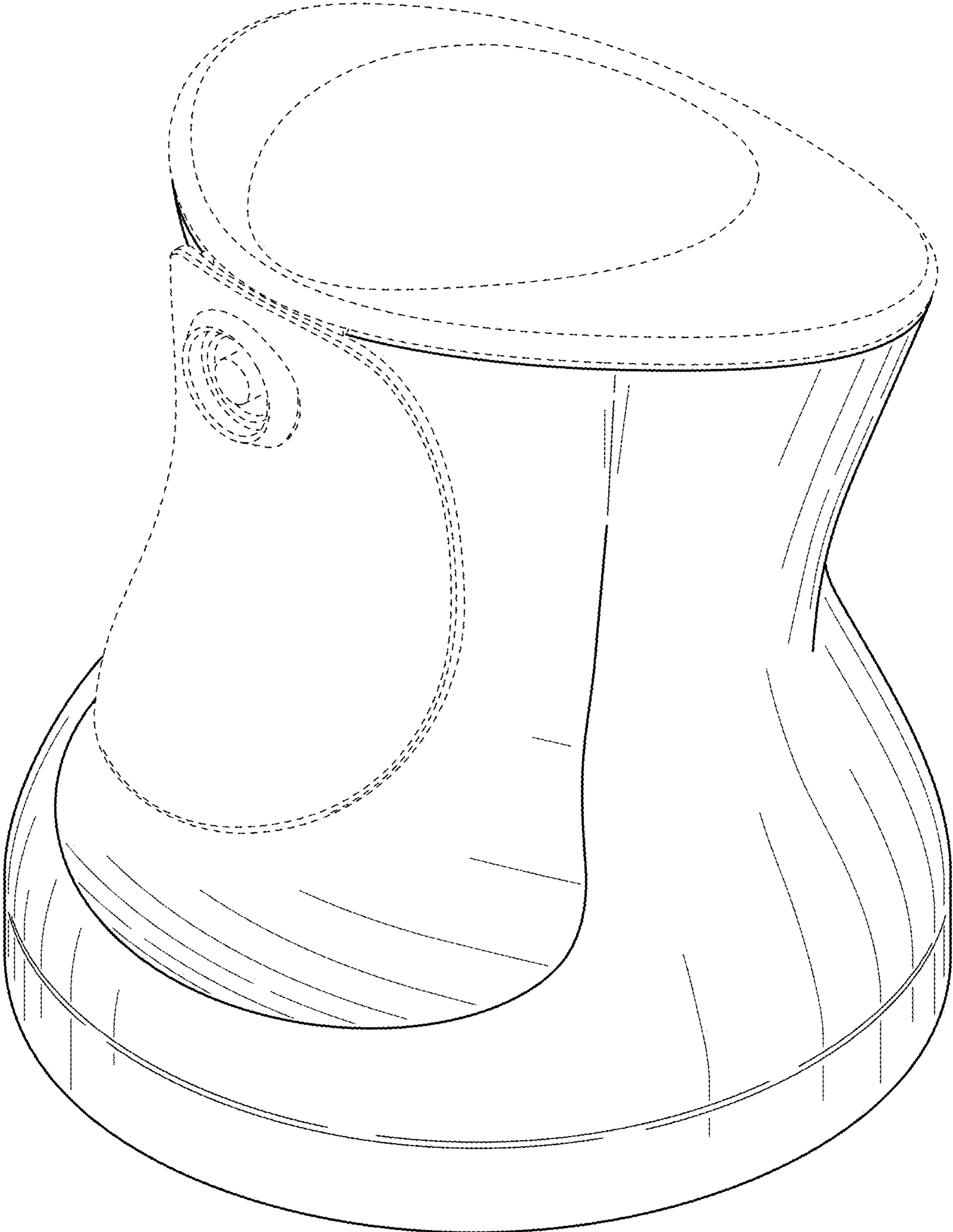


FIG. 1

