US00D708595S

(12) United States Design Patent

Kirihara et al.

(10) Patent No.: US D708,595 S
(45) Date of Patent: ** Jul. 8, 2014

(54) **ELECTROLUMINESCENCE MODULE**

(71) Applicant: **Panasonic Corporation**, Osaka (JP)

(72) Inventors: **Masao Kirihara**, Osaka (JP); **Koji Tsuji**, Osaka (JP); **Taisuke Nishimori**, Osaka (JP); **Motonobu Aoki**, Osaka (JP)

(73) Assignee: **Panasonic Corporation**, Osaka (JP)

(**) Term: **14 Years**

(21) Appl. No.: **29/459,745**

(22) Filed: **Jul. 3, 2013**

(30) **Foreign Application Priority Data**

Jan. 11, 2013 (JP) 2013-000400
Jan. 11, 2013 (JP) 2013-000401
Jan. 11, 2013 (JP) 2013-000402

(51) **LOC (10) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/180**

(58) **Field of Classification Search**
CPC ... H01L 27/15; H01L 27/156; H01L 27/3276; H01L 31/02; H01L 33/38; H01L 33/0079; H01L 51/42; H01L 51/52; H01L 51/56; H01L 51/5203; H01L 51/5246; H05B 33/04; H05B 33/12; G09F 13/04; G09F 13/16
USPC D13/180; D26/1; 257/79, 80, 81, 88, 257/89, 95, 98, 99, 100, E33.058; 362/555, 362/800; 313/483, 498, 500
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,910,792 A * 11/1959 Pfaff, Jr. 40/582
3,161,797 A * 12/1964 Butler et al. 313/512
4,138,620 A * 2/1979 Dickson 313/1
4,864,473 A * 9/1989 Tokarz 362/490
D612,958 S * 3/2010 Uemoto et al. D26/24
D631,858 S 2/2011 Kim
D632,657 S 2/2011 Fujihara et al.
D633,055 S 2/2011 Fujihara et al.
D633,451 S 3/2011 Fujihara et al.
D663,865 S * 7/2012 Betsuda et al. D26/1
(Continued)

Primary Examiner — Selina Sikder
(74) *Attorney, Agent, or Firm* — Panasonic Patent Center

