

US00D662095S

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

(10) **Patent No.:** **US D662,095 S**
(45) **Date of Patent:** **** Jun. 19, 2012**

(54) **INDUSTRIAL OPERATOR INTERFACE**
TERMINAL

(75) Inventors: **Melissa A. Mack**, Painesville, OH (US);
Cheryl Lynn Ades Anspach, Waukesha,
WI (US); **Douglas A. Lostoski**,
Richfield, OH (US); **Gordon Daily**,
Solon, OH (US); **Peter J. Klein**,
Kenosha, WI (US); **Ronald E. Bliss**,
Twinsburg, OH (US)

(73) Assignee: **Rockwell Automational Technologies,**
Inc., Mayfield Heights, OH (US)

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

(21) Appl. No.: **29/393,531**

(22) Filed: **Jun. 6, 2011**

(51) **LOC (9) Cl.** **14-02**

(52) **U.S. Cl.** **D14/388**; D14/336; D14/371

(58) **Field of Classification Search** D14/341,
D14/371-375, 125-129, 336, 337, 388; 341/12,
341/22; 345/104, 156, 168, 173; 348/180,
348/184, 325, 739; 349/1, 2, 11, 62;
361/679.05-679.07, 679.21; D6/300, 308;
D13/164; 200/512, 600; 715/763, 764, 813;
D19/52

See application file for complete search history.