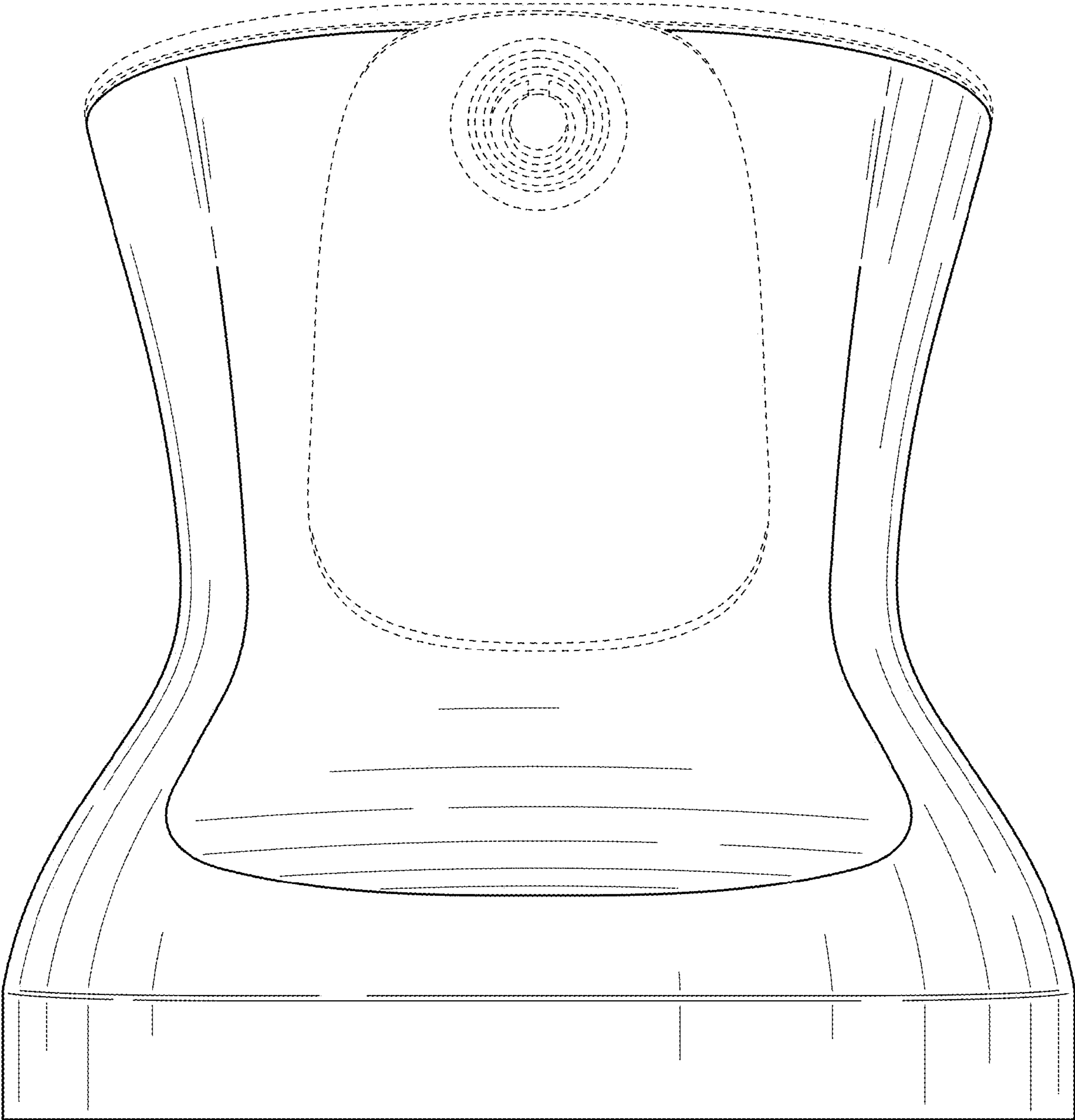


FIG. 2

