



US00D856981S

(12) **United States Design Patent**
Bullimore

(10) **Patent No.:** **US D856,981 S**

(45) **Date of Patent:** **** Aug. 20, 2019**

- (54) **WAVEGUIDE FOR A LOUDSPEAKER**
- (71) Applicant: **Tymphany HK Limited**, Wanchai (HK)
- (72) Inventor: **George Bullimore**, Wales (GB)
- (73) Assignee: **TYMPHANY HK LIMITED**, Wanchai (HK)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/578,728**
- (22) Filed: **Sep. 23, 2016**
- (51) **LOC (12) Cl.** **14-03**
- (52) **U.S. Cl.**
USPC **D14/221**
- (58) **Field of Classification Search**
USPC D14/221, 222, 224, 215, 216, 219, 204; D12/211, 209; 181/156, 159, 145, 148, 181/153, 193, 196; 381/380, 381, 150, 381/349, 350, 190, 192, 204, 202, 197, 381/337, 338, 341, 199, 194, 351, 424, 381/423; 455/90.3, 575.1, 569.1; D8/375; D6/364, 366, 708.23; D34/10, D34/18, 23, 27, 29, 35, 15; 16/30, 29, 16/39, 18 R, 35 R; D21/561, 661, 697, D21/717, 797
CPC . H04R 9/02; H04R 9/06; H04R 25/00; H04R 7/12; H04R 1/02; H05K 5/00
See application file for complete search history.

- (56) **References Cited**
U.S. PATENT DOCUMENTS
1,388,721 A * 8/1921 Keeping B60B 37/10 16/30
1,848,347 A * 3/1932 Jarvis B60B 33/0002 16/39
1,991,526 A * 2/1935 Tichenor H04R 9/02 381/400

- 2,468,399 A * 4/1949 Grossman B60B 33/00 16/18 R
- 2,905,260 A * 9/1959 Williams H04R 7/122 181/167
- 3,213,209 A * 10/1965 Doelitzsch H04R 7/122 181/163
- 3,390,421 A * 7/1968 Sullivan A47C 7/004 16/30
- 3,433,500 A * 3/1969 Christensen B60B 33/00 16/47
- D249,509 S * 9/1978 Henricksen 181/159
- D272,431 S * 1/1984 Hedlund D12/211
- 4,764,968 A * 8/1988 Kreitmeier H04R 7/06 181/163
- D302,264 S * 7/1989 Soederberg D12/209
- D350,523 S * 9/1994 Mobius D12/209
- D375,073 S * 10/1996 Theiss D12/209
- D403,649 S * 1/1999 Moreno D12/211

(Continued)

Primary Examiner — Paula Allen Greene
(74) *Attorney, Agent, or Firm* — Cantor Colburn LLP

