US00D909628S

(12) United States Design Patent

Meinders et al.

(10) Patent No.: US D909,628 S
(45) Date of Patent: ** Feb. 2, 2021

(54) **FILAMENT**

(71) Applicant: **Aladdin Manufacturing Corporation**, Calhoun, GA (US)

(72) Inventors: **Maarten Meinders**, Dalton, GA (US); **Paul Pustolski**, Newark, DE (US)

(73) Assignee: **Aladdin Manufacturing Corporation**, Calhoun, GA (US)

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

(21) Appl. No.: **29/665,282**

(22) Filed: **Oct. 2, 2018**

Related U.S. Application Data

(63) Continuation of application No. 29/583,406, filed on Nov. 4, 2016, now Pat. No. Des. 841,838.

(51) **LOC (13) Cl.** **26-04**

(52) **U.S. Cl.**
USPC **D26/2**

(58) **Field of Classification Search**
USPC D26/1–10
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,419,936 A 1/1969 Sims
3,493,459 A 2/1970 McIntosh et al.
(Continued)

FOREIGN PATENT DOCUMENTS

EP 0625219 B1 2/1998

OTHER PUBLICATIONS

Non-final Office Action issued in U.S. Appl. No. 29/583,406, dated Mar. 26, 2018.
(Continued)

Primary Examiner — Marcus A Jackson

(74) *Attorney, Agent, or Firm* — Meunier Carlin & Curfman LLC

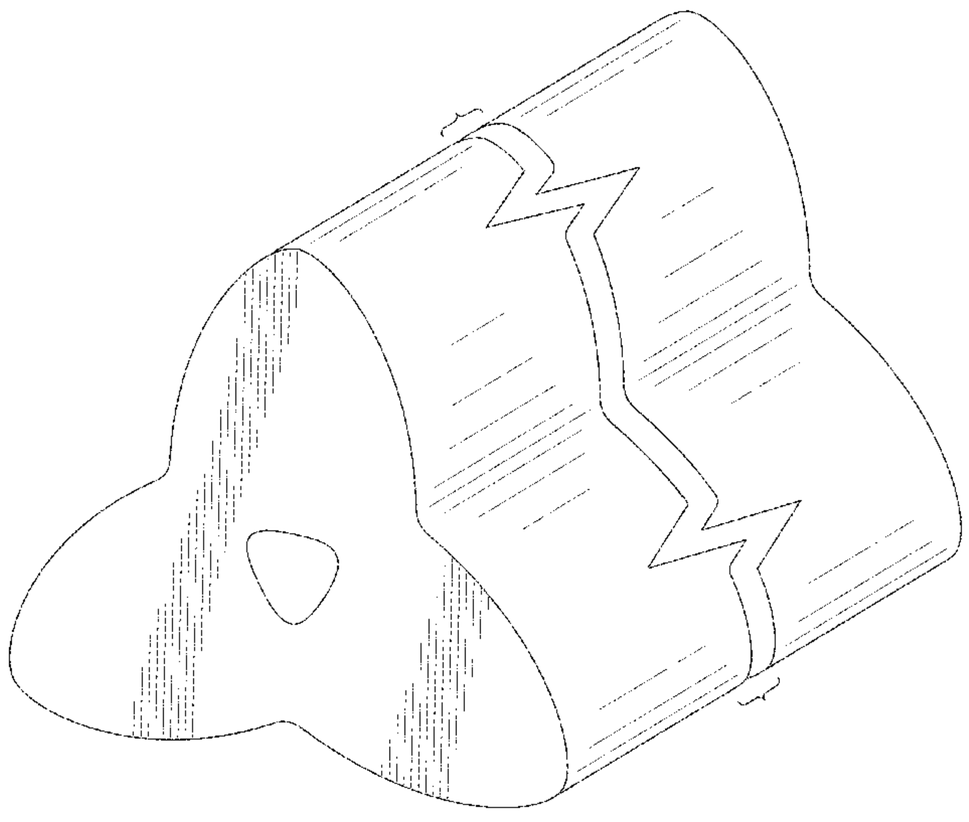
(57) **CLAIM**

The ornamental design for a filament, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a first embodiment of our new design;
FIG. **2** is a front view of the design shown in FIG. **1**, the rear view being a mirror image of the front view;
FIG. **3** is a left side view of the design shown in FIG. **1**, the right side view being a mirror image of the left side view;
FIG. **4** is a top view of the design shown in FIG. **1**;
FIG. **5** is a bottom view of the design shown in FIG. **1**;
FIG. **6** is a perspective view of a second embodiment of our new design;
FIG. **7** is a front view of the design shown in FIG. **6**, the rear view being a mirror image of the front view;
FIG. **8** is a left side view of the design shown in FIG. **6**, the right side view being a mirror image of the left side view;
FIG. **9** is a top view of the design shown in FIG. **6**;
FIG. **10** is a bottom view of the design shown in FIG. **6**;
FIG. **11** is a perspective view of a third embodiment of our new design;
FIG. **12** is a front view of the design shown in FIG. **11**, the rear view being a mirror image of the front view;
FIG. **13** is a left side view of the design shown in FIG. **11**, the right side view being a mirror image of the left side view;
FIG. **14** is a top view of the design shown in FIG. **11**;
FIG. **15** is a bottom view of the design shown in FIG. **11**;
FIG. **16** is a perspective view of a fourth embodiment of our new design;
FIG. **17** is a front view of the design shown in FIG. **16**, the rear view being a mirror image of the front view;
FIG. **18** is a left side view of the design shown in FIG. **16**, the right side view being a mirror image of the left side view;
FIG. **19** is a top view of the design shown in FIG. **16**; and,
FIG. **20** is a bottom view of the design shown in FIG. **16**.
The break lines are shown to indicate indeterminate length.

1 Claim, 20 Drawing Sheets



(58) **Field of Classification Search**
CPC H01R 13/514; H01R 5/00; H01R 13/46; H01R 31/048; H01R 31/02; H01J 5/00; H01J 5/16; H01J 1/02; H01J 15/00; H01J 5/48; H01J 5/50; H01J 19/54; F21V 5/00; F21K 9/00; F21K 13/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,110,965	A	9/1978	Bradley et al.	
4,279,053	A	7/1981	Payne et al.	
4,383,817	A	5/1983	Mirhej et al.	
4,398,933	A	8/1983	Lecron et al.	
4,648,830	A	3/1987	Peterson et al.	
4,770,938	A	9/1988	Morrison et al.	
5,108,838	A	4/1992	Tung et al.	
5,125,818	A	6/1992	Yeh et al.	
5,154,908	A	10/1992	Edie et al.	
5,190,821	A	3/1993	Jackson et al.	
5,208,106	A	5/1993	Tung et al.	
5,208,107	A	5/1993	Yeh et al.	
5,230,957	A	7/1993	Lin et al.	
5,279,897	A	1/1994	Jackson et al.	
5,322,736	A	6/1994	Peterson et al.	
5,362,563	A	11/1994	Lin et al.	
5,380,592	A	1/1995	Tung et al.	
5,413,857	A	5/1995	Hagen et al.	
5,462,802	A	10/1995	Tajiri et al.	
5,486,417	A	1/1996	Hagen et al.	
5,489,475	A	2/1996	Hagen et al.	
5,512,367	A	4/1996	Hagen et al.	
5,523,155	A	6/1996	Lin et al.	
5,540,993	A	7/1996	Hernandez et al.	
5,587,118	A	12/1996	Mallonee et al.	
5,597,650	A	1/1997	Mallonee et al.	
5,620,797	A	4/1997	Mallonee et al.	
5,686,121	A	11/1997	Samuelson et al.	
D410,554	S	6/1999	Guyton	
5,922,462	A	7/1999	Kent et al.	
5,932,346	A	8/1999	Kent et al.	
5,948,528	A	9/1999	Helms et al.	
5,985,193	A	11/1999	Newport et al.	
6,017,478	A	1/2000	Kent et al.	
D422,099	S	3/2000	Kracke	
6,048,615	A	4/2000	Lin et al.	
6,153,138	A	11/2000	Helms et al.	
6,162,382	A	12/2000	Kent et al.	
6,395,392	B1	5/2002	Gownder et al.	
6,458,726	B1	10/2002	Harrington et al.	
6,589,653	B2	7/2003	Lin	
6,620,505	B1	9/2003	Koyanagi et al.	
6,652,965	B2	11/2003	Merigold et al.	
6,660,377	B2	12/2003	Bernaschek	
6,673,450	B2	1/2004	Portus et al.	
6,740,401	B1	5/2004	Yahata et al.	
6,803,102	B1	10/2004	Haggard et al.	
6,939,608	B2	9/2005	Tung	
6,958,188	B2	10/2005	Moorhead et al.	
7,028,695	B2	4/2006	Montoli et al.	
7,087,303	B2	8/2006	Tung	
D549,360	S	8/2007	An	
D550,864	S	9/2007	Hernandez, Jr.	
D626,666	S *	11/2010	Yamamoto	D26/2
D627,493	S *	11/2010	Yamamoto	D26/2
D628,318	S *	11/2010	Yamamoto	D26/2
D628,722	S *	12/2010	Yamamoto	D26/2
7,883,772	B2	2/2011	Sharp et al.	
7,968,480	B2	6/2011	Delattre et al.	
7,981,226	B2	7/2011	Sharp et al.	
7,998,577	B2	8/2011	Yost et al.	
8,043,689	B2	10/2011	Weiser et al.	
8,137,811	B2	3/2012	Dugan et al.	
D666,335	S *	8/2012	Kim	D26/2
8,297,035	B2	10/2012	Tachibana et al.	
8,420,556	B2	4/2013	Sharp et al.	
D689,215	S	9/2013	Xue	
2003/0096114	A1	5/2003	Chen et al.	
2003/0119403	A1	6/2003	Willis et al.	
2004/0147194	A1	7/2004	Willis et al.	
2004/0170836	A1	9/2004	Bond	
2007/0077427	A1	4/2007	Dugan et al.	
2007/0128404	A1	6/2007	Tung et al.	
2007/0207317	A1	9/2007	Willingham et al.	
2008/0032579	A1	2/2008	Abed et al.	
2010/0029161	A1	2/2010	Pourdeyhimi	
2010/0159186	A1	6/2010	Samuelson et al.	
2011/0281057	A1	11/2011	Tung et al.	
2011/0287210	A1	11/2011	Tung et al.	
2012/0128437	A1	5/2012	Weiser et al.	
2012/0231207	A1	9/2012	Rock et al.	
2012/0231690	A1	9/2012	Pourdeyhimi et al.	
2012/0289107	A1	11/2012	Beissinger et al.	
2013/0029086	A1	1/2013	Samuelson et al.	
2013/0029152	A1	1/2013	Samuelson et al.	
2013/0059495	A1	3/2013	Dempster et al.	
2013/0344331	A1	12/2013	Corn et al.	
2014/0103556	A1	4/2014	Diaz De Leon et al.	
2015/0275400	A1	10/2015	Tung	

OTHER PUBLICATIONS

Notice of Allowance issued in U.S. Appl. No. 29/583,406, dated Jul. 20, 2018.
Non-Final Office Action issued in corresponding U.S. Appl. No. 15/488,825 dated Feb. 8, 2019, 9 pgs.
BASF. "Ultramid® Grades in Extrusion." Aug. 2004. Available as: http://www.polyrob.net/files/adminpolyrob/fichaTecnica/basf/ultramidNylon6/Ultramidbrochure.pdf (Year 2004), 12 pages.
Final Office Action issued for U.S. Appl. No. 15/488,825, dated Aug. 22, 2019.