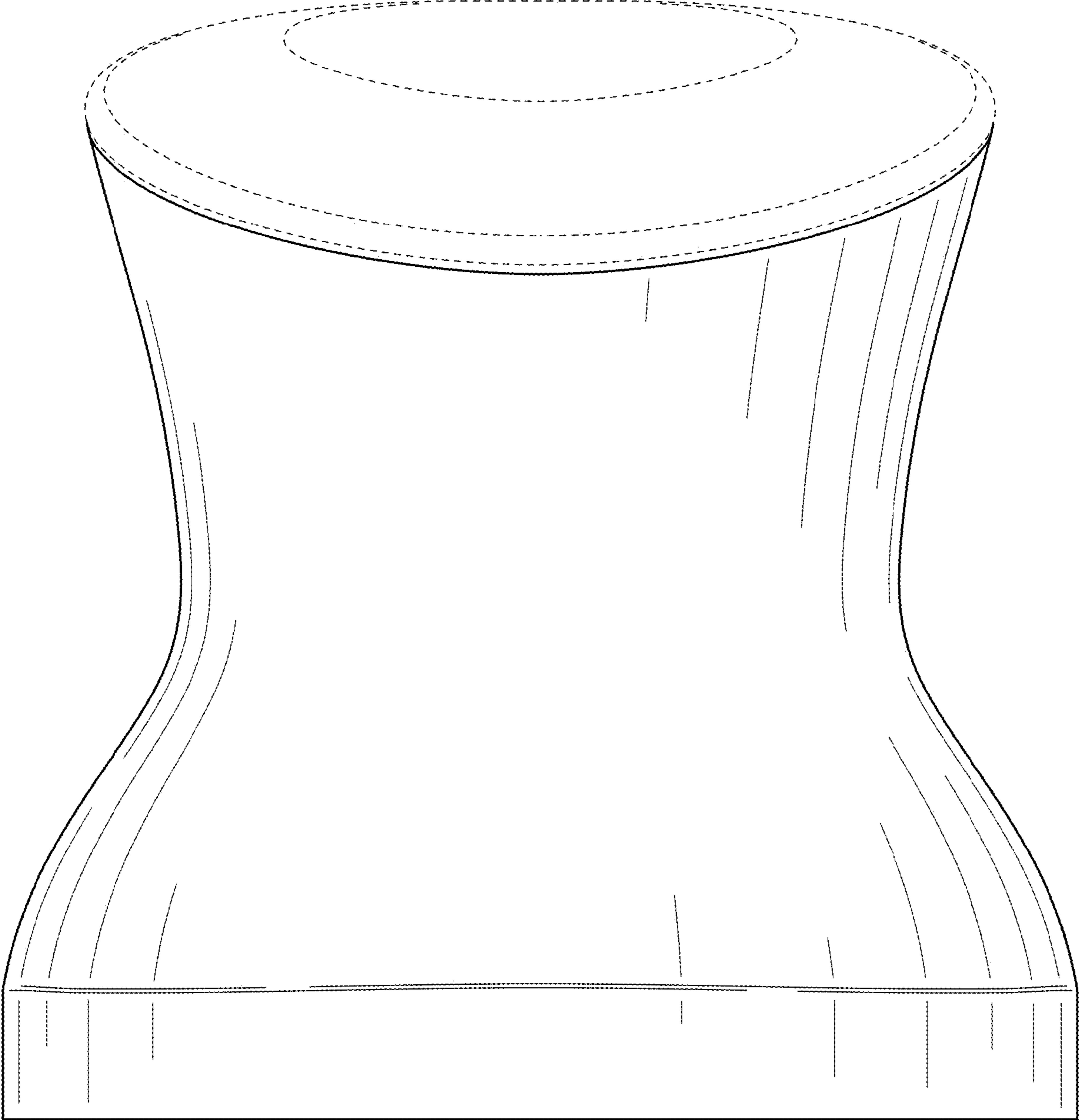


FIG. 3