(56) **References Cited**

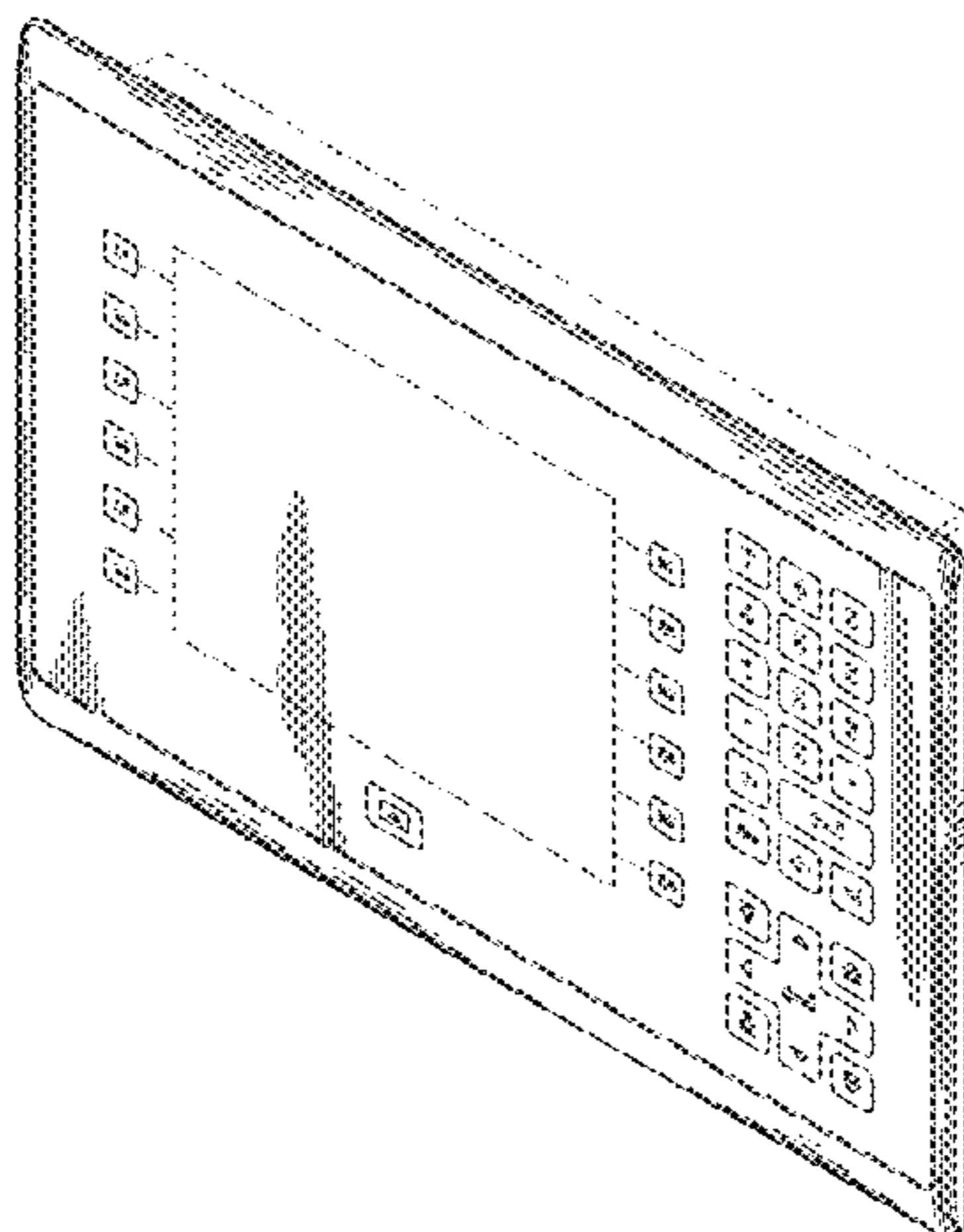
U.S. PATENT DOCUMENTS

4,237,636 A	12/1980	Matthews
4,342,029 A	7/1982	Hofmanis et al.
4,572,592 A	2/1986	Haven
4,680,429 A	7/1987	Murdock et al.
4,818,980 A	4/1989	Strosser et al.
4,888,479 A	12/1989	Tamaru
5,049,870 A	9/1991	Fitzgerald et al.
5,239,152 A	8/1993	Caldwell et al.
D339,379 S *	9/1993	Persing D19/52
5,422,751 A	6/1995	Lewis et al.
D378,514 S	3/1997	Kruse
5,726,668 A	3/1998	Clement
D420,342 S	2/2000	Murray

6,116,063 A	9/2000	Foslien
6,215,477 B1	4/2001	Morrison et al.
6,268,845 B1	7/2001	Pariza et al.
6,462,939 B1	10/2002	Heirich
6,567,077 B2	5/2003	Inoue et al.
6,578,972 B1	6/2003	Heirich et al.
D481,057 S	10/2003	Brady
6,653,864 B2	11/2003	Iwagami et al.
6,667,781 B2	12/2003	Ek et al.
D490,420 S	5/2004	Solomon et al.
6,762,762 B2	7/2004	MacInnis et al.
6,826,038 B2	11/2004	Chen
D504,889 S *	5/2005	Andre et al. D14/341
6,972,401 B2	12/2005	Akitt et al.
7,026,567 B2	4/2006	Mai et al.
7,143,361 B2	11/2006	Ramchandani
7,173,185 B1	2/2007	Cloran et al.
D541,800 S	5/2007	Ponnert et al.
7,265,971 B2	9/2007	Chen et al.
7,268,311 B2	9/2007	Tanabe et al.
D554,640 S	11/2007	Ponnert et al.
D558,756 S	1/2008	Andre et al.
7,349,040 B2	3/2008	Lee et al.
7,365,970 B2	4/2008	Cheng et al.
D575,248 S *	8/2008	Fujii et al. D14/126
7,423,555 B2 *	9/2008	Chai 341/22
7,440,264 B2	10/2008	Lam et al.
D580,387 S	11/2008	Andre et al.
D580,431 S *	11/2008	Morita D14/341
7,460,362 B2	12/2008	Lam et al.
D593,087 S	5/2009	Andre et al.
D602,487 S *	10/2009	Maskatia D14/341
D608,302 S	1/2010	Liu
7,679,609 B2	3/2010	Matsumoto et al.
7,679,893 B2	3/2010	Lam et al.
D613,735 S	4/2010	Andre et al.
7,716,600 B2	5/2010	Sawano
7,724,509 B2	5/2010	Lam et al.
D620,455 S	7/2010	Teixeira Pinto Dias
7,762,452 B2	7/2010	Androsyuk et al.
7,766,517 B2	8/2010	Kerr et al.
D627,777 S *	11/2010	Akana et al. D14/341
D630,636 S *	1/2011	Jeon et al. D14/374
D634,318 S *	3/2011	Buckle et al. D14/341
D636,769 S *	4/2011	Wood et al. D14/341
2002/0100677 A1	8/2002	Fukui et al.
2006/0097989 A1 *	5/2006	Ho 345/173
2007/0267285 A1 *	11/2007	Yamaue et al. 200/512

