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(12) **United States Design Patent** (10) **Patent No.:** **US D923,612 S**
Stevenson et al. (45) **Date of Patent:** **** Jun. 29, 2021**

(54) **ANTENNA**

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

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Related U.S. Application Data

(63) Continuation of application No. 29/600,422, filed on Apr. 12, 2017, now Pat. No. Des. 843,356.

(51) **LOC (13) Cl.** **14-03**

(52) **U.S. Cl.**
USPC **D14/230**

(58) **Field of Classification Search**
USPC D14/230–238, 138, 172, 188, 203.1, D14/203.3, 203.6, 204, 216, 221, 238.1,

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D208,121 S * 7/1967 Keats D10/113.1
D260,895 S * 9/1981 Luedtke D14/233

(Continued)

FOREIGN PATENT DOCUMENTS

EP 2267773 A2 * 12/2010 H01L 25/0753

OTHER PUBLICATIONS

“This flat antenna could finally give us good plane Wi-Fi,” Kymeta antenna pictured therein, as posted at CNN.com [online] posted on Apr. 17, 2015, [site visited Feb. 16, 2018]. Available from the Internet, <URL: <https://www.cnn.com/2015/04/17/tech/flat-antenna-kymeta-mci/index.html>>. ‡

(Continued)

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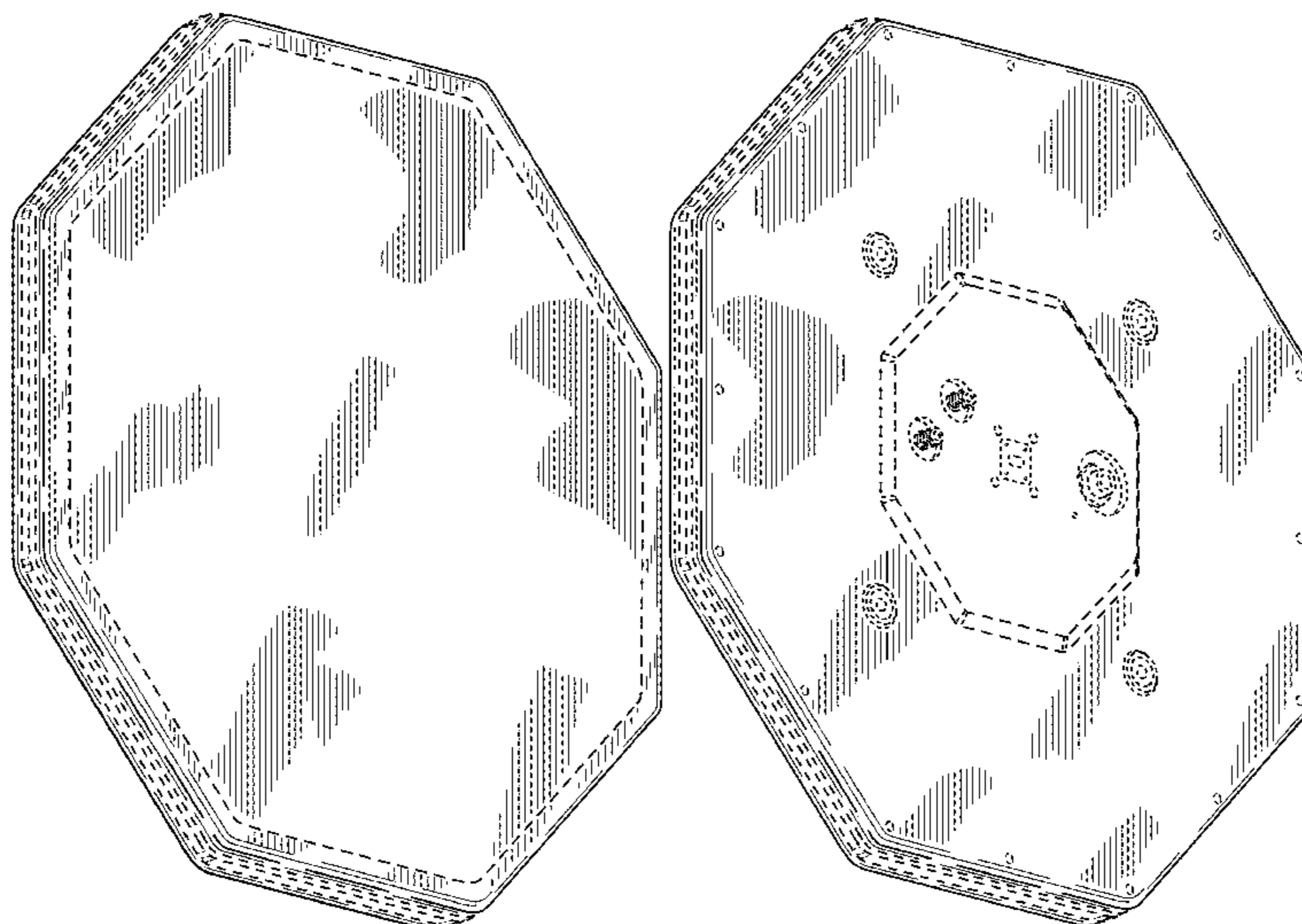
(57) **CLAIM**

