



US00D870910S

(12) **United States Design Patent** (10) **Patent No.:** **US D870,910 S**
Livingston et al. (45) **Date of Patent:** **** Dec. 24, 2019**

(54) **COMBINED SAMPLE PREPARATION
MODULE, DIAGNOSTIC TESTING
MODULE, AND MACHINE ASSEMBLY**

(71) Applicant: **Becton, Dickinson and Company,**
Franklin Lakes, NJ (US)

(72) Inventors: **Dwight Livingston,** Fallston, MD (US);
Michael T. VanSickler, Columbia, MD
(US); **Christopher John Murray,**
Philadelphia, PA (US); **John Depler
Coleman,** Philadelphia, PA (US);
Mathieu Dominic Turpault,
Philadelphia, PA (US)

(73) Assignee: **Becton, Dickinson and Company,**
Franklin Lakes, NJ (US)

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

(21) Appl. No.: **29/594,016**

(22) Filed: **Feb. 15, 2017**

(51) **LOC (12) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/216**

(58) **Field of Classification Search**
USPC D10/47, 81; D13/158–160;
D14/420–425; D15/122, 127, 135;
D18/14, 19, 36–39, 50, 53, 54, 54.1, 55,
D18/81; D24/107, 181, 185, 186, 216,
D24/219, 231–234
CPC G01N 15/1434; G01N 15/1459; G01N
2015/008; G01N 2015/1477; G01N
2015/1486; G01N 2021/4716
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D650,417 S * 12/2011 Brown D18/53
D652,947 S * 1/2012 Philipak D24/216

D659,174 S * 5/2012 Mueller D15/122
D663,040 S * 7/2012 Oonuma D24/216
D676,568 S * 2/2013 Liu D24/216
D685,483 S * 7/2013 LiCalzi D24/216
D686,261 S * 7/2013 Sunter D15/145
D686,262 S * 7/2013 Sunter D15/145
D686,263 S * 7/2013 Sunter D15/145
D690,330 S * 9/2013 Tsuchiyama D15/122
D690,745 S * 10/2013 Koide D15/122
D719,275 S * 12/2014 Gutmann D24/216
D724,753 S * 3/2015 Gutmann D24/216

(Continued)

OTHER PUBLICATIONS

Figures publicly disclosed at a seminar in Sweden some time after
Apr. 22, 2016 and prior to the filing of the present application.

Primary Examiner — Garth Rademaker

Assistant Examiner — Fritzgerald L Butac

(74) *Attorney, Agent, or Firm* — Lerner, David,
Littenberg, Krumholz & Mentlik, LLP

