



US00D763192S

(12) **United States Design Patent**
Tyler et al.

(10) **Patent No.:** **US D763,192 S**
(45) **Date of Patent:** **** Aug. 9, 2016**

(54) **BATTERY CELL SEPARATOR**

(74) *Attorney, Agent, or Firm* — Fletcher Yoder P.C.

(71) Applicant: **Johnson Controls Technology Company**, Holland, MI (US)

(57) **CLAIM**
The ornamental design for a battery cell separator, as shown and described.

(72) Inventors: **Matthew R. Tyler**, Brown Deer, WI (US); **Richard M DeKeuster**, Racine, WI (US); **Dale B. Trester**, Milwaukee, WI (US); **Christopher M. Bonin**, South Milwaukee, WI (US); **Ken Nakayama**, Franklin, WI (US)

DESCRIPTION

(73) Assignee: **Johnson Controls Technology Company**, Holland, MI (US)

FIG. 1 is a front overhead perspective view of a battery cell separator showing our new design;
FIG. 2 is a front elevational view of the battery cell separator of FIG. 1;
FIG. 3 is a rear elevational view of the battery cell separator of FIG. 1;
FIG. 4 is a right side elevational view of the battery cell separator of FIG. 1;
FIG. 5 is a left side elevational view of the battery cell separator of FIG. 1;
FIG. 6 is a top plan view of the battery cell separator of FIG. 1;
FIG. 7 is a bottom plan view of the battery cell separator of FIG. 1;
FIG. 8 is a bottom perspective view of the battery cell separator of FIG. 1;
FIG. 9 is a front overhead perspective view of another battery cell separator showing our new design, and which is a mirror image of the embodiment of the battery cell separator of FIG. 1;
FIG. 10 is a front elevational view of the battery cell separator of FIG. 9;
FIG. 11 is a rear elevational view of the battery cell separator of FIG. 9;
FIG. 12 is a right side elevational view of the battery cell separator of FIG. 9;
FIG. 13 is a left side elevational view of the battery cell separator of FIG. 9;
FIG. 14 is a top plan view of the battery cell separator of FIG. 9;
FIG. 15 is a bottom plan view of the battery cell separator of FIG. 9; and,
FIG. 16 is a bottom perspective view of the battery cell separator of FIG. 9.

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

(21) Appl. No.: **29/518,954**

(22) Filed: **Feb. 27, 2015**

(51) **LOC (10) Cl.** **13-02**

(52) **U.S. Cl.**
USPC **D13/119**

(58) **Field of Classification Search**
USPC D13/103, 118–119, 184, 199; D3/284;
206/703–705, 461–462, 471, 477, 485
CPC . H02G 15/18; H02G 15/1826; H01R 13/516;
H01R 13/518; Y02E 60/12
See application file for complete search history.

