



US00D937228S

(12) **United States Design Patent** (10) **Patent No.:** **US D937,228 S**
Ye et al. (45) **Date of Patent:** **** Nov. 30, 2021**

(54) **LED CONTROLLER**

(71) Applicant: **Shenzhen Founder Industrial Co., Ltd**, Shenzhen (CN)

(72) Inventors: **Peter Ye**, Shenzhen (CN); **Mike Ye**, Shenzhen (CN)

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

(21) Appl. No.: **29/743,619**

(22) Filed: **Jul. 23, 2020**

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

(52) **U.S. Cl.**

USPC **D13/168**; D14/218

(58) **Field of Classification Search**

USPC D13/168, 199; D14/155, 218; D6/599; D19/100; D21/324, 627, 659, 812; D10/104.1

CPC G08C 17/02; G08C 19/00; G08C 19/12; G08C 19/28; G08C 23/04; H04B 1/202; H05B 45/00; H05B 47/10; H05B 47/19; H03J 9/00; H03J 9/02; H03J 9/04; H03J 9/06; H03J 1/0025; H01H 9/0225; H01H 9/0228; H01H 9/0235; F21S 4/00; F21S 4/10; F21S 4/28

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D52,659 S *	11/1918	Humbert	.....	D21/659
D261,780 S *	11/1981	Radtke	.....	D21/324
D373,920 S *	9/1996	Stephan	.....	D21/443
D430,143 S *	8/2000	Renk	.....	D14/218
D433,083 S *	10/2000	Griffith	.....	D1/109
D546,295 S *	7/2007	Marchetto	.....	D13/168
D548,196 S *	8/2007	Bonnaud	.....	D13/168
D600,217 S *	9/2009	Gandini	.....	D13/168
D609,221 S *	2/2010	Kim	.....	D14/218
D614,145 S *	4/2010	Arosio	.....	D13/168
D632,265 S *	2/2011	Choi	.....	D13/168
D632,999 S *	2/2011	Yeh	.....	D11/158

D673,512 S *	1/2013	Huang	.....	D13/168
D705,748 S *	5/2014	He	.....	D14/155
D721,814 S *	1/2015	Creed	.....	D24/185
D731,469 S *	6/2015	Turksu	.....	D14/218
D749,666 S *	2/2016	Ahdoot	.....	D16/237
D766,218 S *	9/2016	Yang	.....	D14/218
D769,847 S *	10/2016	McClurkan	.....	D14/218
D789,450 S *	6/2017	Maxted	.....	D19/62

(Continued)

OTHER PUBLICATIONS

66ft LED Strip Lights, Music Sync Color Changing RGB LED Lights“Smile Face” Controller; Date first available Aug. 17, 2020; 3 pgs.;https://www.amazon.com/Changing-Controller-Bluetooth-Lights%EF%BC%8C-Bedroom/dp/B08FZWYBMZ/ref=pd_di_sccai_5/132-5711483-8998467?pd_rd_w=dufcW&pf_rd_p=c9443270-b914-4430-a90b-72e3e7e7.*

(Continued)

Primary Examiner — Selina Sikder

(74) *Attorney, Agent, or Firm* — W&KIP

(57)

CLAIM

The ornamental design for an LED controller, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an LED controller showing my new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left side view thereof;

FIG. 5 is a right side view thereof;

FIG. 6 is a top plan view thereof;

