US00D806249S

(12) United States Design Patent

Sakurai et al.

(10) Patent No.: US D806,249 S
(45) Date of Patent: ** Dec. 26, 2017

(54) **RADIATION IMAGE CONVERSION PLATE**

(71) Applicant: **HAMAMATSU PHOTONICS K.K.**, Hamamatsu-shi, Shizuoka (JP)

(72) Inventors: **Jun Sakurai**, Hamamatsu (JP); **Katsuhiko Suzuki**, Hamamatsu (JP); **Ichinobu Shimizu**, Hamamatsu (JP); **Gouji Kamimura**, Hamamatsu (JP)

(73) Assignee: **HAMAMATSU PHOTONICS K.K.**, Hamamatsu-shi, Shizuoka (JP)

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

(21) Appl. No.: **29/530,182**

(22) Filed: **Jun. 15, 2015**

(30) **Foreign Application Priority Data**

Dec. 16, 2014 (JP) 2014-028028
Dec. 16, 2014 (JP) 2014-028029
(Continued)

(51) **LOC (10) Cl.** **24-01**

(52) **U.S. Cl.**
USPC **D24/158**

(58) **Field of Classification Search**
USPC D24/158–161, 186, 89, 206; D16/250; D14/435, 482; D20/22–29; D19/2; D6/582, 583, 616; D32/40–42; D13/182
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D276,820 S * 12/1984 Lill D19/10
D393,001 S * 3/1998 Mayo D19/113
(Continued)

FOREIGN PATENT DOCUMENTS

JP 2000-346997 12/2000
JP 2007-315866 12/2007
(Continued)

Primary Examiner — Anhdao Doan
(74) *Attorney, Agent, or Firm* — Drinker Biddle & Reath LLP

(57) **CLAIM**

The ornamental design for a radiation image conversion plate, as shown and described.

DESCRIPTION

FIG. **1** is a front view of a first embodiment of a radiation image conversion plate of the present invention.
FIG. **2** is a rear view of the radiation image conversion plate of FIG. **1**.
FIG. **3** is a top plan view of the radiation image conversion plate of FIG. **1**.
FIG. **4** is a bottom view of the radiation image conversion plate of FIG. **1**.
FIG. **5** is a right side view of the radiation image conversion plate of FIG. **1**.
FIG. **6** is a left side view of the radiation image conversion plate of FIG. **1**.
FIG. **7** is a perspective view of the radiation image conversion plate of FIG. **1**.
FIG. **8** is a sectional view of the radiation image conversion plate of FIG. **1**, taken along the line **8-8** of FIG. **1**.
FIG. **9** is an enlarged sectional view of the radiation image conversion plate of FIG. **1**, taken along the line **9-9** of FIG. **8**.
FIG. **10** is a front view of a second embodiment of a radiation image conversion plate of the present invention.
FIG. **11** is a rear view of the radiation image conversion plate of FIG. **10**.
FIG. **12** is a top plan view of the radiation image conversion plate of FIG. **10**.
FIG. **13** is a bottom view of the radiation image conversion plate of FIG. **10**.
FIG. **14** is a right side view of the radiation image conversion plate of FIG. **10**.
FIG. **15** is a left side view of the radiation image conversion plate of FIG. **10**.
FIG. **16** is a perspective view of the radiation image conversion plate of FIG. **10**.
(Continued)

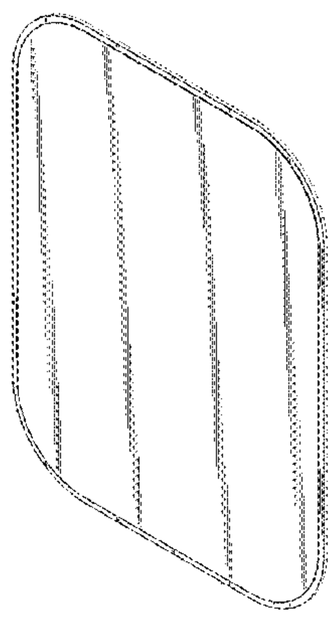

FIG. **17** is a sectional view of the radiation image conversion plate of FIG. **10**, taken along the line **17-17** of FIG. **10**.
FIG. **18** is an enlarged sectional view of the radiation image conversion plate of FIG. **10**, taken along the line **18-18** of FIG. **17**.
FIG. **19** is a front view of a third embodiment of a radiation image conversion plate of the present invention.
FIG. **20** is a rear view of the radiation image conversion plate of FIG. **19**.
FIG. **21** is a top plan view of the radiation image conversion plate of FIG. **19**.
FIG. **22** is a bottom view of the radiation image conversion plate of FIG. **19**.
FIG. **23** is a right side view of the radiation image conversion plate of FIG. **19**.
FIG. **24** is a left side view of the radiation image conversion plate of FIG. **19**.
FIG. **25** is a perspective view of the radiation image conversion plate of FIG. **19**.
FIG. **26** is a sectional view of the radiation image conversion plate of FIG. **19**, taken along the line **26-26** of FIG. **19**; and,
FIG. **27** is an enlarged sectional view of the radiation image conversion plate of FIG. **19**, taken along the line **27-27** of FIG. **26**.
The features shown in dotted lines depict environmental subject matter only and form no part of the claimed design.