We claim the ornamental design for an antenna, as shown and described.

DESCRIPTION

FIG. 1 is a bottom right front perspective view of an antenna showing our new design;
FIG. 2 is a bottom left back perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a back view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is a left side view thereof;
FIG. 7 is a top plan view thereof; and,
FIG. 8 is a bottom plan view thereof.
The dashed broken lines illustrate portions of the antenna and form no part of the claimed design.

1 Claim, 8 Drawing Sheets



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- (58) **Field of Classification Search**
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 D14/496, 509; D10/109.1, 113.1, 113.4,
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 CPC H01Q 1/007; H01Q 1/32; H01Q 1/3275;
 H01Q 1/38; H01Q 1/36; H01Q 7/00;
 H01Q 9/285; H01Q 19/106; H01Q 19/12;
 H01Q 19/30
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

H605	H	*	3/1989	Finken	342/368
D322,572	S	*	12/1991	Mayuzumi	D10/21
D332,805	S	*	1/1993	Gard	D21/346
5,216,203	A	*	6/1993	Gower	H02G 3/088 174/152 G
D359,913	S	*	7/1995	Wilson	D10/21
D399,260	S	*	10/1998	Thimote	D20/17
D404,830	S	*	1/1999	Childs	D24/224
D417,253	S	*	11/1999	Addonizio	D22/120
D423,391	S	*	4/2000	Hansen	D10/114.9
6,076,966	A	*	6/2000	Stueve	A61B 6/583 378/205
D444,508	S	*	7/2001	George	D21/363
D445,053	S	*	7/2001	Capobianco	D10/114.9
D453,193	S	*	1/2002	Isaacs	D20/22
6,853,351	B1	*	2/2005	Mohuchy	H01Q 9/27 343/700 MS
D525,459	S	*	7/2006	Stanton	D6/695
D561,921	S	*	2/2008	Aleksjew	D26/37
D603,285	S	*	11/2009	Flett	D10/114.9
D611,460	S	‡	3/2010	Chao	D14/230
7,750,868	B1	*	7/2010	Dunn	H01Q 19/10 343/895
7,795,892	B2	*	9/2010	Yamada	G01R 1/07378 324/756.03
D629,915	S	*	12/2010	Chia	D24/224
D637,166	S	*	5/2011	Kuzuoka	D13/180
D638,382	S	*	5/2011	Kuzuoka	D13/180
D638,383	S	*	5/2011	Kuzuoka	D13/180
D643,820	S	*	8/2011	Kuzuoka	D13/180
D644,507	S	‡	9/2011	Kuzuoka	D13/180
D653,654	S	*	2/2012	Thomson	D14/230
D654,910	S	*	2/2012	Thomson	D14/230
D655,278	S	*	3/2012	Thomson	D14/230