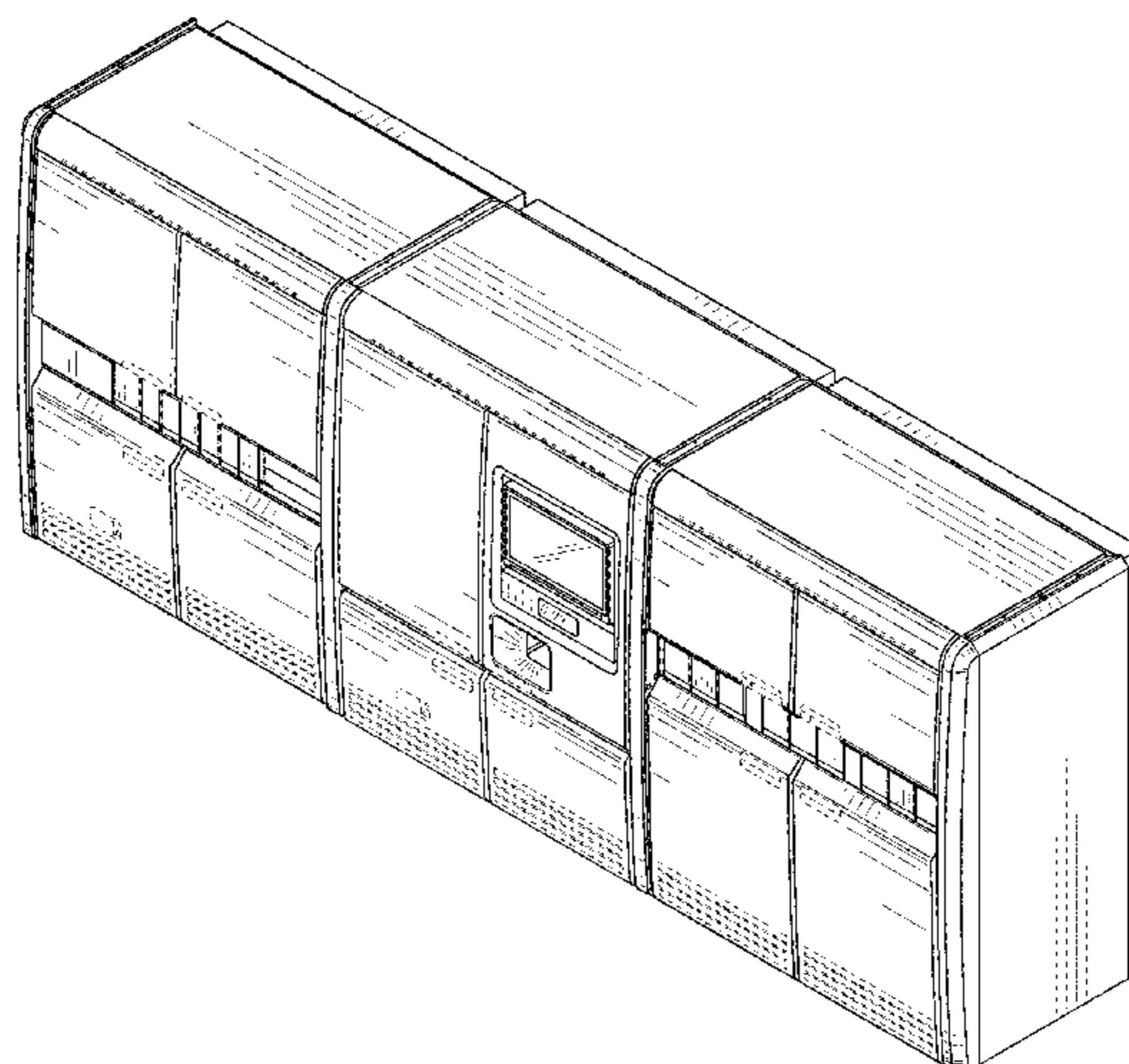
(57) **CLAIM**

The ornamental design for a combined sample preparation
module, diagnostic testing module, and machine assembly,
as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a combined sample
preparation module, diagnostic testing module, and machine
assembly according to our design;
FIG. 2 is a front elevational view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a right side elevational view thereof;
FIG. 5 is a left side elevational view thereof;
FIG. 6 is a top plan view thereof; and,
FIG. 7 is a bottom plan view thereof.
The broken lines show portions of a combined sample
preparation module, diagnostic testing module, and machine
assembly that form no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D730,959	S	*	6/2015	Kirkland	.....	D15/122
D731,563	S	*	6/2015	Kirkland	.....	D15/122
D735,253	S	*	7/2015	Bausback	.....	D15/122
D736,840	S	*	8/2015	Kirkland	.....	D15/122
D753,734	S	*	4/2016	Hanschen	.....	D15/122
D759,738	S	*	6/2016	Schonherr	.....	D15/122
D762,748	S	*	8/2016	Schonherr	.....	D15/122
D777,049	S	*	1/2017	Barton	.....	D10/81
D781,357	S	*	3/2017	Inaba	.....	D15/122
D788,617	S	*	6/2017	Barton	.....	D24/216
D794,099	S	*	8/2017	Gallo	.....	D15/122
D802,156	S	*	11/2017	Barton	.....	D24/216
D803,712	S	*	11/2017	Kurata	.....	D24/216
D811,913	S	*	3/2018	Barton	.....	D24/216
D813,410	S	*	3/2018	Licalzi	.....	D24/216
D816,738	S	*	5/2018	Kim	.....	D15/122
D816,741	S	*	5/2018	Nicaise	.....	D15/122
D822,724	S	*	7/2018	Hanschen	.....	D15/122
D823,359	S	*	7/2018	Krebber	.....	D15/122
D825,489	S	*	8/2018	Yoshida	.....	D13/160
D841,188	S	*	2/2019	Choudhary	.....	D24/216
D843,597	S	*	3/2019	Kurz-Ottenwaelder	.....	D24/232
D846,138	S	*	4/2019	Masuda	.....	D24/216
D846,139	S	*	4/2019	Masuda	.....	D24/216
D846,140	S	*	4/2019	Masuda	.....	D24/216
D848,019	S	*	5/2019	Barton	.....	D24/216