1 Claim, 27 Drawing Sheets

(30) **Foreign Application Priority Data**

Dec. 16, 2014 (JP) 2014-028030
Dec. 16, 2014 (JP) 2014-028031

(58) **Field of Classification Search**
CPC G03B 42/04; G03B 42/08; Y10T 428/256; Y10T 428/259; Y10T 156/1044; G01T 1/2018; G01T 1/105; G21K 4/00; G21K 2004/02; G21K 2004/06
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D501,111	S *	1/2005	Lan	D6/582
D545,441	S *	6/2007	Miyachika	D24/189
7,465,932	B1 *	12/2008	Suzuki	G03B 42/02 250/370.09
D584,360	S *	1/2009	Yuengling	D20/19
D636,882	S *	4/2011	Kibele	D24/189
D649,596	S *	11/2011	Hancock	D20/29
D655,256	S *	3/2012	Nishiguchi	D13/182
D685,335	S *	7/2013	Tiner	D13/199
D685,544	S *	7/2013	Clarke	D32/40
8,866,088	B2 *	10/2014	Osawa	C09K 11/628 250/366
D726,184	S *	4/2015	Burton	D14/388
D727,502	S *	4/2015	Sul	D24/158
D740,440	S *	10/2015	Ito	D24/225
2004/0169150	A1 *	9/2004	Nakajo	G03B 42/04 250/484.4
2006/0263521	A1 *	11/2006	Sato	G01T 1/2018 427/248.1
2009/0010396	A1 *	1/2009	Allmer	G03B 42/042 378/169
2009/0261273	A1 *	10/2009	Sakurai	G21K 4/00 250/484.4
2016/0081638	A1 *	3/2016	Ogura	A61B 6/4283 378/185
2016/0081649	A1 *	3/2016	Enomoto	A61B 6/56 378/189
2016/0345920	A1 *	12/2016	Tajima	A61B 6/4283

