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(12) **United States Design Patent** (10) **Patent No.:** **US D833,137 S**
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(54) **UMBRELLA HUB**
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(72) Inventor: **Zhun-An Ma**, Arcadia, CA (US)
(**) Term: **15 Years**

1,469,495 A 10/1923 Bunker
1,712,430 A * 5/1929 Giszczynski A45B 25/06
135/28
1,808,610 A 6/1931 Roy
2,101,510 A 12/1937 Rathbun
(Continued)

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(52) **U.S. Cl.**
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2023/0043; A45B 2023/005; A45B 25/00;
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See application file for complete search history.

FOREIGN PATENT DOCUMENTS

CA 1269018 5/1990
CN 204444542 7/2015
(Continued)

OTHER PUBLICATIONS

EPO Extended Search Report dated Apr. 5, 2011 for European Patent No. 09252140.0, filed Sep. 7, 2009. (TGINC.044C1).
(Continued)

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(56) **References Cited**

U.S. PATENT DOCUMENTS

331,231 A 11/1885 Folger
501,089 A 7/1893 Lichtenstein
620,815 A 3/1899 Warren
750,178 A 1/1904 Fesenfeld
770,704 A 9/1904 Vogel
847,805 A 3/1907 McAvoy
878,270 A 2/1908 Blake et al.
880,534 A 3/1908 Hoyt
897,026 A 8/1908 Seitzinger
924,627 A * 6/1909 Baker et al. A45B 25/06
135/30
928,169 A 7/1909 Bardon
941,952 A 11/1909 Riehl
947,790 A 2/1910 Carter
959,127 A 5/1910 Edwards
1,001,076 A 8/1911 Redford
1,022,944 A 4/1912 Hodinger
1,078,069 A 11/1913 Simons
1,107,415 A 8/1914 Drohan
1,264,075 A 4/1918 Hout