* cited by examiner

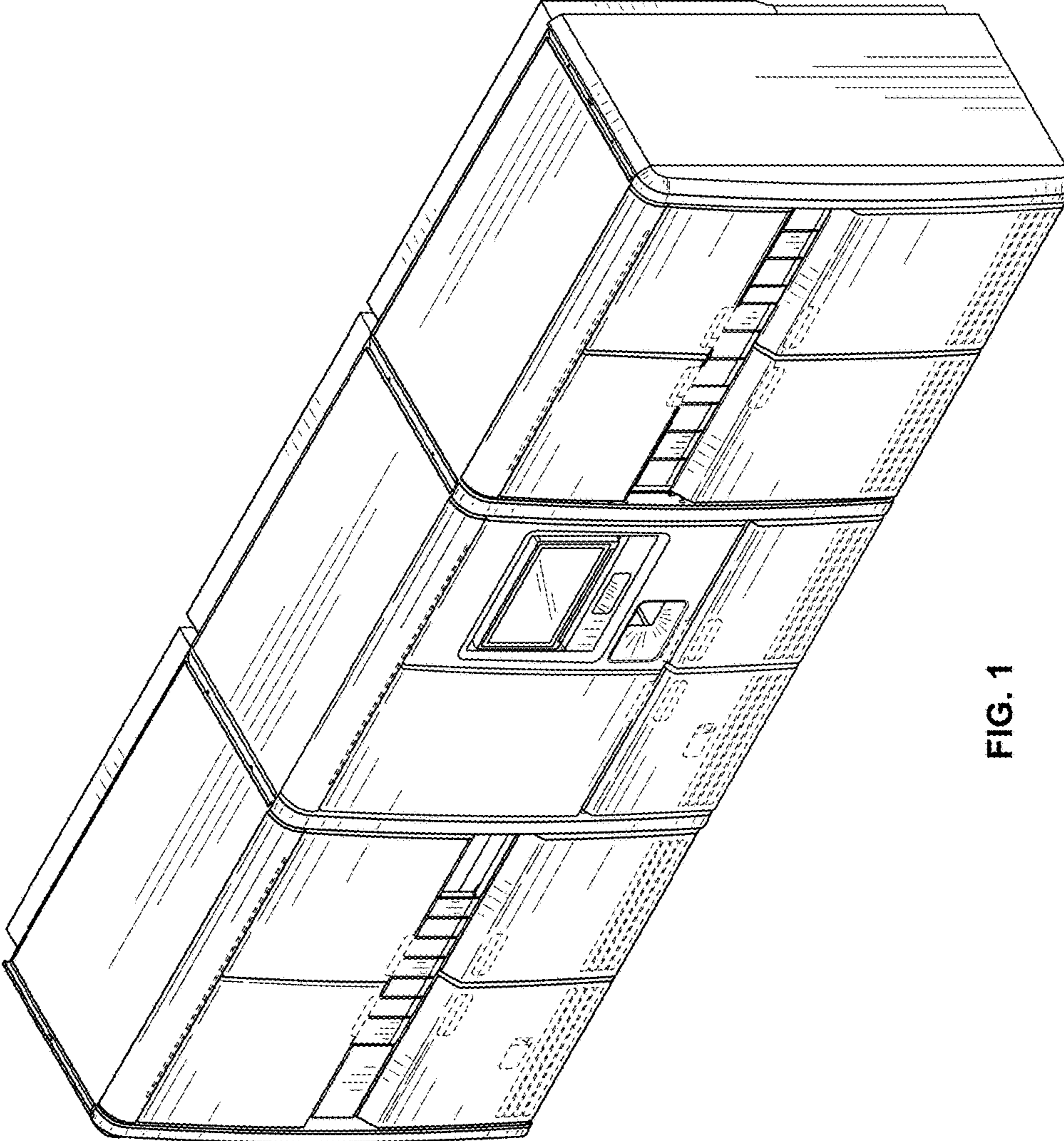


FIG. 1