(56) **References Cited**

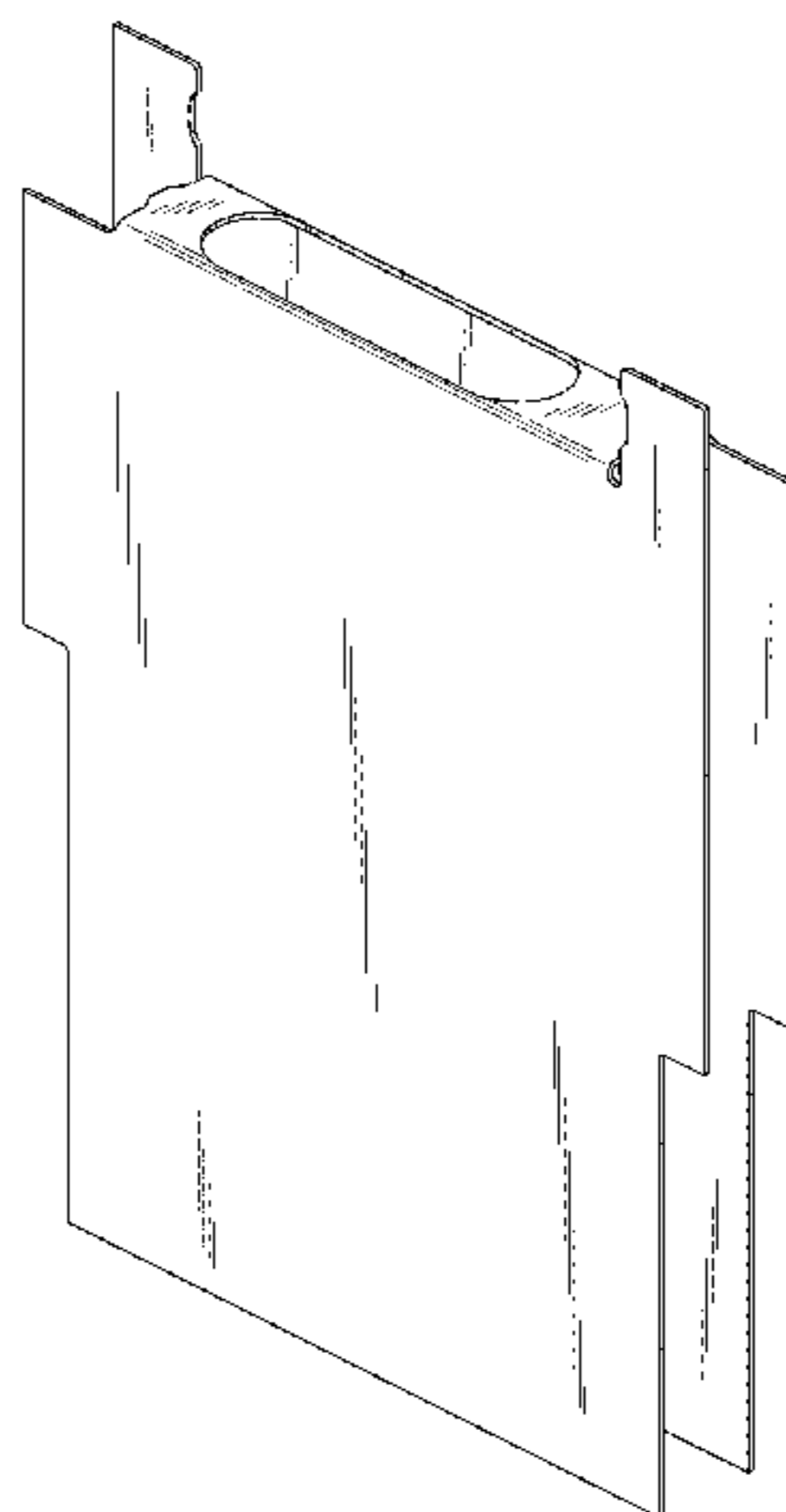
U.S. PATENT DOCUMENTS

D489,684 S *	5/2004	Takeshima	.....	D13/119
D522,965 S *	6/2006	Nakamaru	.....	D13/119
7,287,648 B2 *	10/2007	Foreman	.....	B65D 21/0204 206/462
D575,735 S *	8/2008	Foreman	.....	D13/119
D575,736 S *	8/2008	Foreman	.....	D13/119
D575,737 S *	8/2008	Foreman	.....	D13/119

(Continued)

Primary Examiner — Rosemary K Tarcza
Assistant Examiner — James Thorn, Sr.

1 Claim, 12 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D585,371 S *	1/2009	Foreman	.....	D13/119	D703,618 S *	4/2014	Kodama	.....	D13/154
D585,372 S *	1/2009	Foreman	.....	D13/119	D719,529 S *	12/2014	Hagarty	.....	D13/156
D624,016 S *	9/2010	Seehoff	.....	D13/119	D724,525 S *	3/2015	Lee	.....	D13/103
D645,827 S *	9/2011	Lee	.....	D13/154	D724,526 S *	3/2015	Lee	.....	D13/103
D669,435 S *	10/2012	Moore	.....	D13/119	D724,527 S *	3/2015	Lee	.....	D13/103
D669,436 S *	10/2012	Moore	.....	D13/119	D726,662 S *	4/2015	Honda	.....	D13/154
D688,630 S *	8/2013	Chapman	.....	D13/154	D729,738 S *	5/2015	Cole	.....	D13/118
D698,737 S *	2/2014	Hagarty	.....	D13/156	D731,187 S *	6/2015	Thompson	.....	D3/315
8,647,762 B2 *	2/2014	Schwab	.....	H01M 2/1077 206/703	9,166,425 B1 *	10/2015	White	.....	H02J 7/0042
					2007/0074995 A1 *	4/2007	Weisskopf	.....	B65D 75/368 206/705