* cited by examiner

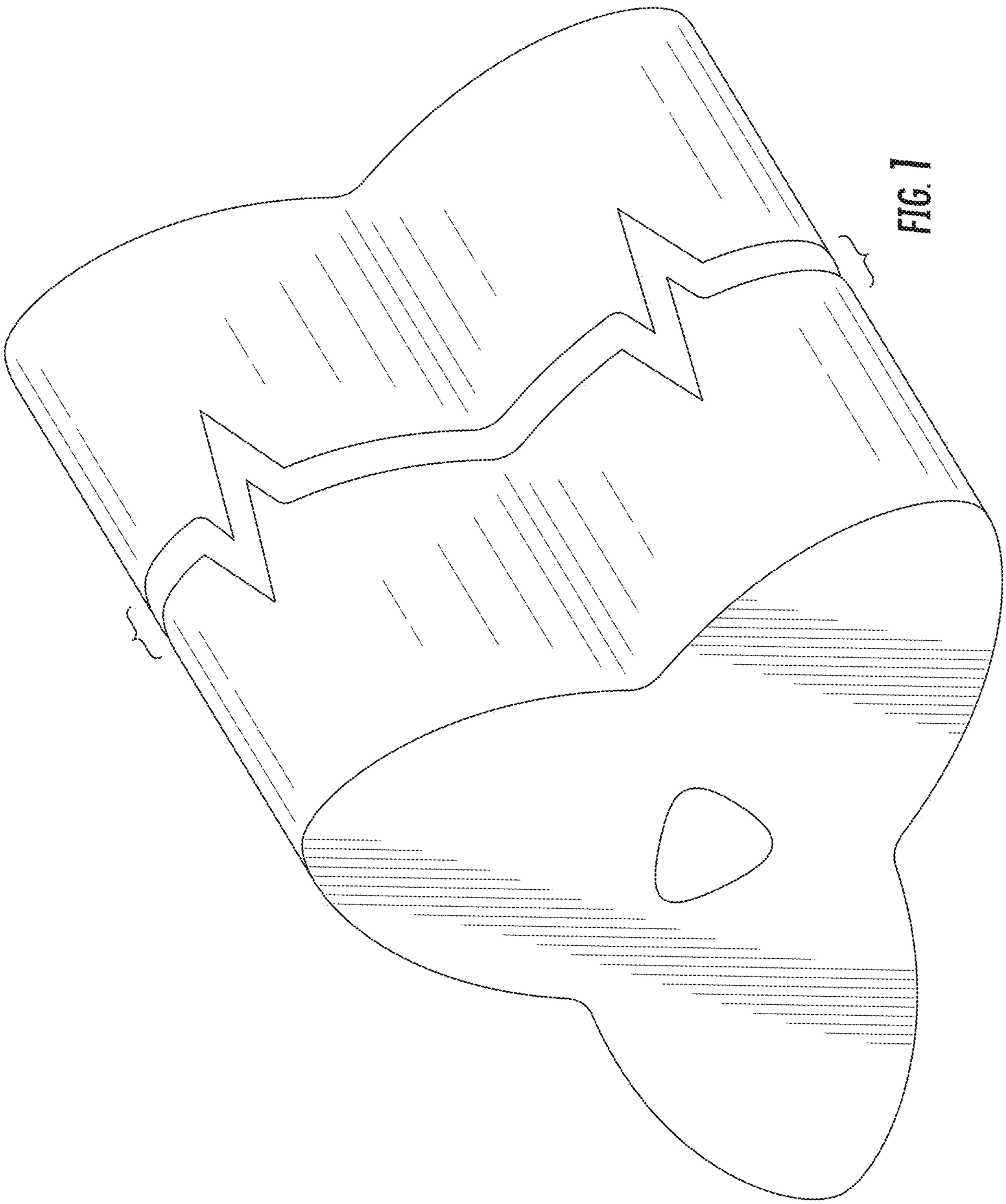


FIG. 1

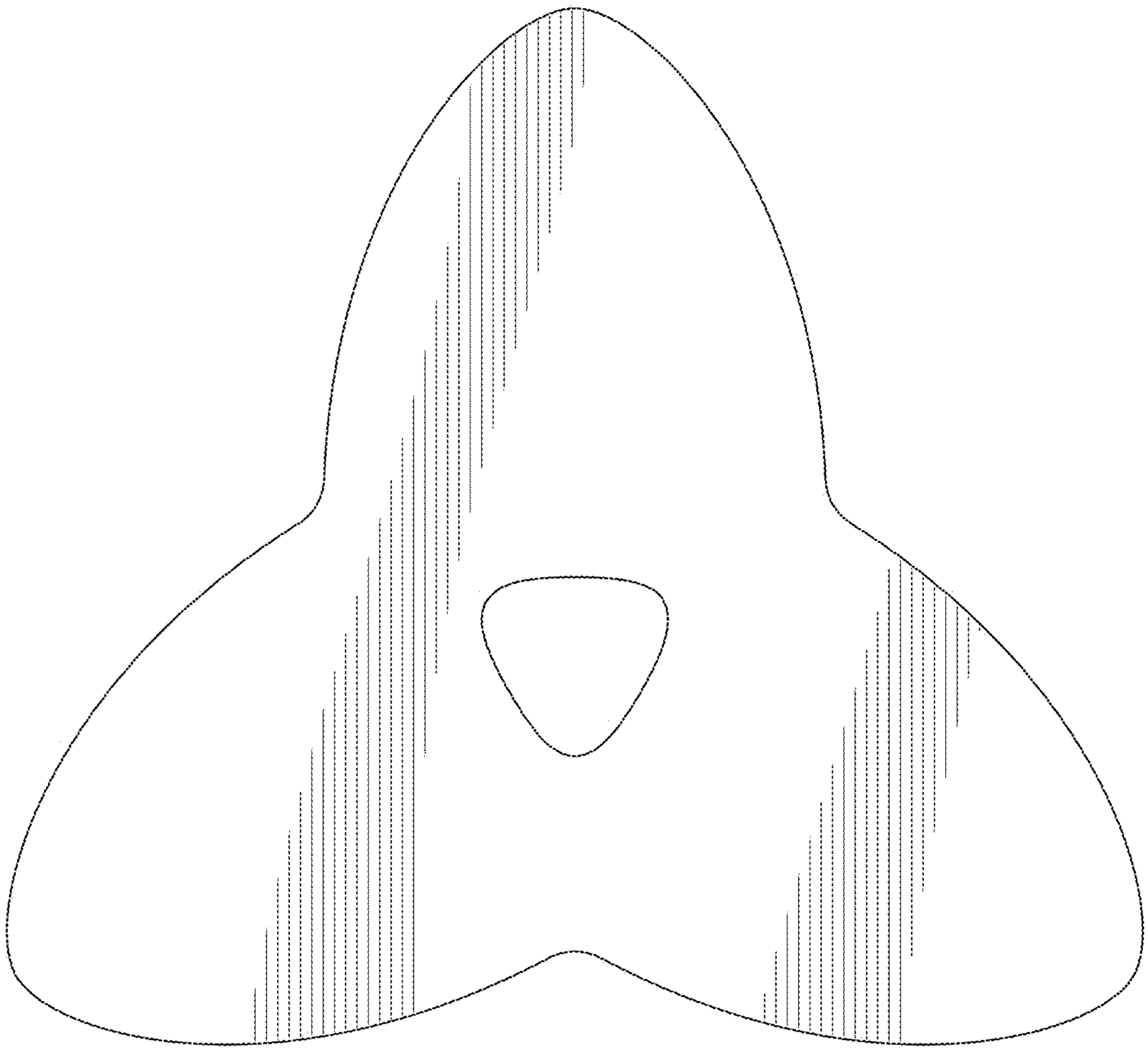


FIG. 2

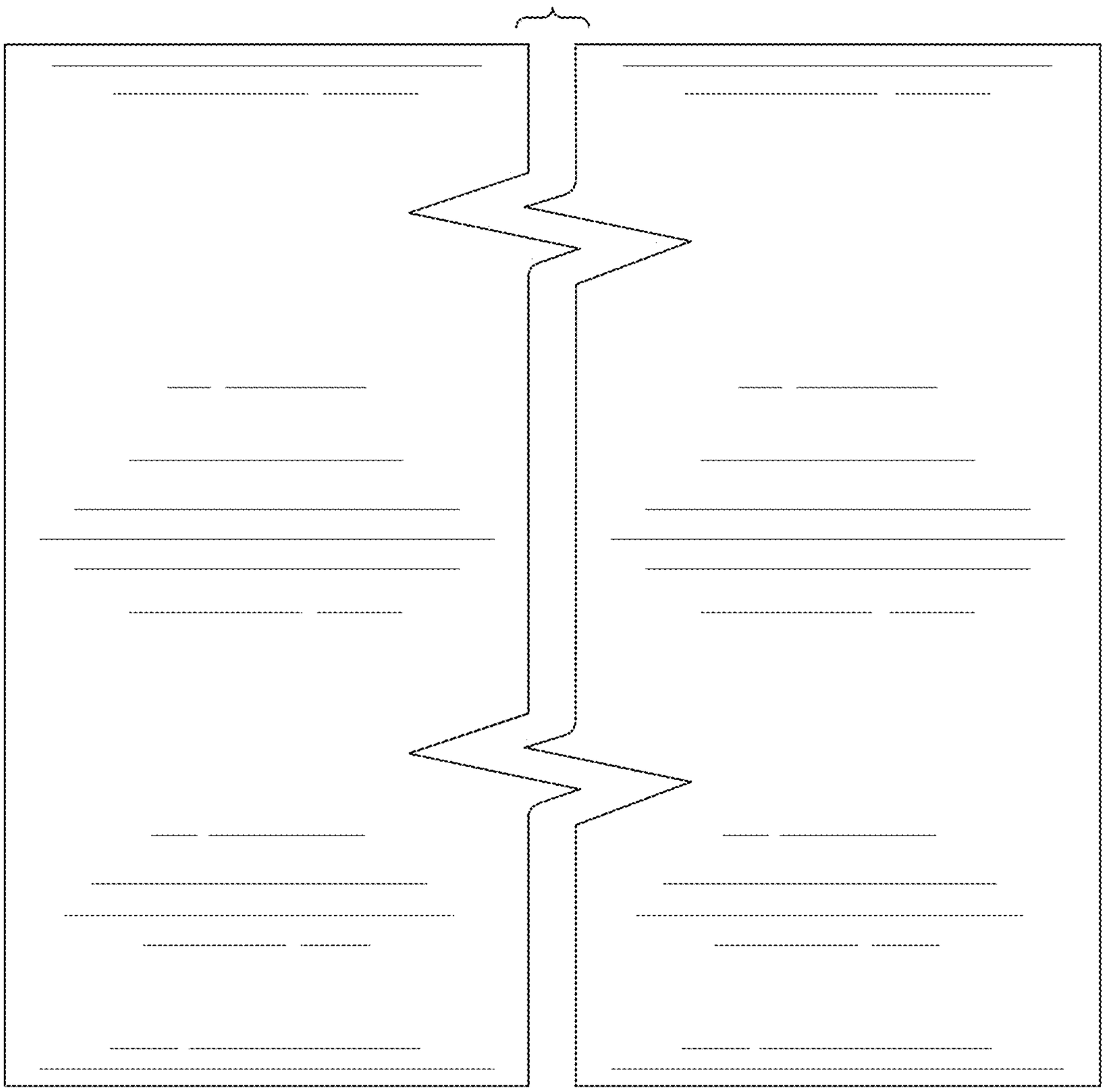