D664,055	S	*	7/2012	Call	D10/109.1
D664,507	S	*	7/2012	Kuzuoka	D13/180
8,267,564	B2	*	9/2012	Kim	G09F 13/22 362/616
D668,775	S	*	10/2012	Shanler	D24/224
D677,945	S	*	3/2013	Boda	D6/695
D678,224	S	*	3/2013	Kuzuoka	D13/180
8,393,486	B2	*	3/2013	Cap	B65D 88/36 220/216
8,402,671	B1	*	3/2013	Marhold	G01B 3/1071 33/758
D681,739	S	*	5/2013	Richmond	D20/42
D729,751	S	*	5/2015	Oka	D13/180
D732,614	S	*	6/2015	Davies, III	D21/680
D737,165	S	*	8/2015	Bjorklund	D10/113.1
D737,825	S	*	9/2015	Kumar	D14/433
D808,389	S	*	1/2018	Judge	D14/240
D820,817	S	*	6/2018	Hsieh	D14/230
D843,356	S	*	3/2019	Stevenson	D14/230
D843,976	S	*	3/2019	Goto	D14/221
D872,390	S	*	1/2020	Crane	D30/160
10,661,600	B2	*	5/2020	Franklin	B60B 3/00
2010/0327294	A1	*	12/2010	Chung	H01L 25/0753 257/88
2011/0050071	A1	*	3/2011	Chung	H05K 3/284 313/46
2013/0026507	A1	*	1/2013	Chung	H01L 25/0753 257/88
2017/0187100	A1	*	6/2017	Fotheringham	H01Q 1/405
2017/0324148	A1	*	11/2017	Stevenson	H01Q 21/064
2017/0331186	A1	*	11/2017	Linn	H01Q 21/0012

OTHER PUBLICATIONS

“After 7,000-mile odyssey, Kymeta’s satellite connected car comes home,” flat-panel antenna pictured therein (see esp. p. 3), as posted by Alan Boyle on GeekWire.com [online], posted on Nov. 27, 2017, [site Visited Feb. 13, 2018]. Available from the Internet, <URL: <https://www.geekwire.com/2017/kymeta-satellite-connected-car/>>.‡

Kymeta mTenna Antenna Subsystem Module data sheet, as posted at kymetacorp.com [online], posting date not available, [site visited Feb. 16, 2018]. Available from the Internet, <URL: http://www.kymetacorp.com/wp-content/uploads/2017/03/ASMu7_DataSheet_052517.pdf>.‡