* cited by examiner

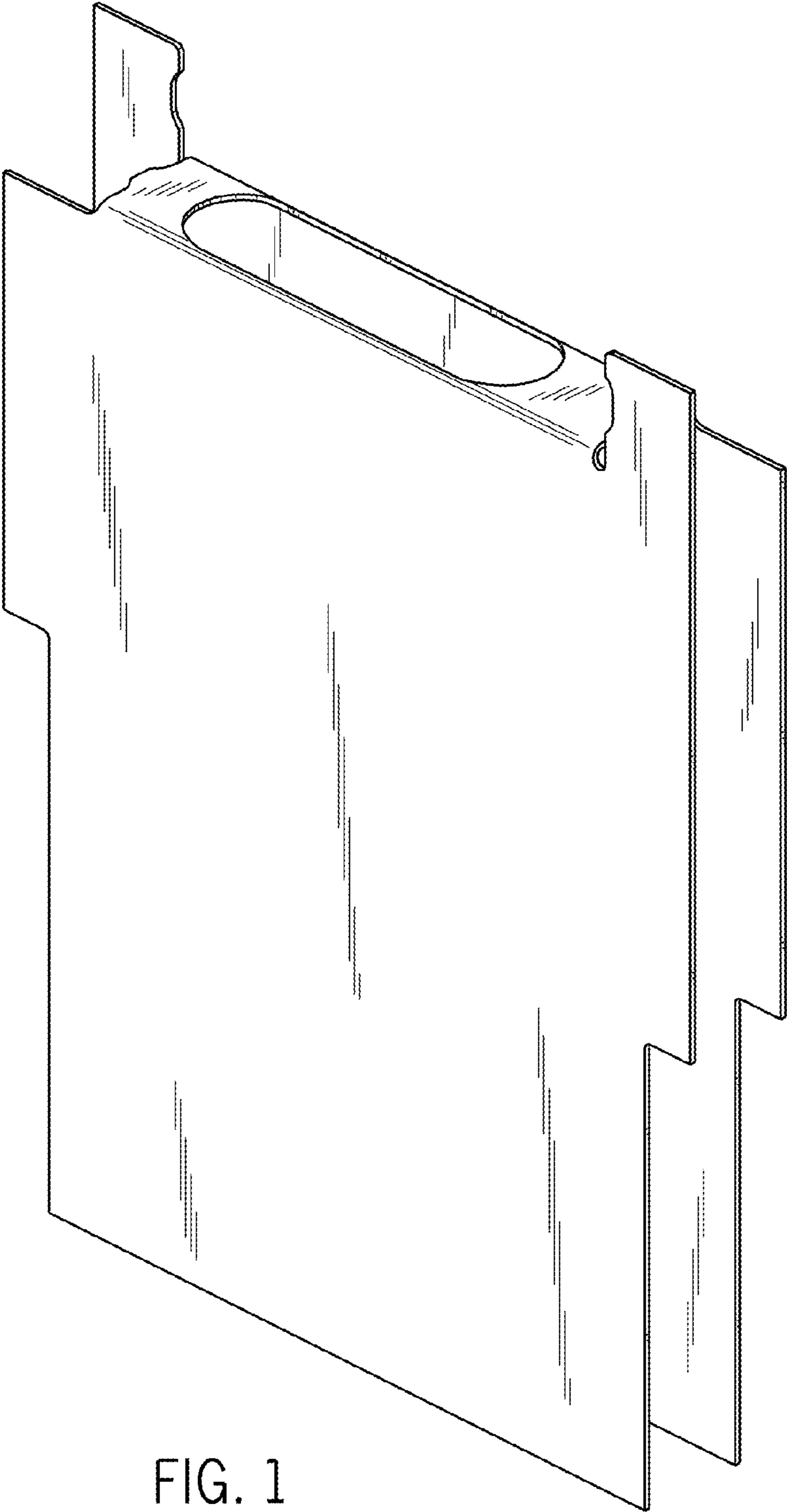


FIG. 1

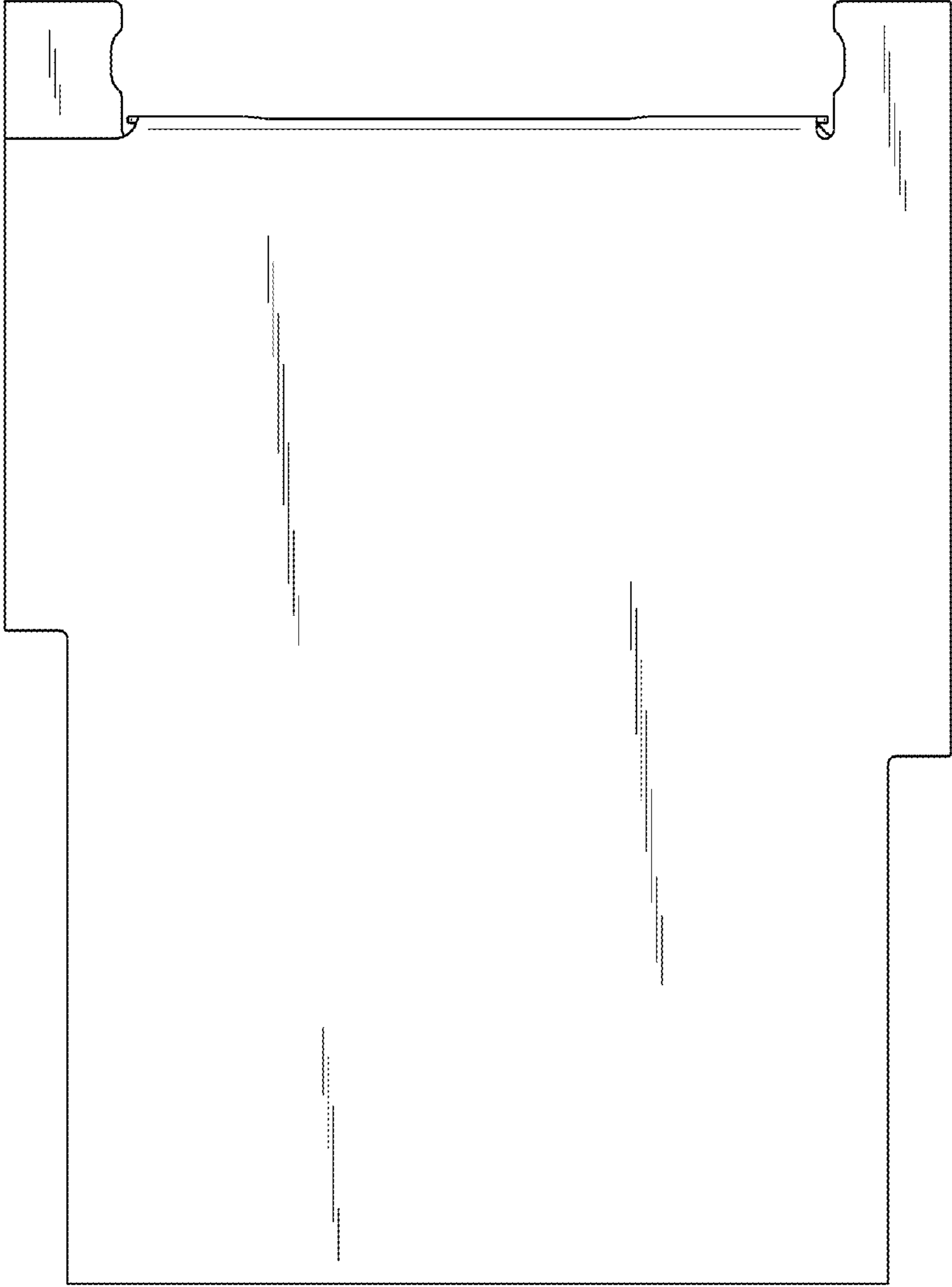


FIG. 2