FIG. 3

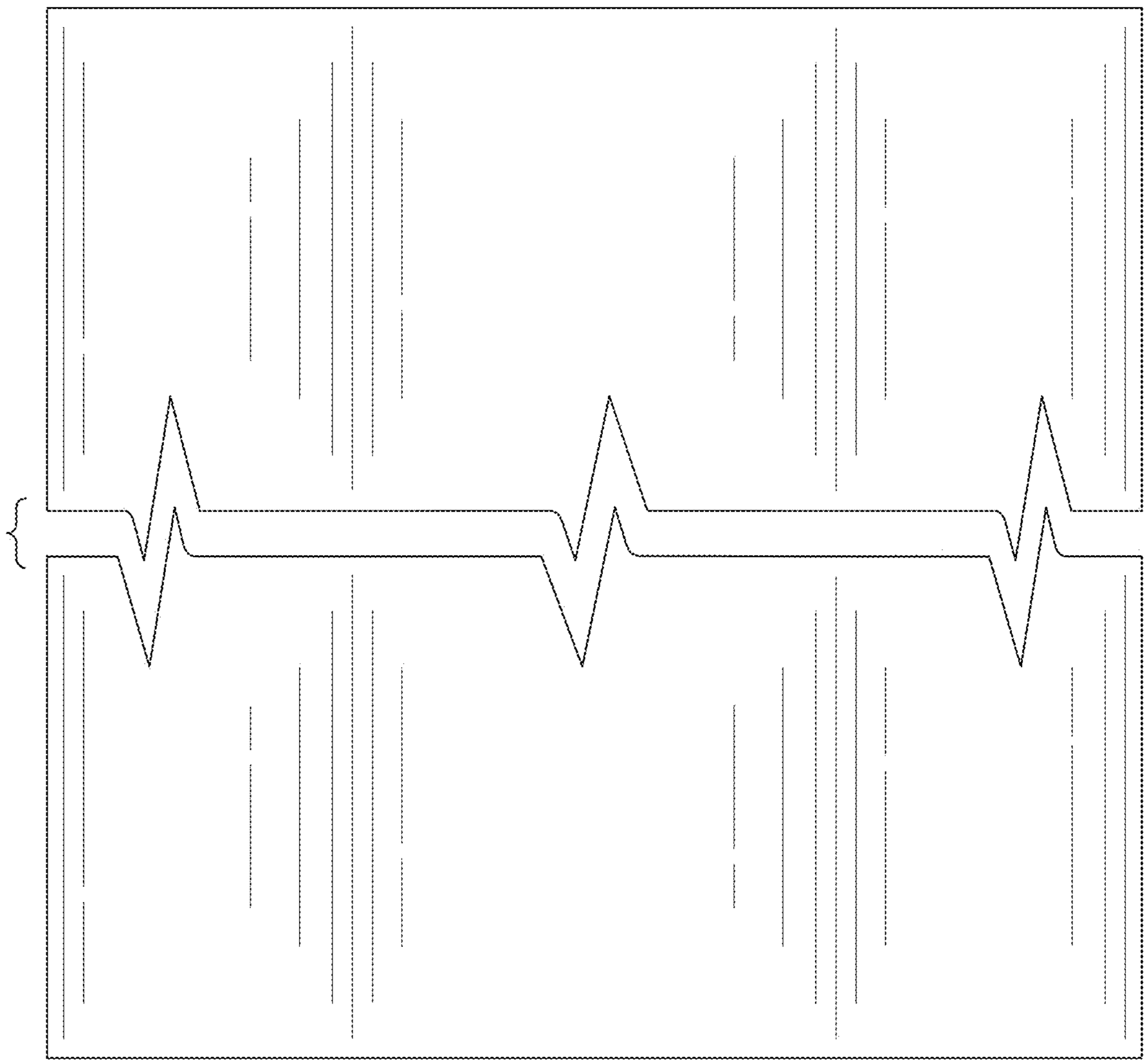


FIG. 4

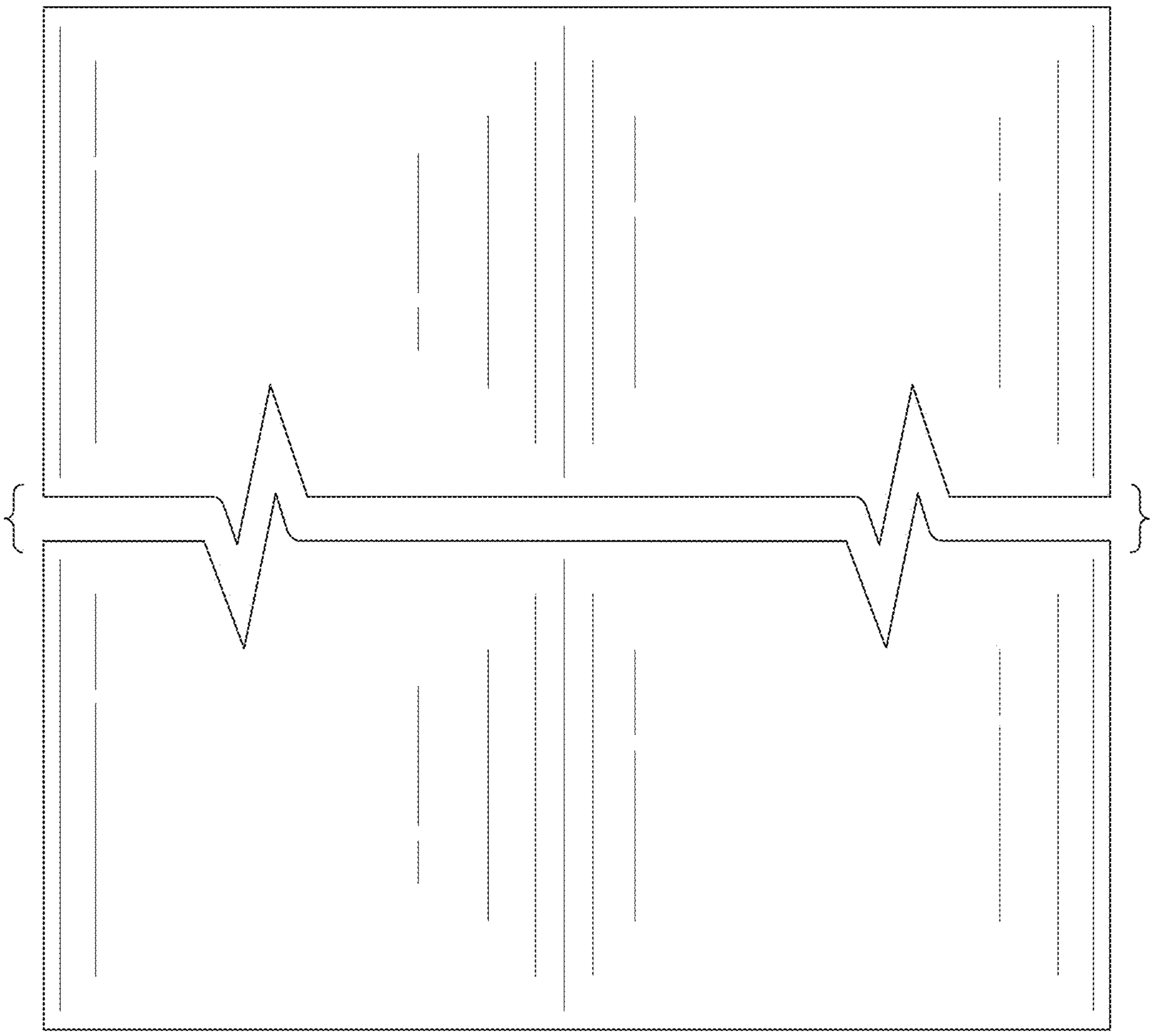


FIG. 5

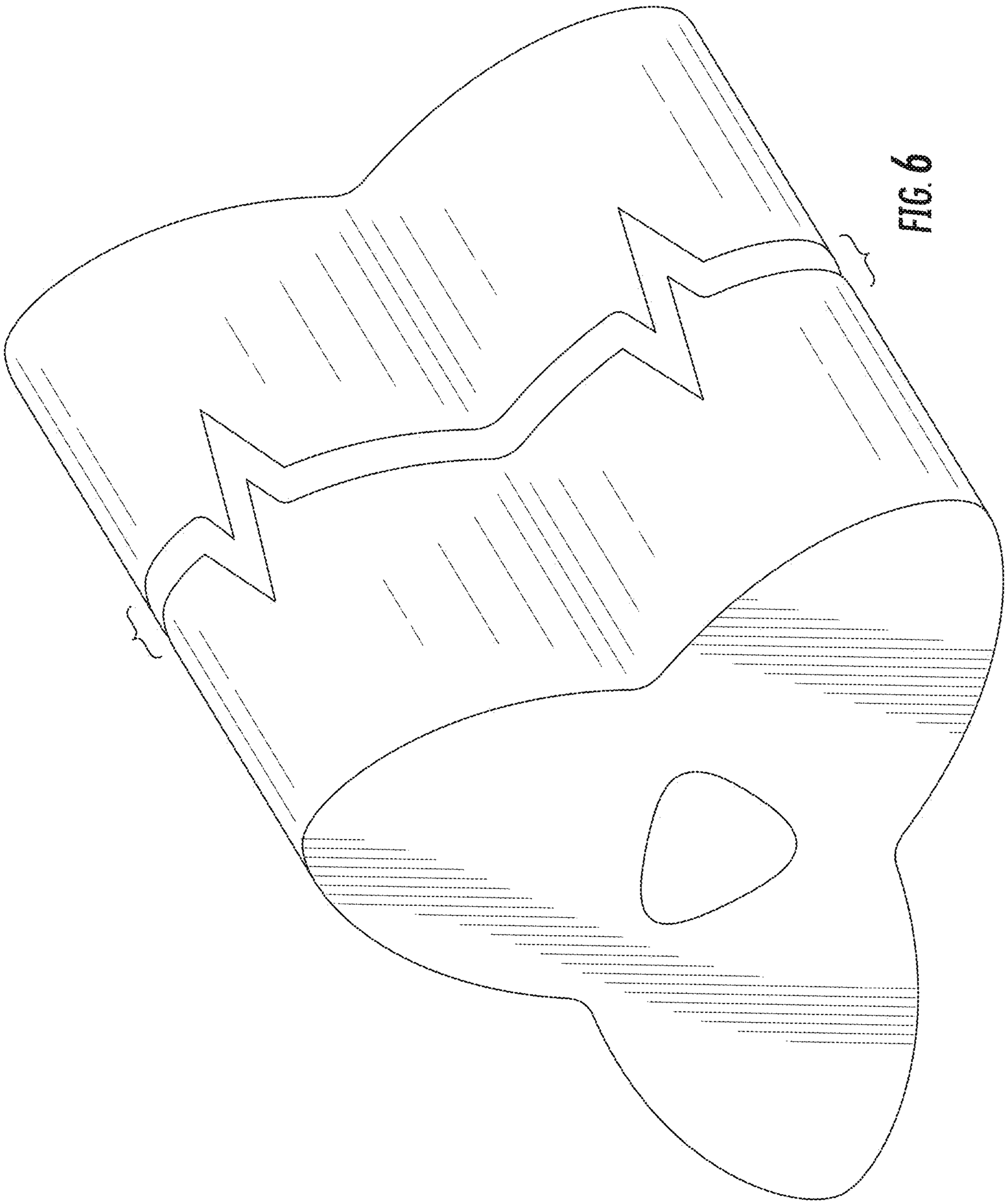