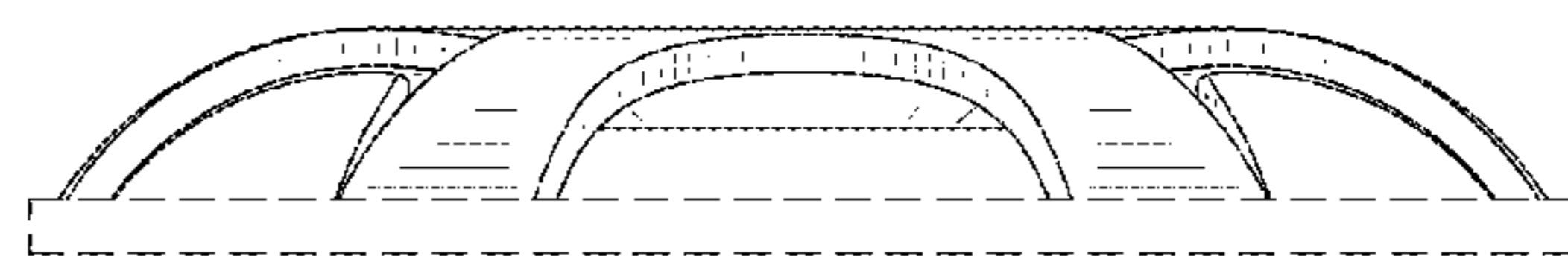
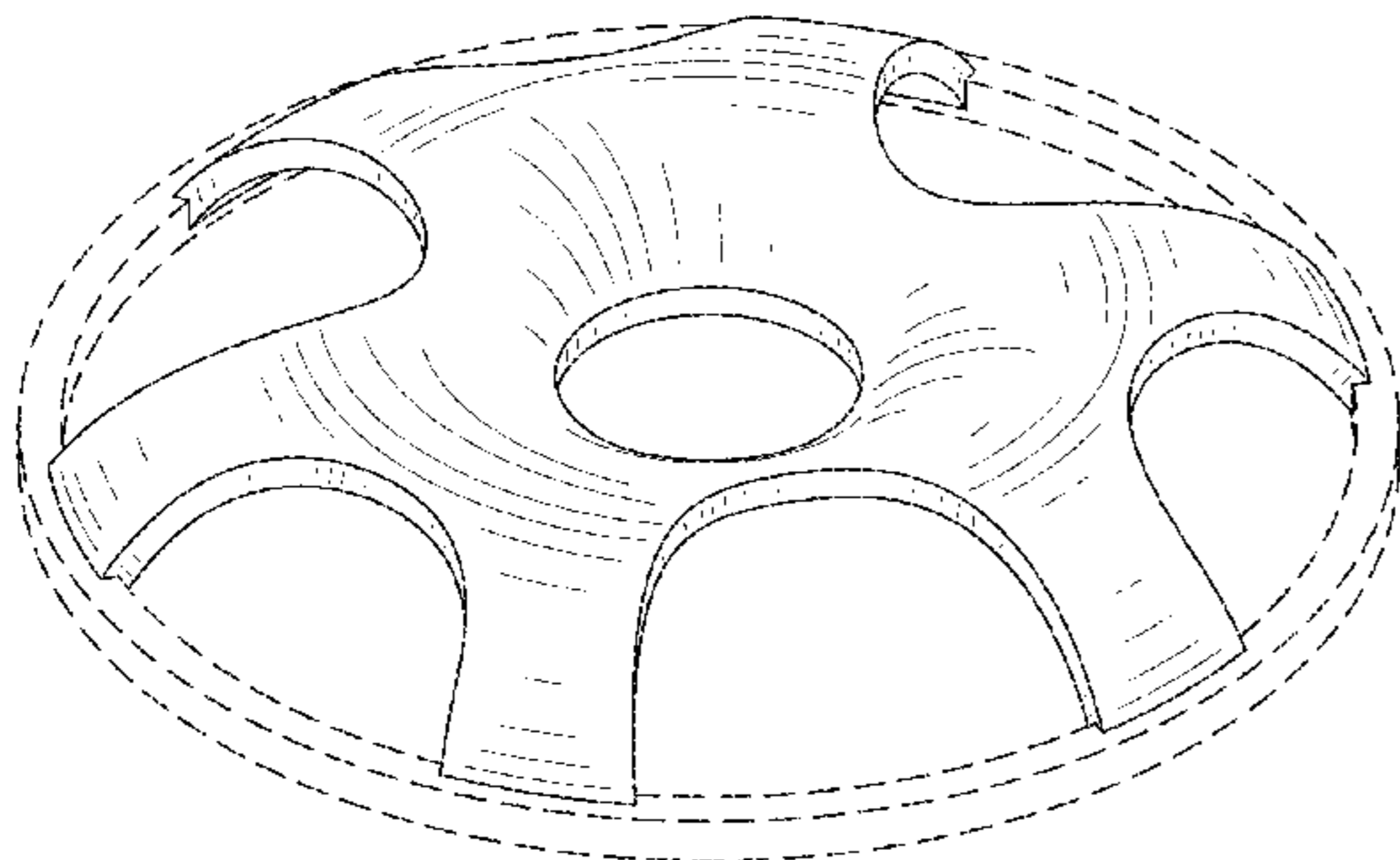
(57) **CLAIM**