FOREIGN PATENT DOCUMENTS

JP	2009-080032	4/2009
JP	2014-071031	4/2014

* cited by examiner

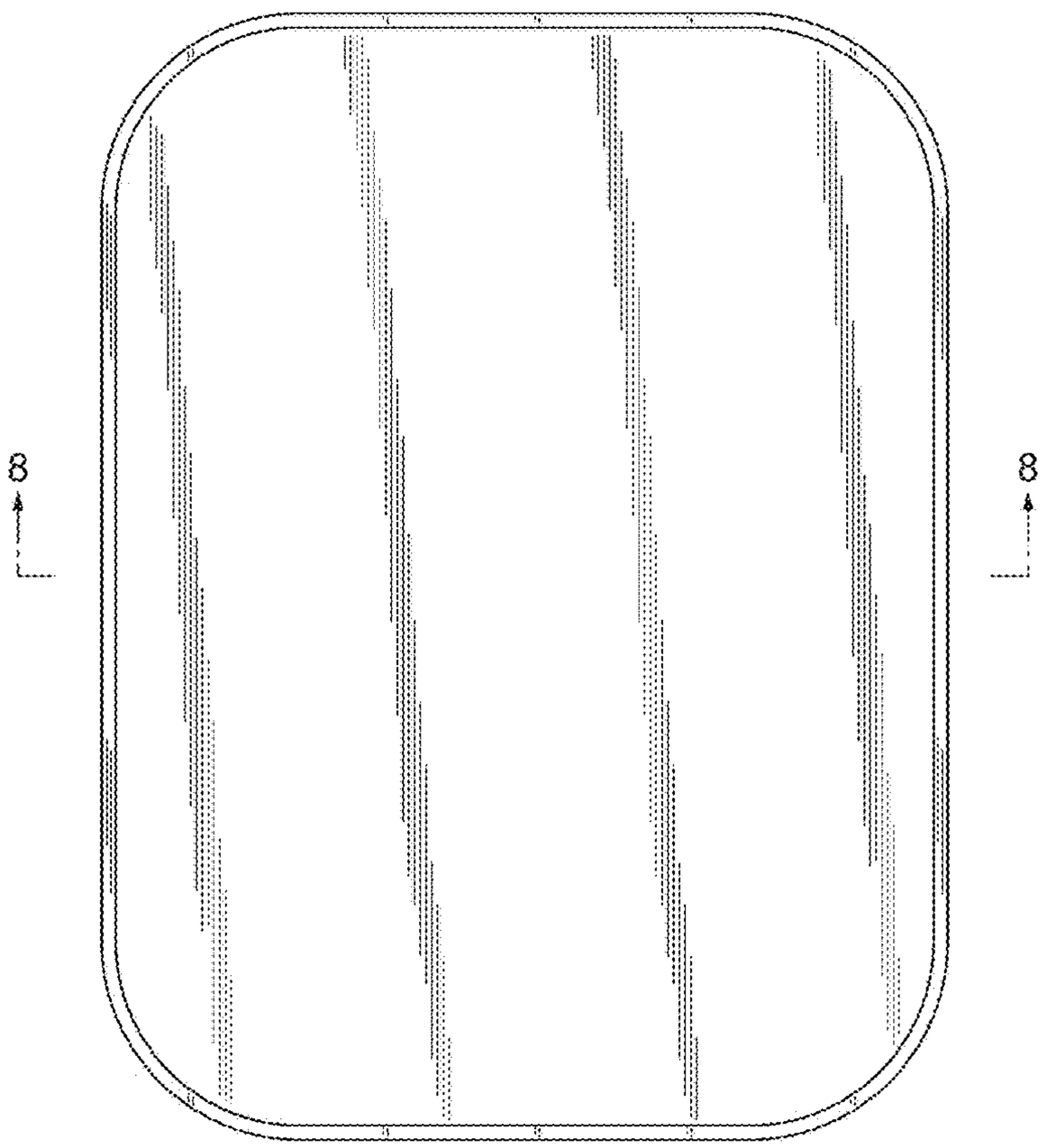

FIG. 1

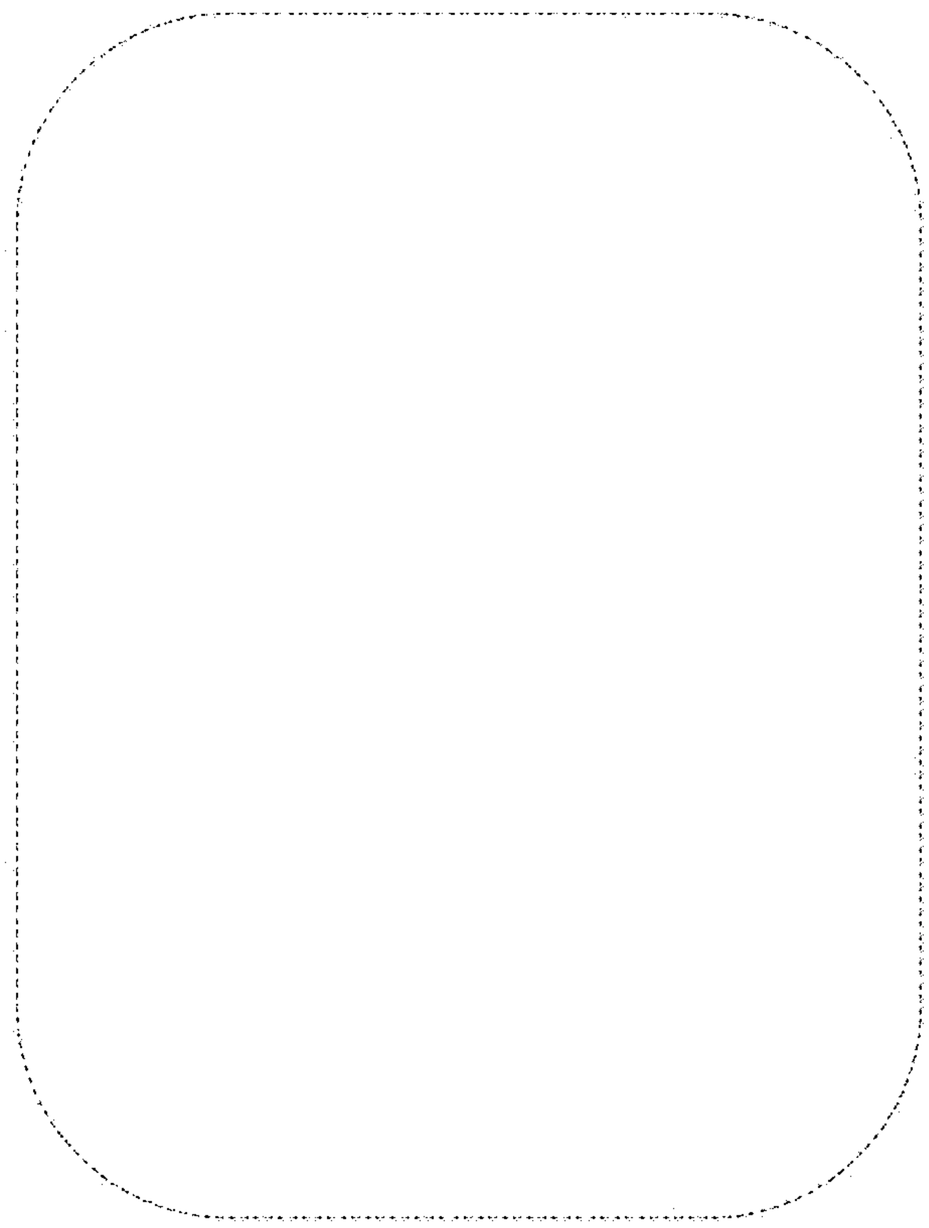