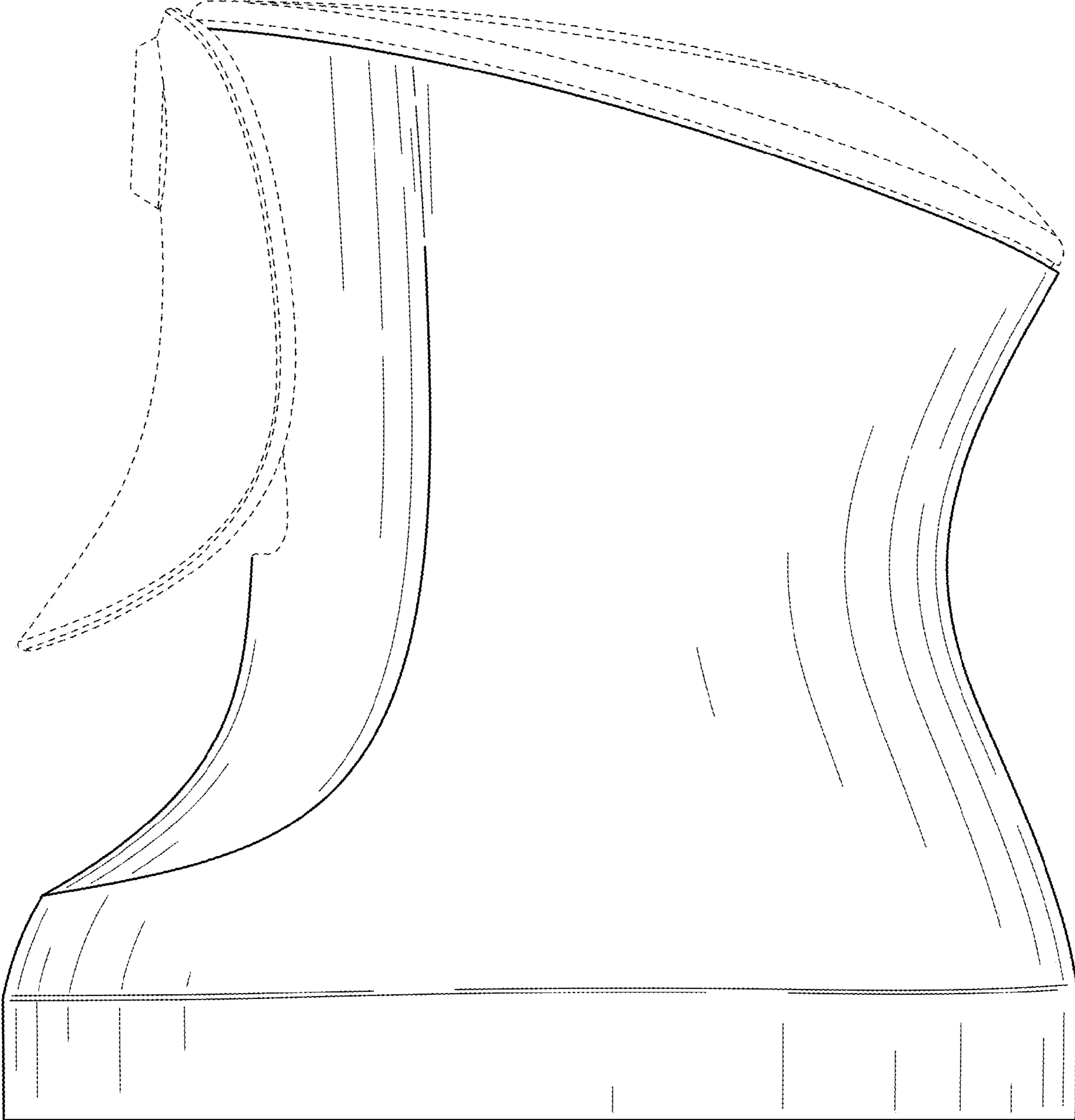


FIG. 4