I claim, the ornamental design for a waveguide for a loudspeaker, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a waveguide for a loudspeaker showing my new, original and ornamental design; FIG. 2 is a first side view thereof; FIG. 3 is a second side view thereof taken opposite from that of FIG. 2; FIG. 4 is a third side view thereof; FIG. 5 is a fourth side view thereof taken opposite from that of FIG. 4; FIG. 6 is a top view thereof; and, FIG. 7 is a bottom view thereof. Portions shown in broken lines form no part of the claimed subject matter.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D416,262	S	*	11/1999	Petronio	.....	D14/224
D416,406	S	*	11/1999	Donati	.....	D6/366
D428,844	S	*	8/2000	Wang	.....	D12/209
D444,757	S	*	7/2001	Ward	.....	D12/211
D448,017	S	*	9/2001	Hasbrook	.....	D14/216
D452,838	S	*	1/2002	Hieke	.....	D12/209
D466,888	S	*	12/2002	Sugiyama	.....	D14/221
D478,572	S	*	8/2003	Dawson	.....	D14/219
D480,709	S	*	10/2003	Proni	.....	D14/216
D480,710	S	*	10/2003	Rivera	.....	D14/219
D484,494	S	*	12/2003	Feil	.....	D14/221
D568,726	S	*	5/2008	Kohagen	.....	D8/375
D572,240	S	*	7/2008	Nakane	.....	D14/219
D577,714	S	*	9/2008	Monaghan	.....	D14/219
D578,112	S	*	10/2008	Naito	.....	D14/224
D614,111	S	*	4/2010	Tant	.....	D12/211
D689,470	S	*	9/2013	Chen	.....	D14/215
D713,821	S	*	9/2014	Hyde	.....	D14/221
D788,672	S	*	6/2017	Lee	.....	D12/209
2006/0062421	A1	*	3/2006	Kuribayashi	.....	H04R 7/14 381/424