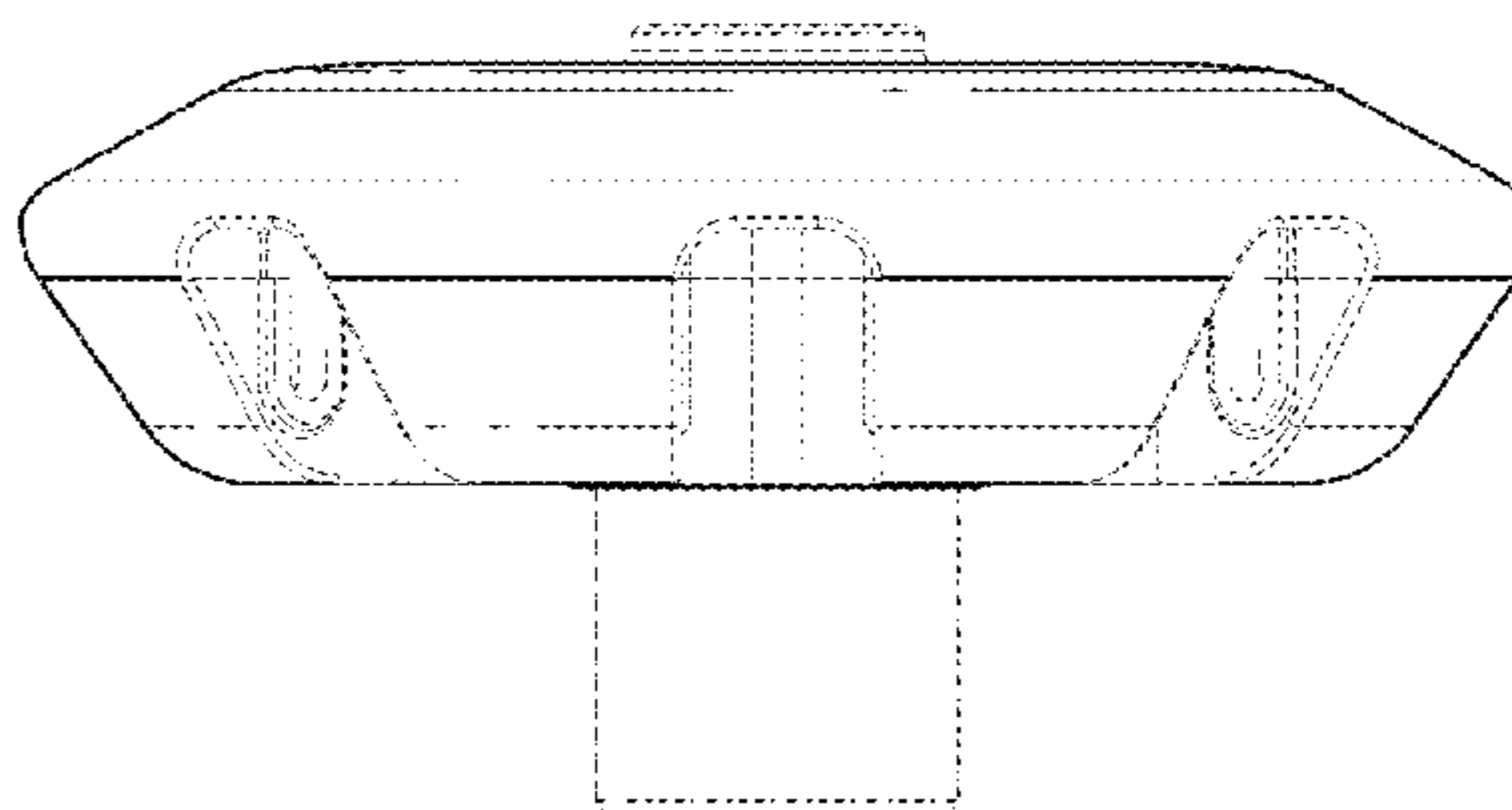
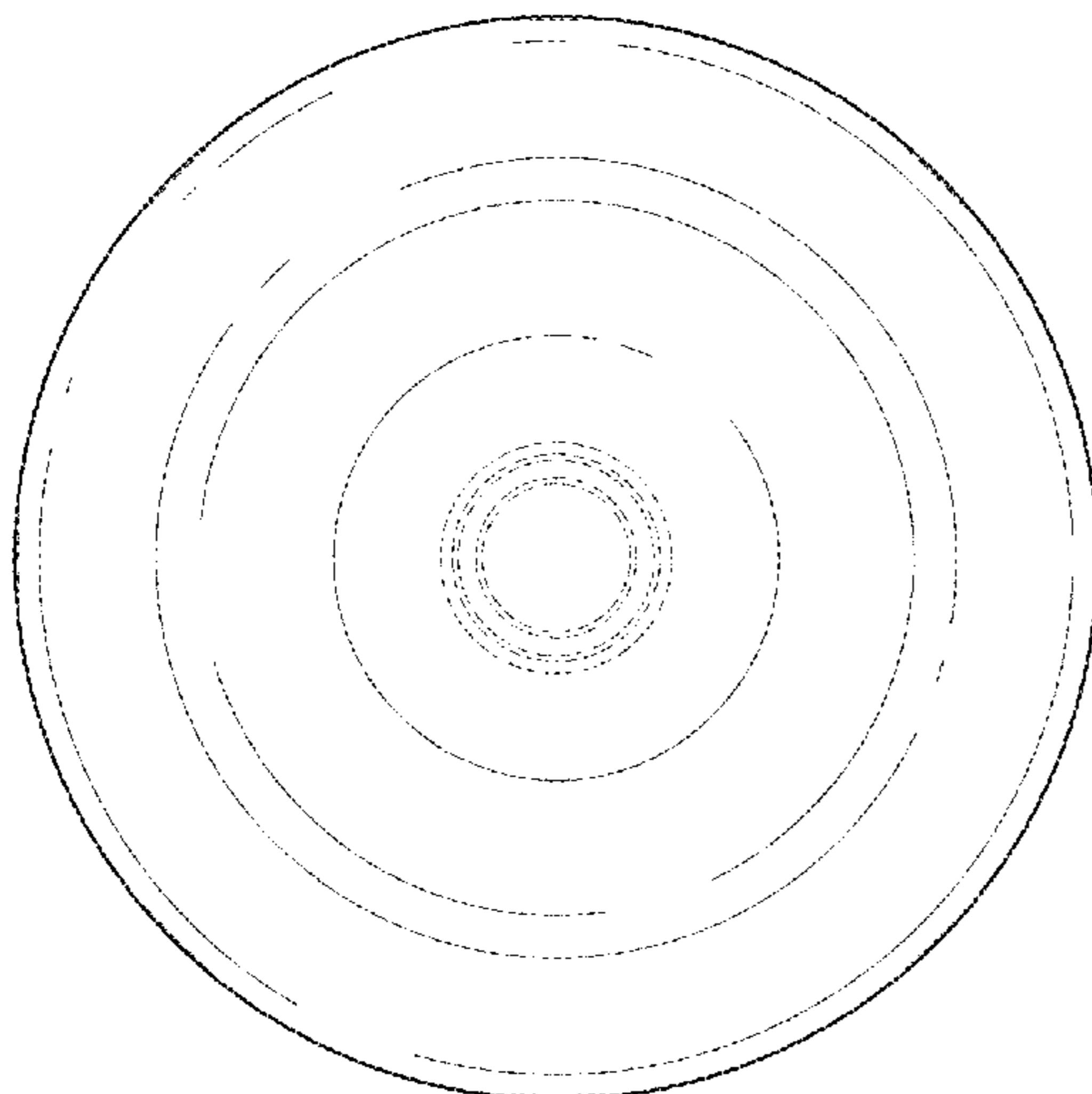
(57) **CLAIM**

I claim the ornamental design for an umbrella hub, as shown and described.