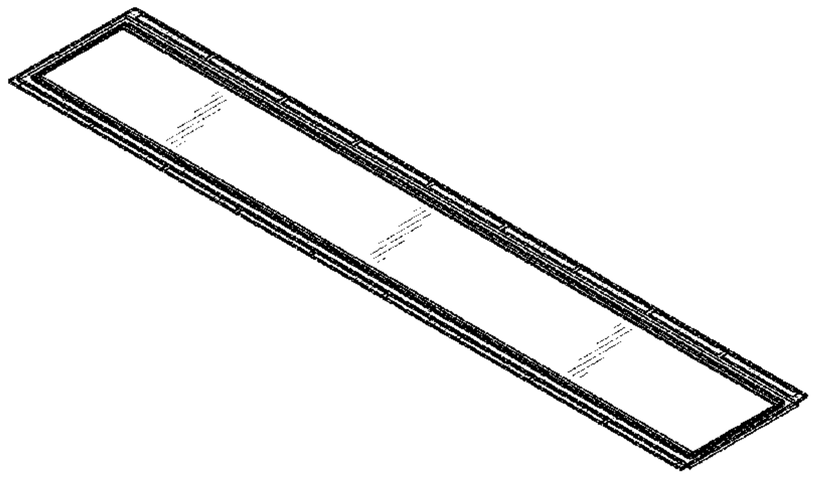
(57) **CLAIM**

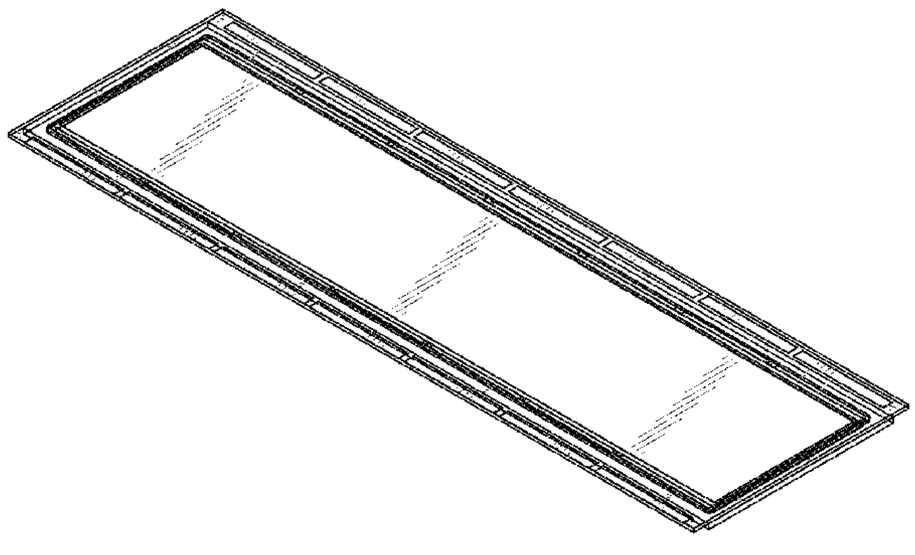
We claim the ornamental design for an electroluminescence module, as shown and described.

DESCRIPTION

FIG. **1** is a top perspective view of a first embodiment of an electroluminescence module of the present invention;
FIG. **2** is a front view thereof;
FIG. **3** is a rear view thereof;
FIG. **4** is a first side view thereof, the second side being a mirror image;
FIG. **5** is a top view thereof, the bottom view being a mirror image;
FIG. **6** is a top perspective view of a second embodiment of an electroluminescence module of the present invention;
FIG. **7** is a front view thereof;
FIG. **8** is a rear view thereof;
FIG. **9** is a first side view thereof, the second side being a mirror image;
FIG. **10** is a top view thereof, the bottom view being a mirror image;
FIG. **11** is a top perspective view of a third embodiment of an electroluminescence module of the present invention;
FIG. **12** is a front view thereof;
FIG. **13** is a rear view thereof;
FIG. **14** is a first side view thereof, the second side being a mirror image; and,
FIG. **15** is a top view thereof, the bottom view being a mirror image.

1 Claim, 15 Drawing Sheets





(56) **References Cited**

U.S. PATENT DOCUMENTS

8,247,809	B2 *	8/2012	Kim	257/40
D684,124	S *	6/2013	Matsuhisa et al.	D13/180
D688,637	S *	8/2013	Matsuhisa et al.	D13/180
8,502,214	B2 *	8/2013	Kim	257/40
D690,277	S *	9/2013	Matsuhisa et al.	D13/180
D694,200	S *	11/2013	Matsuhisa et al.	D13/180
8,638,326	B2 *	1/2014	Ko	345/212
8,643,002	B2 *	2/2014	Ryu et al.	257/40
8,648,382	B2 *	2/2014	Miyai et al.	257/99
2008/0042549	A1 *	2/2008	Song et al.	313/498
2012/0146061	A1 *	6/2012	Nam et al.	257/88
2013/0334504	A1 *	12/2013	Thompson et al.	257/40
2014/0048777	A1 *	2/2014	Lin et al.	257/40