* cited by examiner

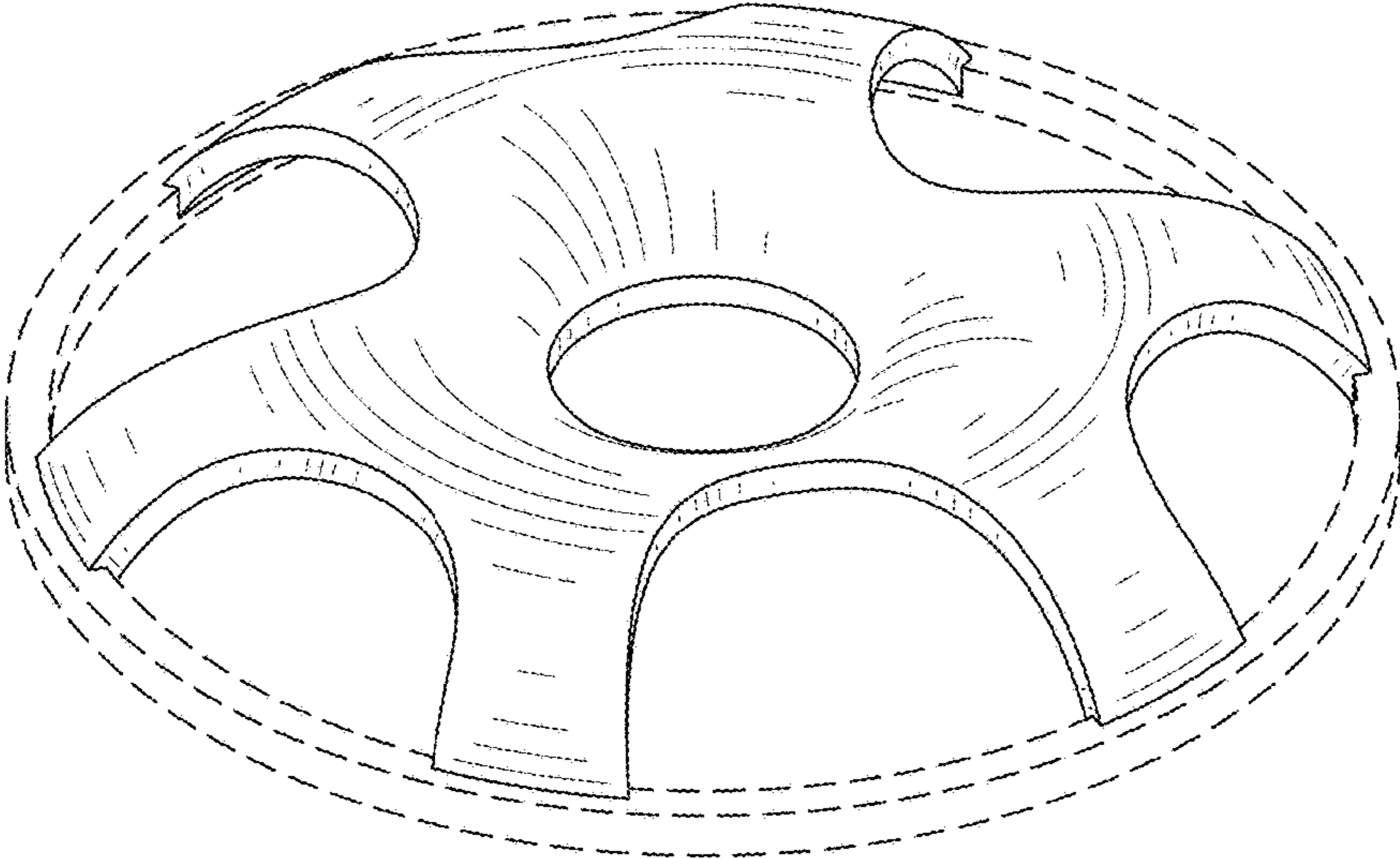


FIG. 1

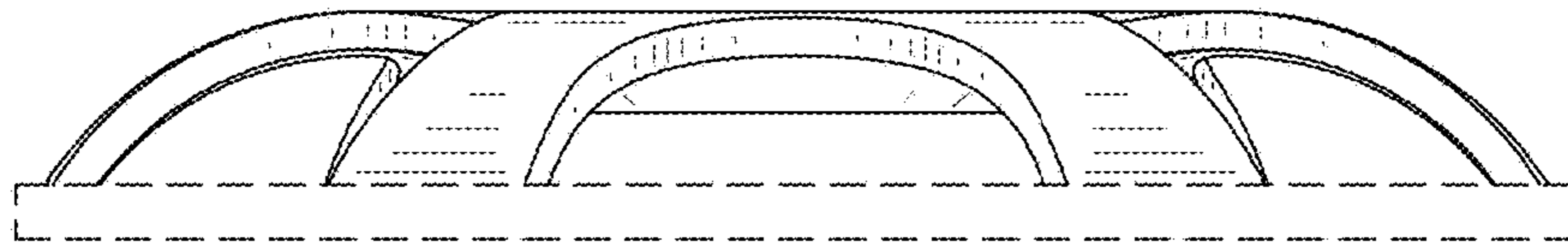


FIG. 2