* cited by examiner
 ‡ imported from a related application

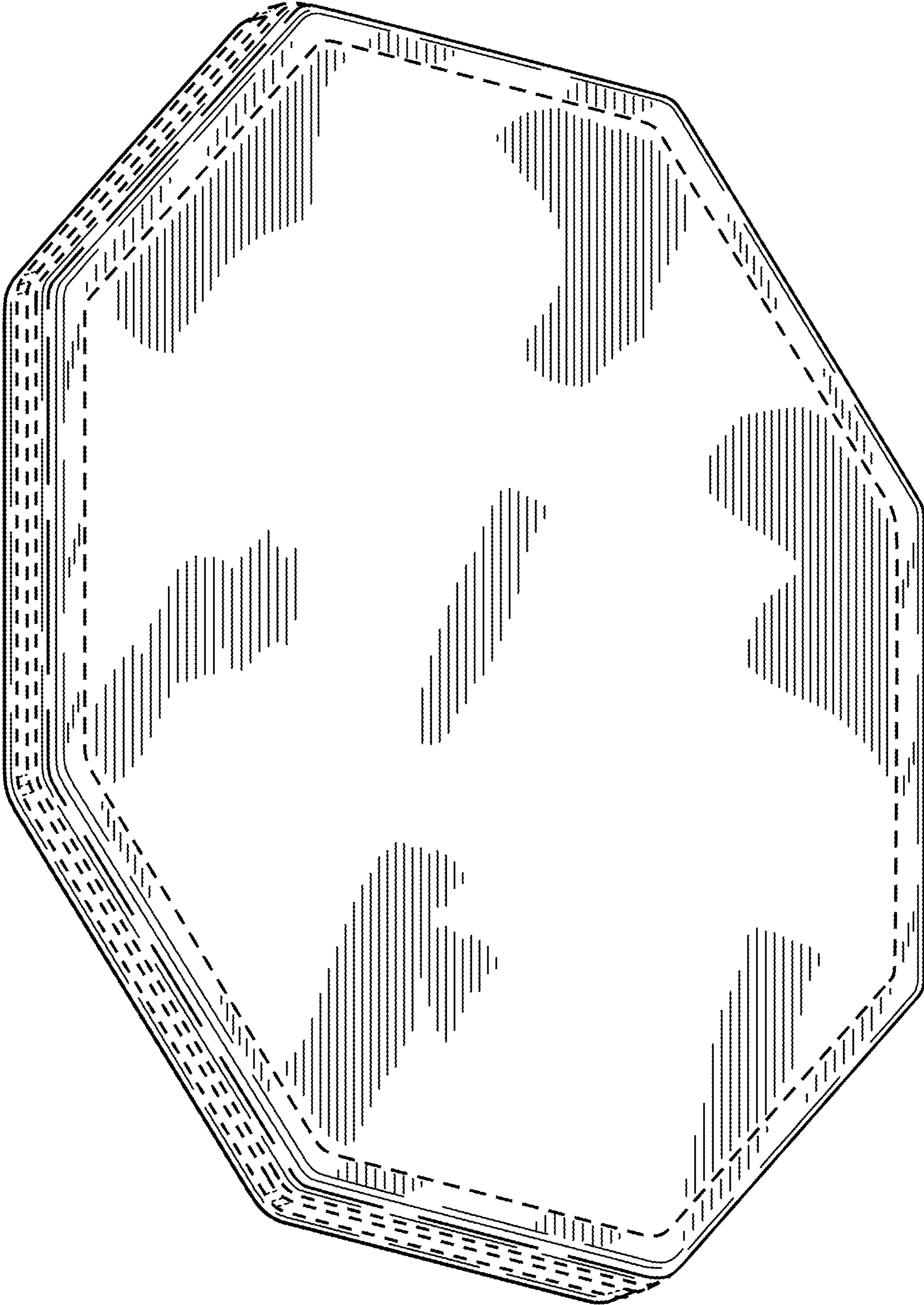