DESCRIPTION

FIG. 1 is a first perspective view of an umbrella hub.
FIG. 2 is a second perspective view of the umbrella hub of FIG. 1;
FIG. 3 is a bottom view of the umbrella hub of FIG. 1;
FIG. 4 is a top view of the umbrella hub of FIG. 1; and,
FIG. 5 is a right side view of the umbrella hub of FIG. 1, the left, front, and back side views being the same as the right side view.
The broken lines depict portions of the article that form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2,207,043 A	7/1940	Weiss et al.	6,732,753 B2 *	5/2004	Chang	A45B 25/14 135/20.3
2,321,495 A	6/1943	Levin	6,758,228 B1	7/2004	You	
2,336,116 A	12/1943	Morando	6,758,354 B2	7/2004	Carletti	
2,385,575 A	9/1945	Isler	6,814,093 B2	11/2004	You	
2,469,637 A	5/1949	Evans et al.	7,178,535 B2 *	2/2007	Eder	A45B 25/06 135/135
2,635,616 A	4/1953	Haydu	7,464,503 B2 *	12/2008	Hoberman	A63H 31/00 52/645
2,762,383 A	9/1956	Wittman	7,481,235 B2	1/2009	Prusmack	
2,796,073 A	6/1957	Wittman	7,509,967 B2 *	3/2009	Kim	E04H 15/28 135/120.2
2,860,647 A	11/1958	Negri	7,574,777 B1	8/2009	Fuller et al.	
2,914,154 A	11/1959	Russell	7,637,276 B2	12/2009	Mallookis et al.	
3,157,186 A	11/1964	Hammer	7,686,024 B1 *	3/2010	Lai	A45B 25/02 135/29
3,177,882 A	4/1965	Vincent	7,703,464 B2 *	4/2010	Ma	A45B 25/02 135/28
3,252,468 A	5/1966	Militano	D623,396 S *	9/2010	He	D3/10
3,330,582 A	7/1967	Morris	D626,324 S	11/2010	Ma	
3,424,180 A	1/1969	Andolfi	7,861,734 B2	1/2011	Ma	
3,462,179 A	8/1969	Hinkle	D631,848 S	2/2011	Montena et al.	
3,557,809 A	1/1971	Vazquez et al.	7,891,367 B2	2/2011	Ma	
3,643,673 A	2/1972	Weber	8,061,375 B2 *	11/2011	Ma	A45B 25/02 135/28
3,704,479 A	12/1972	Whitaker	8,069,872 B2	12/2011	Bae	
D231,955 S	6/1974	Weber	8,082,935 B2	12/2011	Ma	
4,201,237 A	5/1980	Watts et al.	8,082,937 B2	12/2011	Tarter et al.	
4,368,749 A	1/1983	Lindler et al.	8,166,986 B2	5/2012	Ma	
4,369,000 A	1/1983	Egnew	D661,659 S	6/2012	Natoli et al.	
4,627,210 A	12/1986	Beaulieu	D662,064 S	6/2012	Natoli et al.	
4,673,308 A	6/1987	Reilly	D668,446 S	10/2012	Patzak	
4,750,509 A	6/1988	Kim	D670,901 S	11/2012	Rothbucher et al.	
4,790,338 A	12/1988	Strobl	8,356,613 B2	1/2013	Ma	
4,941,499 A	7/1990	Pelsue et al.	8,360,085 B2 *	1/2013	Lee	E04H 15/48 135/135
4,966,178 A	10/1990	Eichhorn	8,485,208 B2 *	7/2013	Seo	E04H 15/42 135/135
D320,111 S	9/1991	Ma	8,496,019 B2	7/2013	Zhou	
5,056,291 A	10/1991	Leung	8,555,905 B2	10/2013	Ma	
D321,779 S	11/1991	Ma	D719,342 S	12/2014	Ma	
5,069,572 A *	12/1991	Niksic	D719,343 S	12/2014	Ma	
		.....	9,060,576 B2 *	6/2015	Siegenthaler	A45B 25/06
		E04H 15/425 135/147	9,078,497 B2 *	7/2015	Ma	A45B 25/10
5,085,239 A	2/1992	Chin-Hung et al.	9,113,683 B2 *	8/2015	Ma	A45B 25/08
5,188,137 A	2/1993	Simonelli	D738,609 S	9/2015	Ma	
5,193,566 A	3/1993	Chen	9,192,215 B2 *	11/2015	Ma	A45B 25/10
5,328,286 A *	7/1994	Lee	D744,742 S	12/2015	You	
		.....	D749,835 S	2/2016	Whitaker	
		E04H 15/48 135/135	9,265,313 B1 *	2/2016	Ma	A45B 25/02
D360,522 S	7/1995	Ko	D750,364 S	3/2016	Lah	
5,433,233 A	7/1995	Shiran et al.	9,433,269 B2	9/2016	Ma	
5,445,471 A	8/1995	Wexler et al.	9,498,030 B2 *	11/2016	Ma	A45B 25/06
5,738,129 A	4/1998	Vogt	9,615,637 B1 *	4/2017	Tung	A45B 17/00
5,740,824 A	4/1998	Tang	D786,661 S	5/2017	Wright	
5,797,613 A	8/1998	Busby	D814,173 S *	4/2018	Ma	D3/10
5,797,695 A *	8/1998	Prusmack	2001/0007260 A1	7/2001	Rousselle et al.	
		.....	2004/0025915 A1	2/2004	Wang	
		E04H 15/32 135/145	2004/0123891 A1 *	7/2004	Ma	A45B 25/00 135/33.2
5,842,494 A	12/1998	Wu	2005/0115599 A1	6/2005	You	
D411,655 S	6/1999	Tung	2006/0005867 A1	1/2006	Chang	
5,911,233 A	6/1999	Wu	2006/0124160 A1	6/2006	Lee	
D412,056 S	7/1999	Wang	2007/0172310 A1	7/2007	Yang et al.	
6,076,540 A	6/2000	You	2009/0071518 A1	3/2009	Amsel	
6,095,169 A	8/2000	Lin et al.	2009/0126769 A1	5/2009	Hoogendoorn	
6,199,572 B1	3/2001	Rousselle et al.	2009/0260664 A1 *	10/2009	Ma	A45B 25/02 135/19.5
6,227,753 B1	5/2001	Boer	2010/0288318 A1	11/2010	Beaulieu	
6,311,706 B1	11/2001	Sato	2011/0017249 A1	1/2011	Ma	
6,314,976 B1	11/2001	Clarke	2011/0132418 A1	6/2011	Ma	
6,332,657 B1	12/2001	Fischer	2011/0214705 A1	9/2011	Ma	
6,345,637 B1	2/2002	Ko	2012/0318316 A1 *	12/2012	Choi	E04H 15/48 135/135
6,354,316 B1	3/2002	Chen	2013/0008478 A1 *	1/2013	Prieto Estebanez	E04H 15/48 135/147
6,374,840 B1 *	4/2002	Ma	2014/0026931 A1	1/2014	Lee	
		.....	2016/0115707 A1	4/2016	Schneider et al.	
		A45B 25/16 135/22				
6,386,215 B1 *	5/2002	Chang				
					