* cited by examiner

FIG. 1

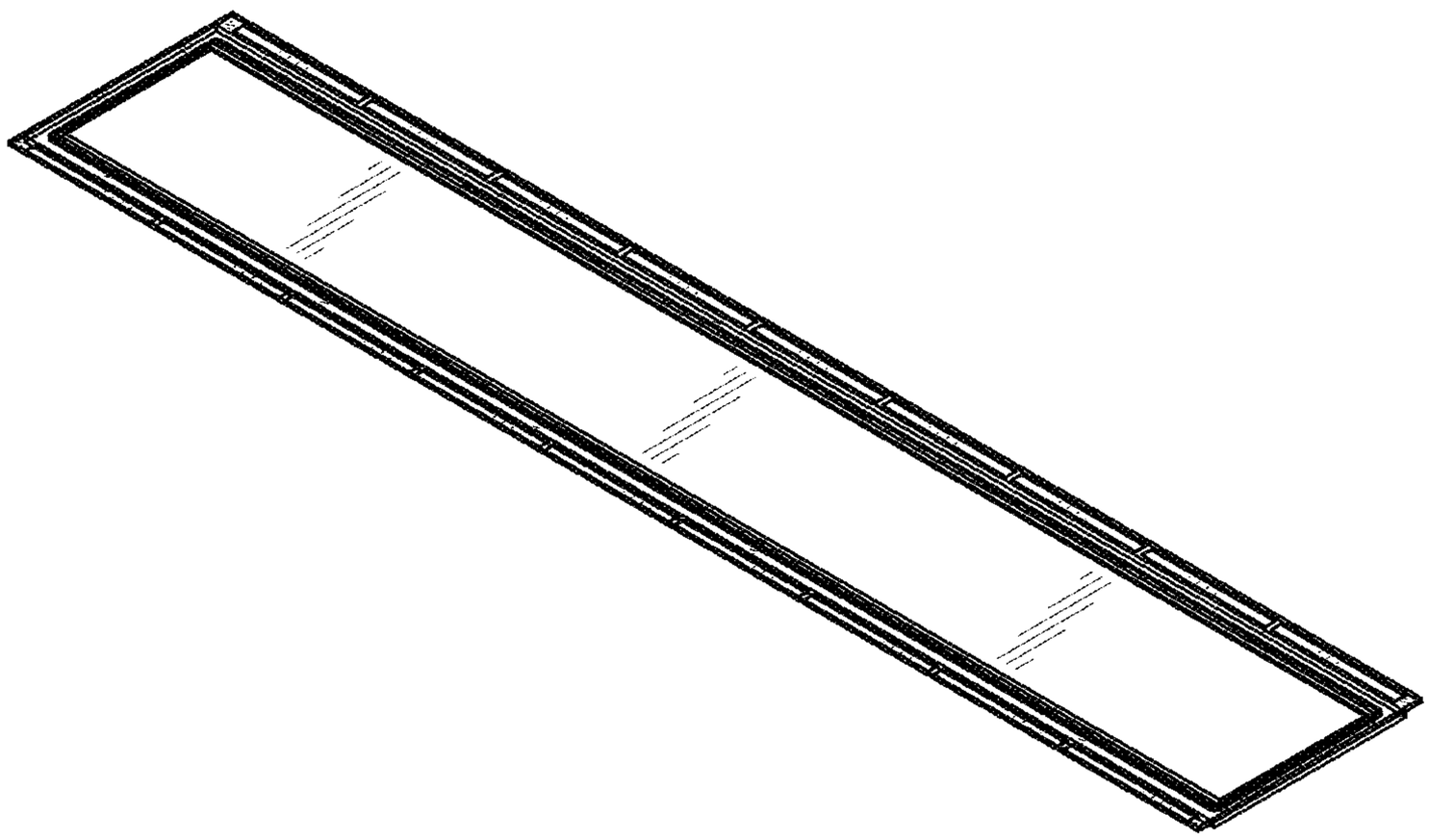


FIG. 2

FIG. 3

FIG. 4

FIG. 5

FIG. 6