OTHER PUBLICATIONS

Wonderware Industrial Computers—Extending the Power of
Wonderware—Everywhere. Last accessed on May 10, 2011, 12
pages.



Siemens HMI Terminals—SIMATIC Panels. Brochure—Nov. 2010. Last accessed on Mar. 31, 2011, 38 pages.
 Honeywell 900 Control Station Specifications 51-52-03-46. Apr. 2009. Last accessed on May 10, 2011, 14 pages.
 Honeywell HMI Terminals—Apr. 2009. Last accessed Mar. 31, 2011, 14 pages.
 Hakko HMI Terminals—V8 Series . Last accessed Mar. 31, 2011, 18 pages.
 Beijer HMI Terminals, 2010, Beijer Electronics. Last accessed on Mar. 31, 2011, 2 pages.
 Eaton HMI Terminals—Operator Interface Products. vol. 7—Motor Controls, Logic and Connectivity, Feb. 2011, Last accessed on Mar. 31, 2011, 70 pages.
 Beckhoff. “New Automation Technology”. Beckhoff Automation GmbH, 80 pages.

* cited by examiner

Primary Examiner — Freda S Nunn
 (74) *Attorney, Agent, or Firm* — Turocy & Watson, LLP;
 Alexander R. Kuszewski; John M. Miller

(57) **CLAIM**
 The ornamental design for an industrial operator interface terminal, substantially as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of an ornamental design of an industrial operator interface terminal.
 FIG. 2 is a front elevational view of the industrial operator interface terminal shown in FIG. 1.
 FIG. 3 is a back elevational view of the industrial operator interface terminal shown in FIG. 1.
 FIG. 4 is a left side elevational view of the industrial operator interface terminal shown in FIG. 1.
 FIG. 5 is a right side elevational view of the industrial operator interface terminal shown in FIG. 1.

FIG. 6 is a top plan view of the industrial operator interface terminal shown in FIG. 1.
 FIG. 7 is a bottom plan view of the industrial operator interface terminal shown in FIG. 1.
 FIG. 8 is a front perspective view of an ornamental design of an industrial operator interface terminal.
 FIG. 9 is a front elevational view of the industrial operator interface terminal shown in FIG. 8.
 FIG. 10 is a back elevational view of the industrial operator interface terminal shown in FIG. 8.
 FIG. 11 is a left side elevational view of the industrial operator interface terminal shown in FIG. 8.
 FIG. 12 is a right side elevational view of the industrial operator interface terminal shown in FIG. 8.
 FIG. 13 is a top plan view of the industrial operator interface terminal shown in FIG. 8.
 FIG. 14 is a bottom plan view of the industrial operator interface terminal shown in FIG. 8.
 FIG. 15 is a front perspective view of an ornamental design of an industrial operator interface terminal.
 FIG. 16 is a front elevational view of the industrial operator interface terminal shown in FIG. 15.
 FIG. 17 is a back elevational view of the industrial operator interface terminal shown in FIG. 15.
 FIG. 18 is a left side elevational view of the industrial operator interface terminal shown in FIG. 15.
 FIG. 19 is a right side elevational view of the industrial operator interface terminal shown in FIG. 15.
 FIG. 20 is a top plan view of the industrial operator interface terminal shown in FIG. 15; and,
 FIG. 21 is a bottom plan view of the industrial operator interface terminal shown in FIG. 15.
 Broken lines shown in the drawings illustrate portions of the industrial operator interface terminal and form no part of the claimed design.