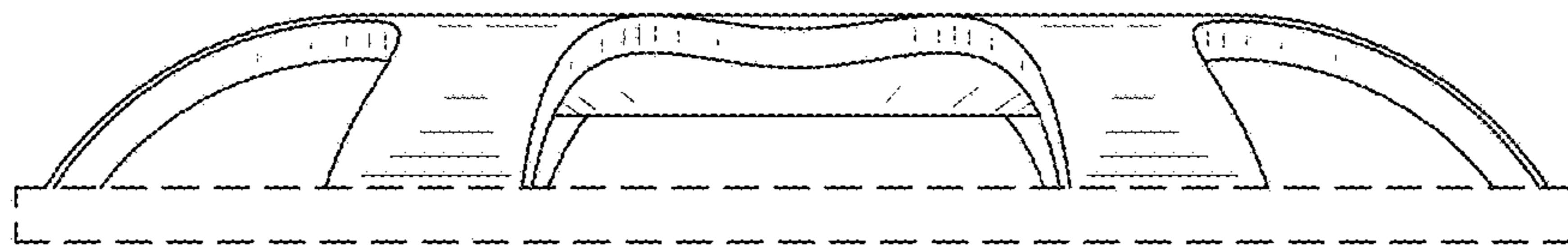


FIG. 3

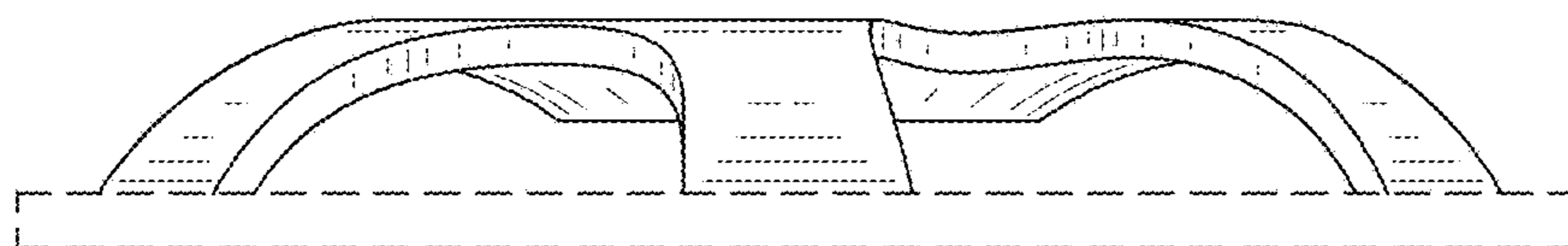


FIG. 4

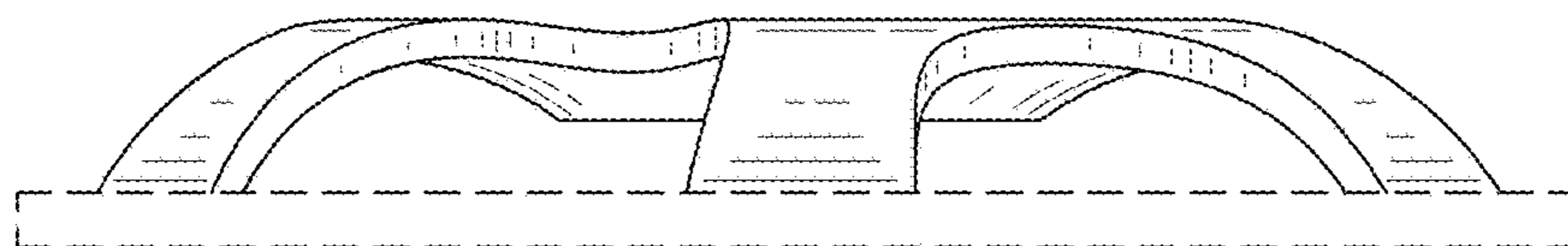