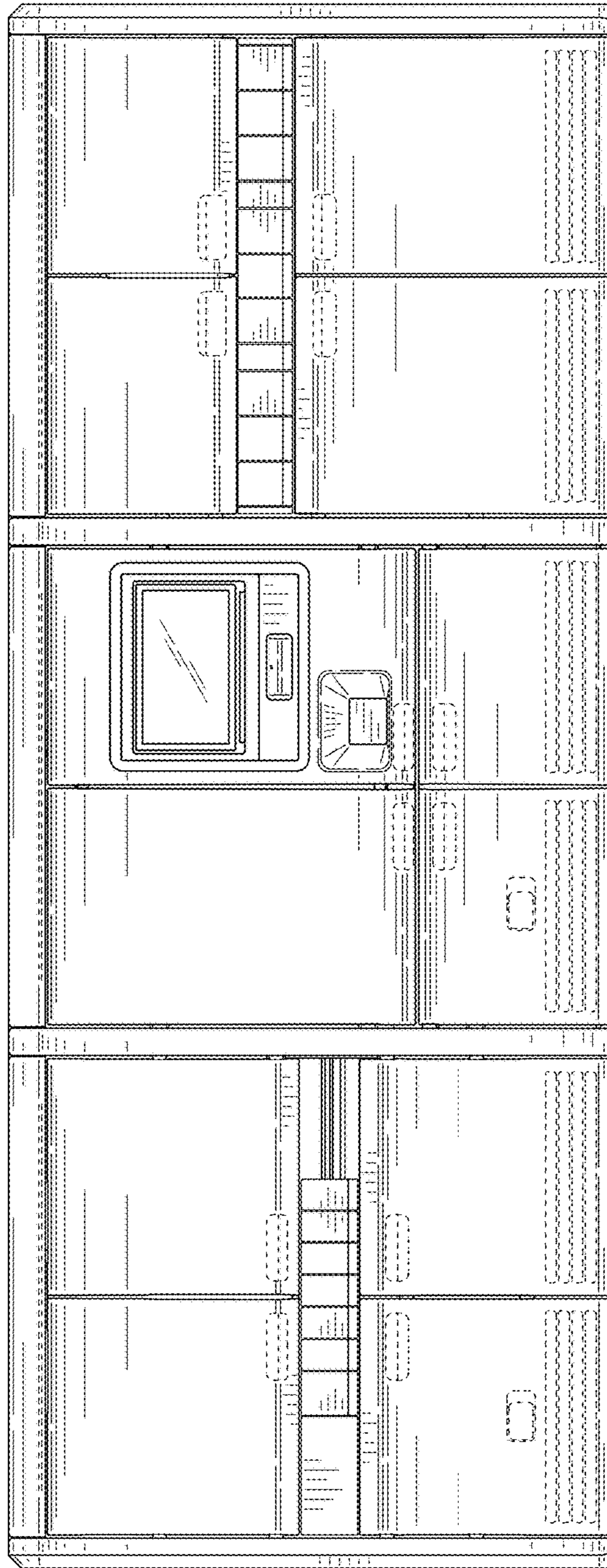


FIG. 2

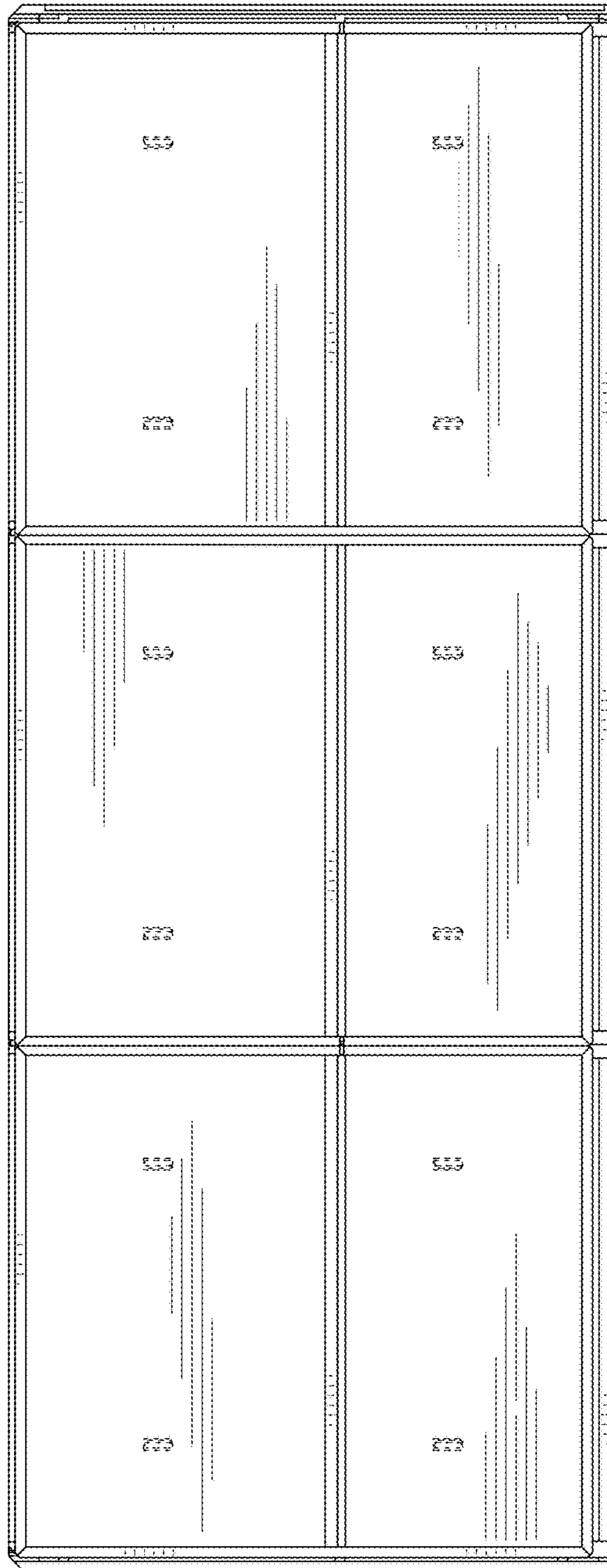