		A45B 23/00 135/20.3				
6,397,867 B2	6/2002	You				
D460,947 S	7/2002	Montena				
D465,915 S	11/2002	Earnshaw				
6,499,856 B2 *	12/2002	Lee				
					
		A45B 3/04 135/910				
6,604,844 B2	8/2003	Hussey				
6,643,889 B1	11/2003	Kotlarski				
6,701,946 B2	3/2004	You				
6,705,335 B2	3/2004	You				

(56)

References Cited

U.S. PATENT DOCUMENTS

2017/0073993 A1 3/2017 Ma
 2017/0112242 A1* 4/2017 Ma A45B 25/06
 2018/0153269 A1* 6/2018 Ma A45B 25/10

FOREIGN PATENT DOCUMENTS

DE	1152226	8/1963
EP	0202769	12/1989
EP	0897678	2/1999
FR	855628	5/1940
FR	002650491	2/1991
FR	2857835	1/2005
GB	2113543	8/1983
GB	2165448	11/1987
JP	61131921	8/1986
KR	100851744	8/2008

KR	10-2009-0110808	10/2009
KR	10-2012-0107607	10/2012
WO	WO 2005/023042	3/2005
WO	WO 2017/048868	3/2017

OTHER PUBLICATIONS

Extended European Search Report issued in EP Application No. 14157685, dated Jul. 7, 2014, in 8 pages.
 Extended European Search Report issued in EP Application No. 14158057, dated Jul. 7, 2014, in 7 pages.
 Extended European Search Report issued in EP Application No. 15156587.6, dated Jul. 23, 2015, in 7 pages.
 International Search Report and Written Opinion issued in PCT Application No. PCT/US2016/051771, dated Dec. 28, 2016.
 Treasure Garden, 2010 Products Catalog, pp. 20 and 60. (TGINC. 044C1).

