



US00D936023S

(12) **United States Design Patent**
Choi(10) **Patent No.:** **US D936,023 S**
(45) **Date of Patent:** **** Nov. 16, 2021**(54) **CONTROL UNIT FOR AIR CIRCUIT BREAKER**(71) Applicant: **LS ELECTRIC CO., LTD.**, Anyang-si (KR)(72) Inventor: **Minho Choi**, Anyang-si (KR)(73) Assignee: **LS ELECTRIC CO., LTD.**, Anyang-si (KR)(***) Term: **15 Years**(21) Appl. No.: **29/741,477**(22) Filed: **Jul. 13, 2020**(30) **Foreign Application Priority Data**

Jan. 21, 2020 (KR) 30-2020-0003004
(51) LOC (13) Cl. **13-03**
(52) U.S. Cl.
USPC **D13/162**
(58) **Field of Classification Search**
USPC D13/158, 160, 162, 163, 184
CPC H05K 5/00; H05K 5/0004; H05K 5/0008;
H05K 5/0017; H05K 5/03; H05K 5/04;
H05K 5/06; H02B 1/01; H02B 1/26;
H02B 1/30; H01H 71/02

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D222,139 S * 10/1971 Jaeschke D13/184
D290,960 S * 7/1987 Brann D14/312
D325,829 S * 5/1992 Cury D13/184
D365,086 S * 12/1995 Spechts D13/184
D390,835 S * 2/1998 Mayfield, III D13/184

5,822,180 A * 10/1998 Deschamps H02B 1/015
361/627
D405,767 S * 2/1999 Nelson D13/184
D503,931 S * 4/2005 Kauranen D13/184
D543,161 S * 5/2007 Stepputat D13/184
D599,302 S * 9/2009 Magoni D13/160
7,952,042 B2 * 5/2011 Coomer F16J 3/041
200/302.1
D682,794 S * 5/2013 Biller D13/162
D691,557 S * 10/2013 Helosvuori D13/123
D706,228 S * 6/2014 Ishiura D13/162
D778,243 S * 2/2017 Knospe D13/160
D833,986 S * 11/2018 Vierjarvi D13/163
D845,909 S * 4/2019 Shin D13/160
2009/0015357 A1 * 1/2009 Ahn H01H 71/04
335/17
2019/0148921 A1 * 5/2019 Bellows H02B 1/565
361/622

* cited by examiner

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(57) **CLAIM**

The ornamental design for a control unit for air circuit breaker, as shown and described herein.

DESCRIPTION

FIG. 1 is a perspective view of a control unit for air circuit breaker showing the new design;

FIG. 2 is a front elevation view thereof;

FIG. 3 is a rear elevation view thereof based on FIG. 2;

FIG. 4 is a left-side elevation view thereof based on FIG. 2;

FIG. 5 is a right-side elevation view thereof based on FIG. 2;

FIG. 6 is a top plan view thereof based on FIG. 2; and,

FIG. 7 is a bottom plan view thereof based on FIG. 2.