1 Claim, 15 Drawing Sheets

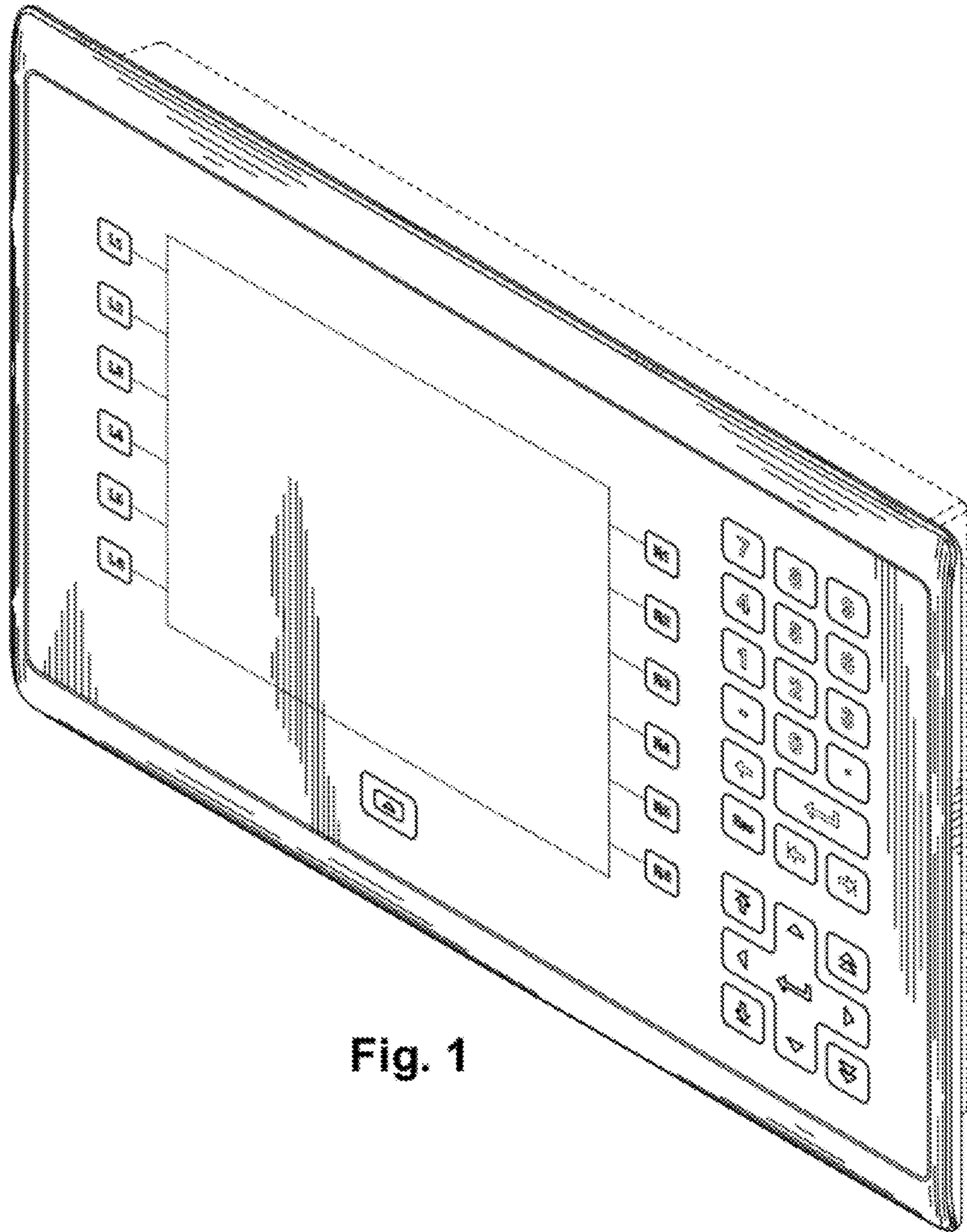


Fig. 1