FIG. 2

FIG. 3

FIG. 4

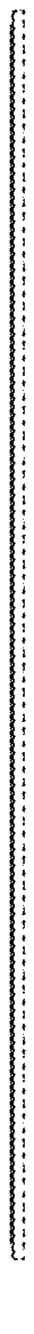

FIG. 5

FIG. 6

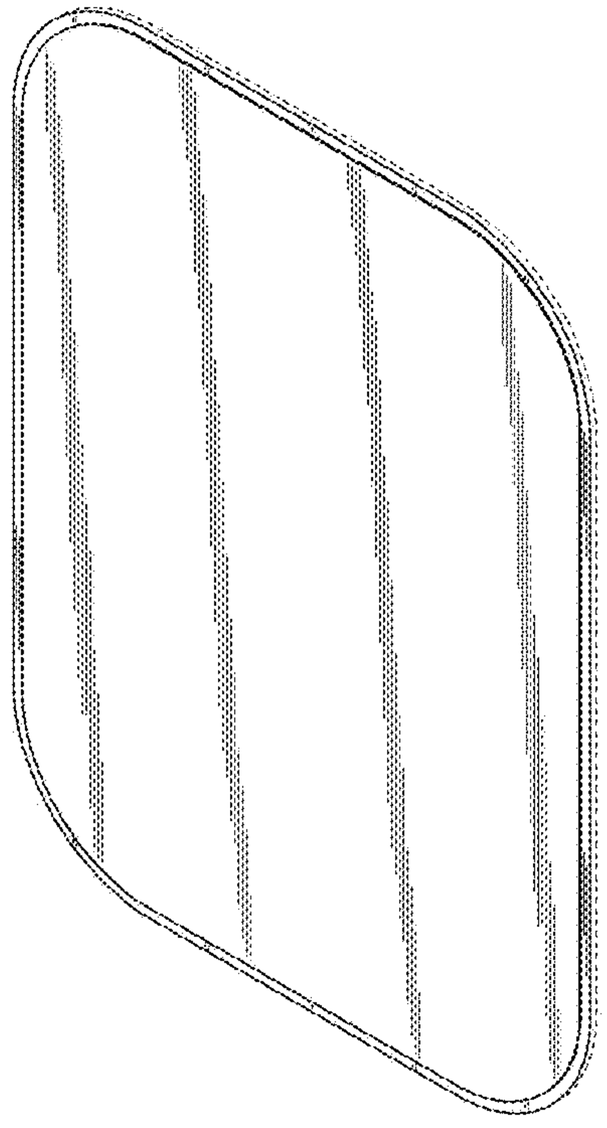

FIG. 7

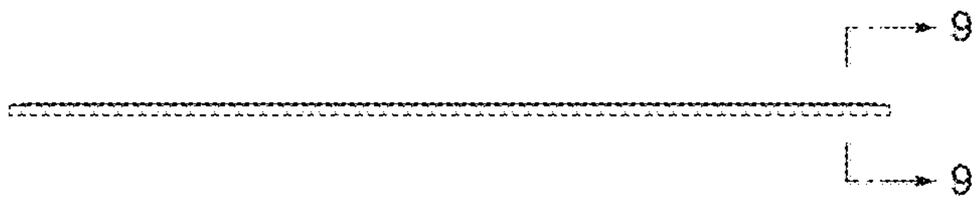