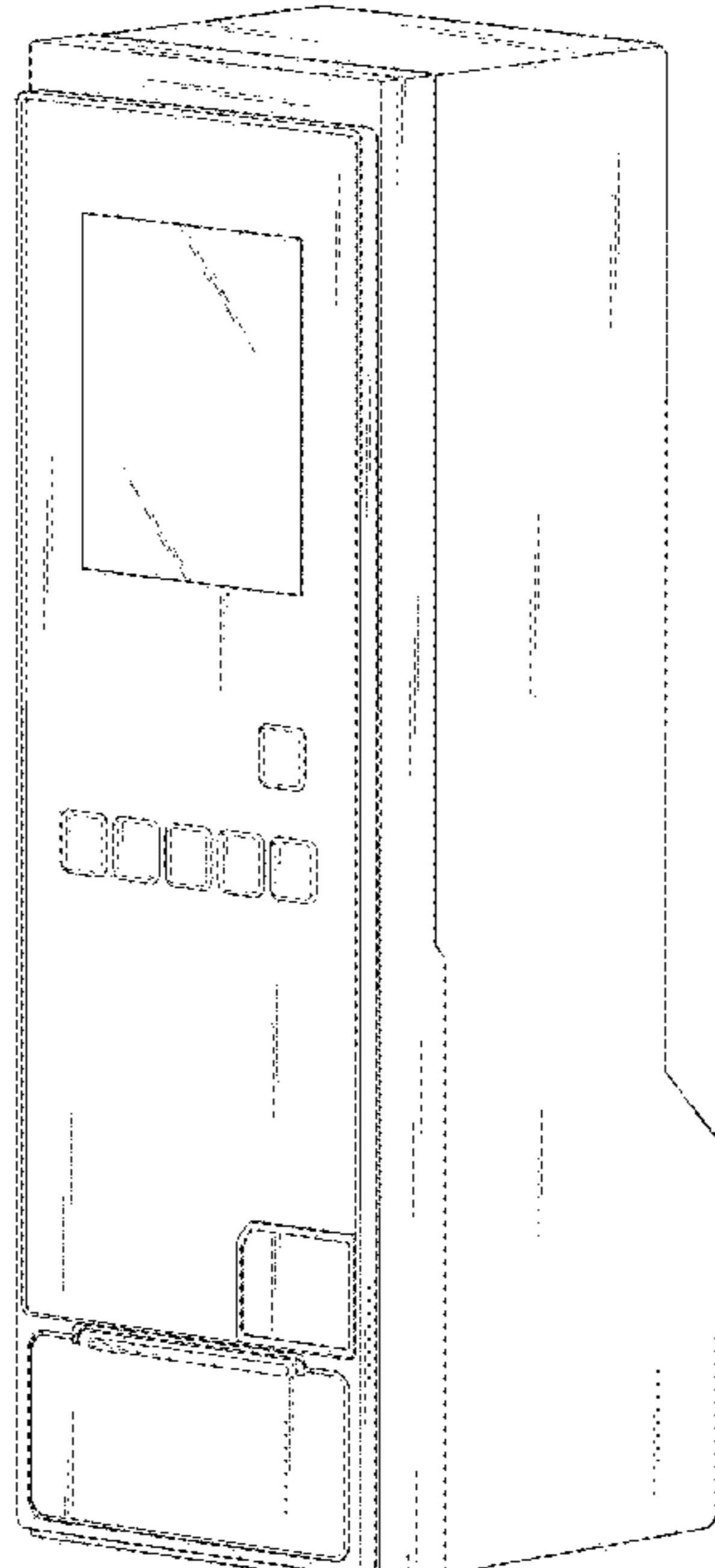
1 Claim, 7 Drawing Sheets

FIG. 1