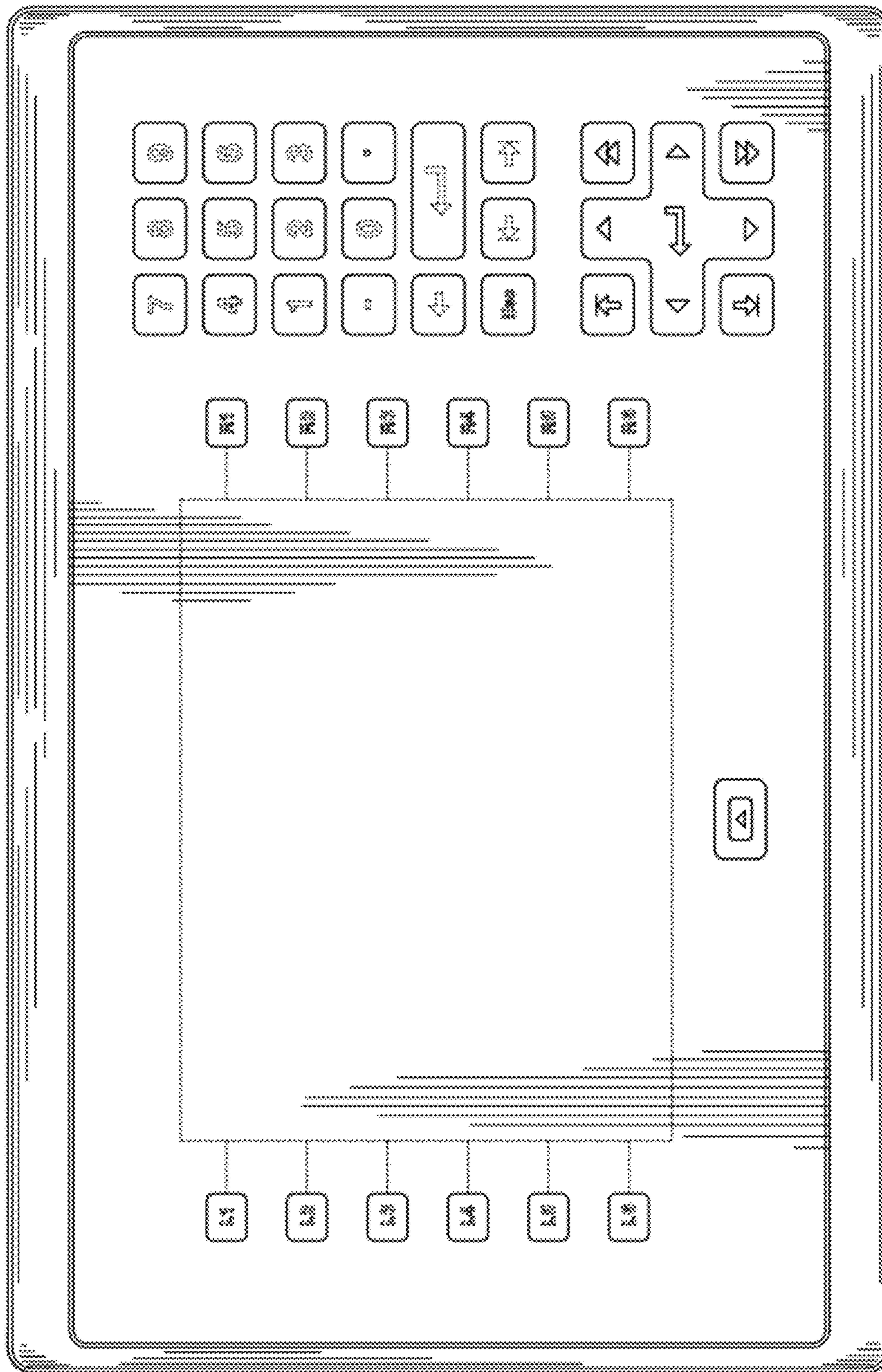


Fig. 2

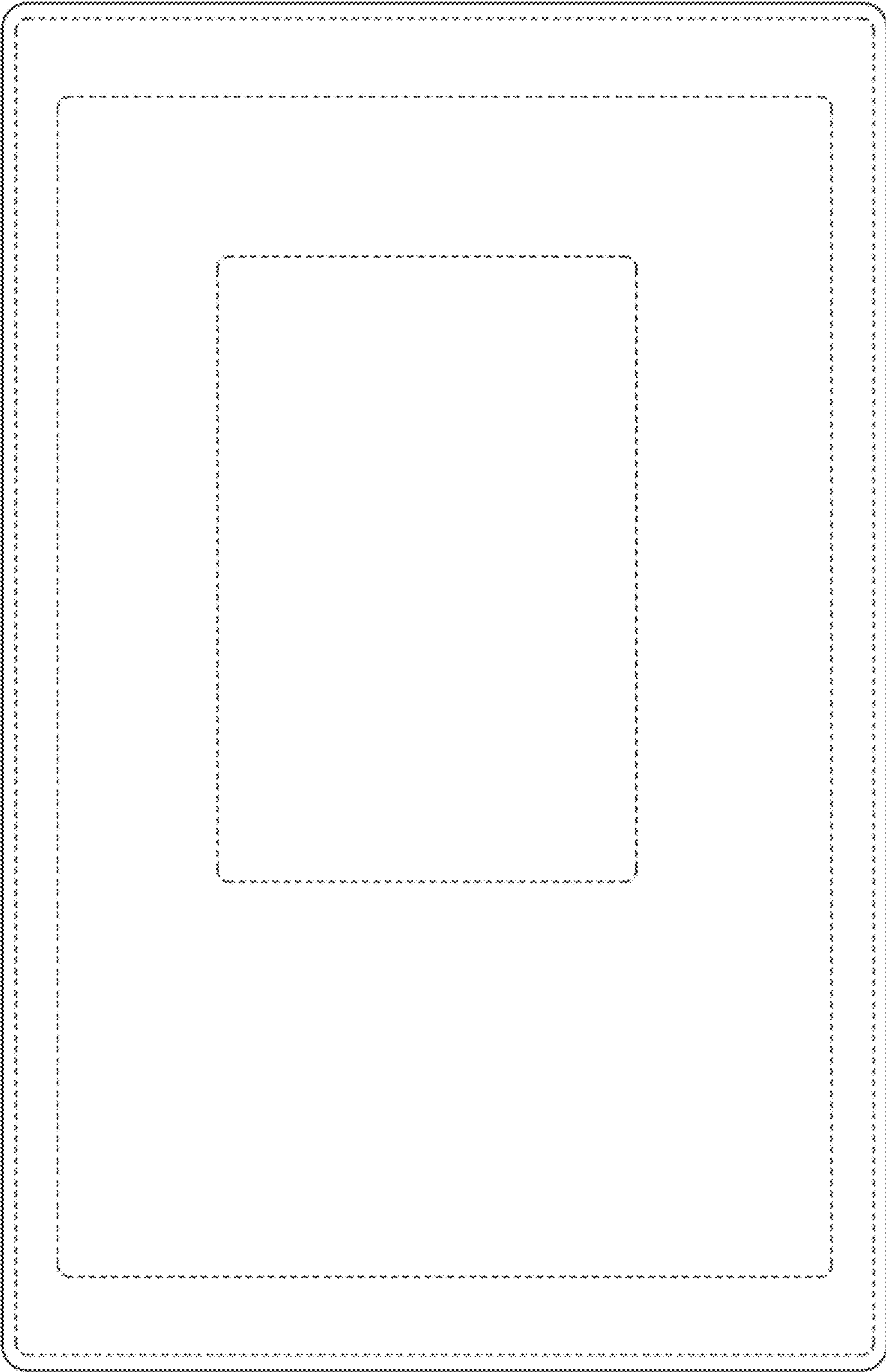