FIG. 6

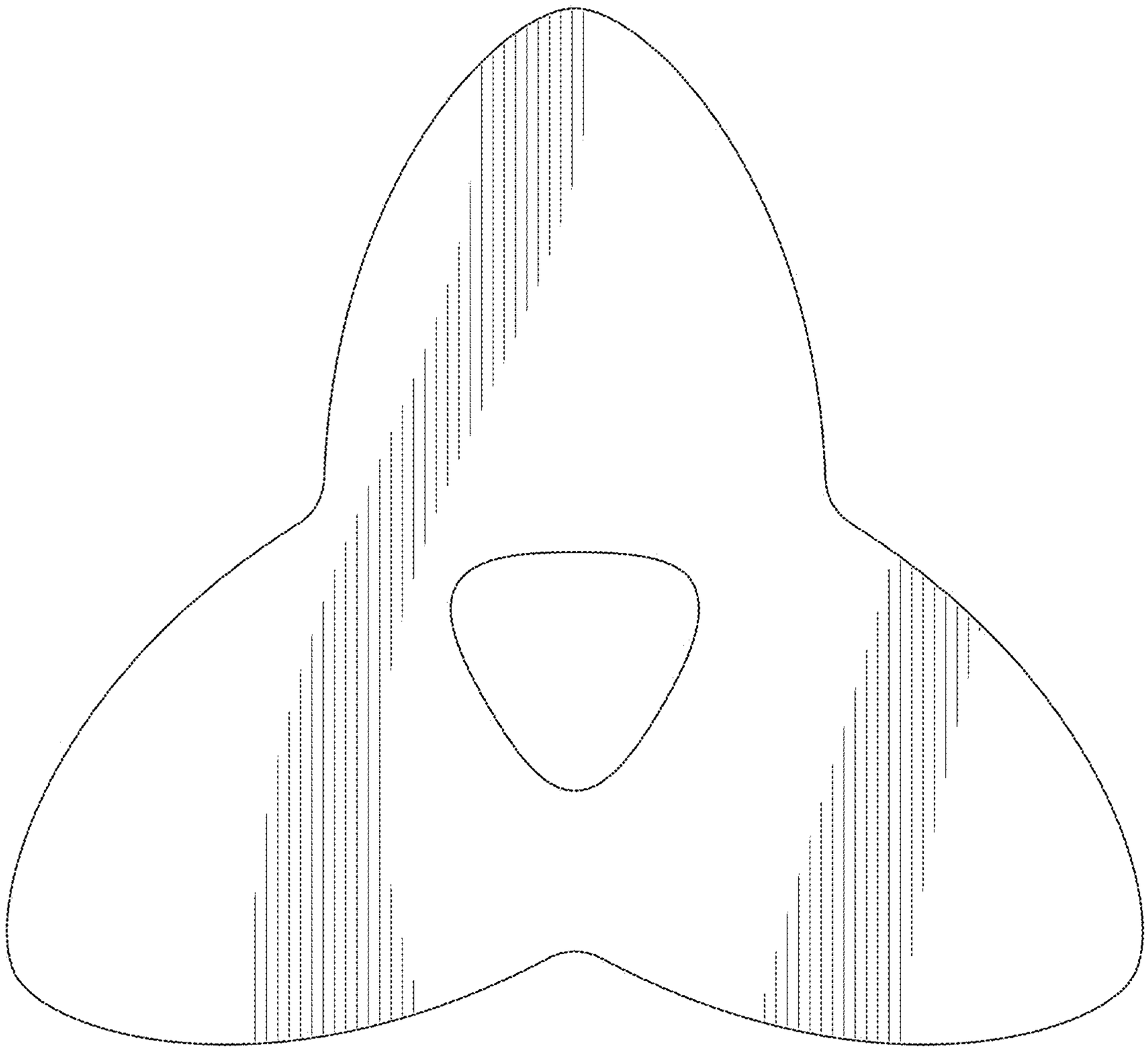


FIG. 7

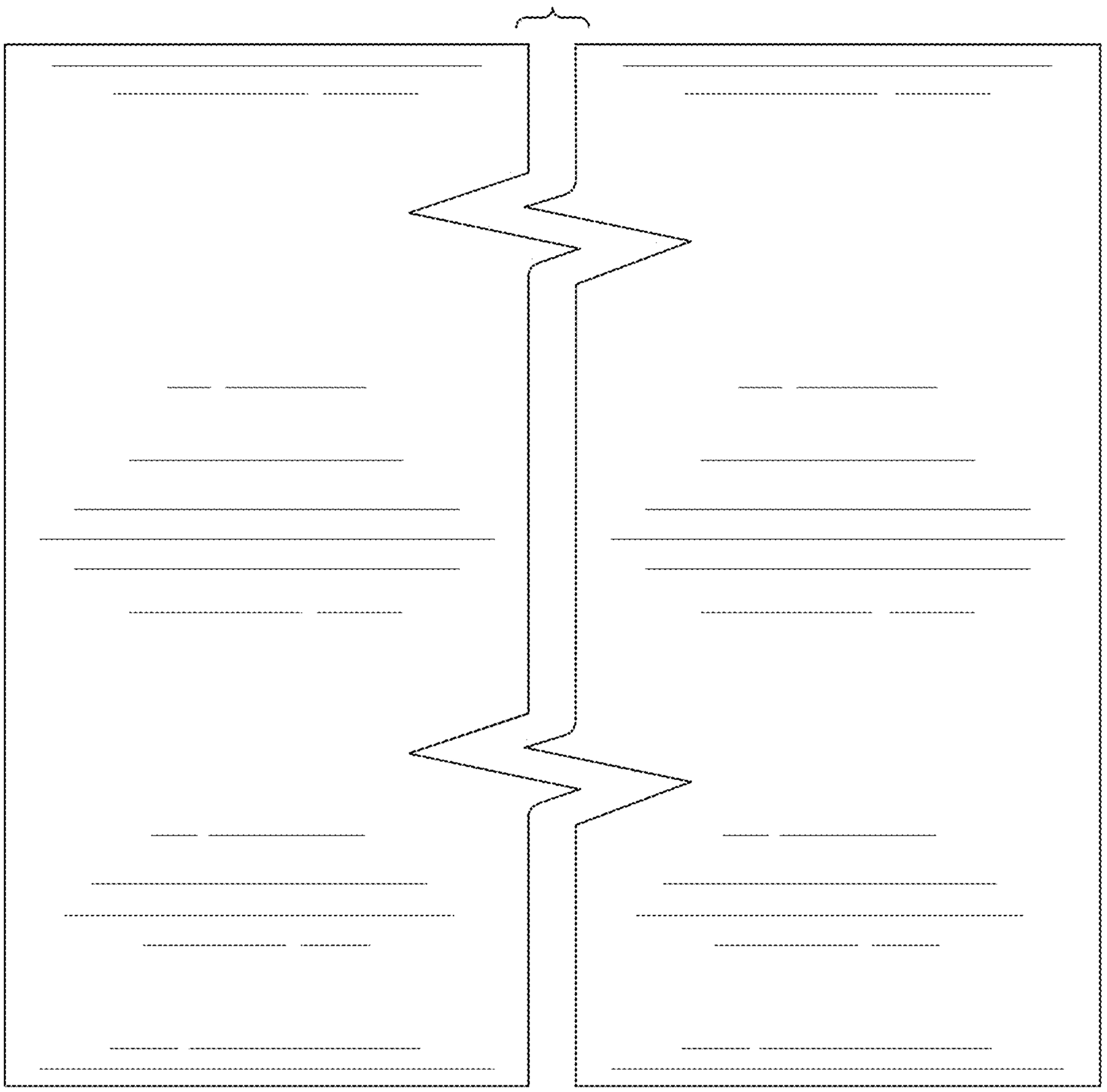


FIG. 8