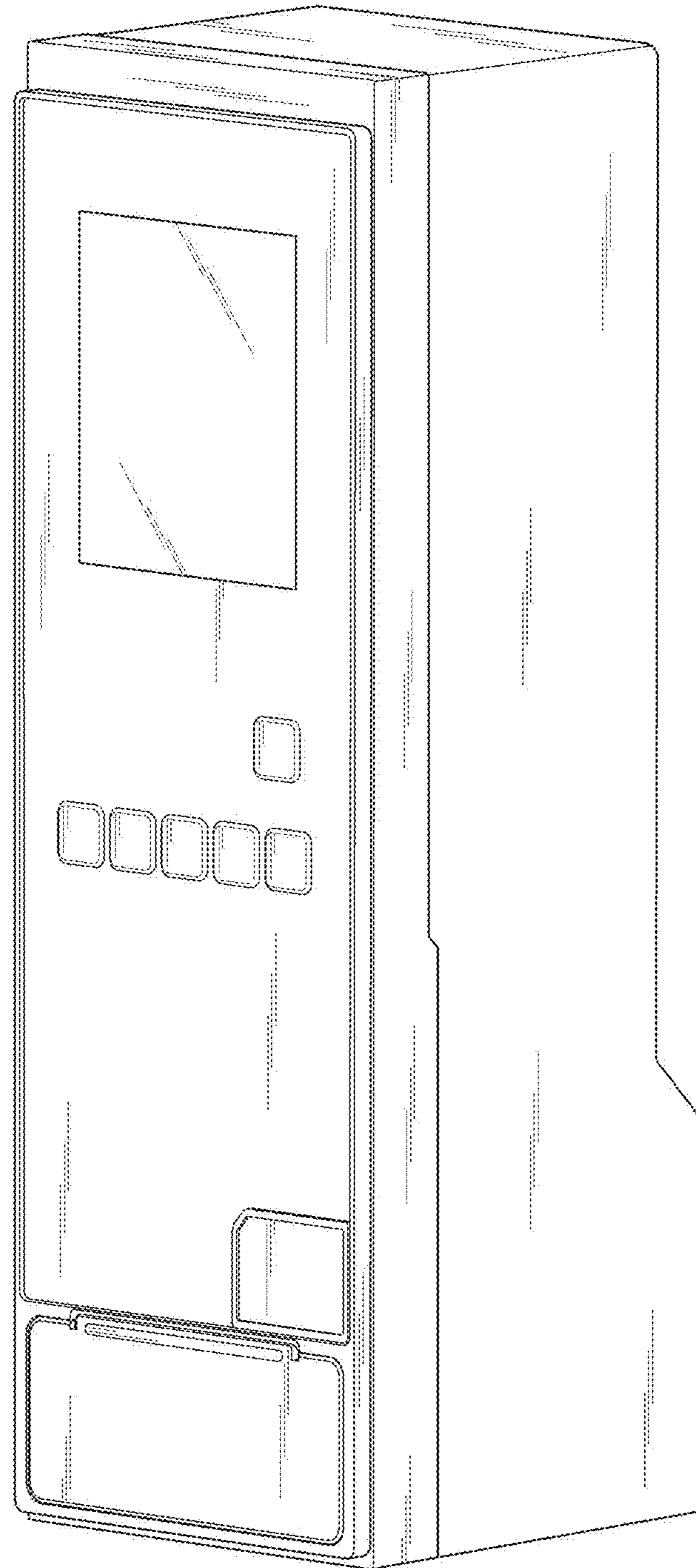


FIG. 2

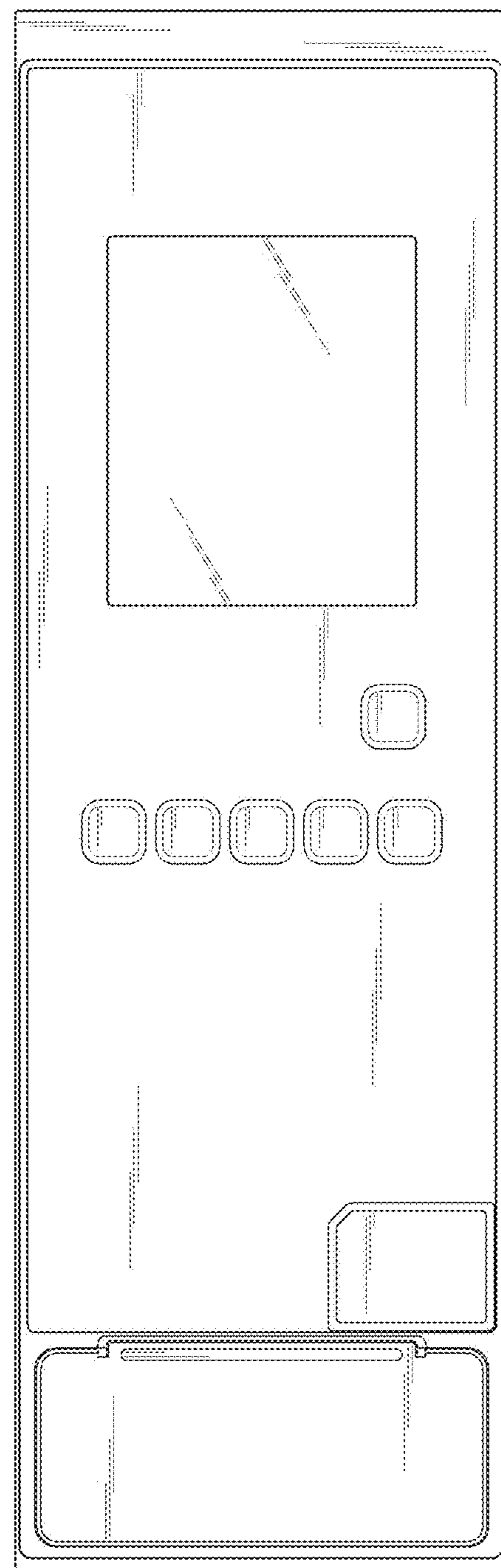