FIG. 8

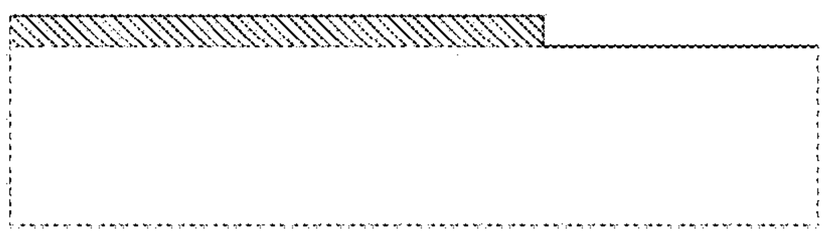

FIG. 9

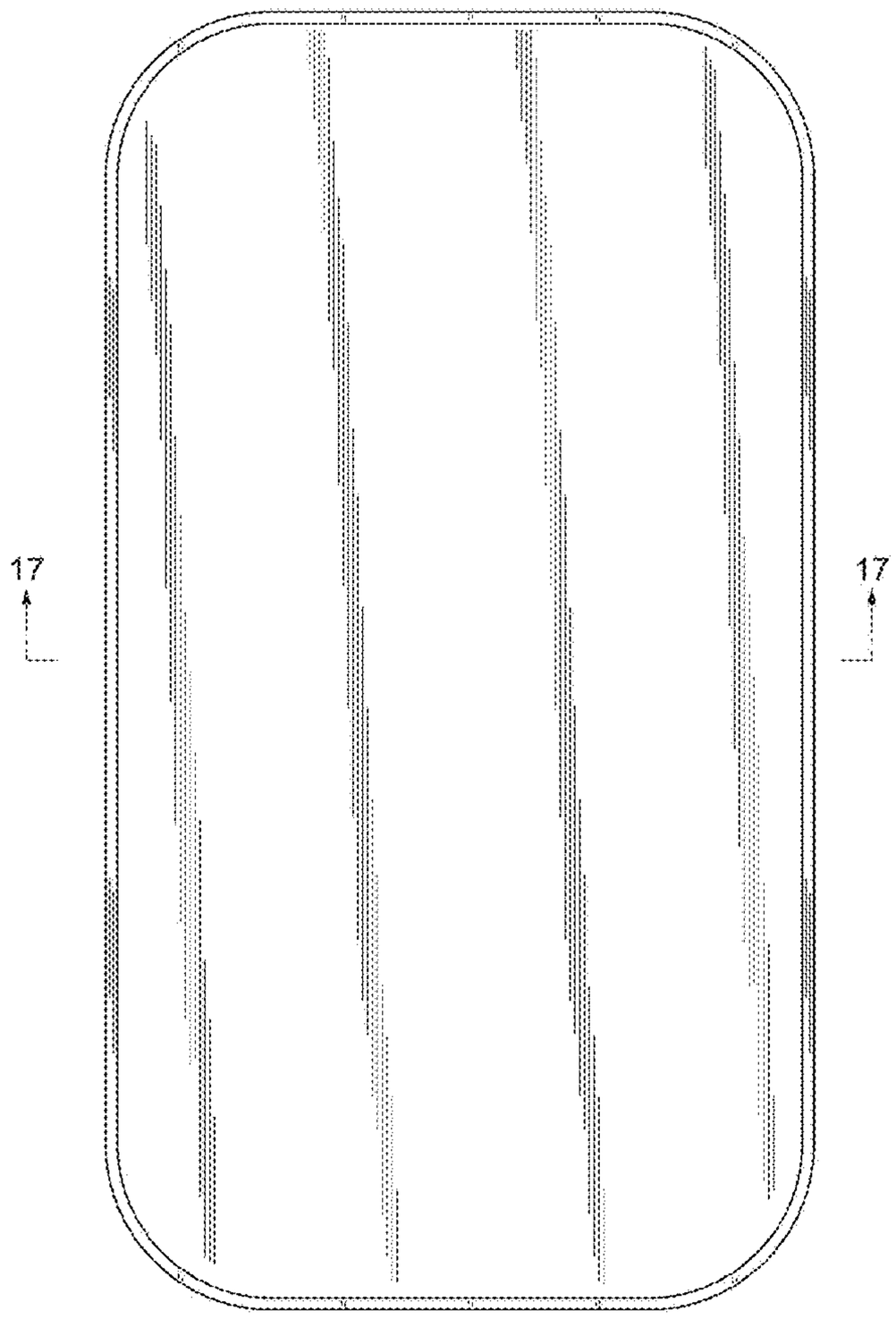

FIG. 10

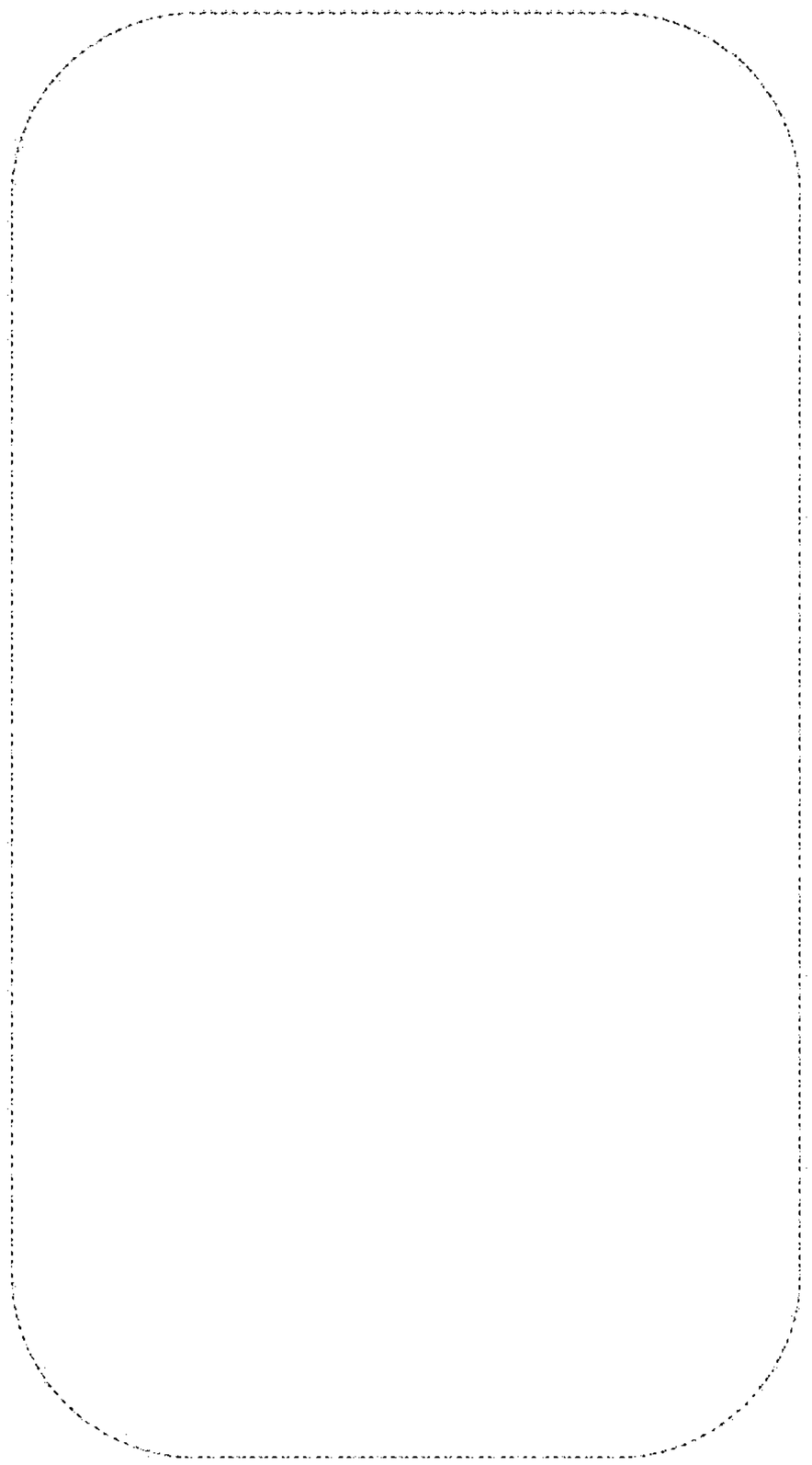

FIG. 11