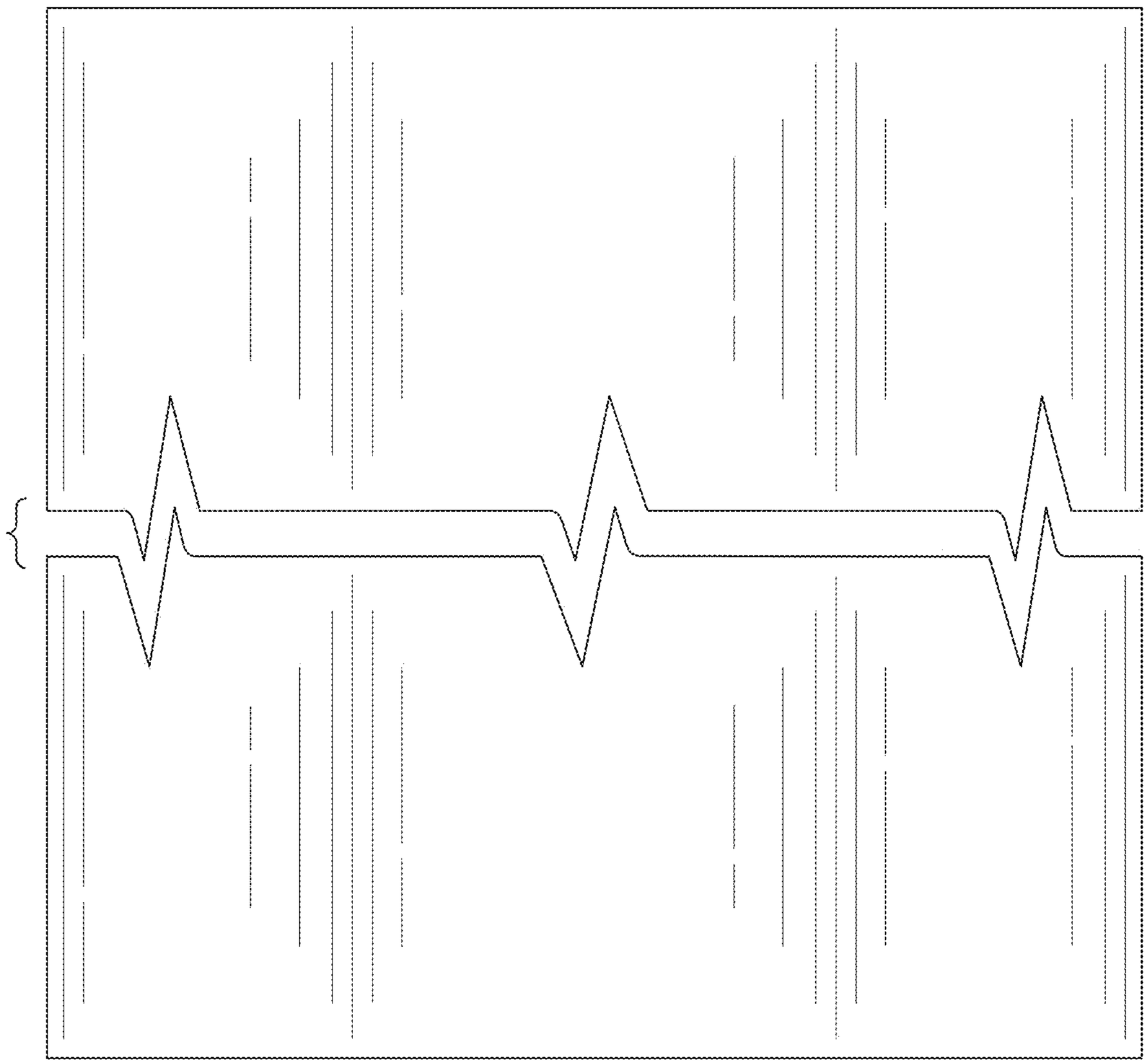


FIG. 9

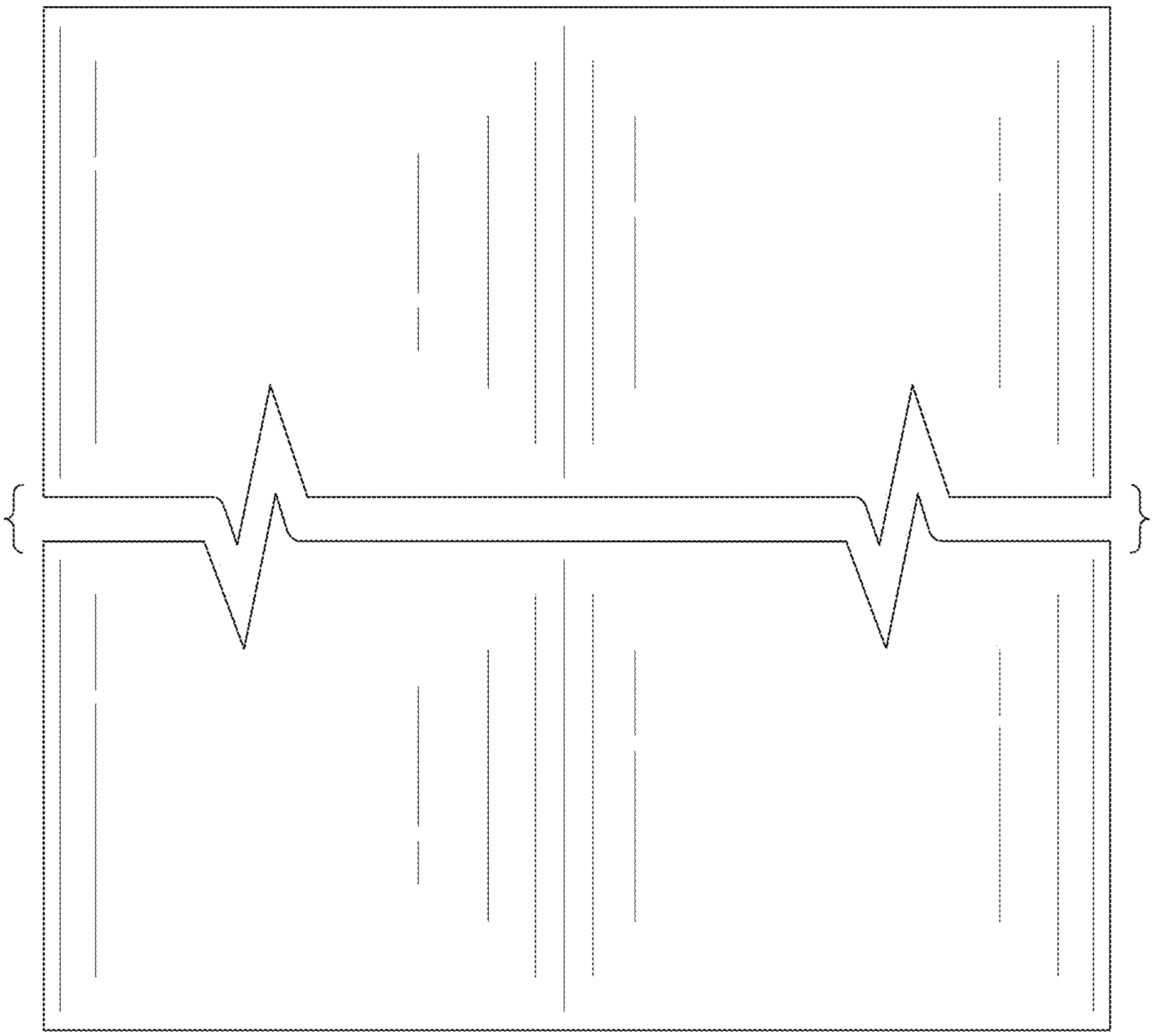


FIG. 10

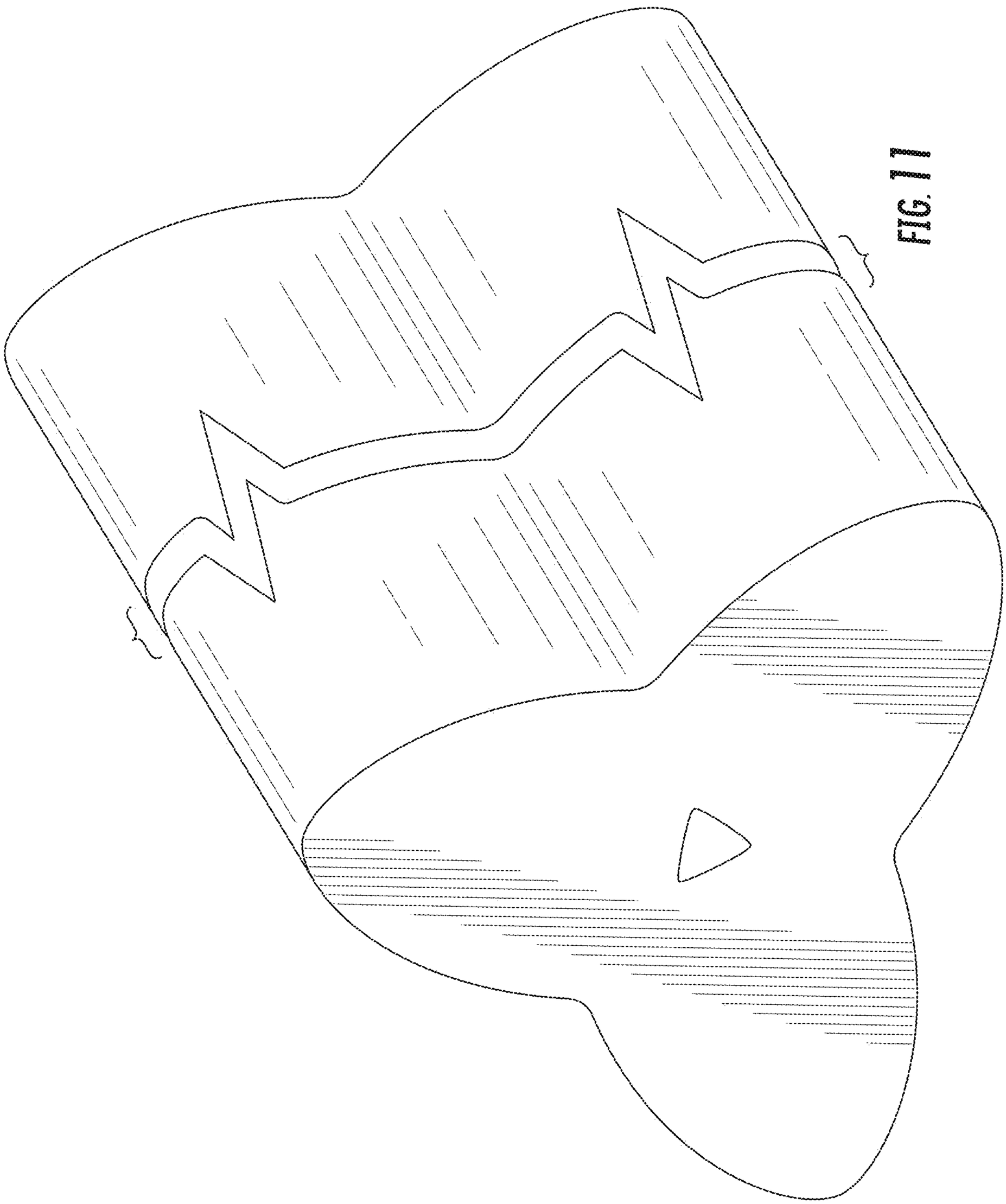


FIG. 7