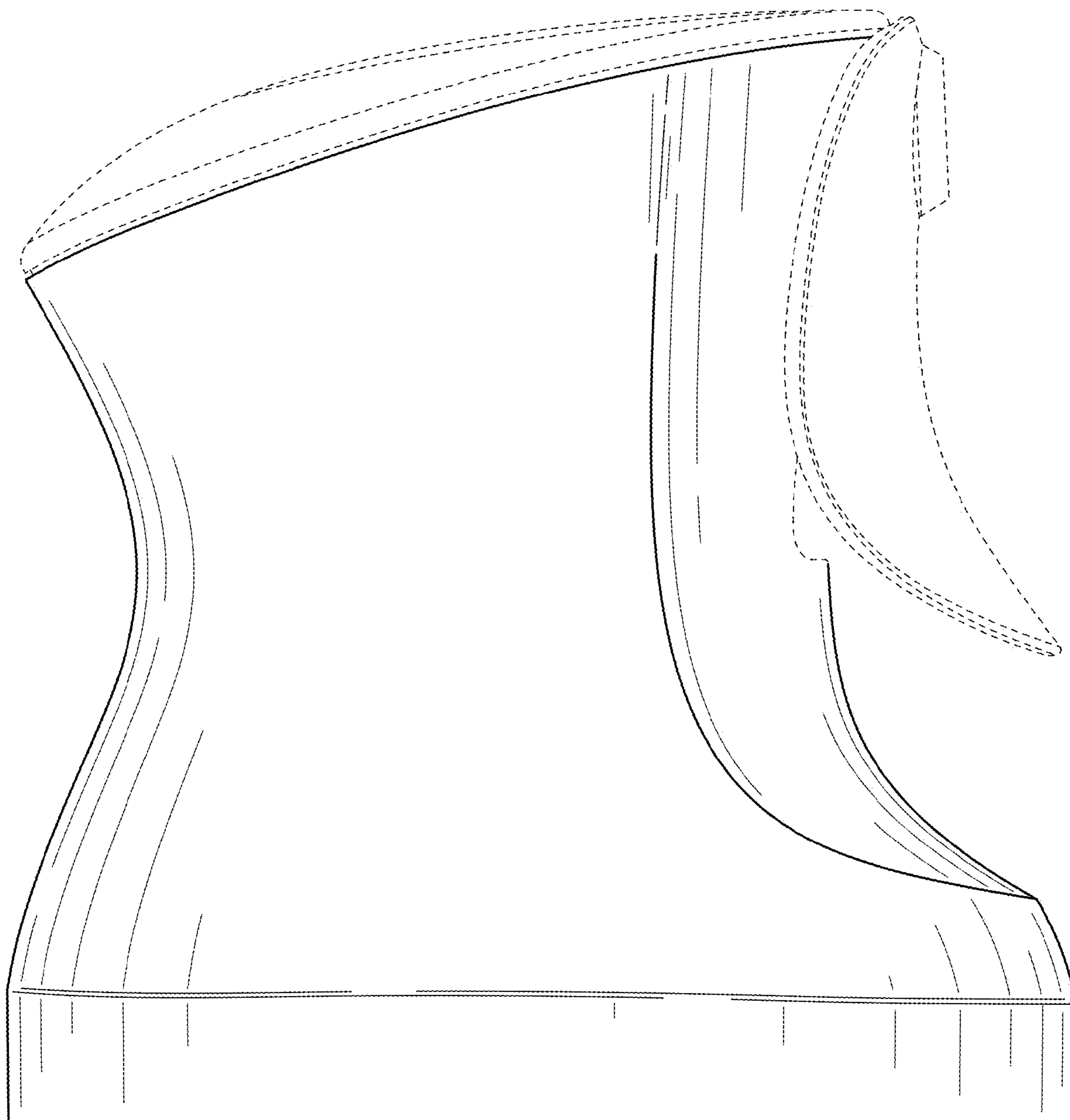


FIG. 5