FIG. 12

FIG. 13

FIG. 14

FIG. 15

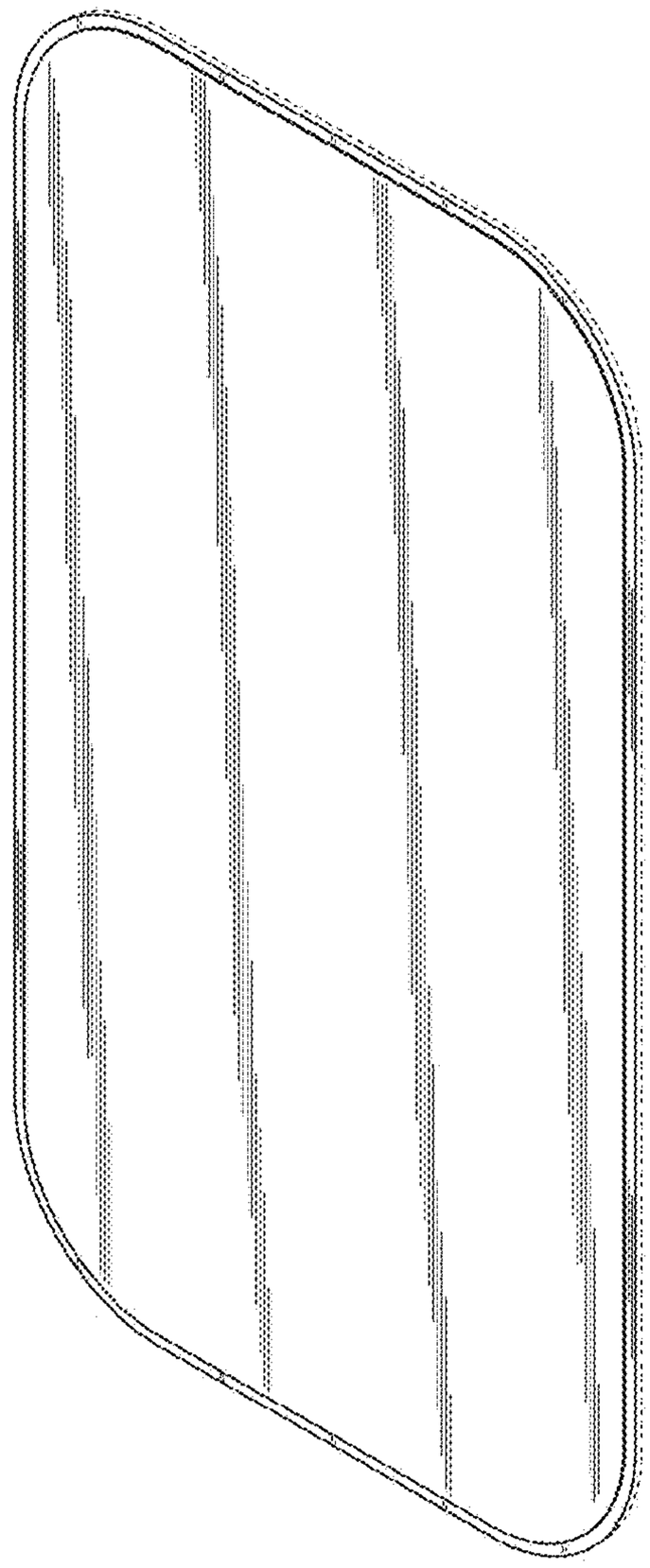

FIG. 16

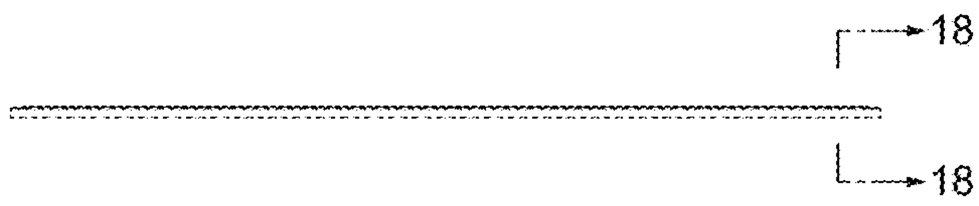

FIG. 17

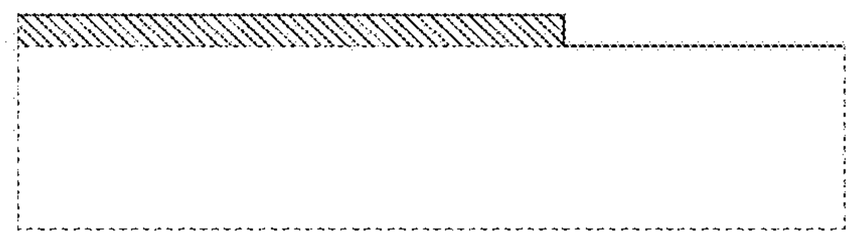