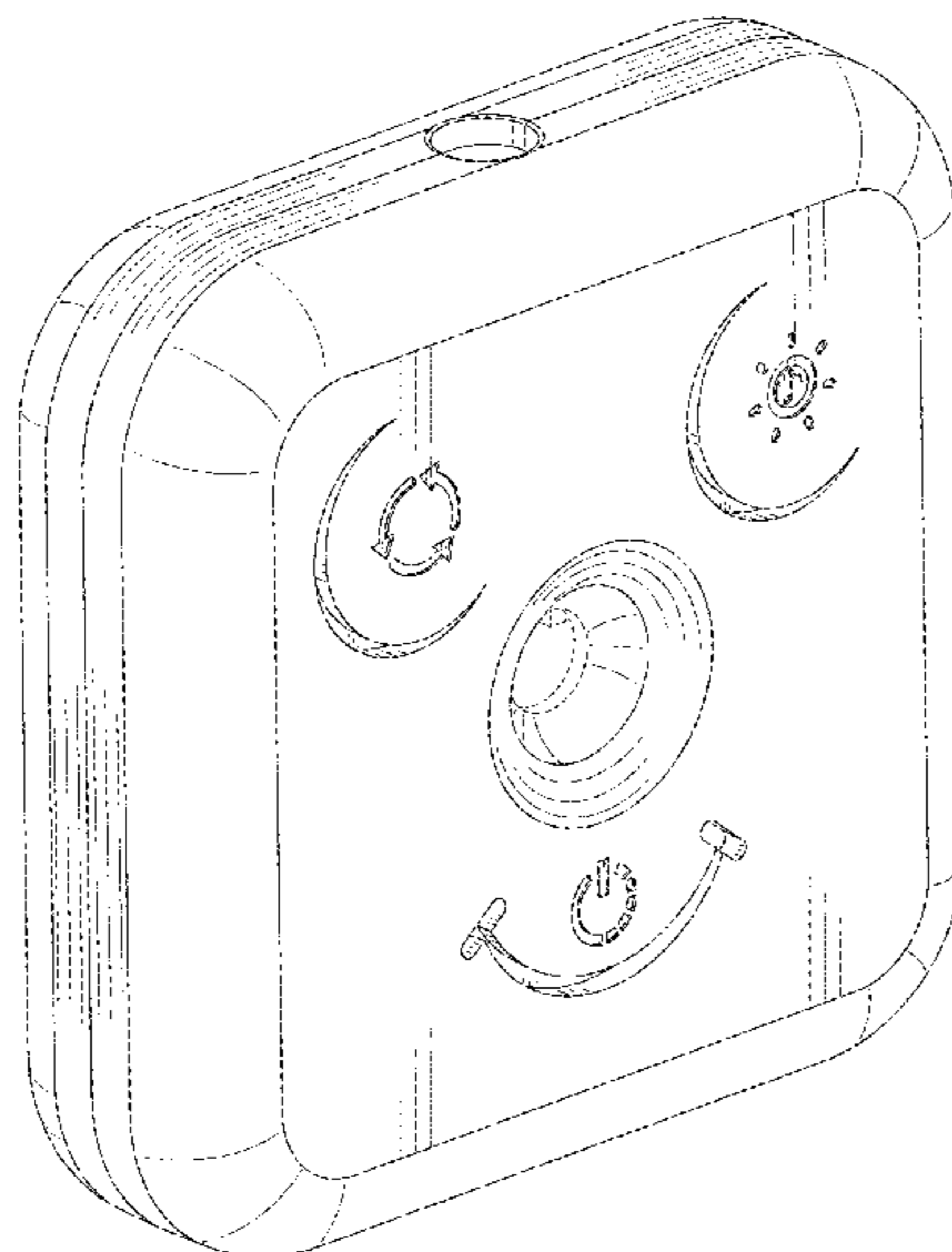
FIG. 7 is a bottom plan view thereof;

FIG. 8 is another perspective view thereof; and,

FIG. 9 is an enlarged view of a portion of FIG. 8.

The evenly-broken lines where present illustrate portions of the LED controller that form no part of the claimed design.

1 Claim, 9 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D802,650	S *	11/2017	Hoshi	.....	D16/237
D824,368	S *	7/2018	Kacin	.....	D14/218
D834,560	S *	11/2018	Hardi	.....	D14/218
D854,518	S *	7/2019	Zhang	.....	D14/218
D865,718	S *	11/2019	Russo	.....	D14/218
D867,343	S *	11/2019	Afshar Bakooshli	.....	D14/218
D900,789	S *	11/2020	Chen	.....	D14/218
D907,007	S *	1/2021	Chen	.....	D14/218
D911,295	S *	2/2021	Chen	.....	D13/168
2007/0241929	A1 *	10/2007	Marchetto	.....	H01H 9/0235 340/13.24
2018/0165950	A1 *	6/2018	Yi	.....	G08C 17/02
2019/0123929	A1 *	4/2019	Lee	.....	H04L 12/282

OTHER PUBLICATIONS

Led car emotion sign; retrieved on Aug. 5, 2021; 2 pgs.;<http://www.leadleds.com/products/car-emotion-sign.html>.*

LED Strip Lights KESHU Led Lights; Feb. 17, 2021; 2 pgs.;
<https://www.amazon.com/Bedroom-Bluetooth-Control-Changing-Kitchen/dp/B08XNY4R61>.*

Smiley Face Small TV set Top Box; retrieved on Aug. 5, 2021; 1
pg.;<https://imall.com/product/Smiley-face-Small-24x20x8.5cm-No-punching-TV-set-Top-box-Wall-mounted-bedroom-living-room-router-storage/Home-Garden-Organization-Boxes-Bins/aliexpress.com/33058533750/567-24585208/en>.*