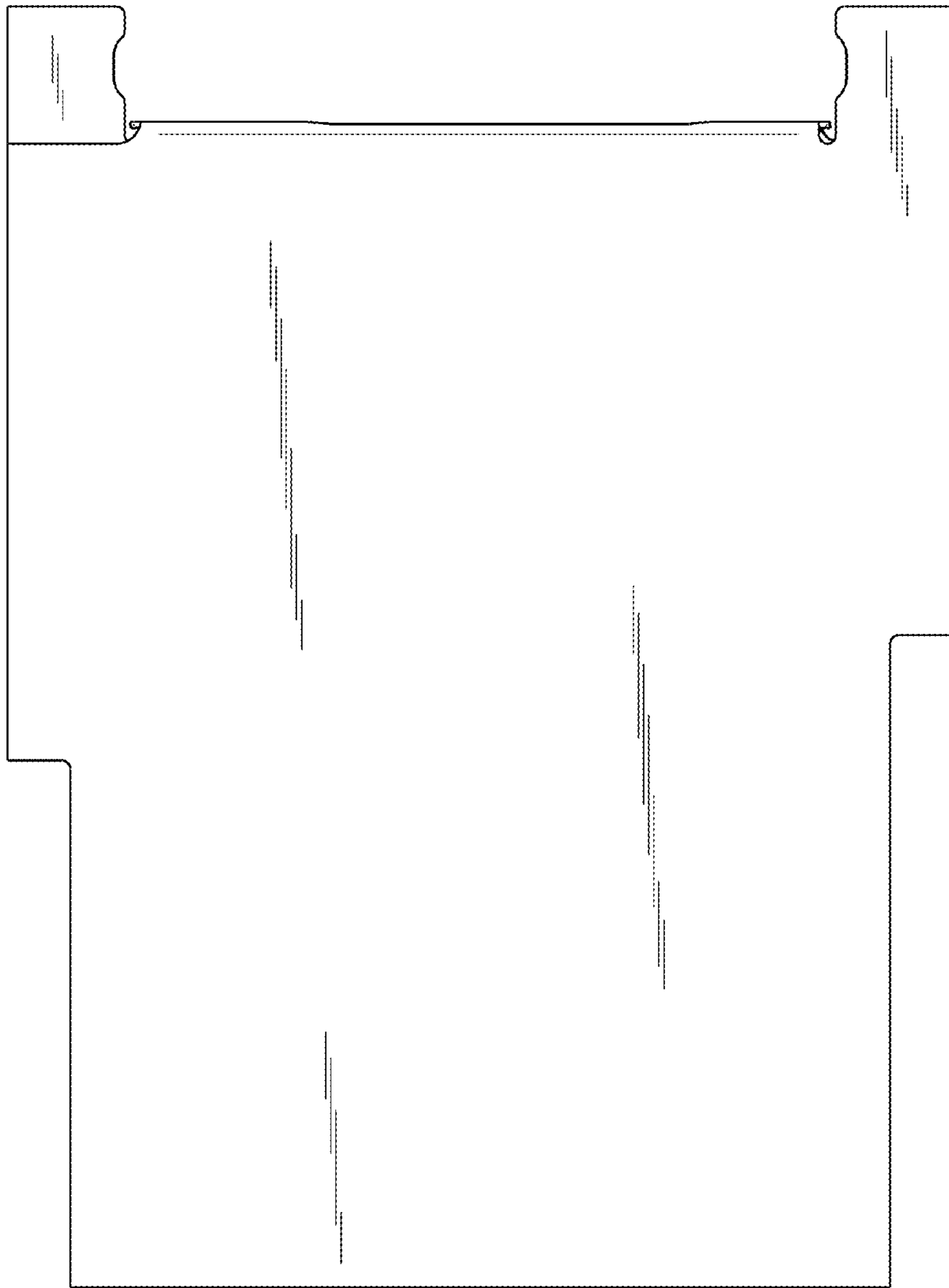


FIG. 3

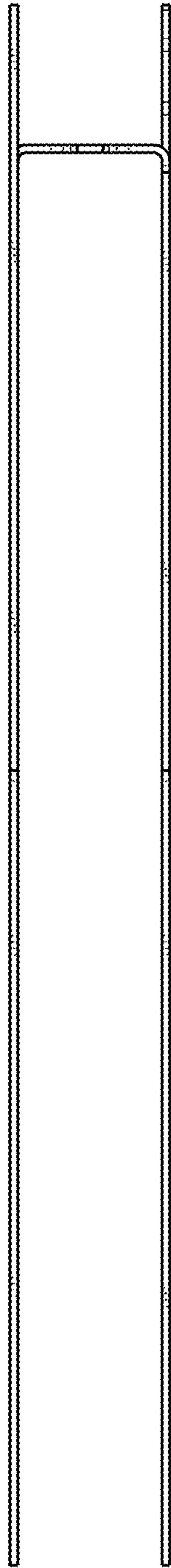


FIG. 4

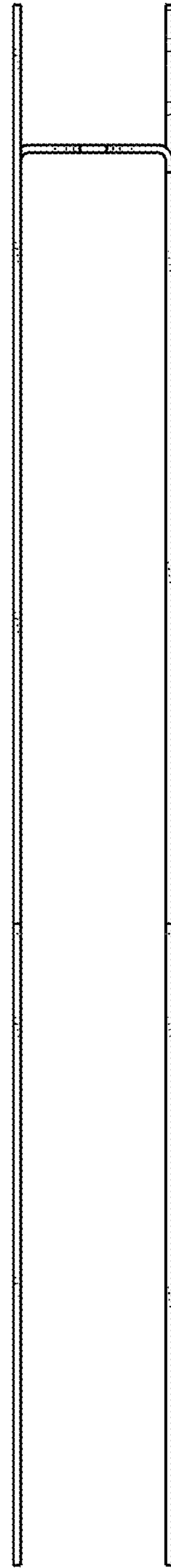