FIG. 18

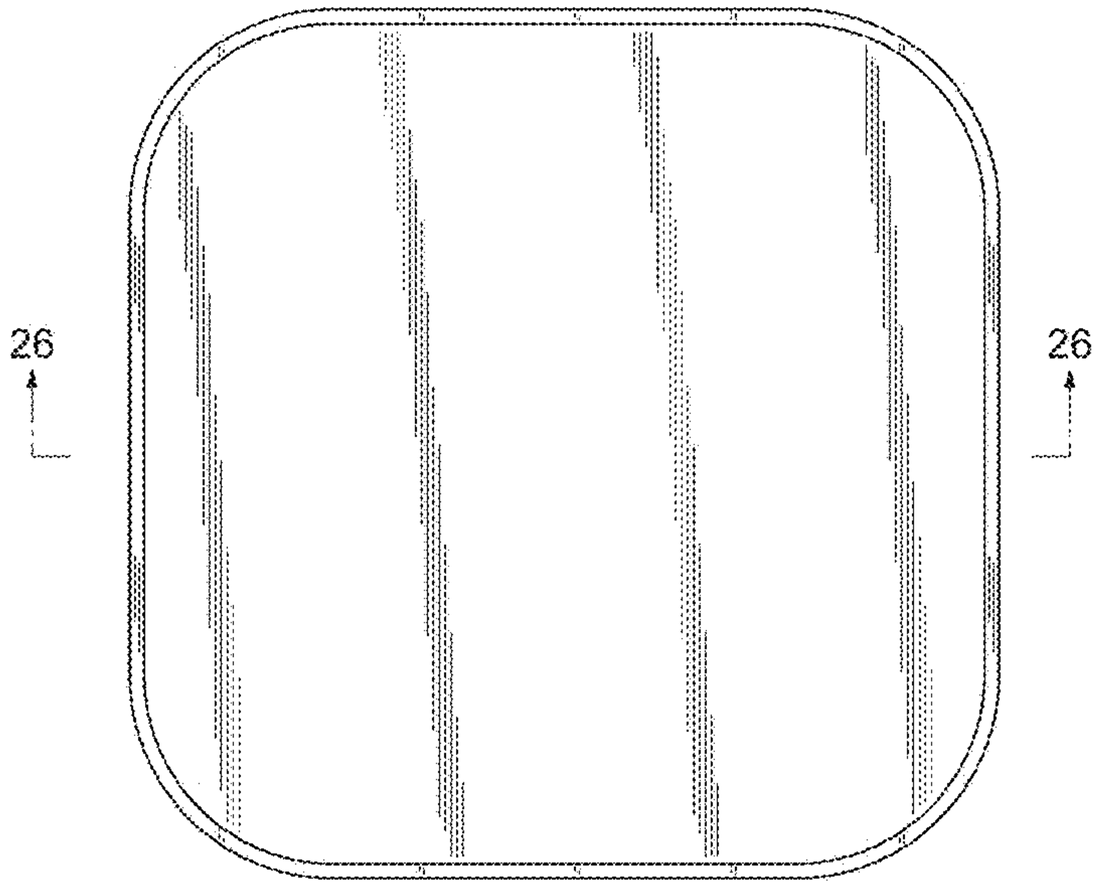

FIG. 19

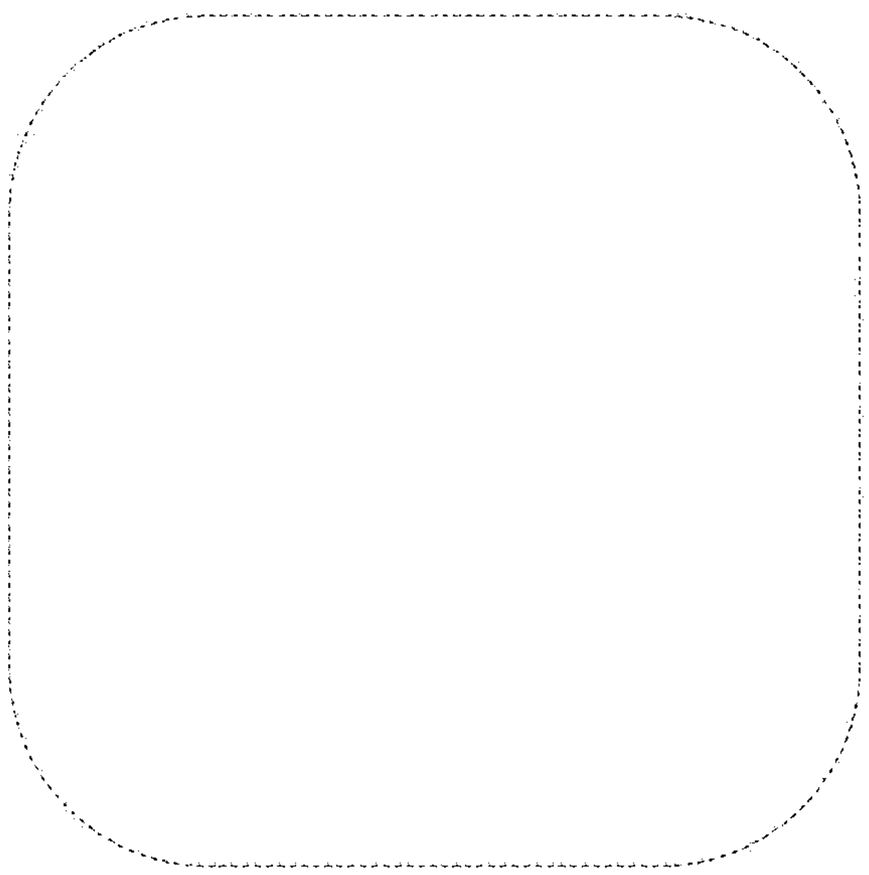

FIG. 20

FIG. 21

FIG. 22

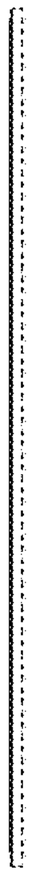