* cited by examiner

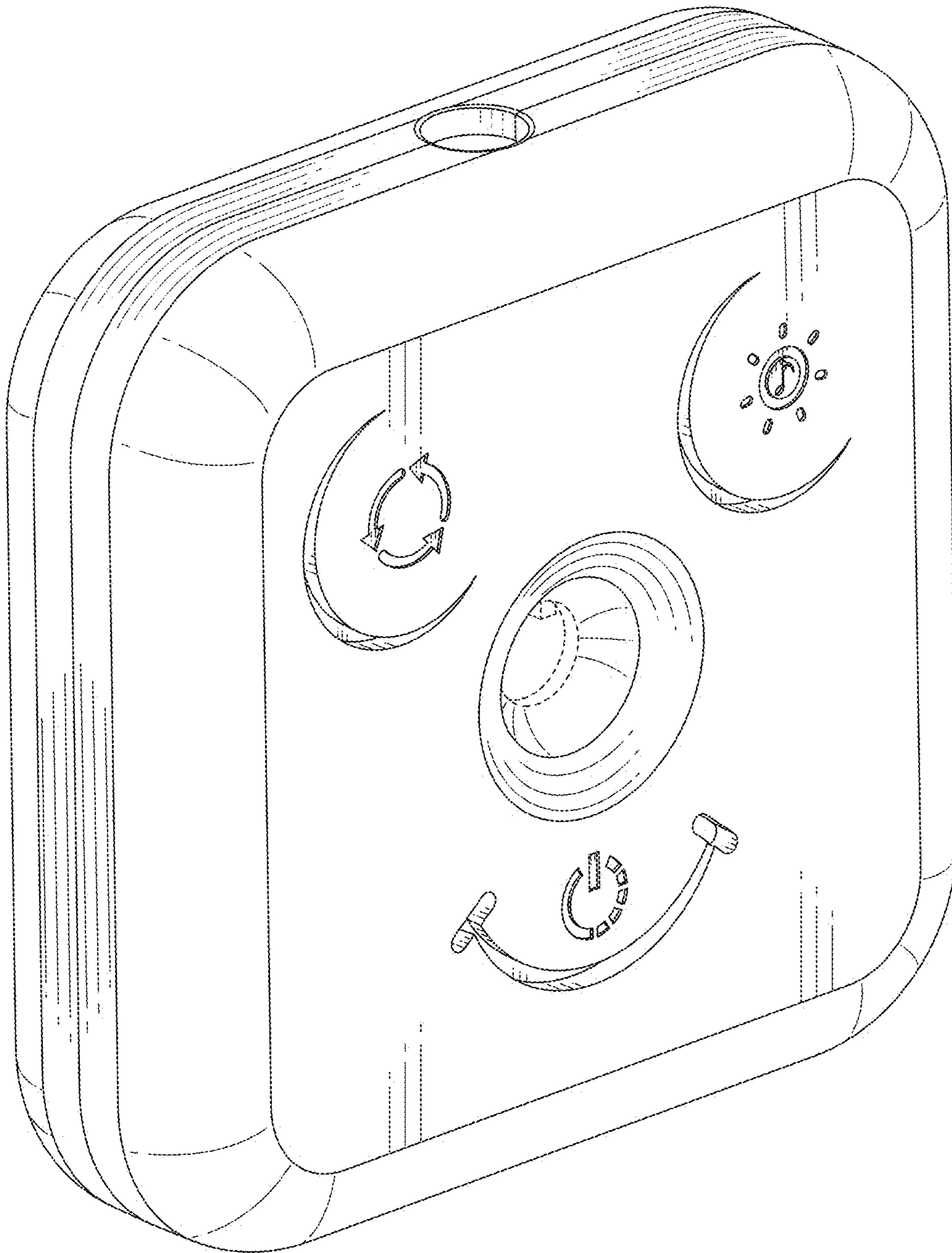


FIG.1