FIG. 3

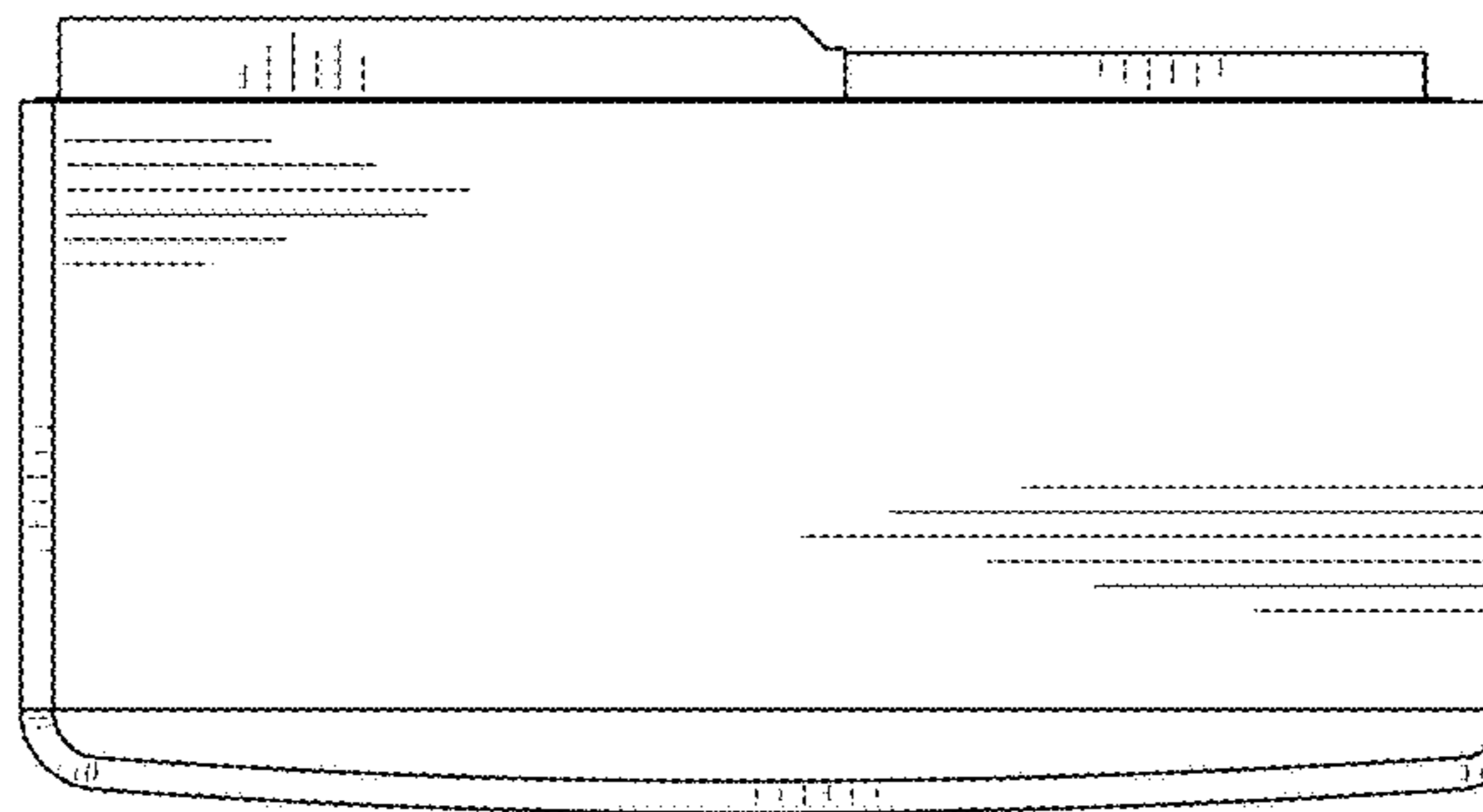


FIG. 5