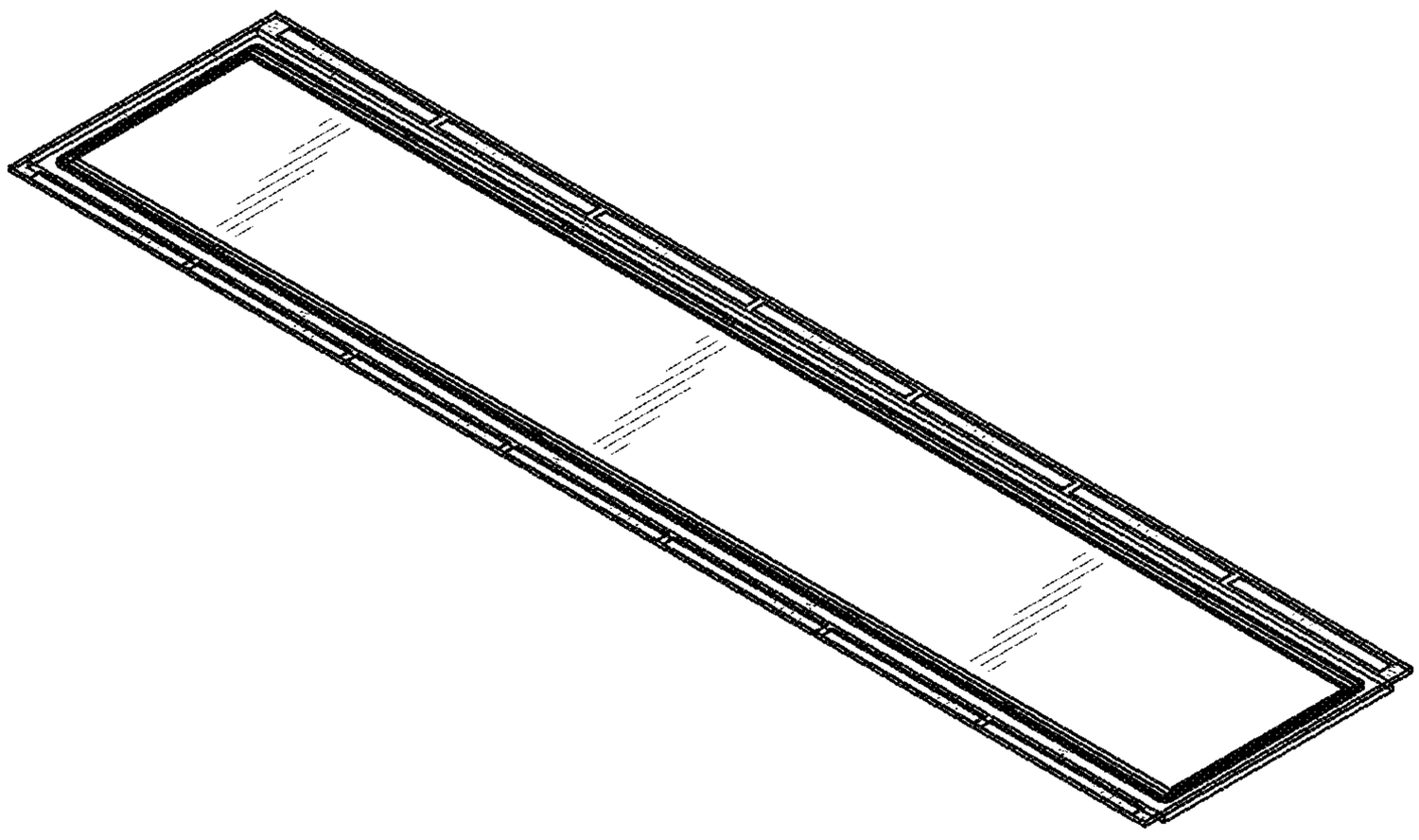


FIG. 7

FIG. 8

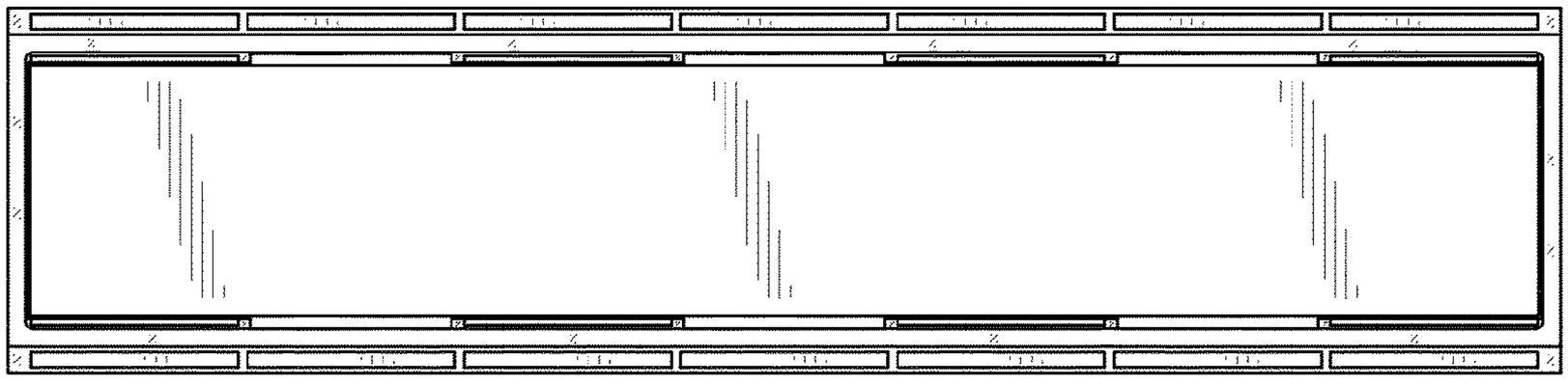


FIG. 9