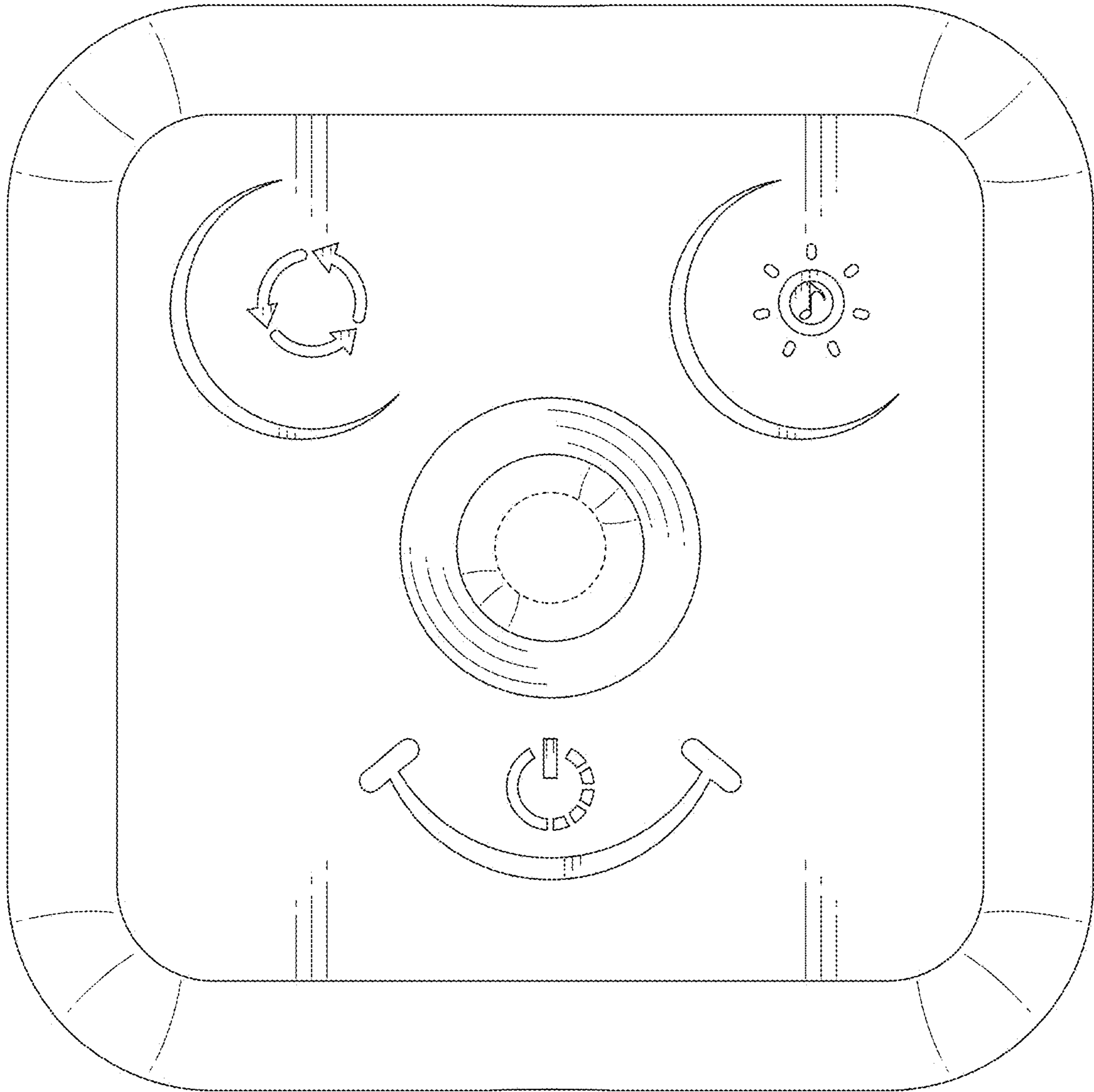


FIG.2

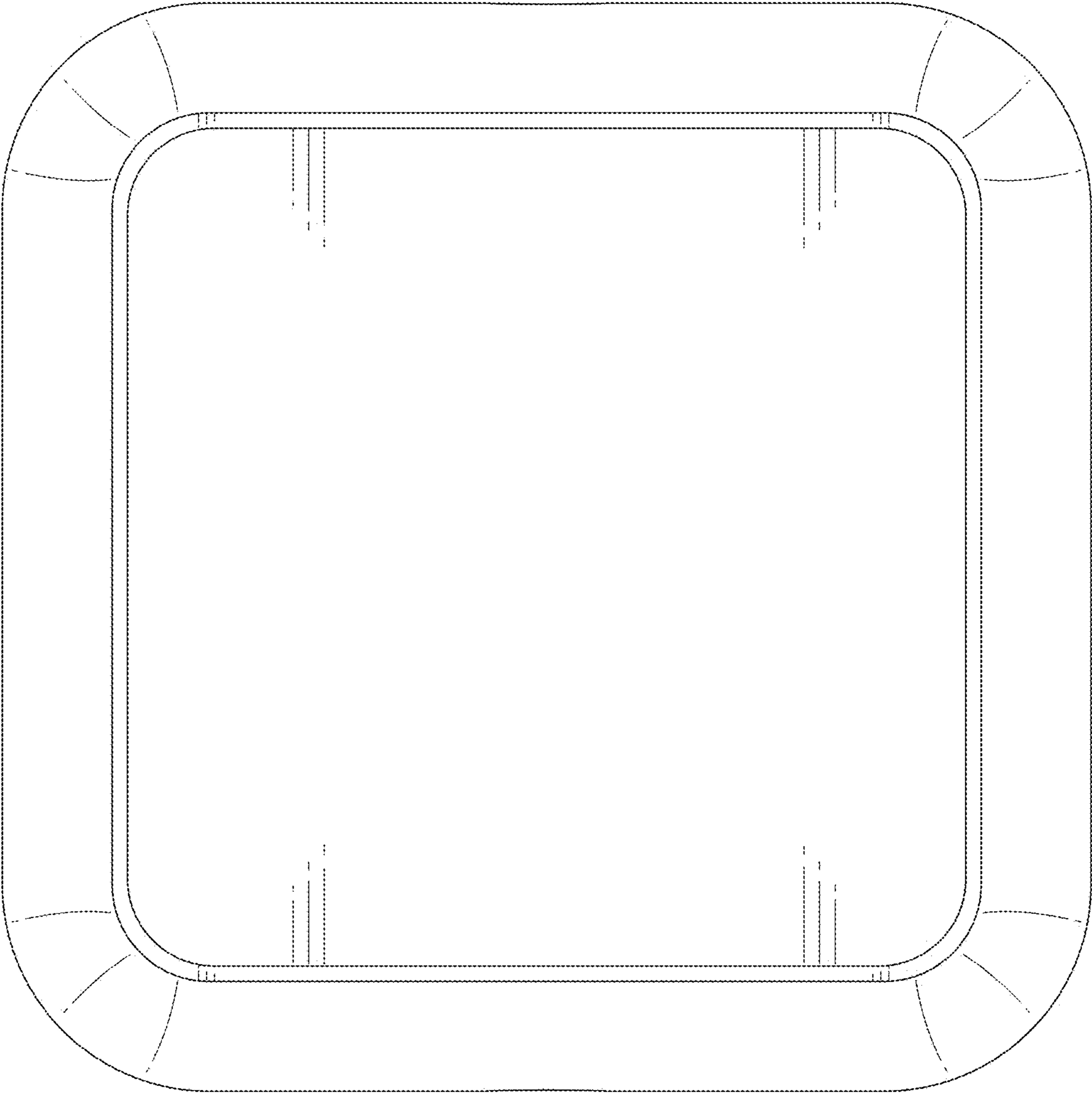