FIG. 5



FIG. 6

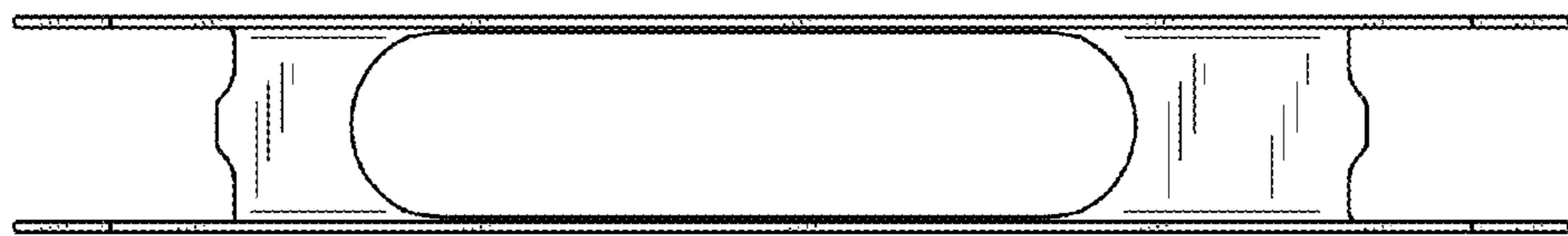


FIG. 7

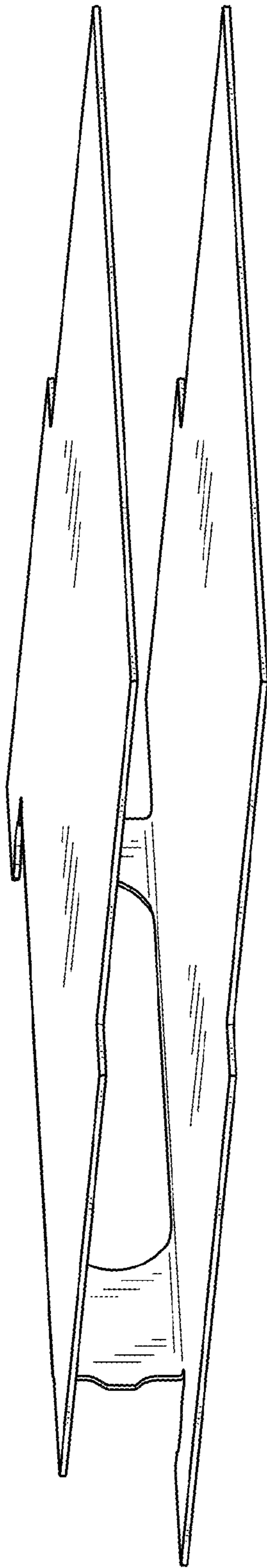