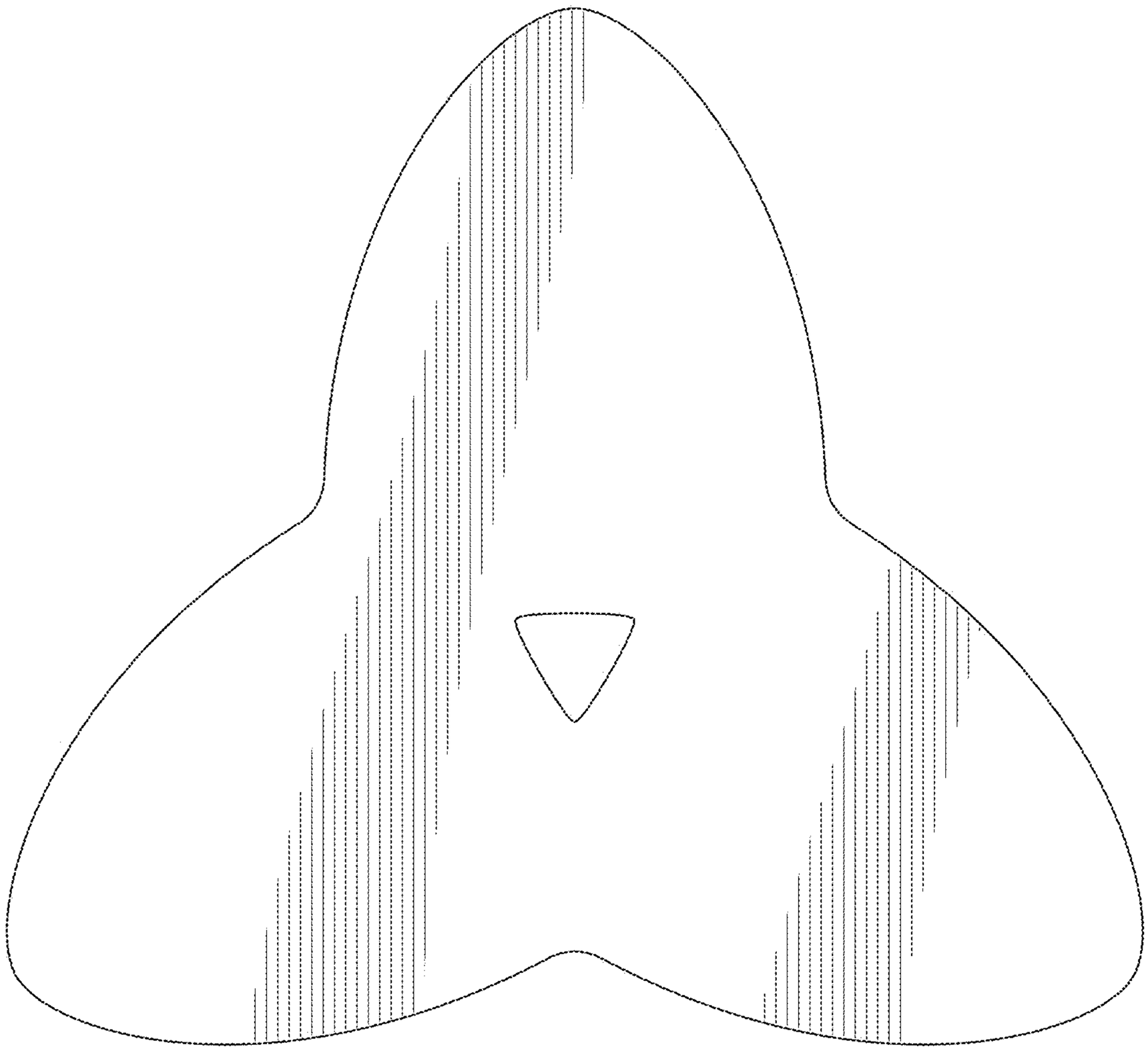


FIG. 12

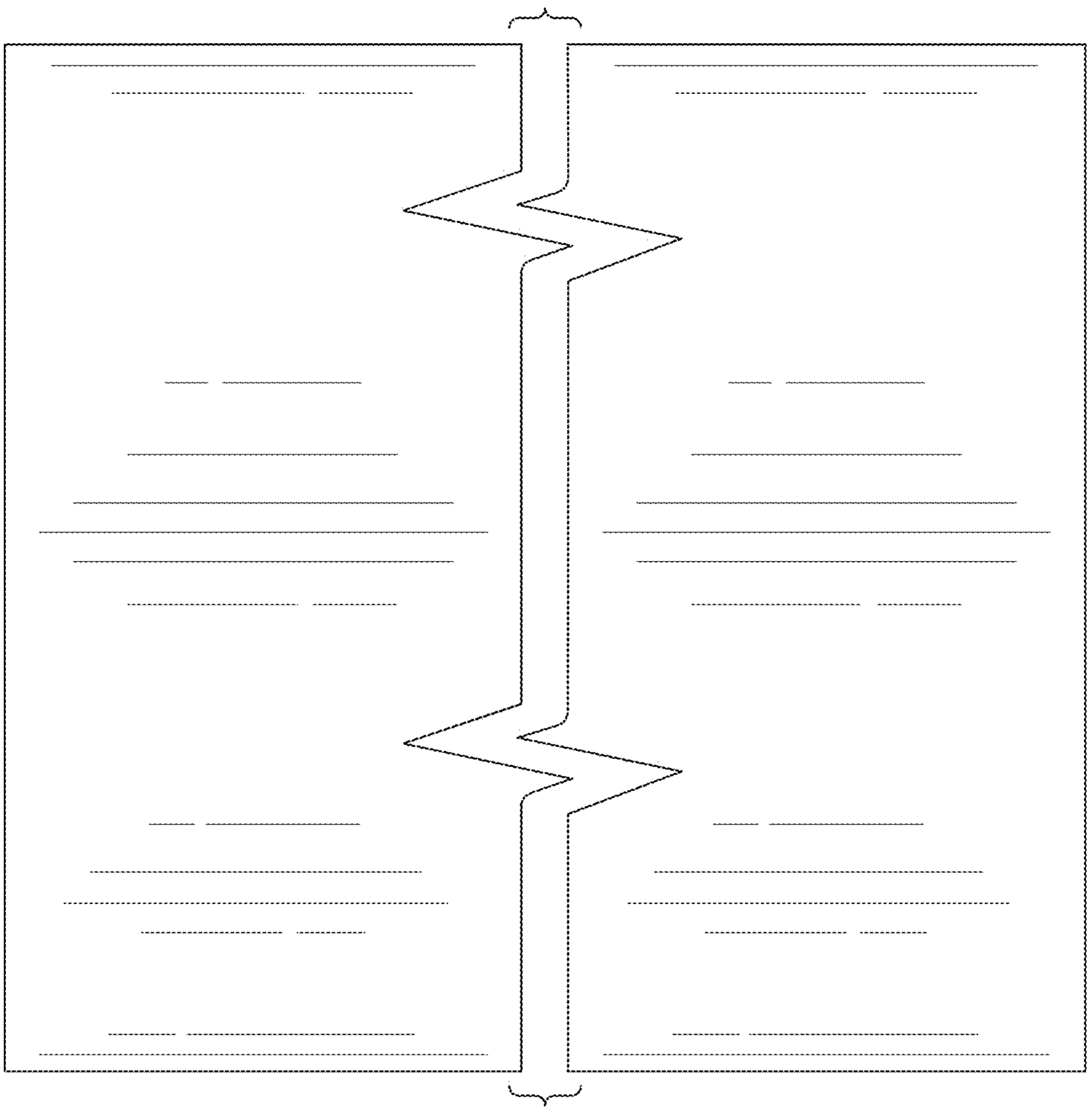


FIG. 13

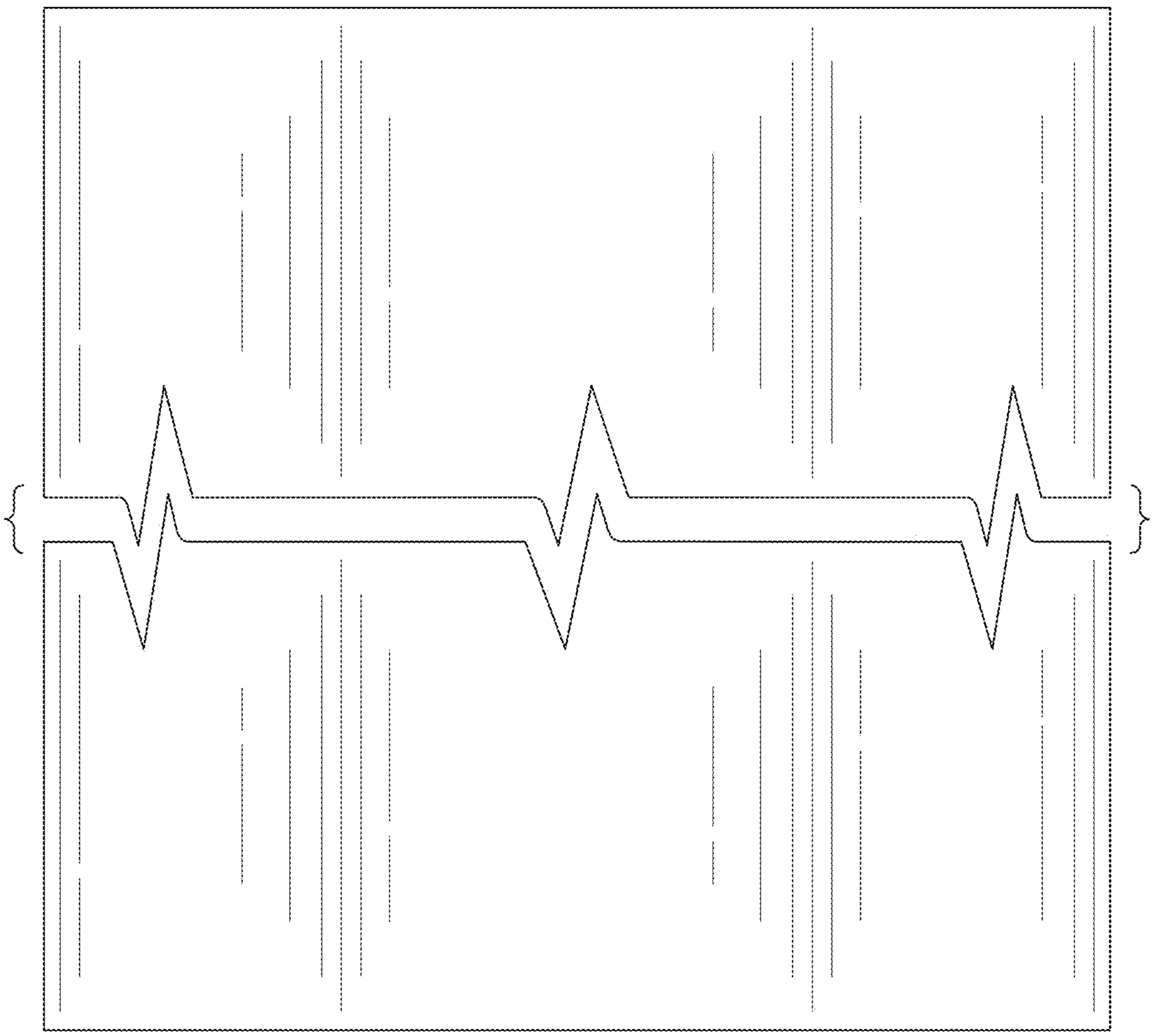


FIG. 14