* cited by examiner

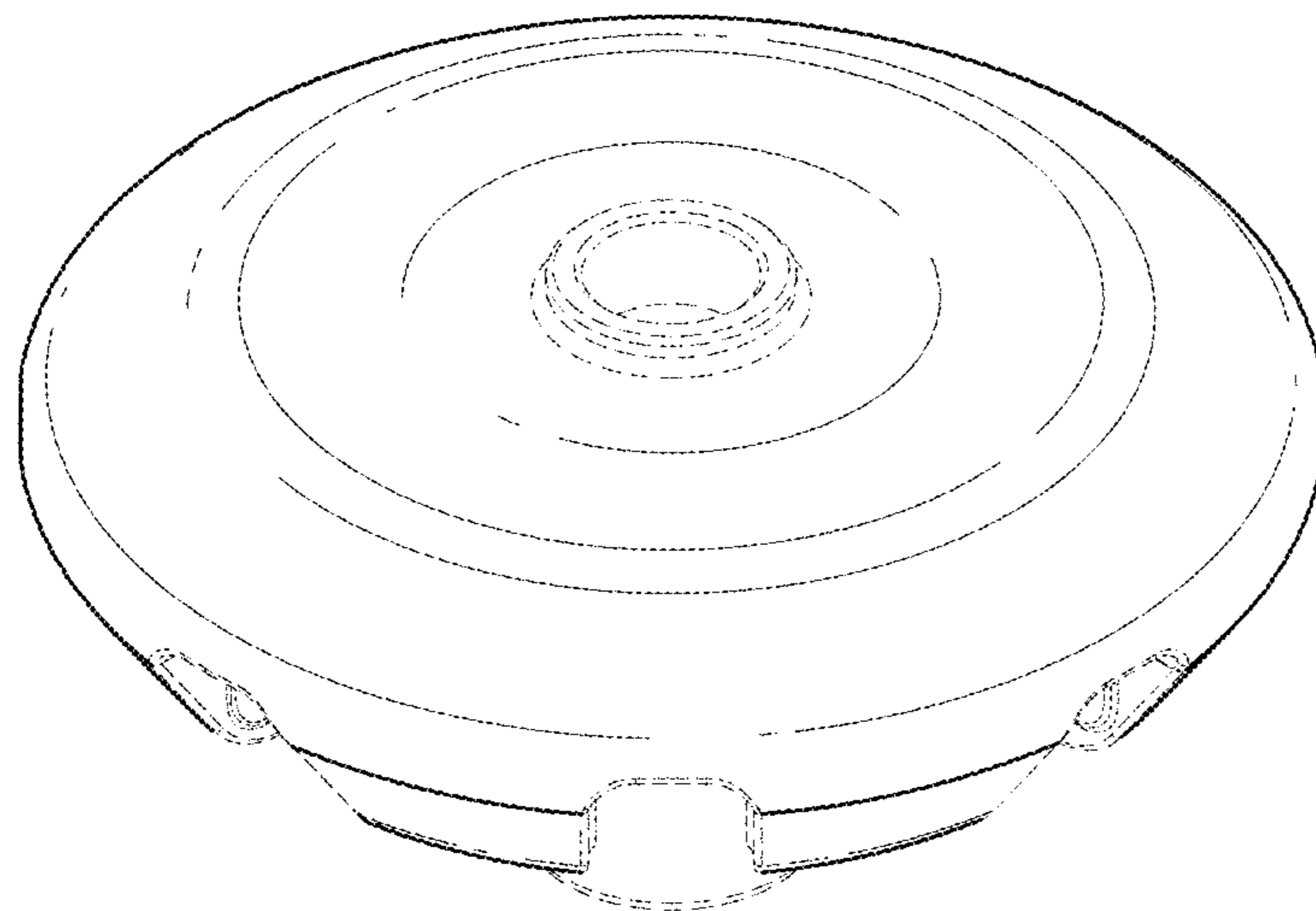


FIG. 1