FIG. 1

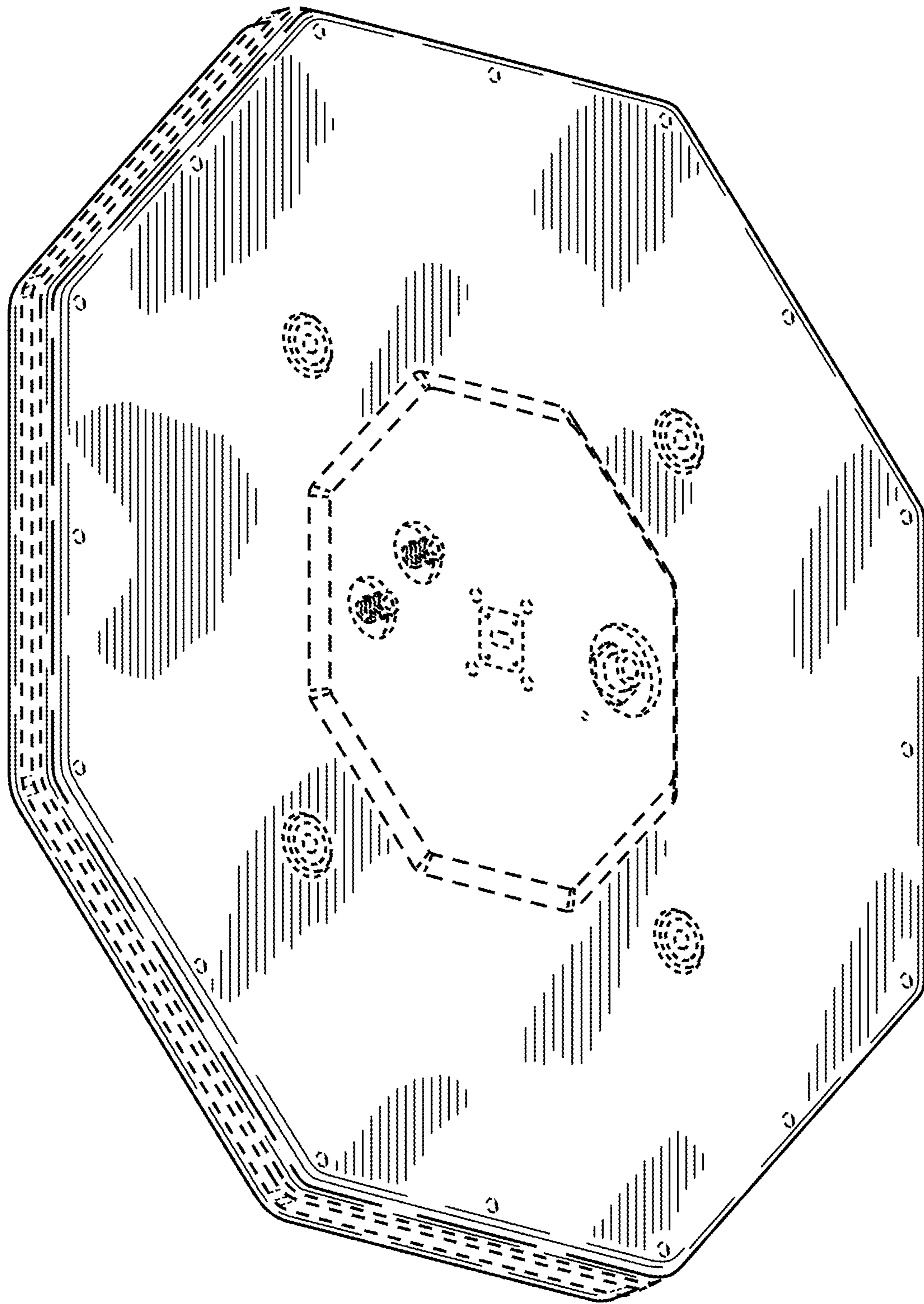


FIG. 2

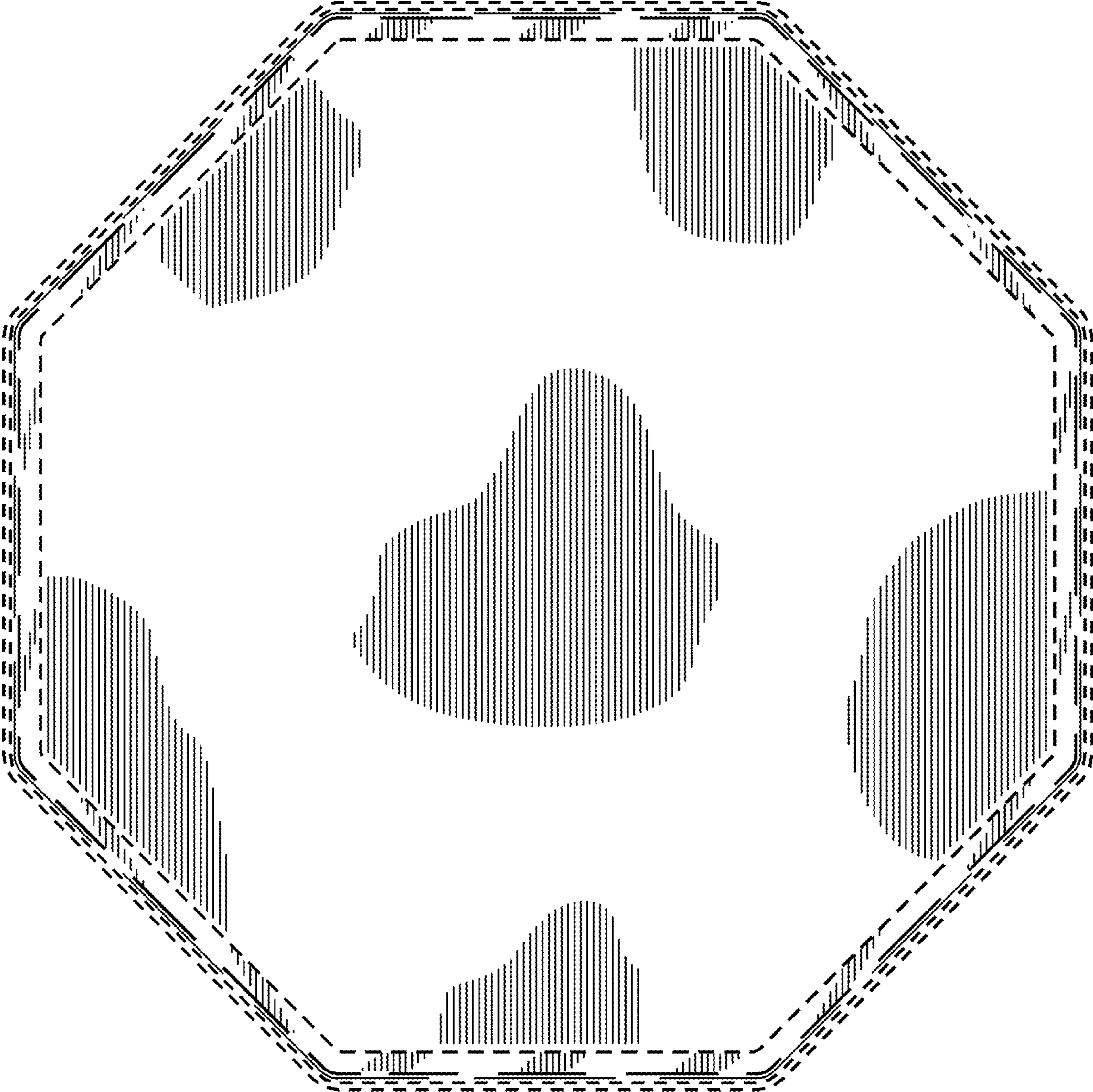