FIG. 8

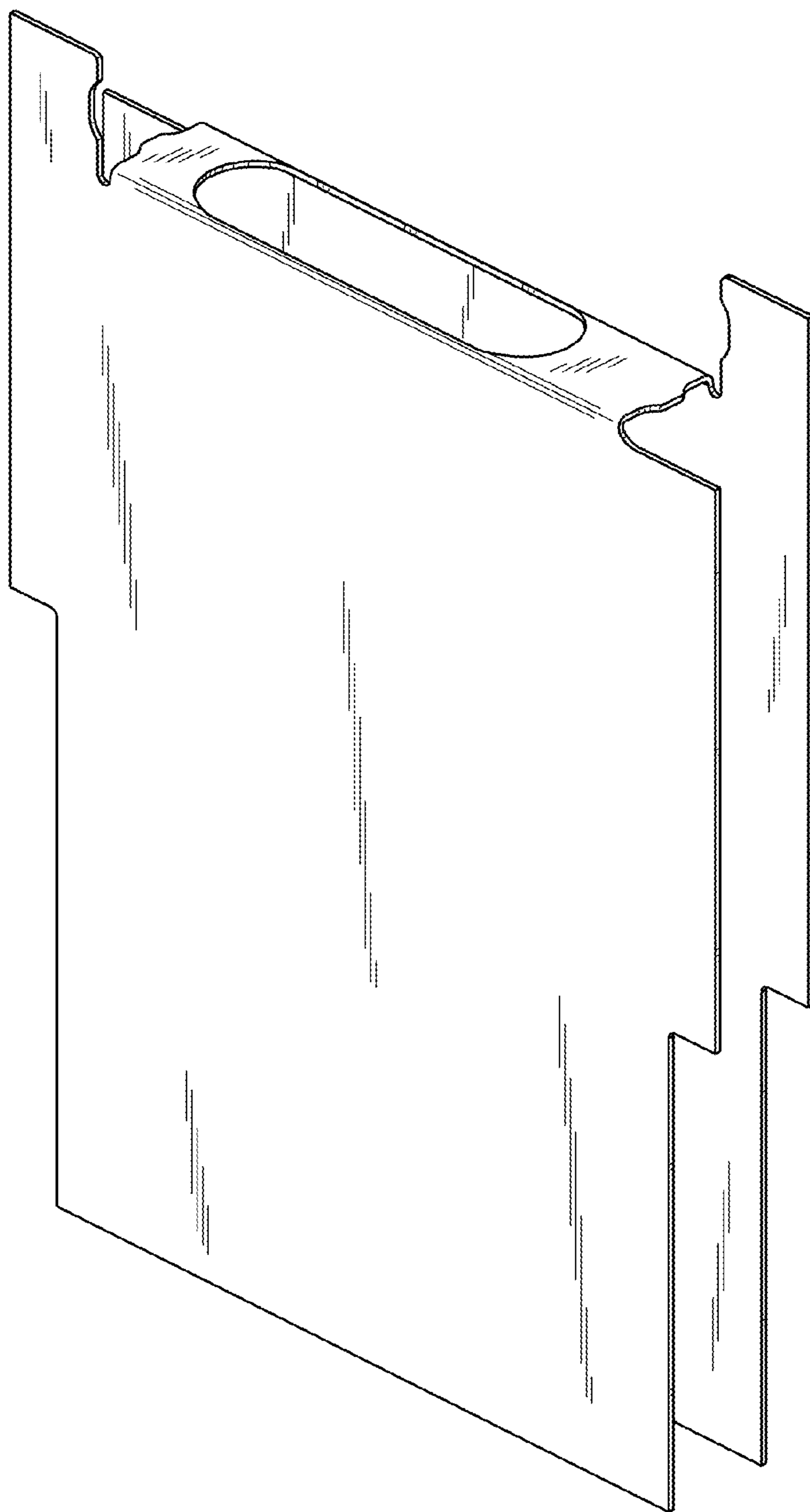


FIG. 9

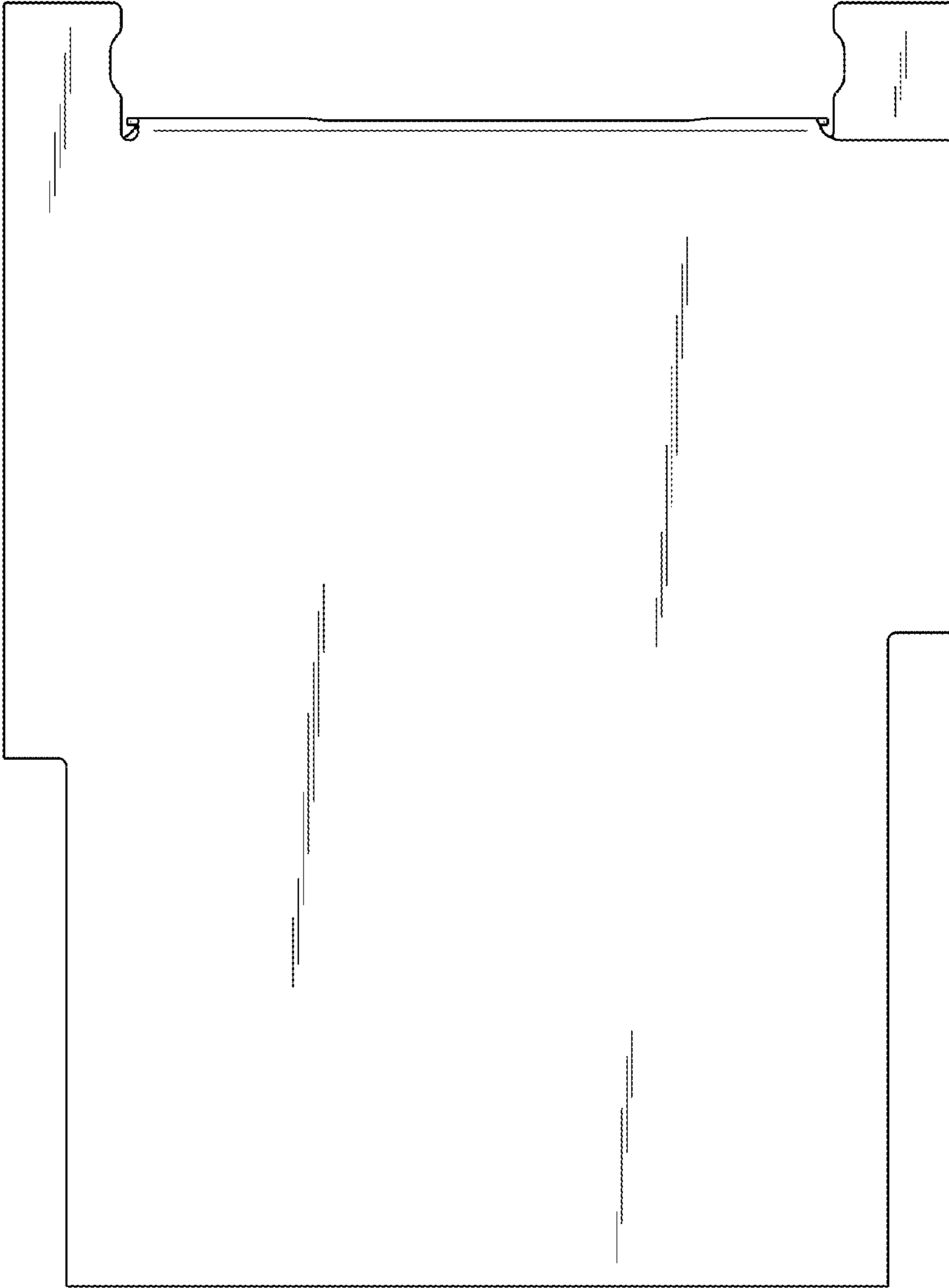


FIG. 10