FIG. 5

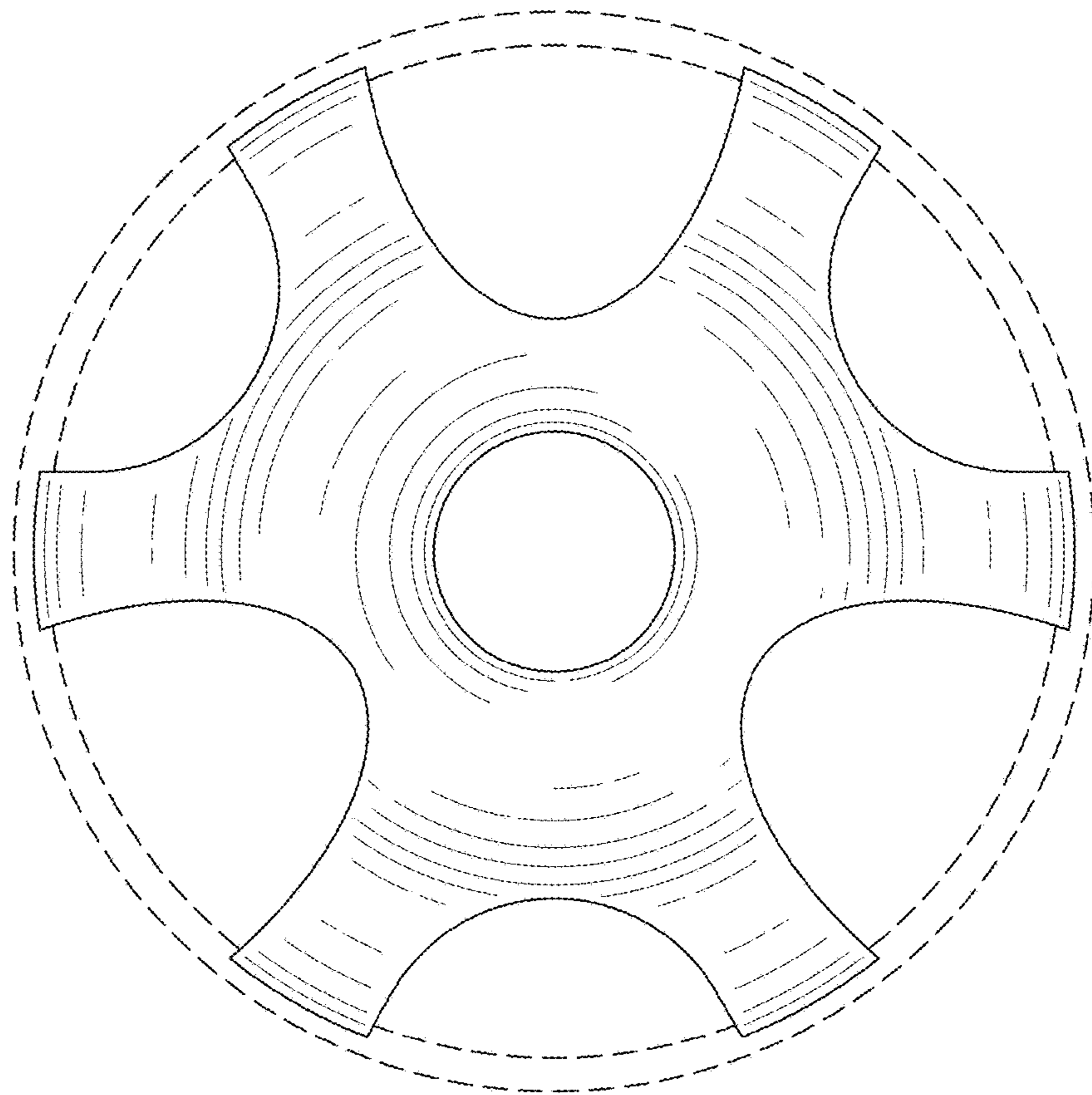


FIG. 6

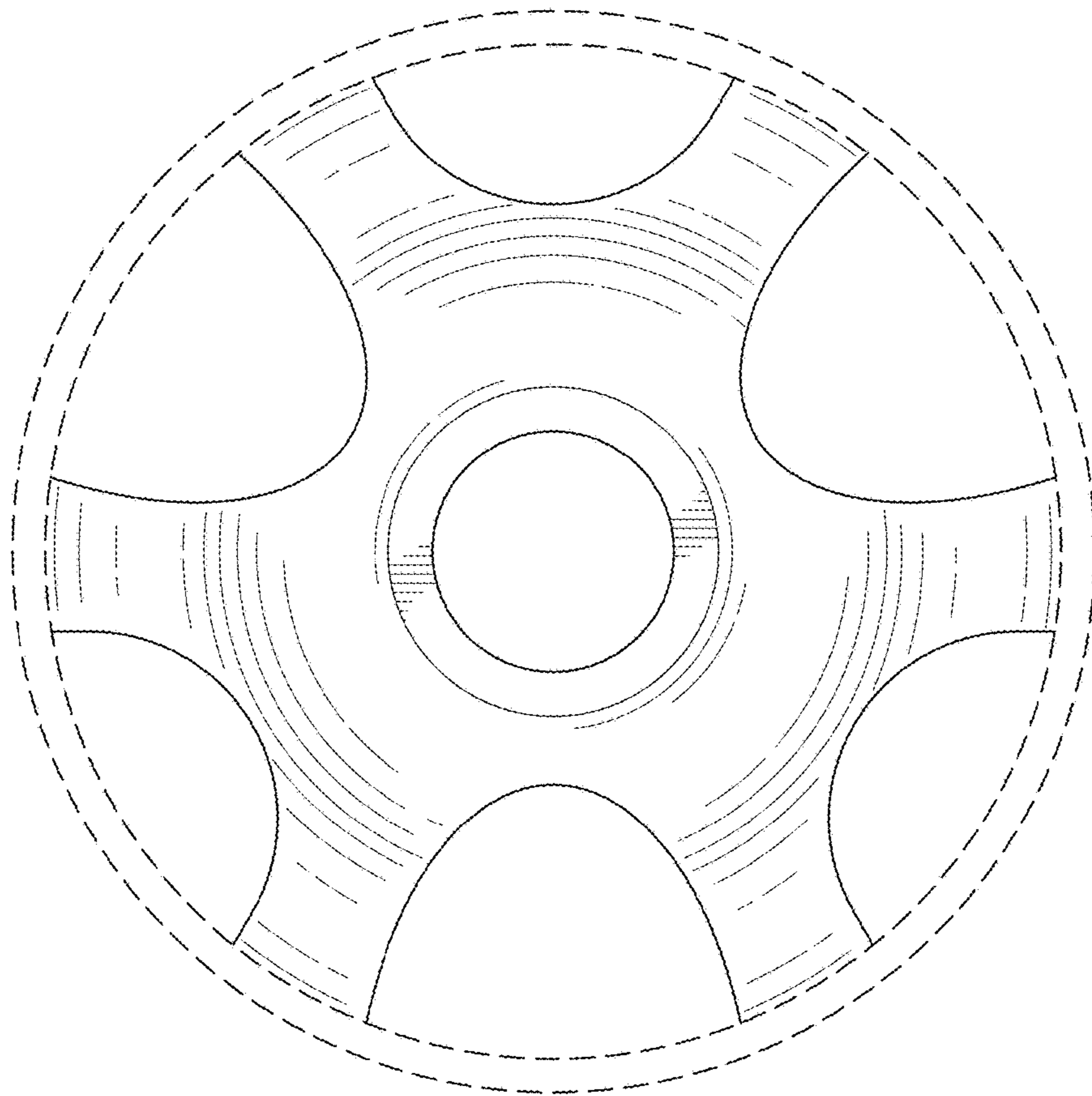


FIG. 7