FIG.3

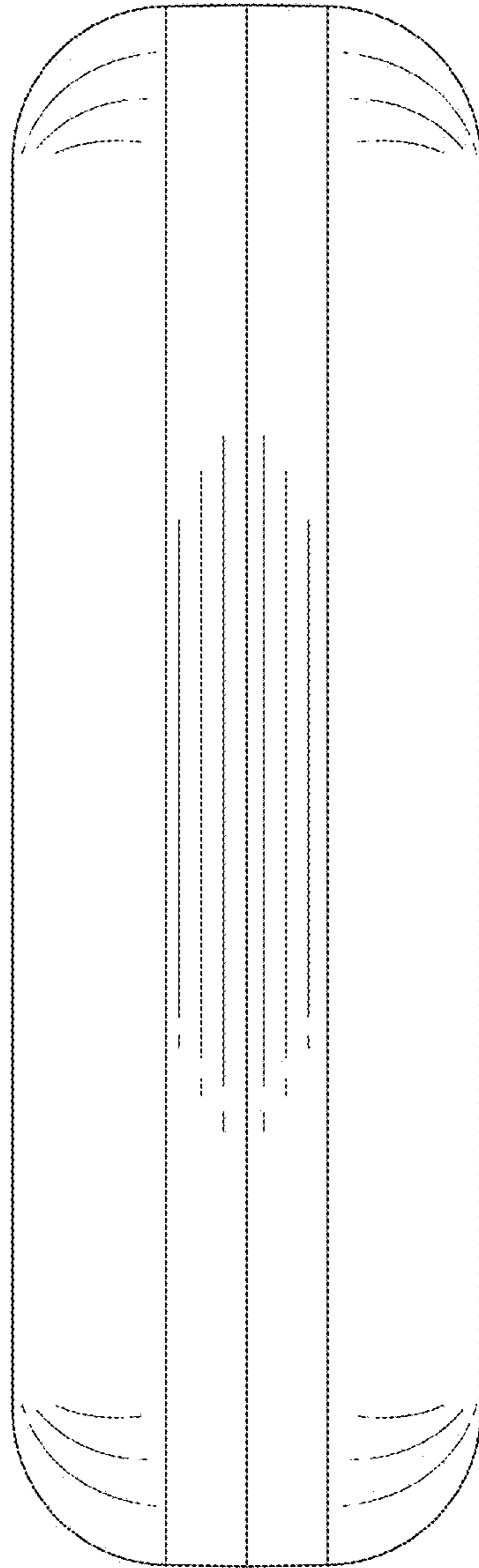


FIG.4