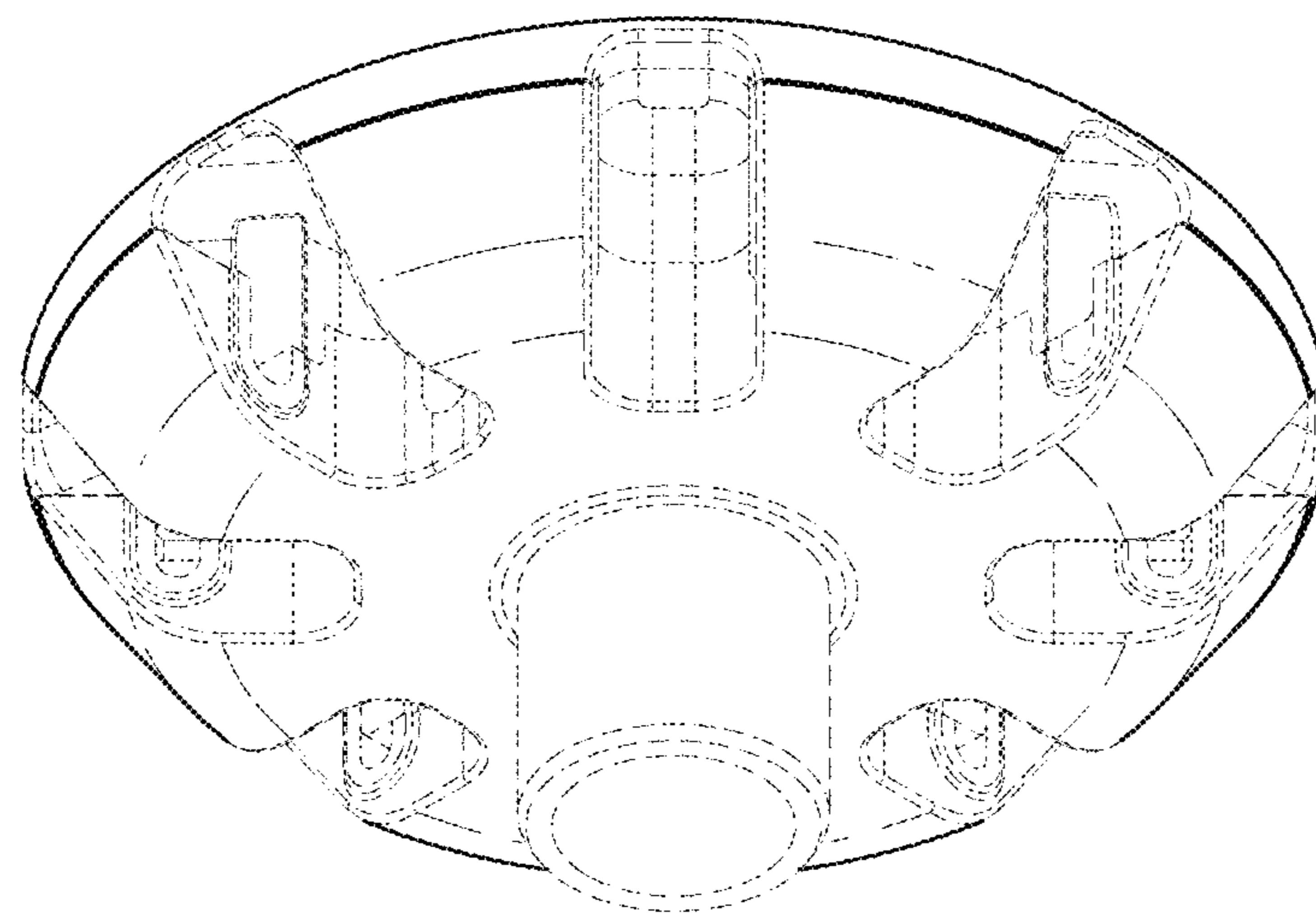


FIG. 2