FIG. 3

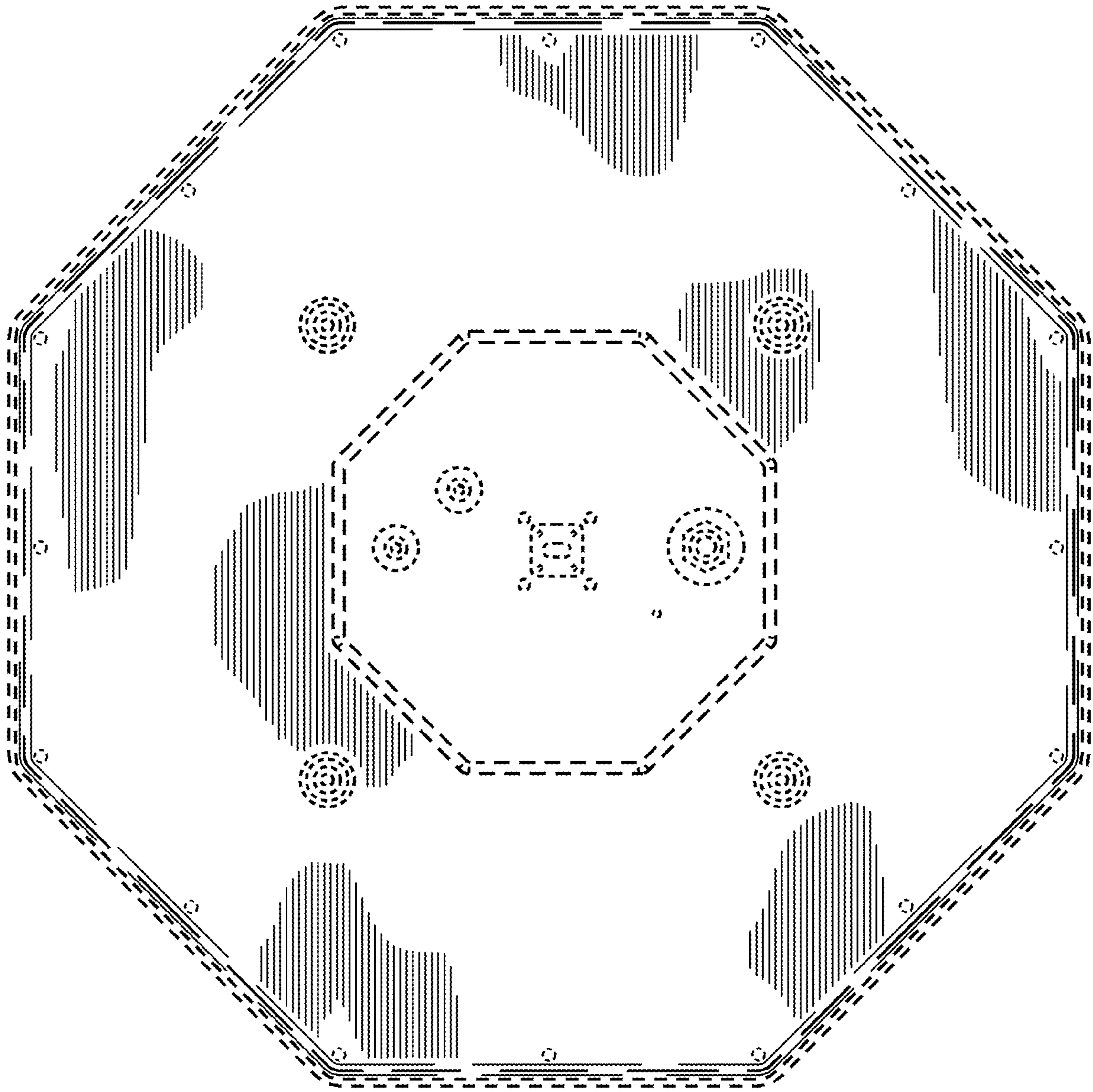


FIG. 4

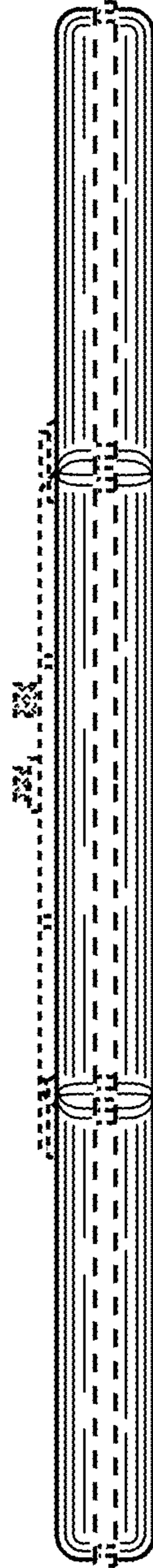


FIG. 5



FIG. 6

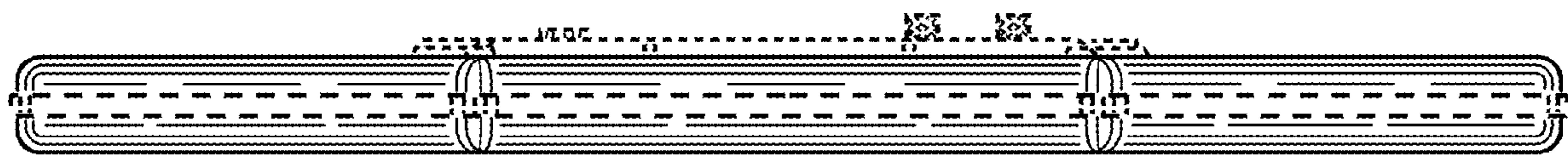


FIG. 7



FIG. 8