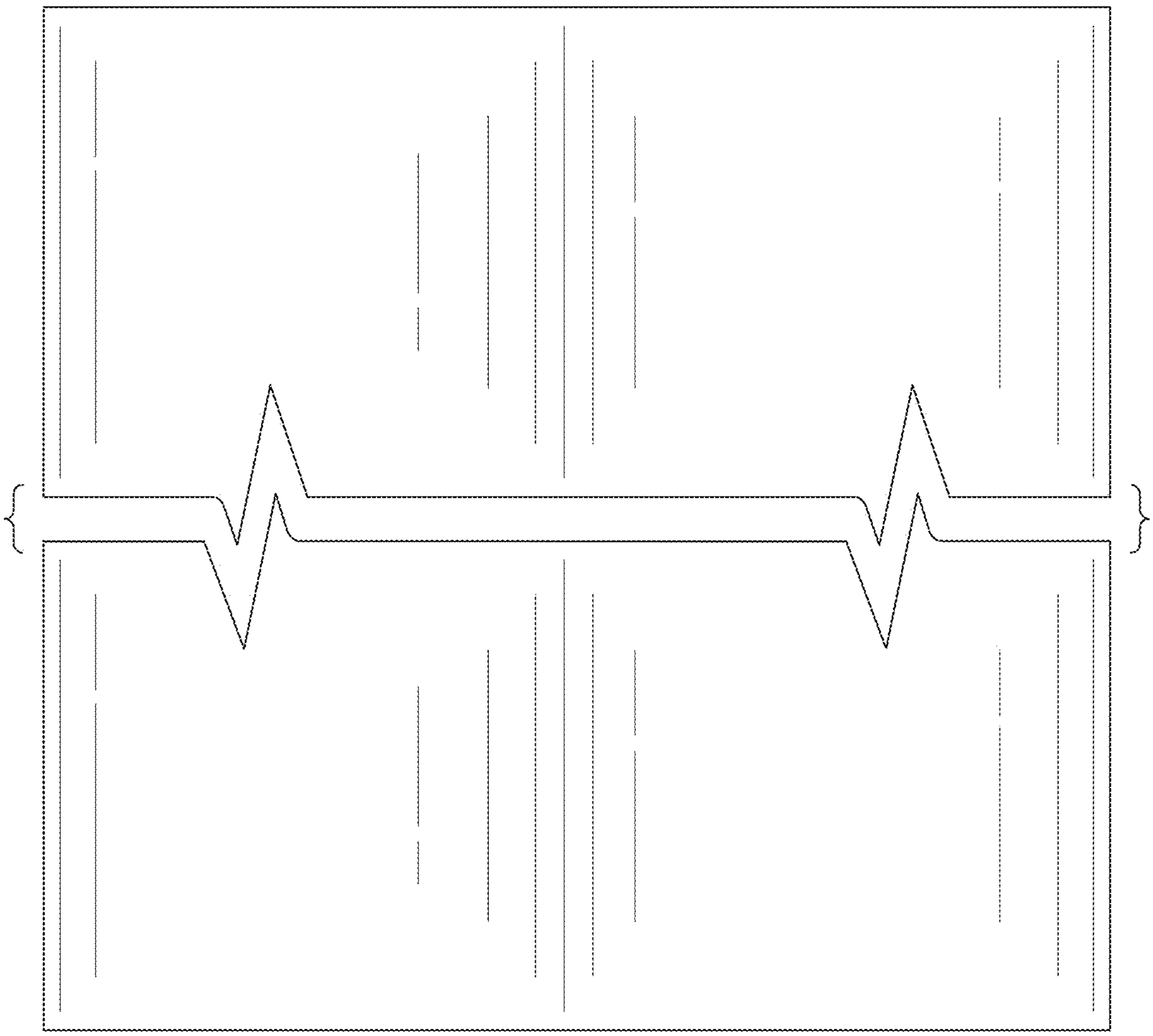


FIG. 15

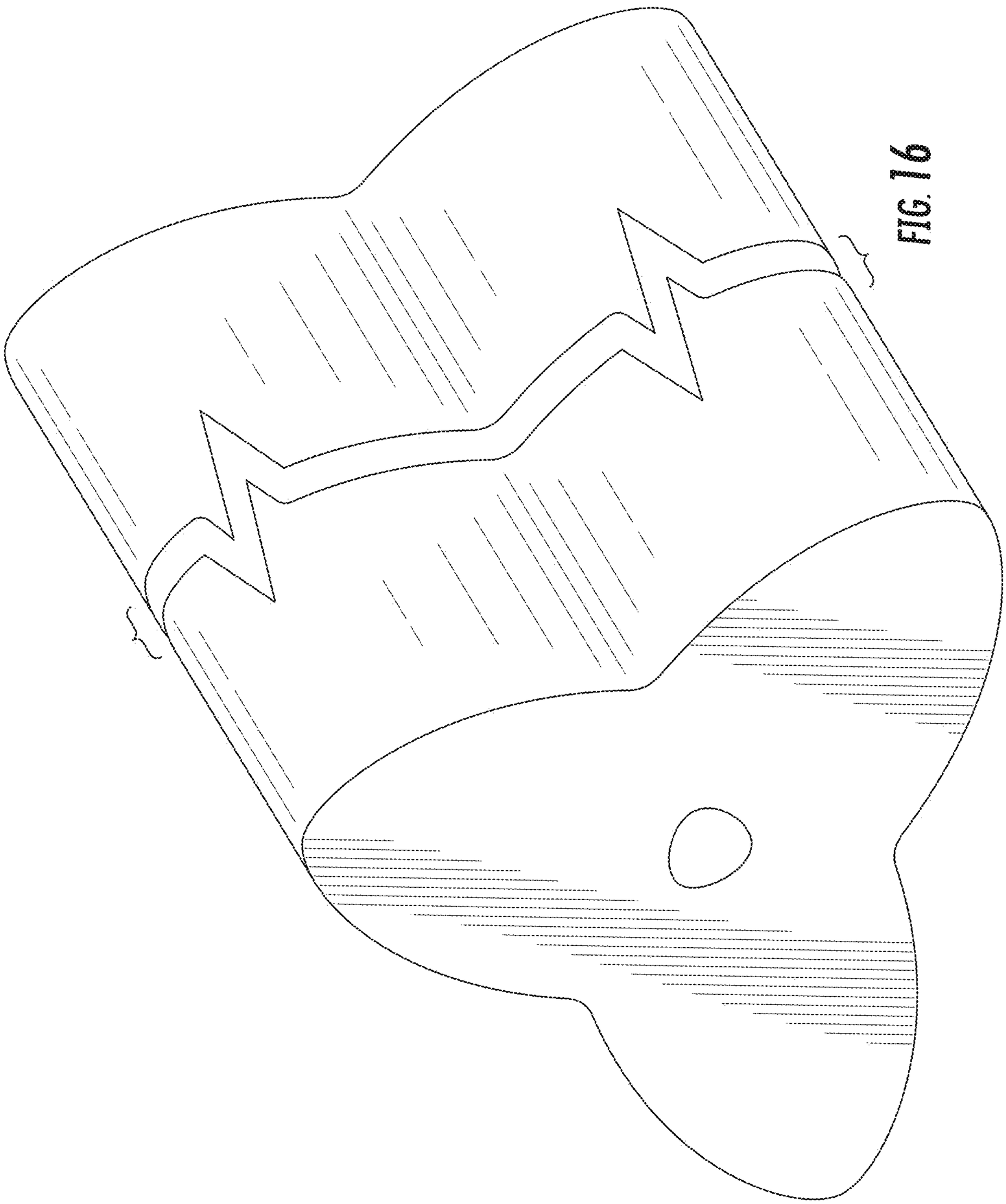


FIG. 16

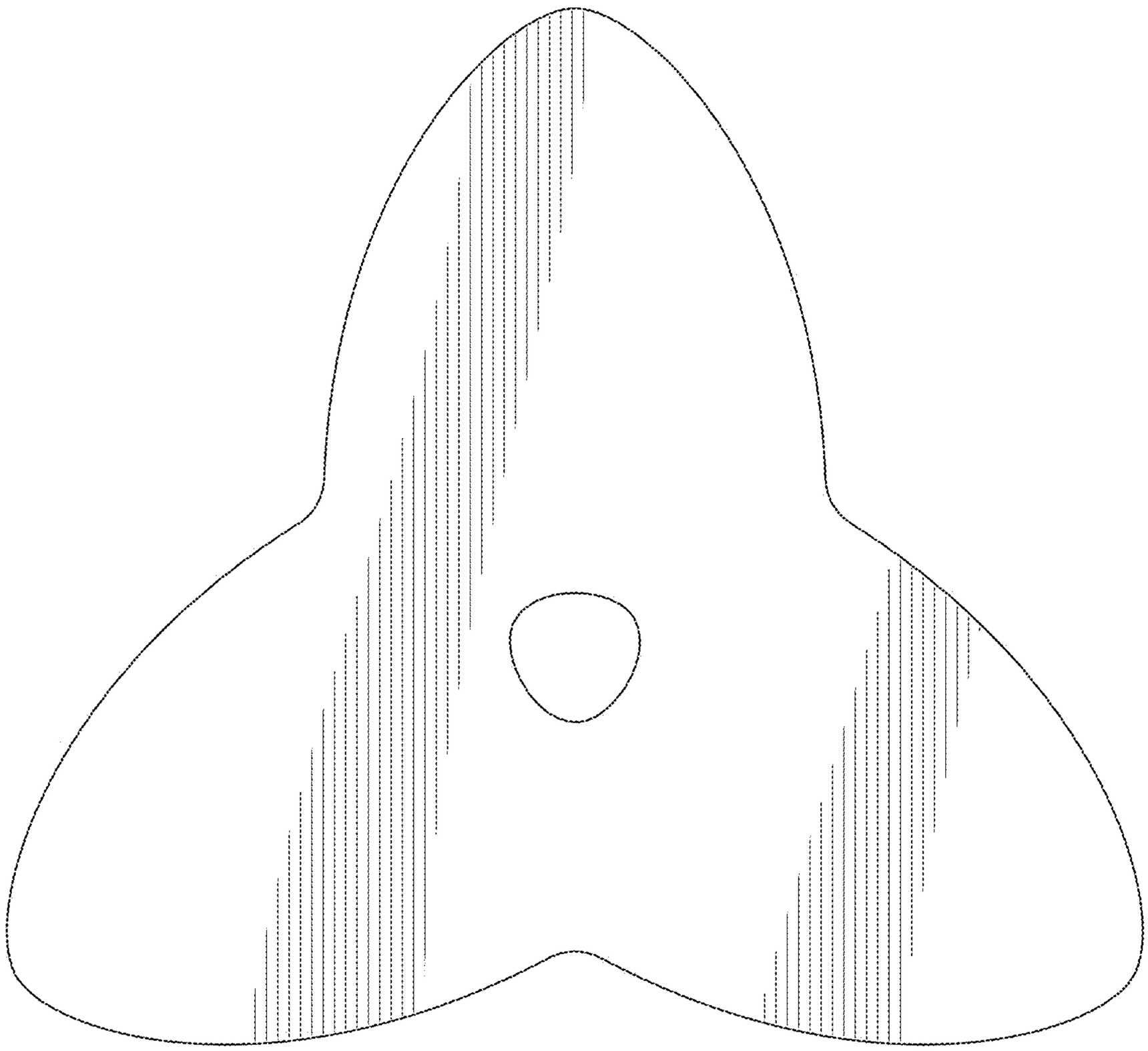


FIG. 17