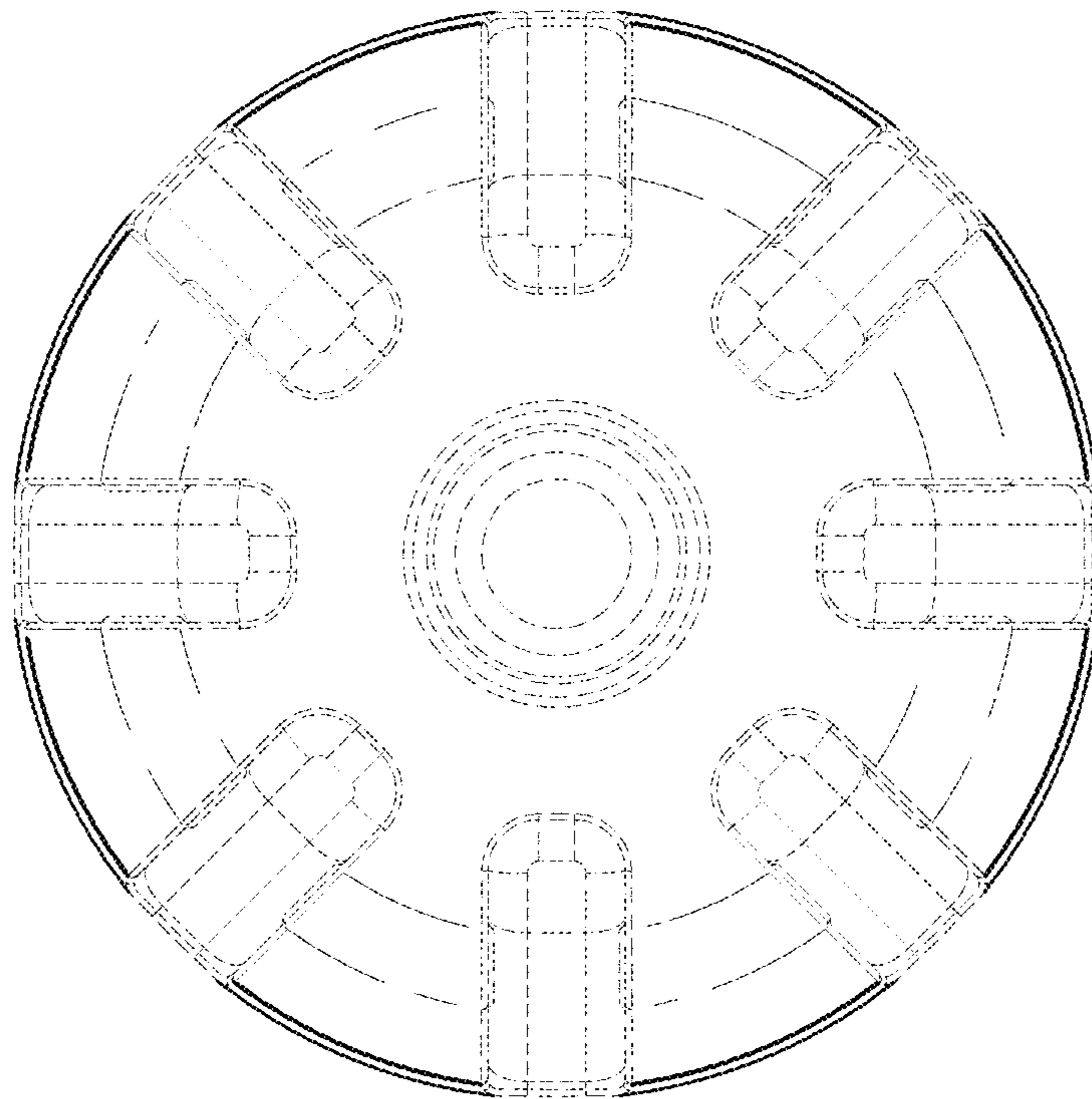


FIG. 3

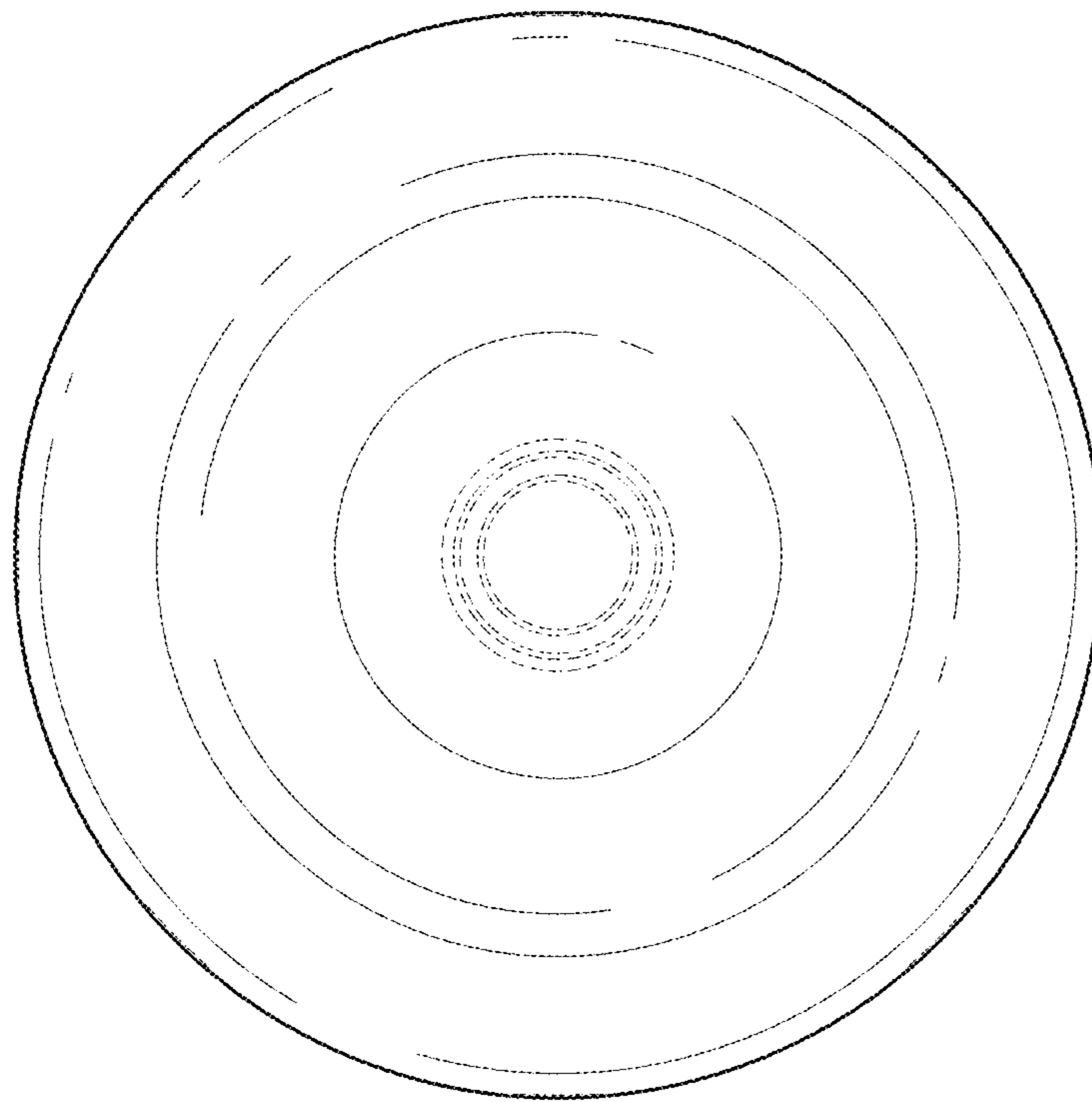