FIG. 23

FIG. 24

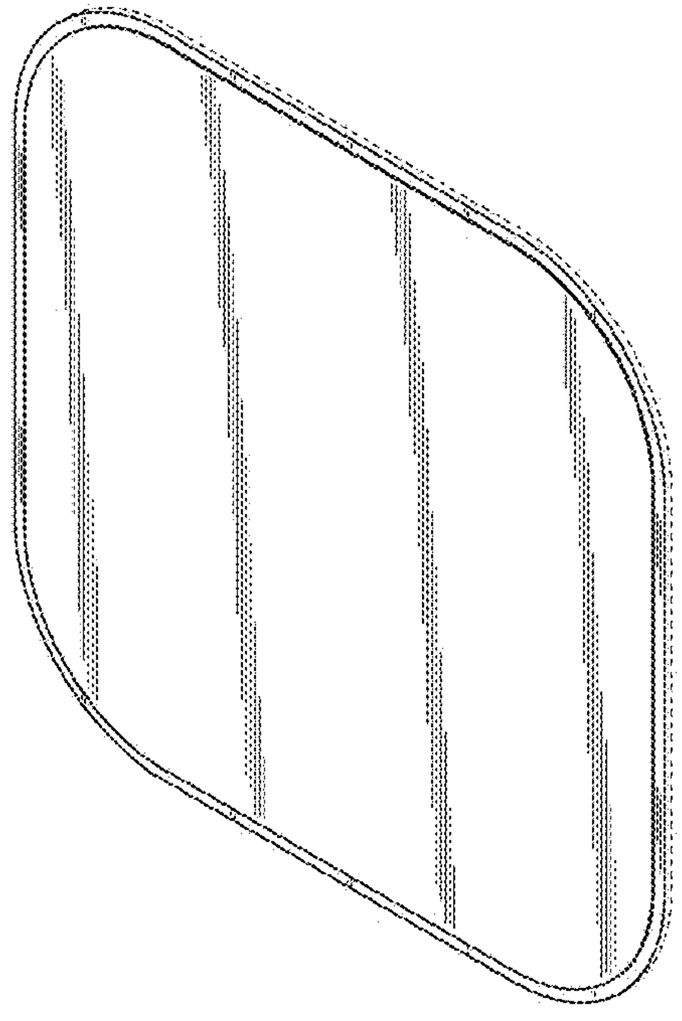

FIG. 25

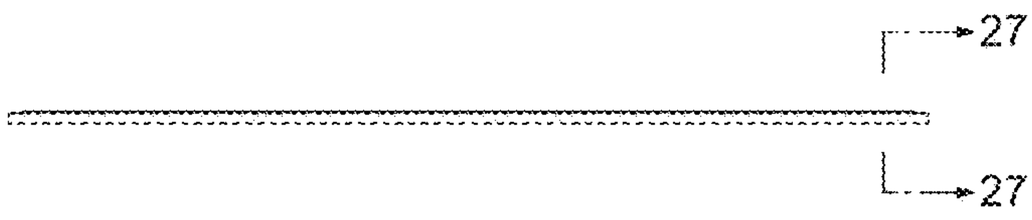

FIG. 26

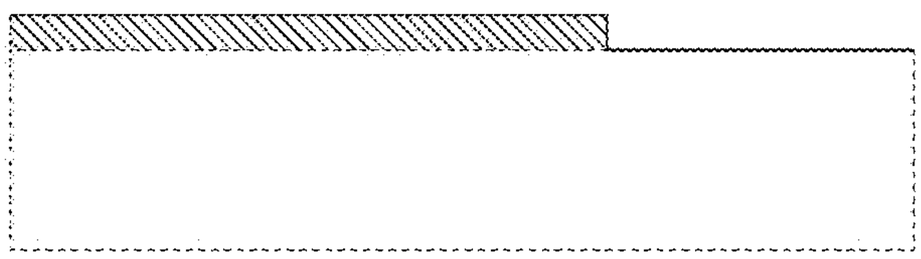

FIG. 27