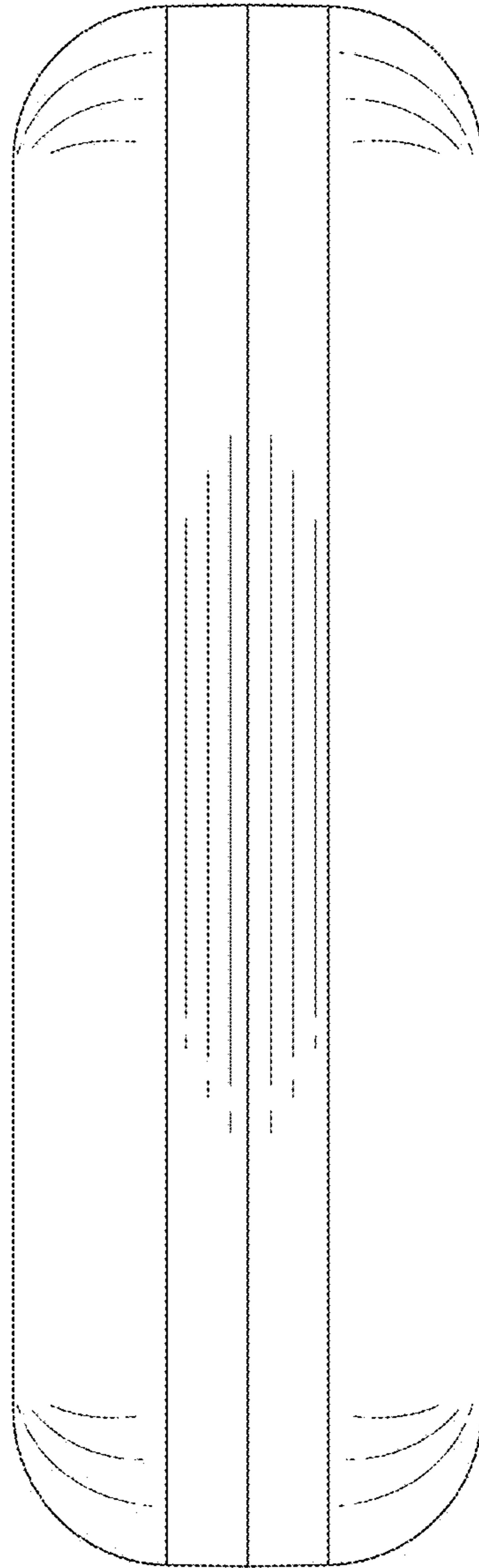


FIG.5

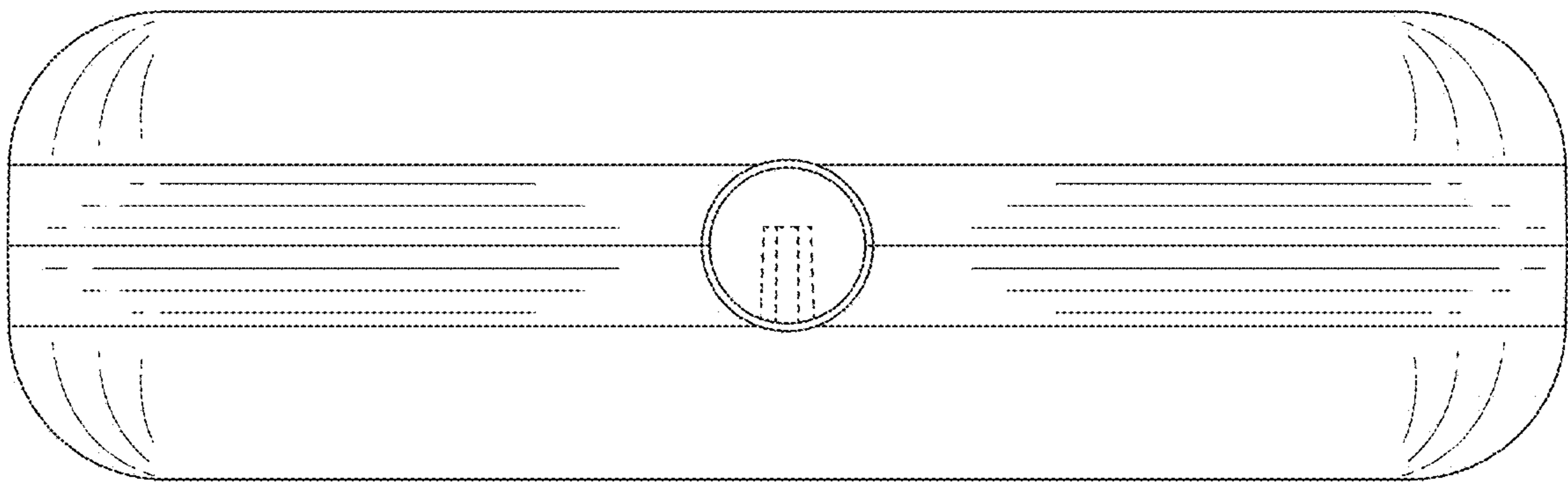