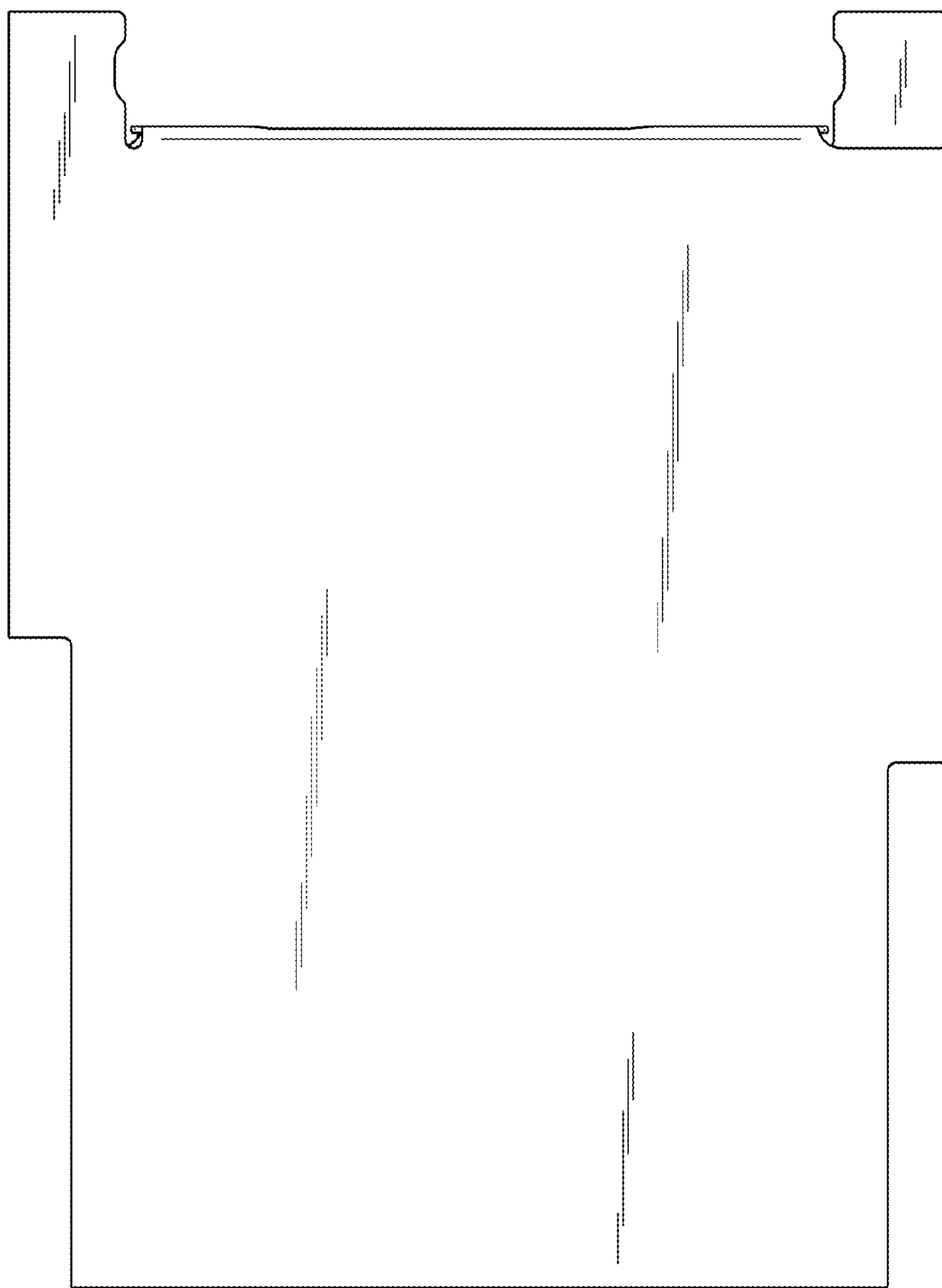


FIG. 11

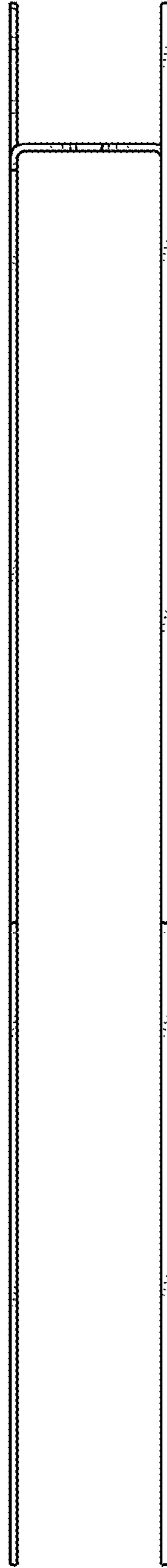


FIG. 12

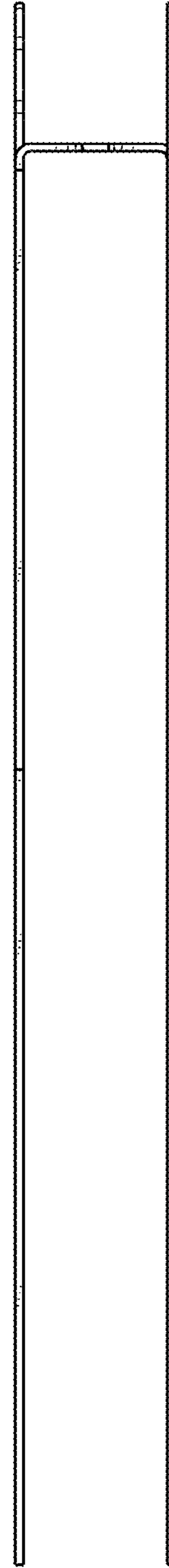