Fig. 3

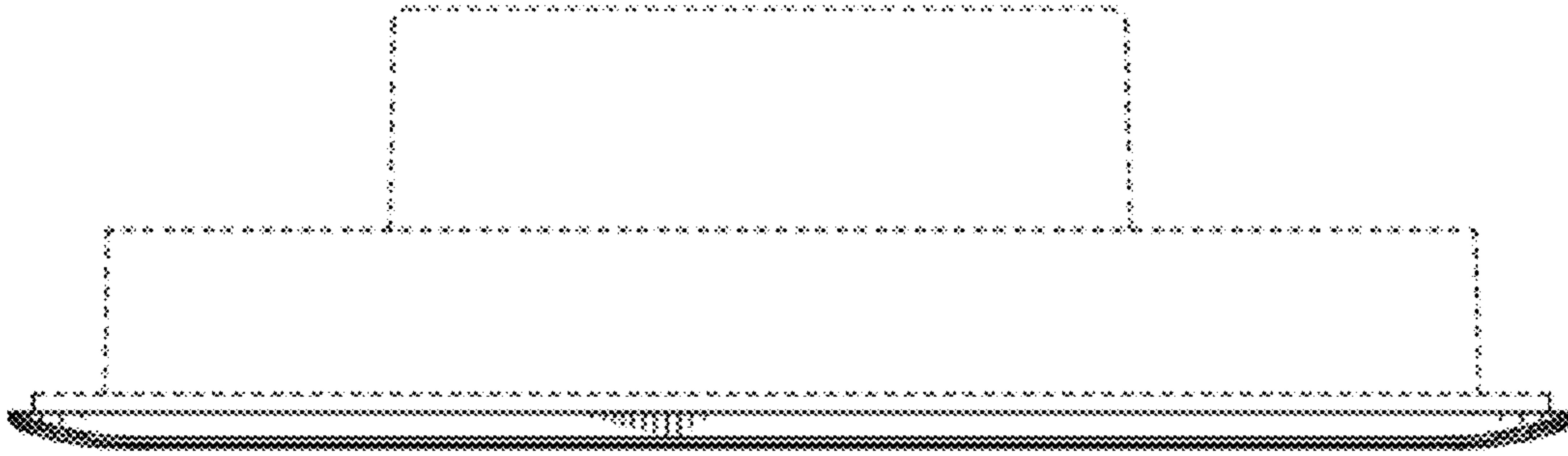


Fig. 5