FIG. 10

FIG. 11

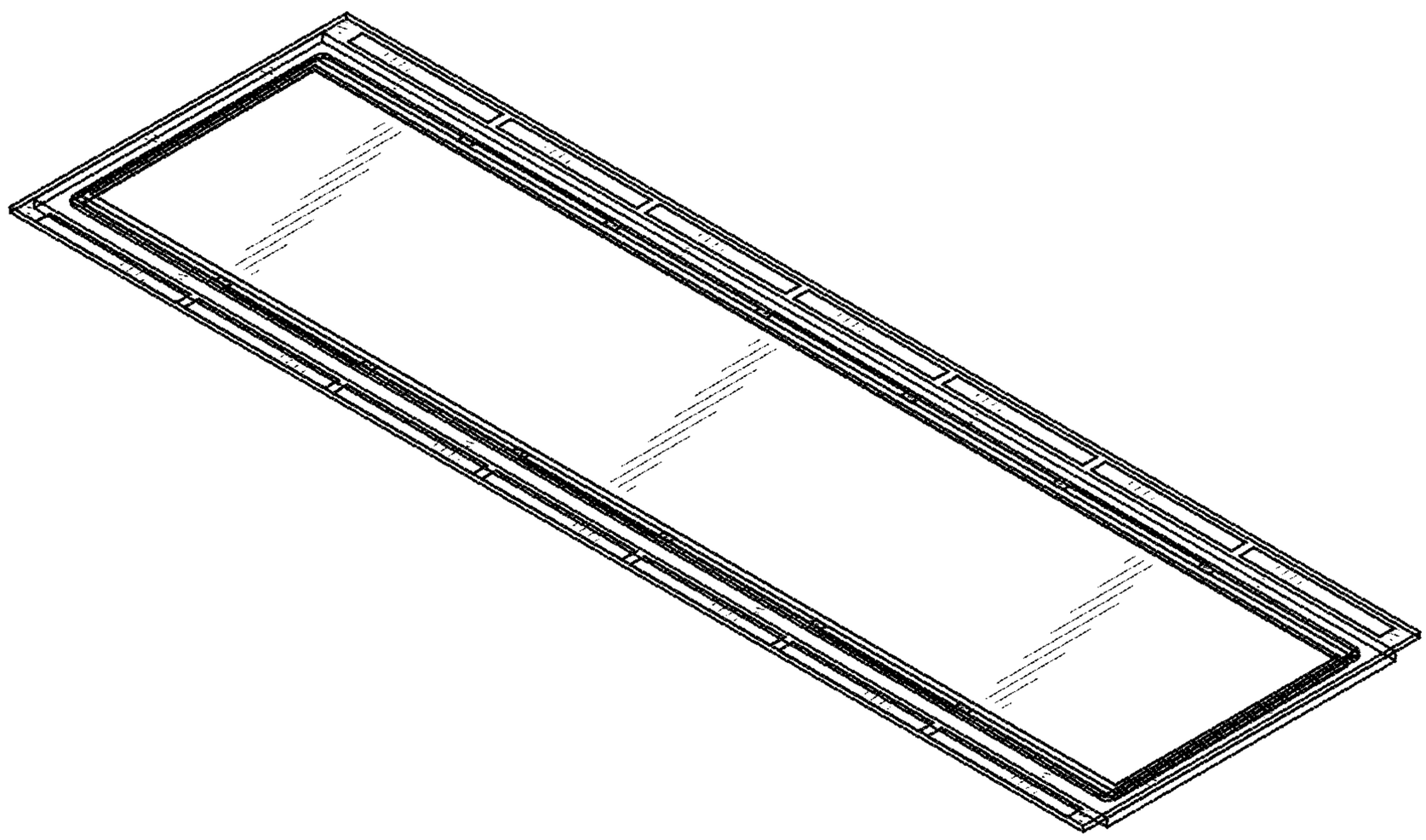


FIG. 12

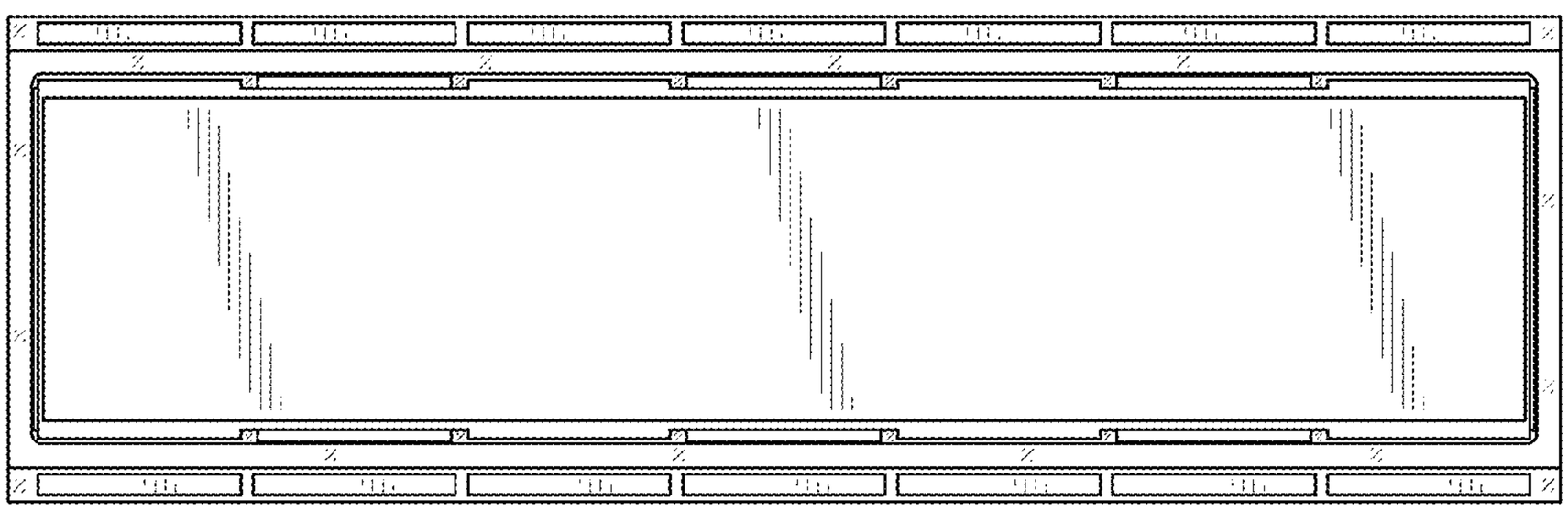