FIG.6

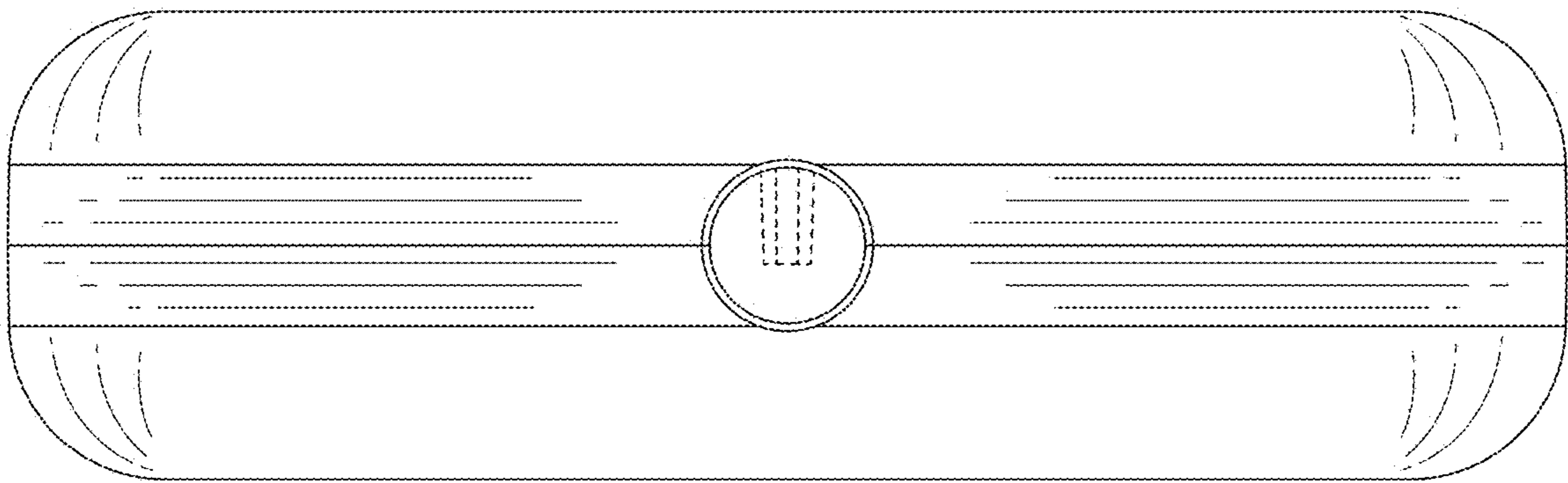


FIG.7