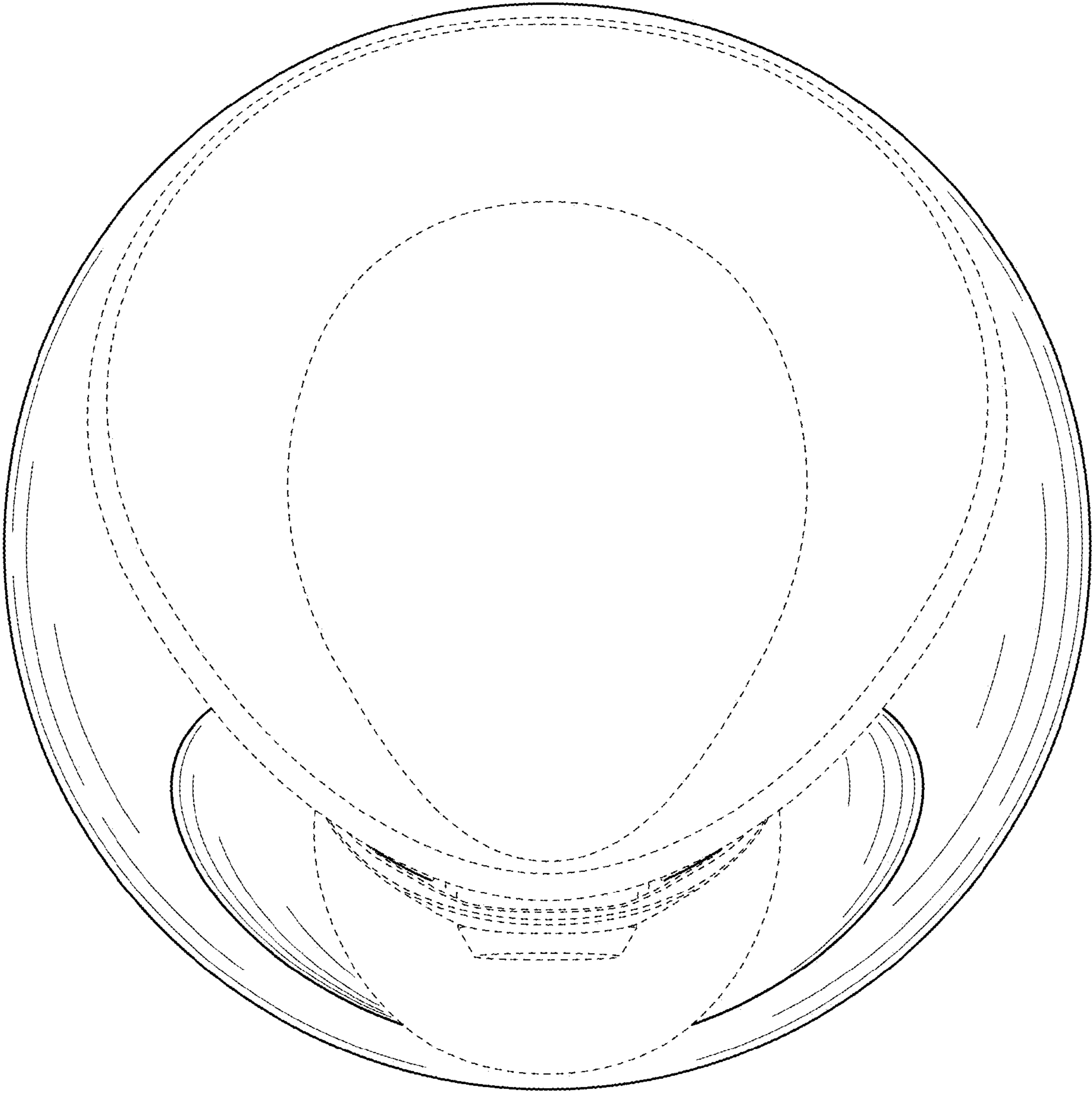


FIG. 6