FIG. 4

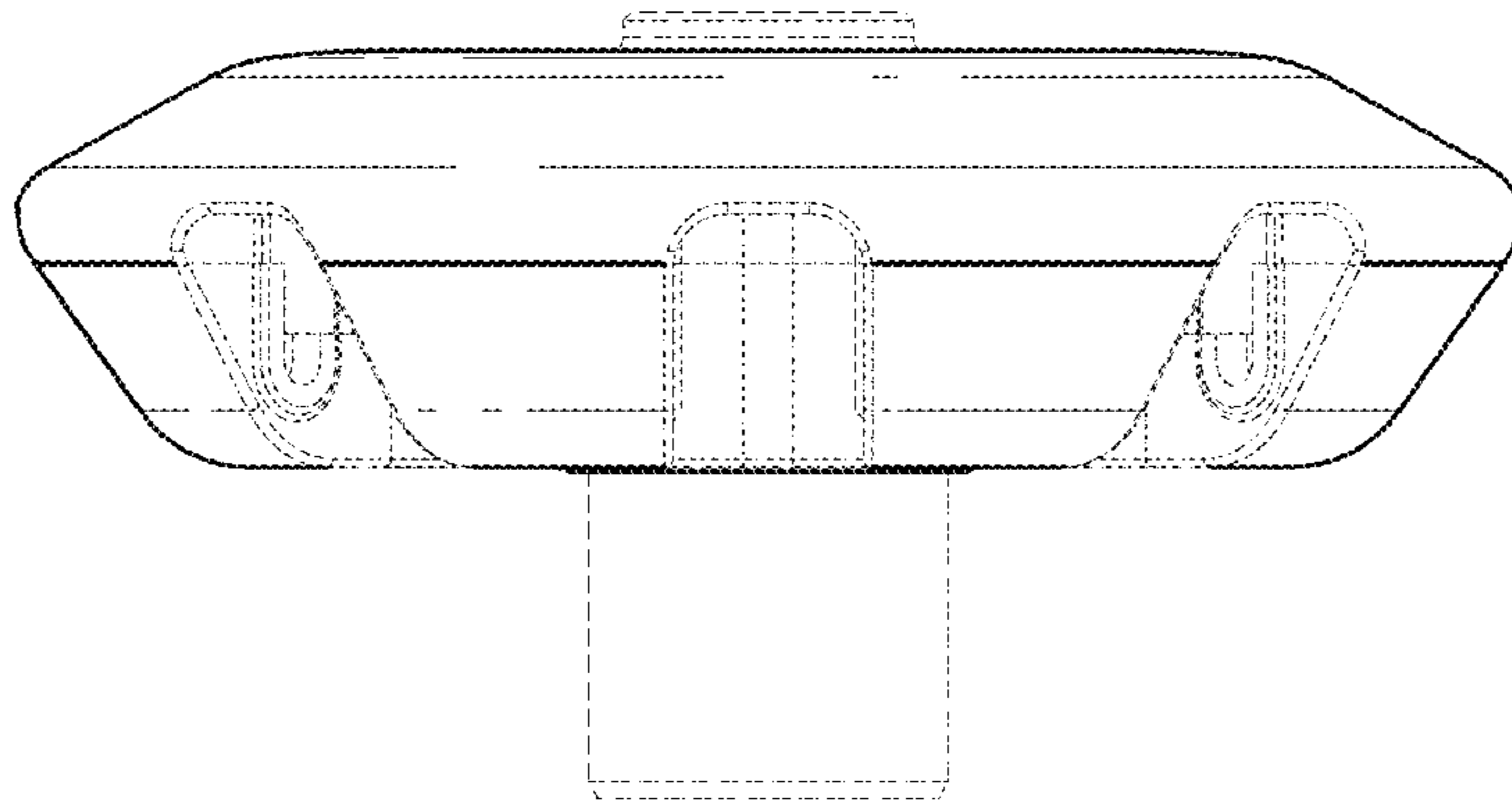


FIG. 5