FIG. 3

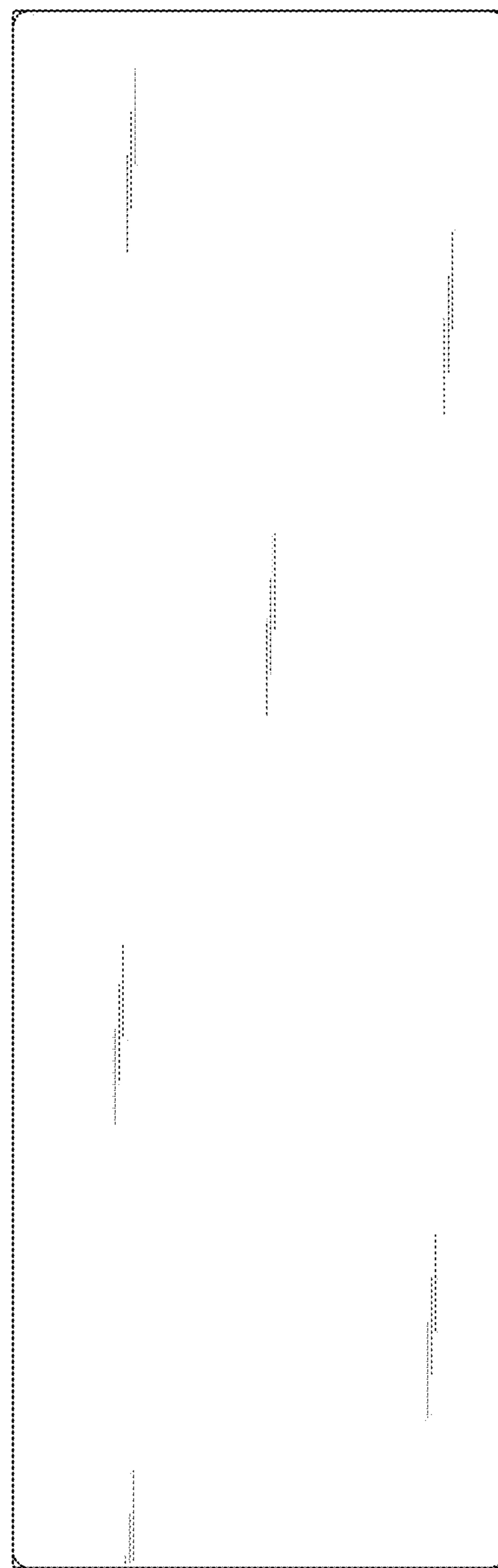


FIG. 4