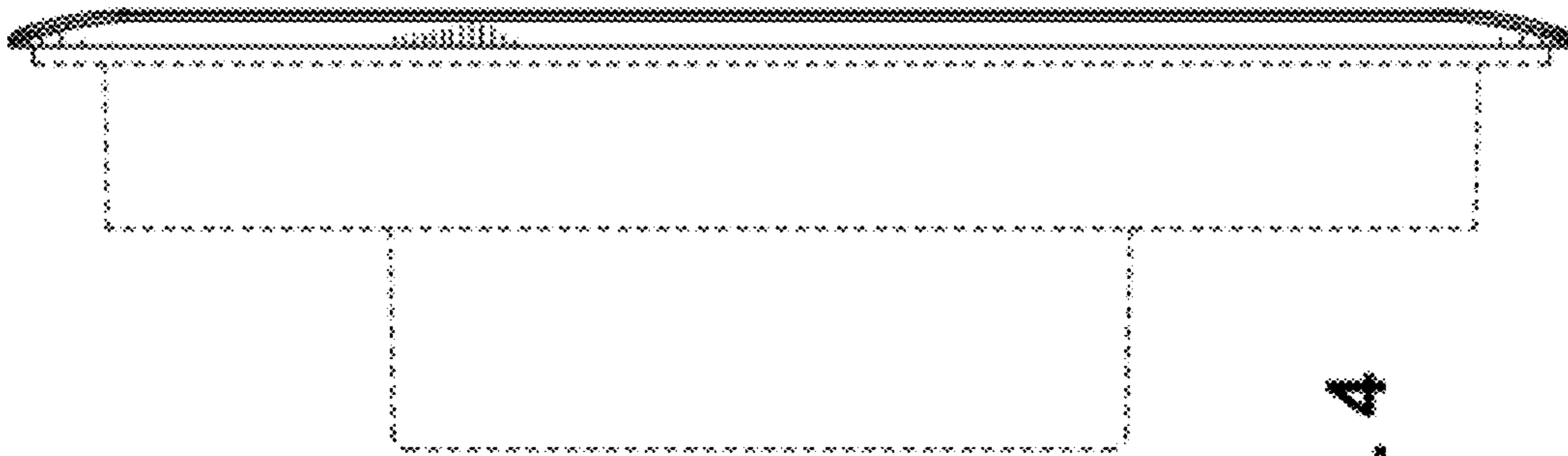


Fig. 4

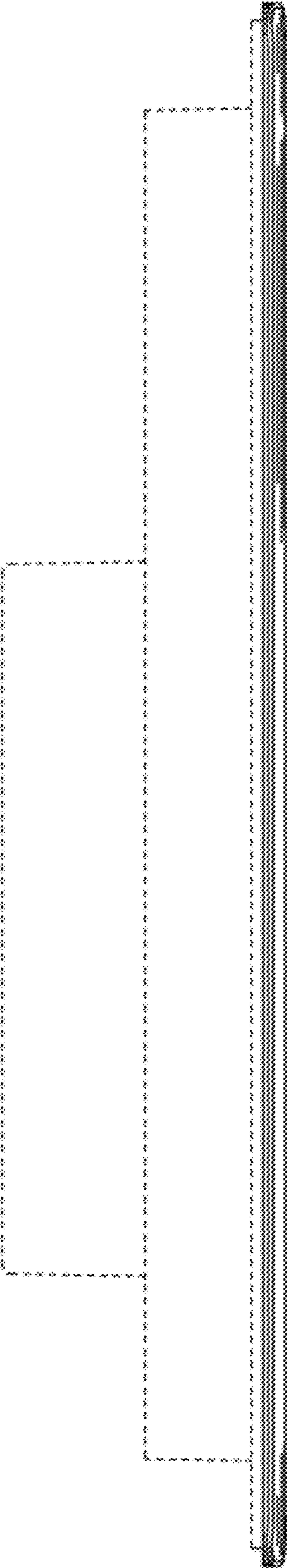