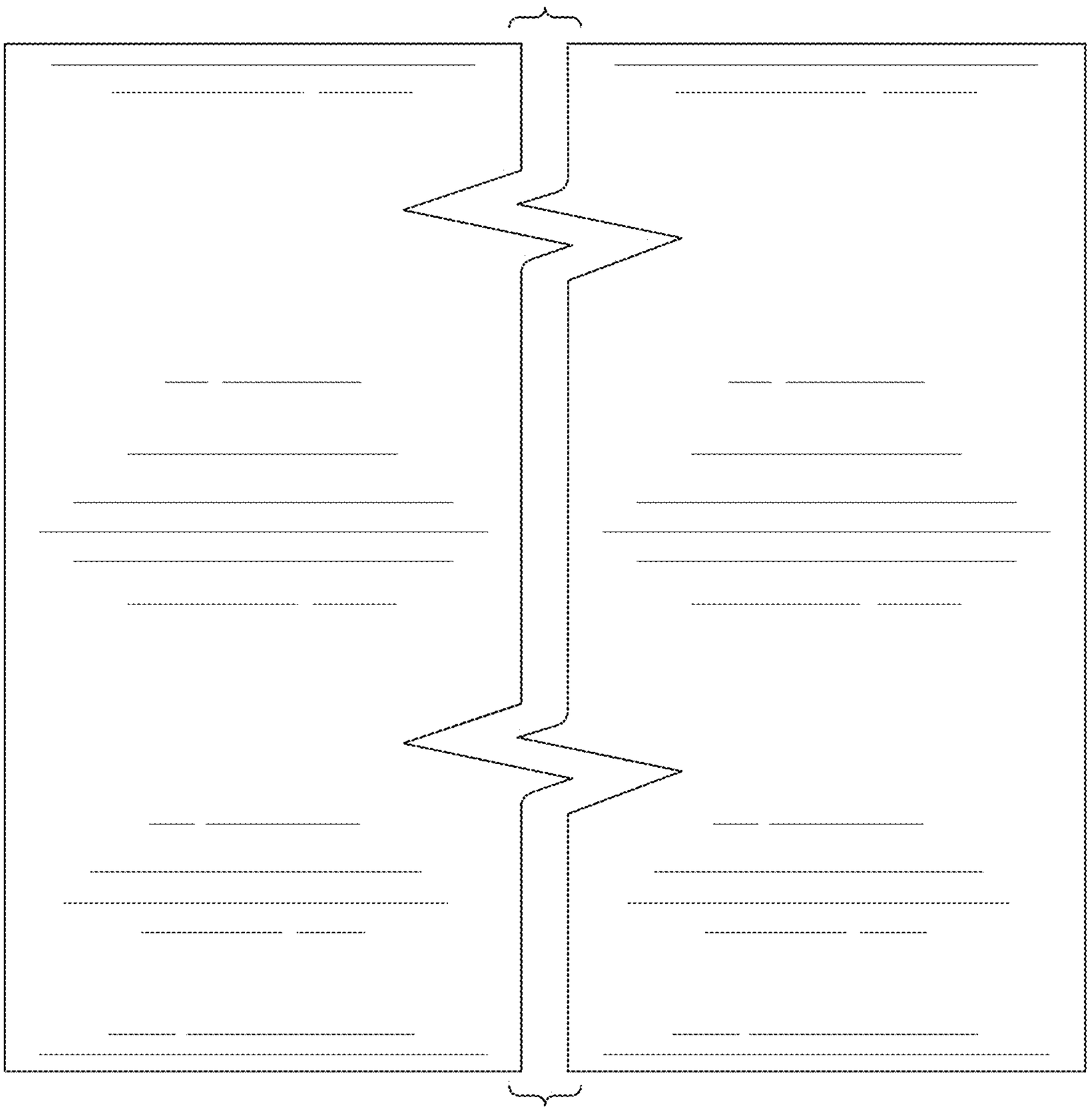


FIG. 18

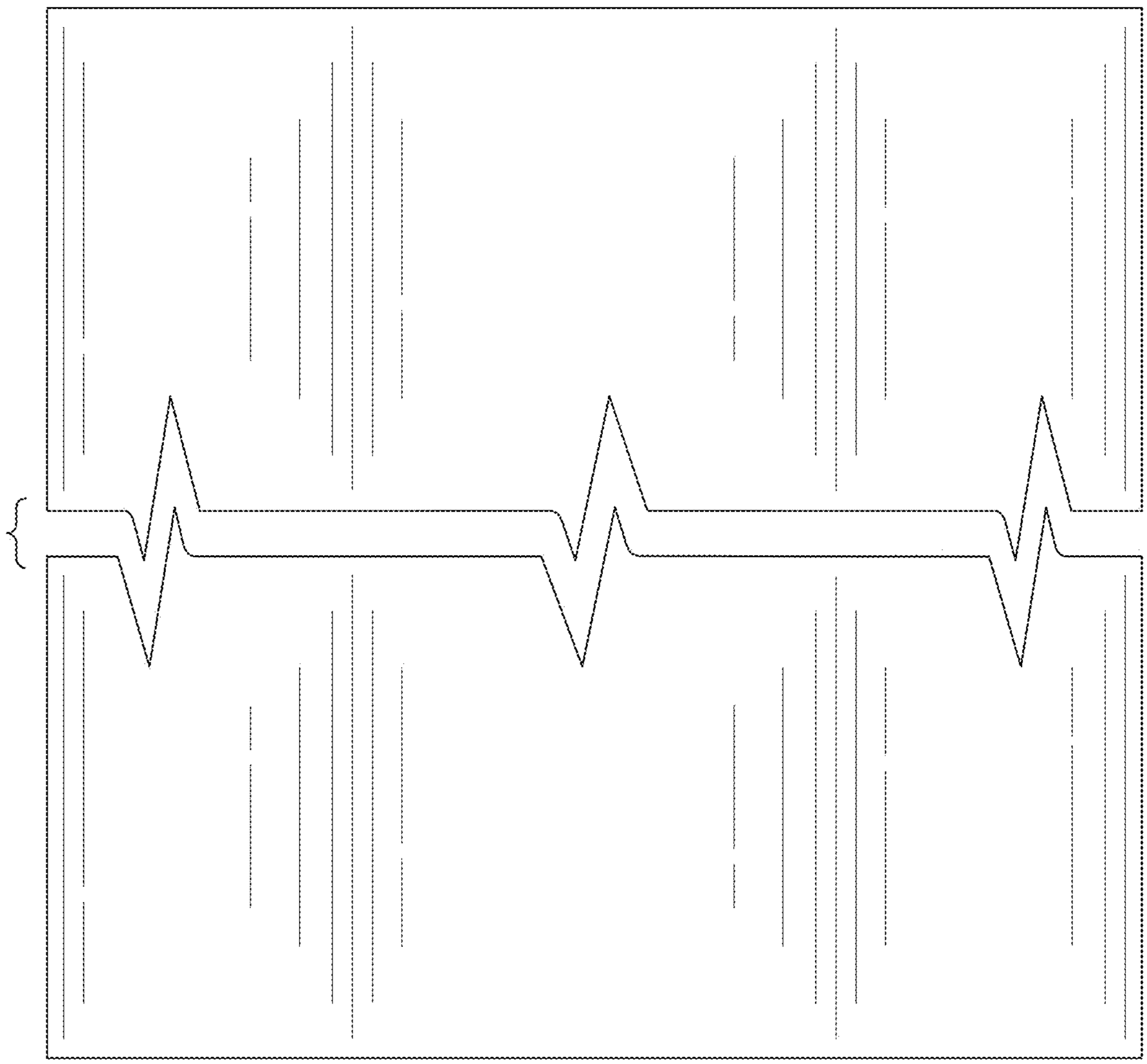


FIG. 19

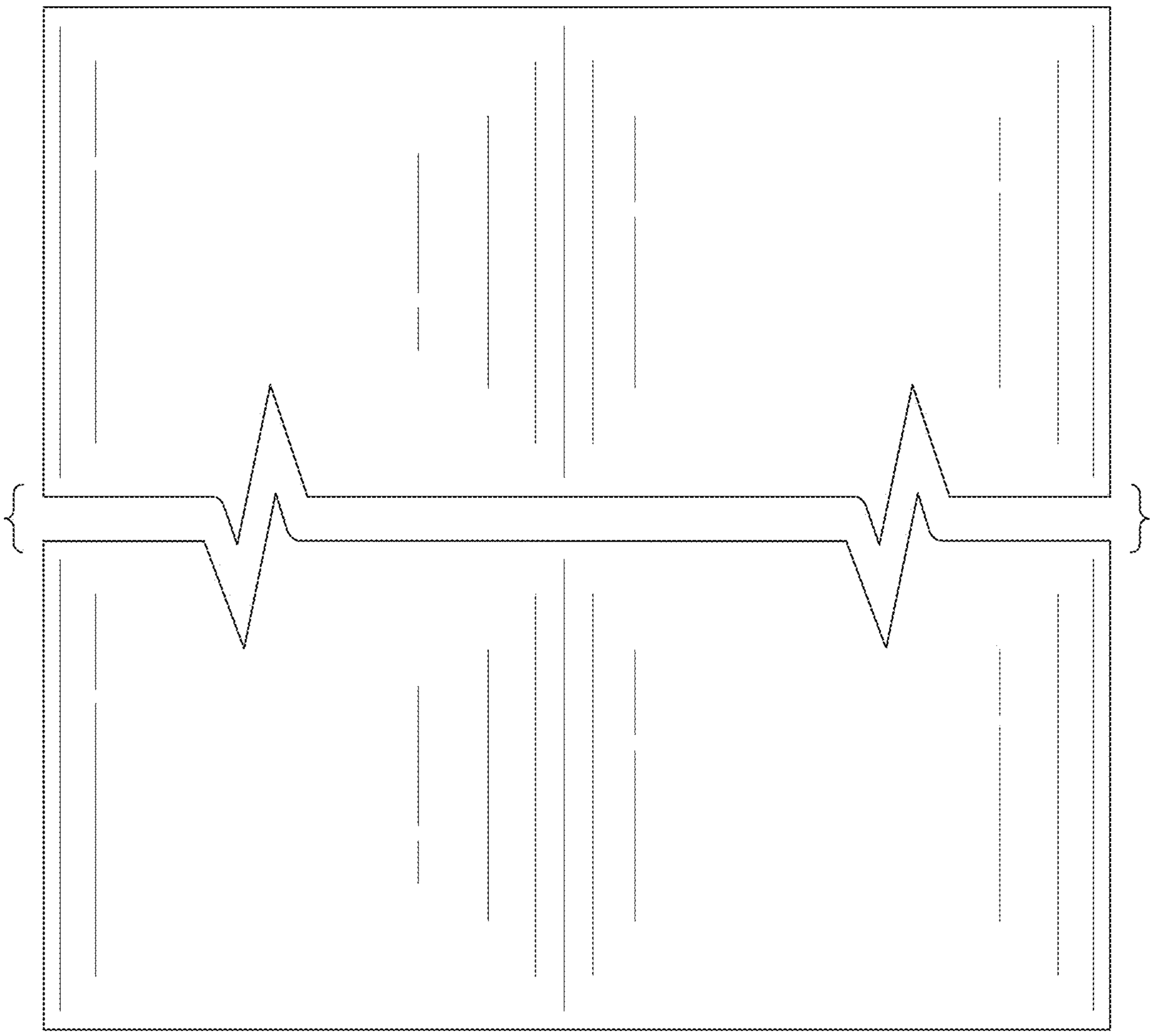


FIG. 20