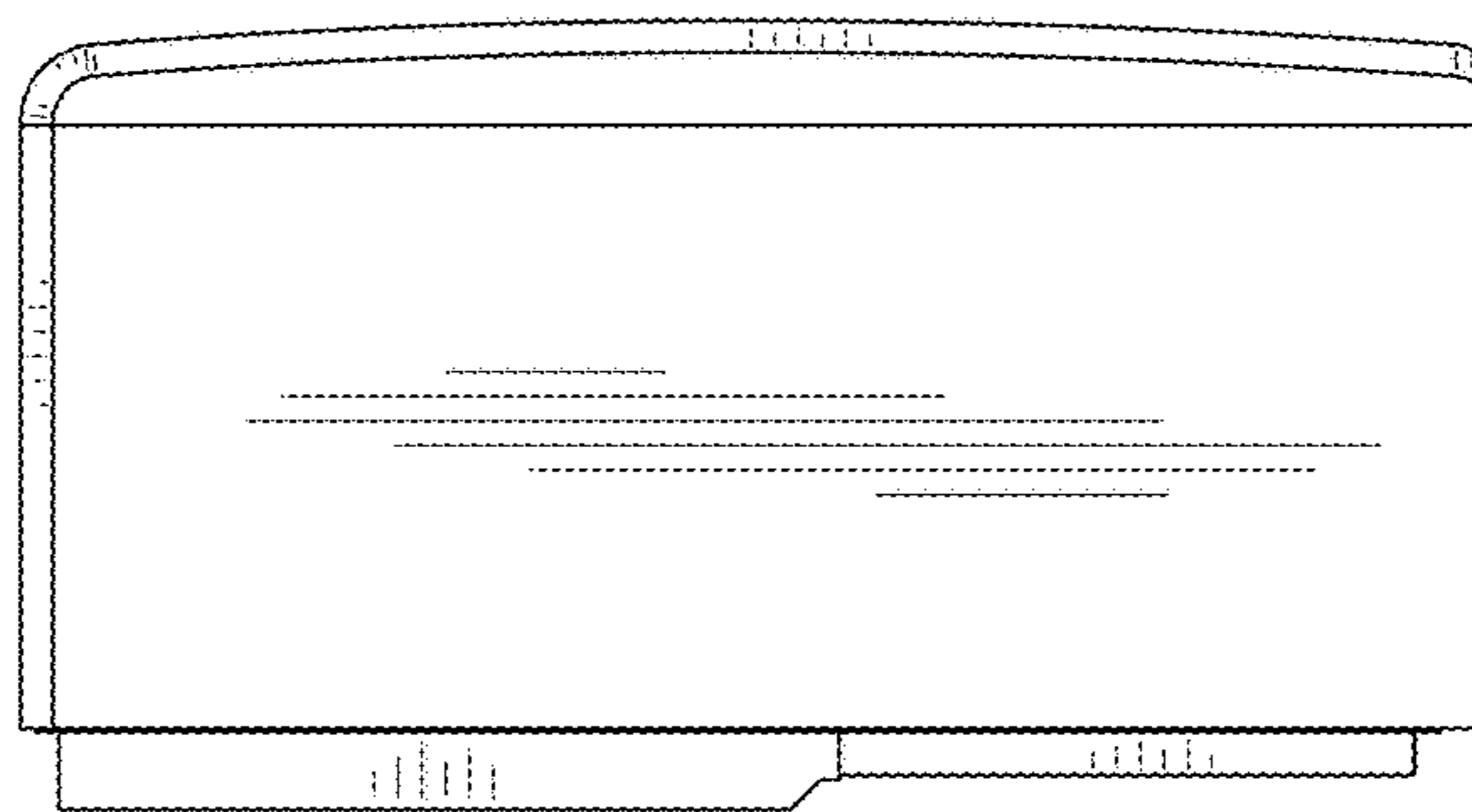


FIG. 4

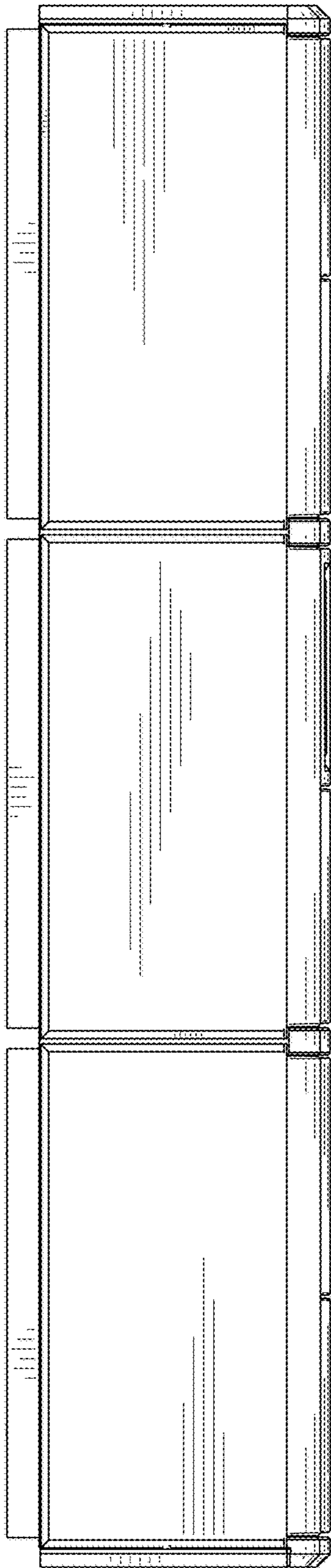