FIG. 13

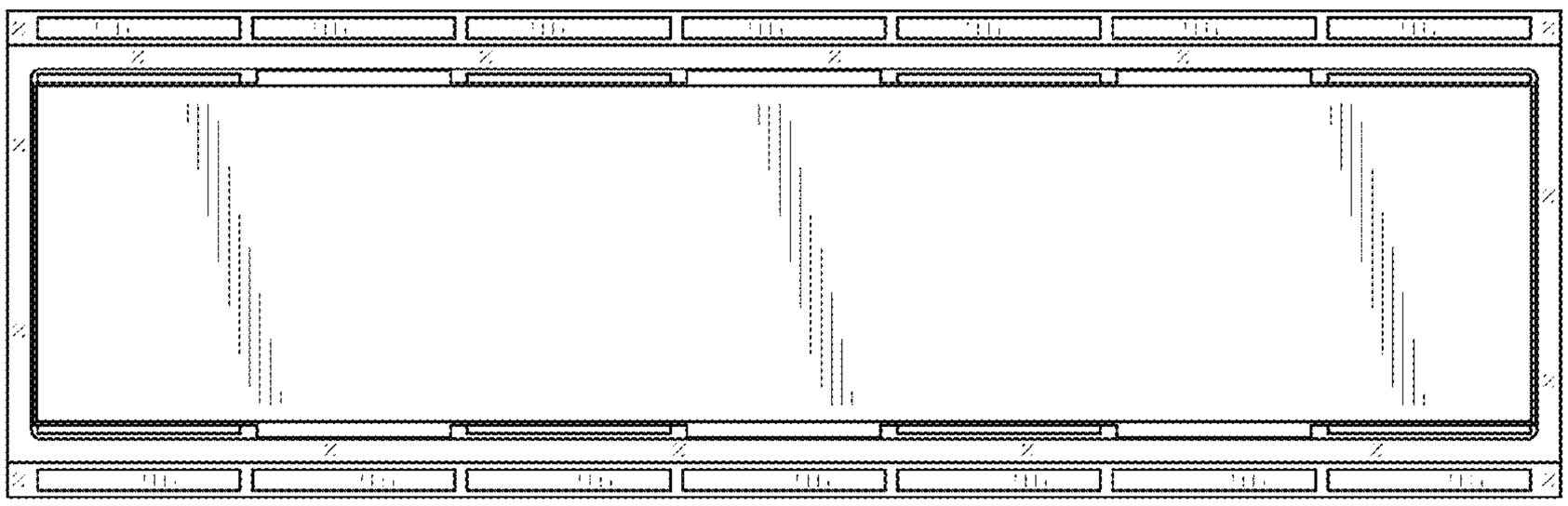


FIG. 14

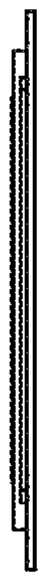


FIG. 15