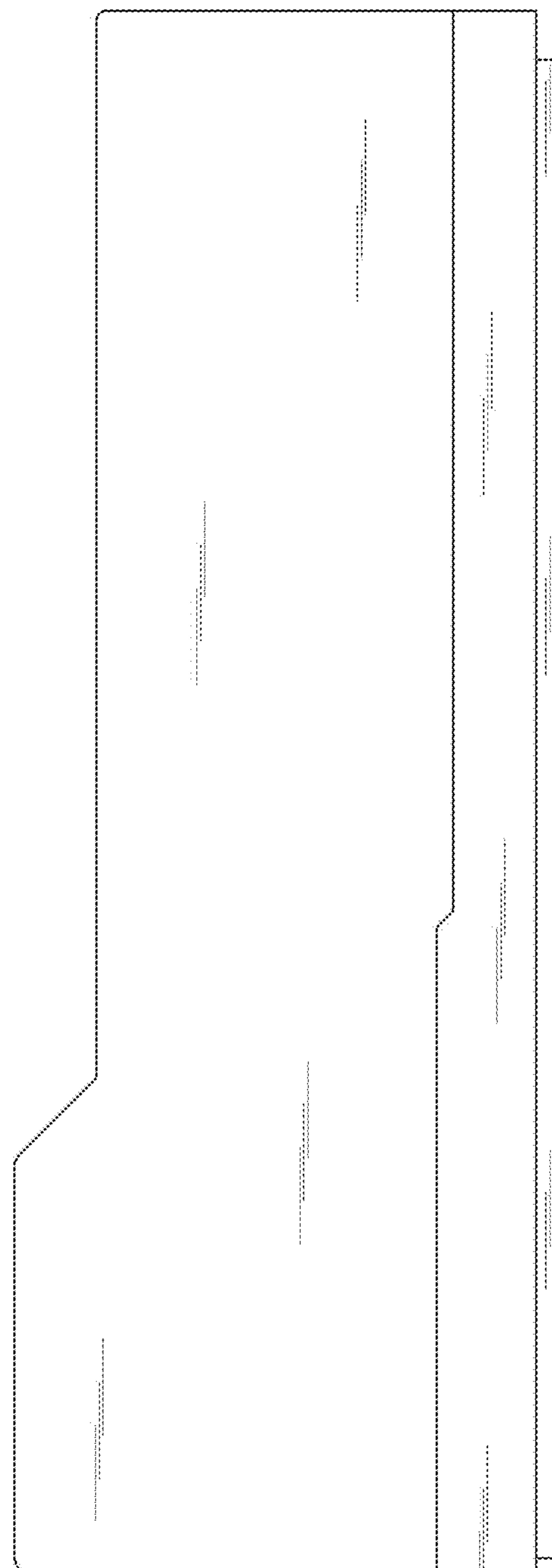


FIG. 5

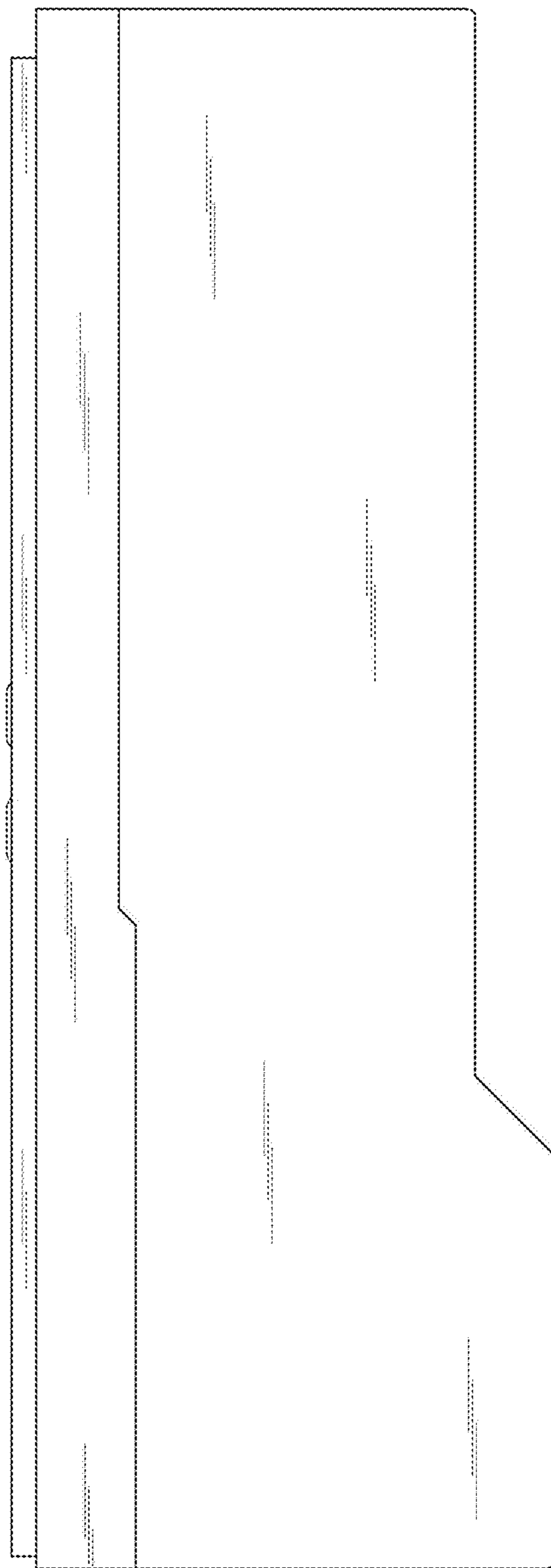