FIG. 6

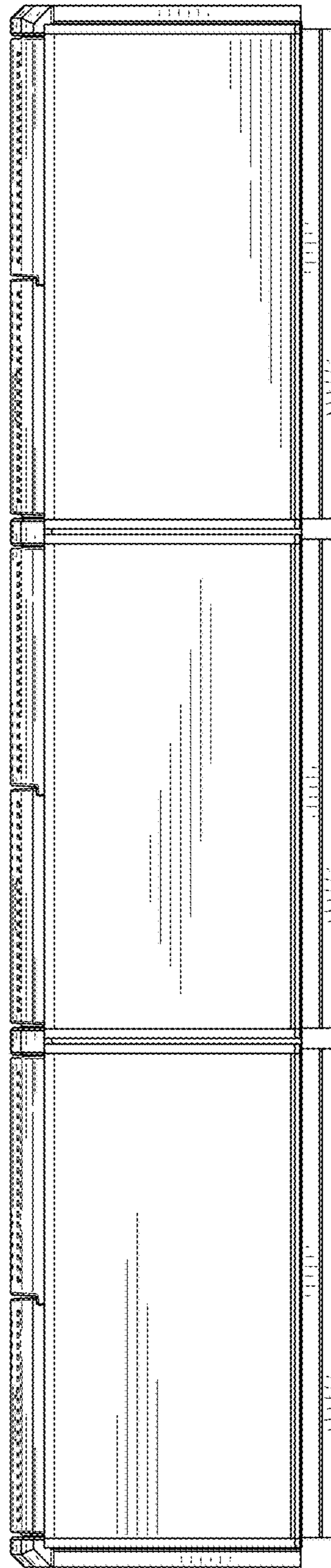


FIG. 7