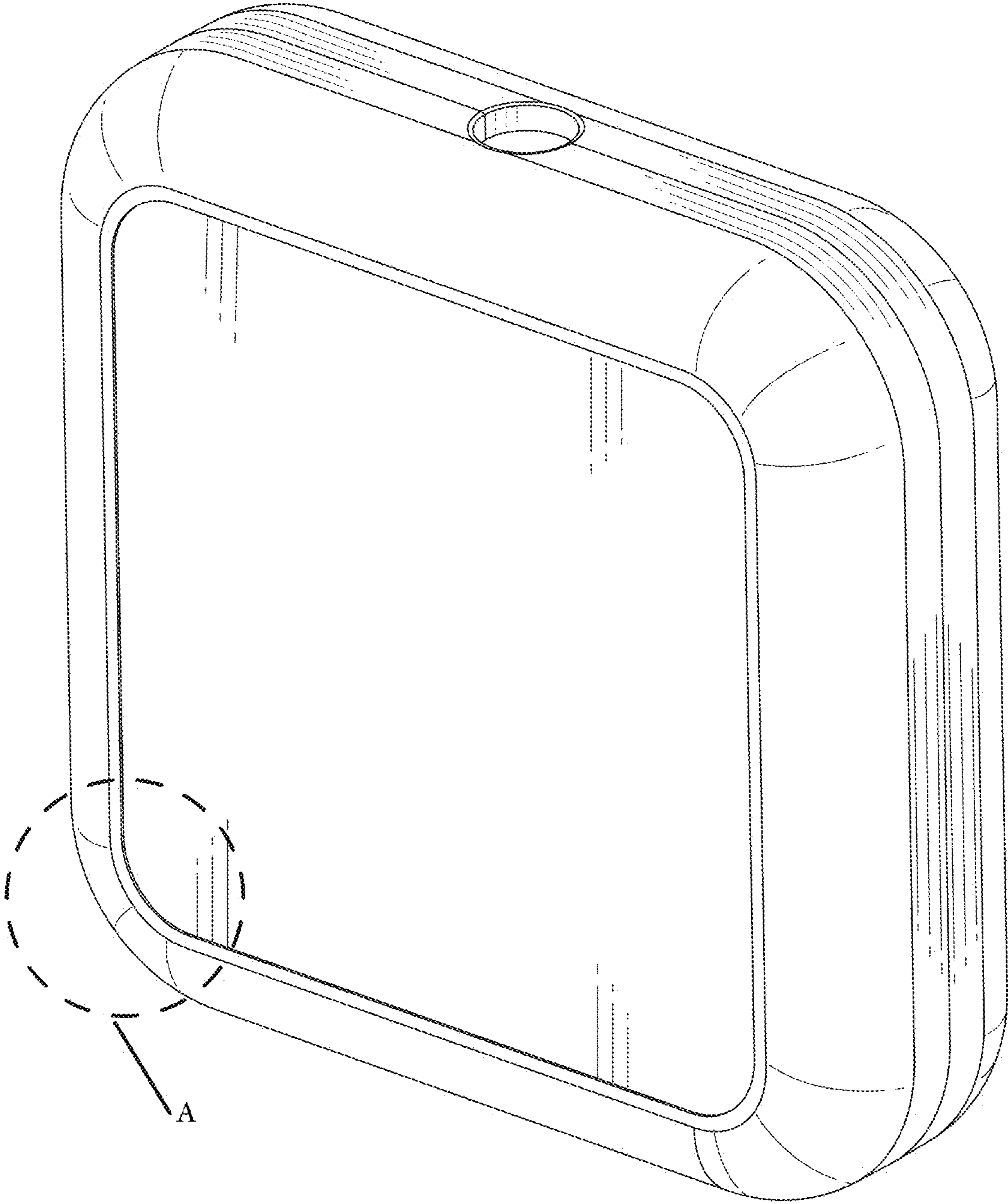


FIG.8

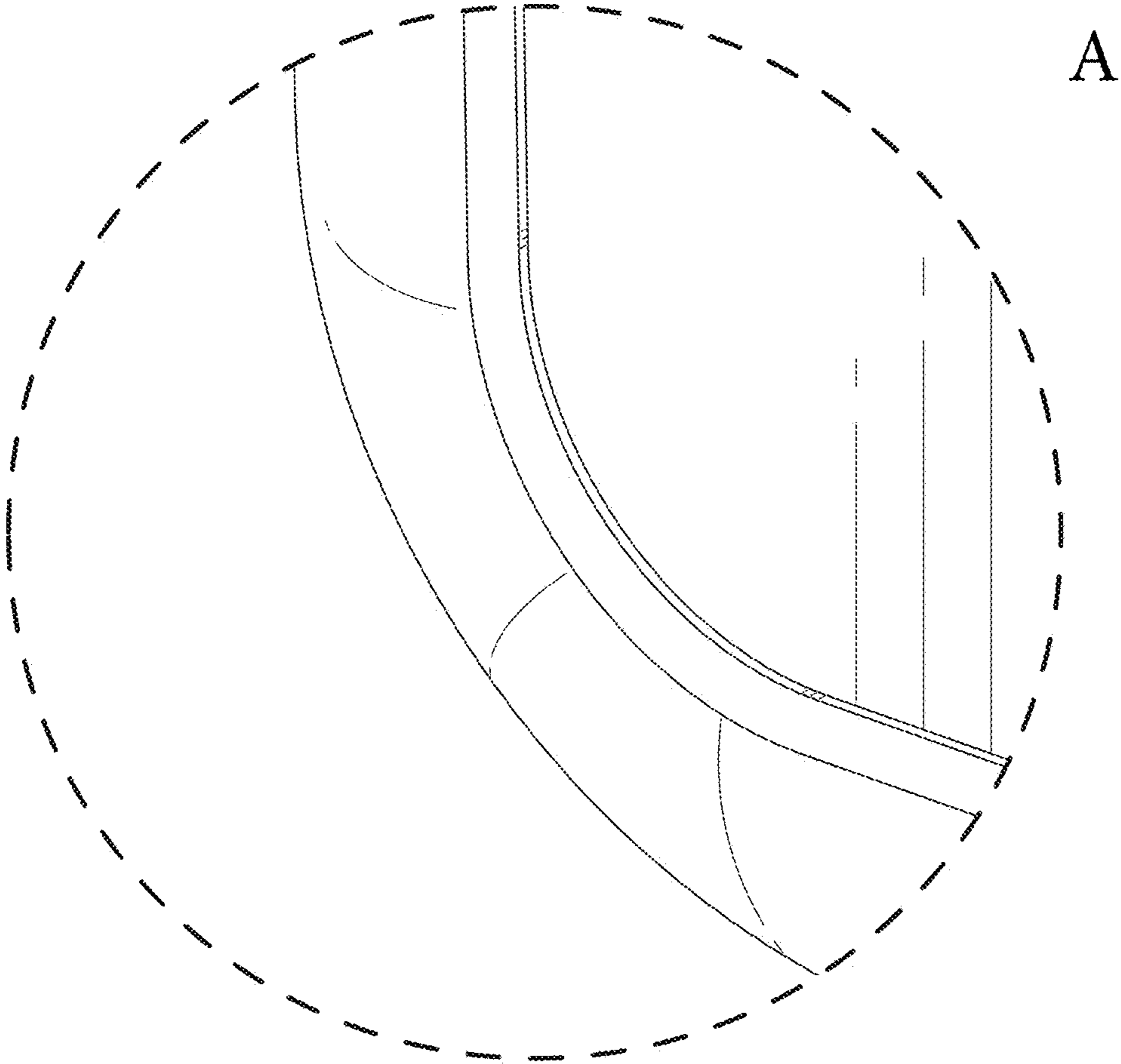


FIG.9