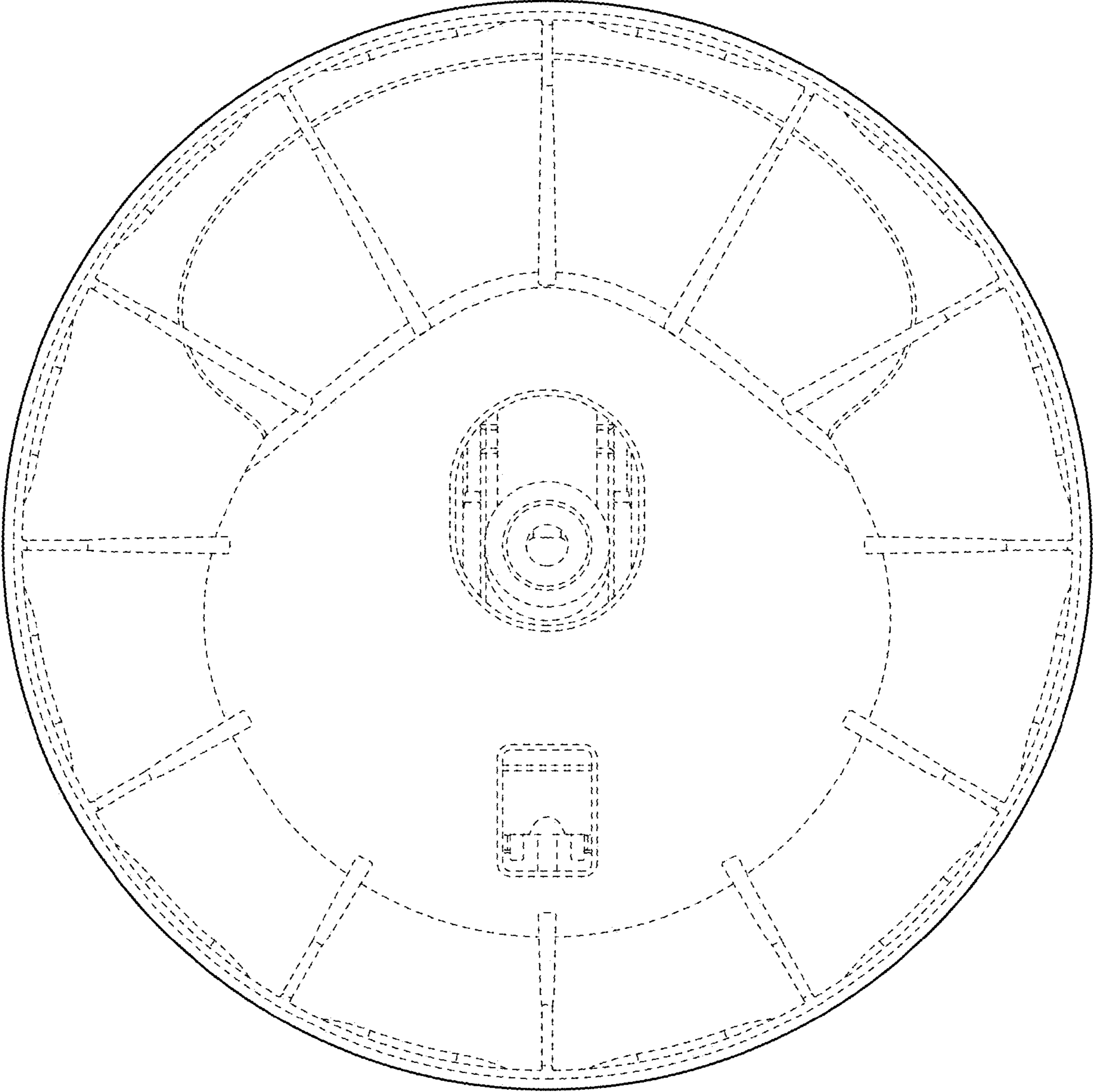


FIG. 7