FIG. 13

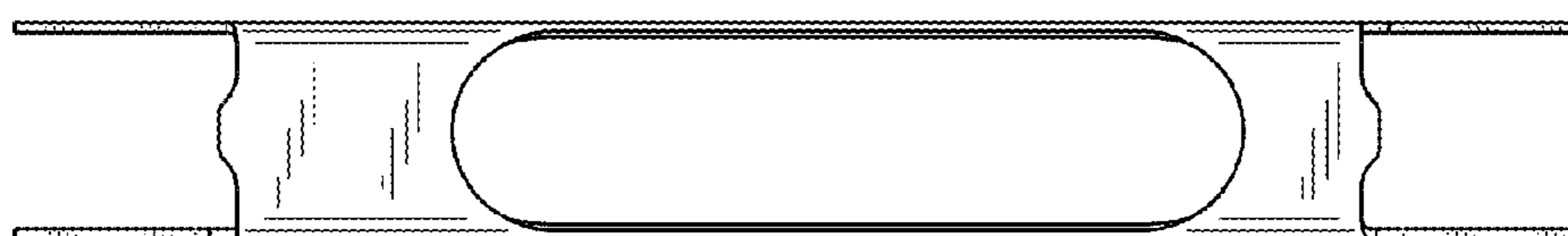


FIG. 14

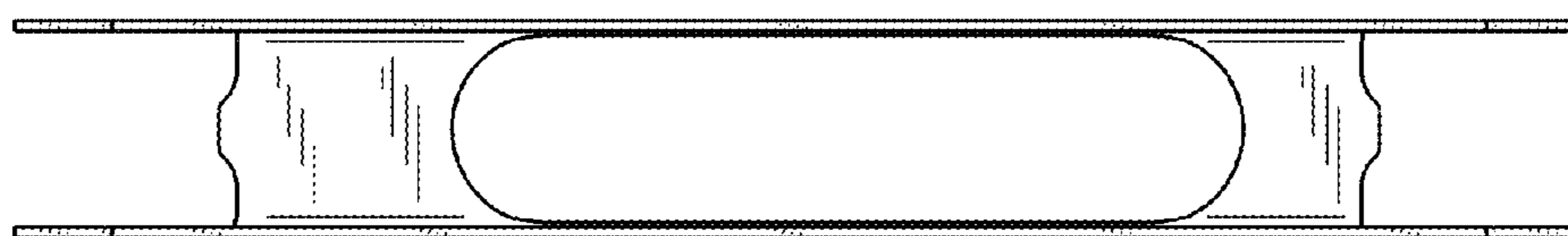


FIG. 15



FIG. 16