FIG. 6

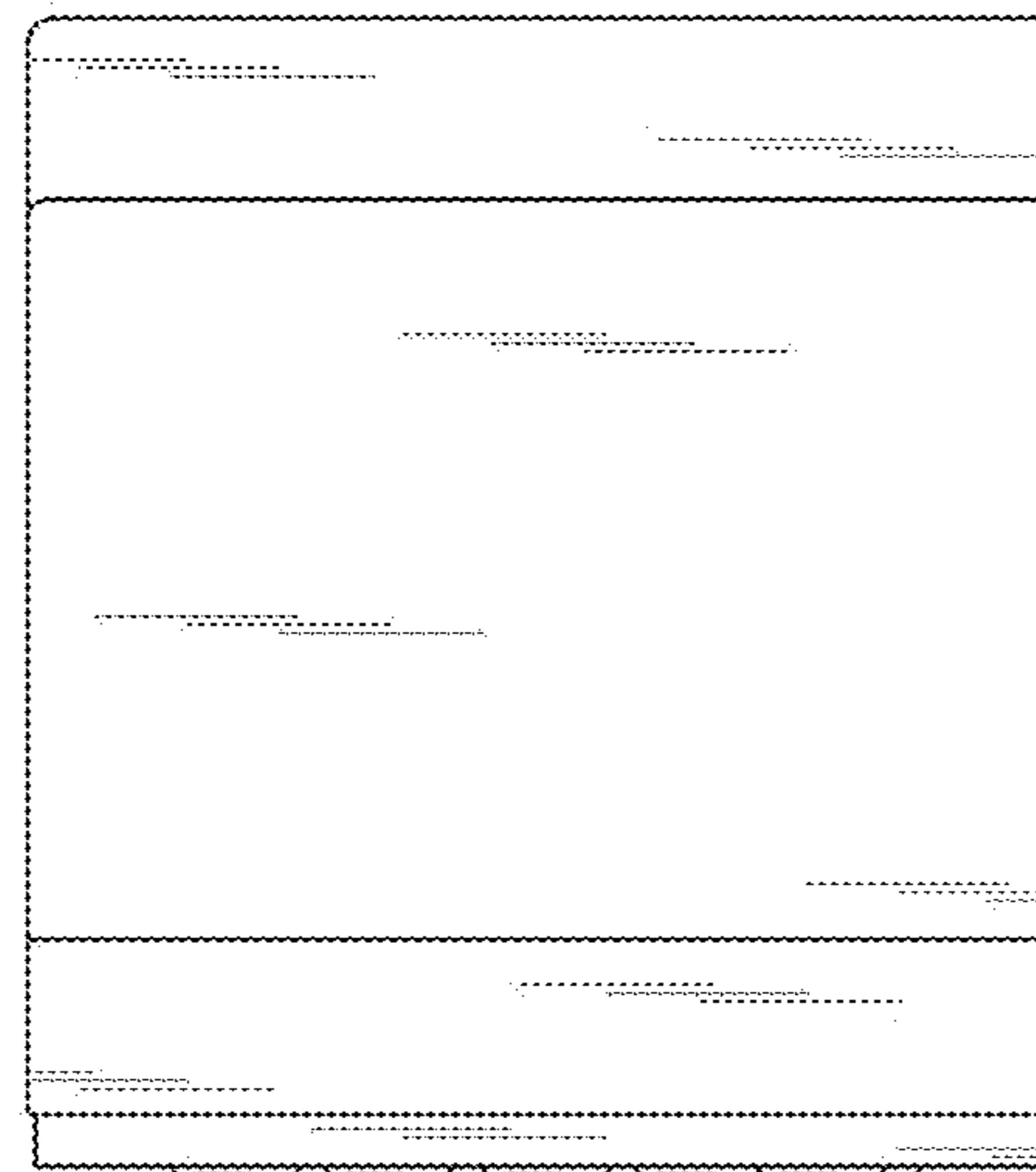


FIG. 7