Fig. 6

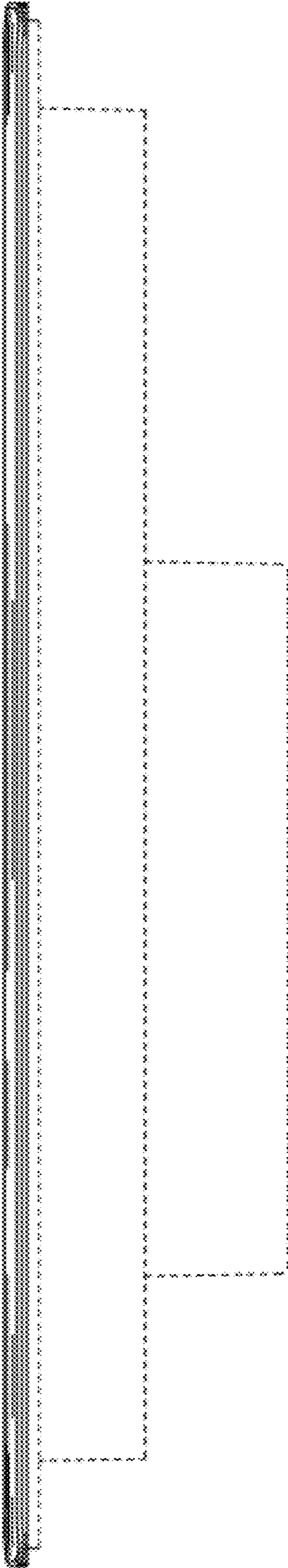


Fig. 7

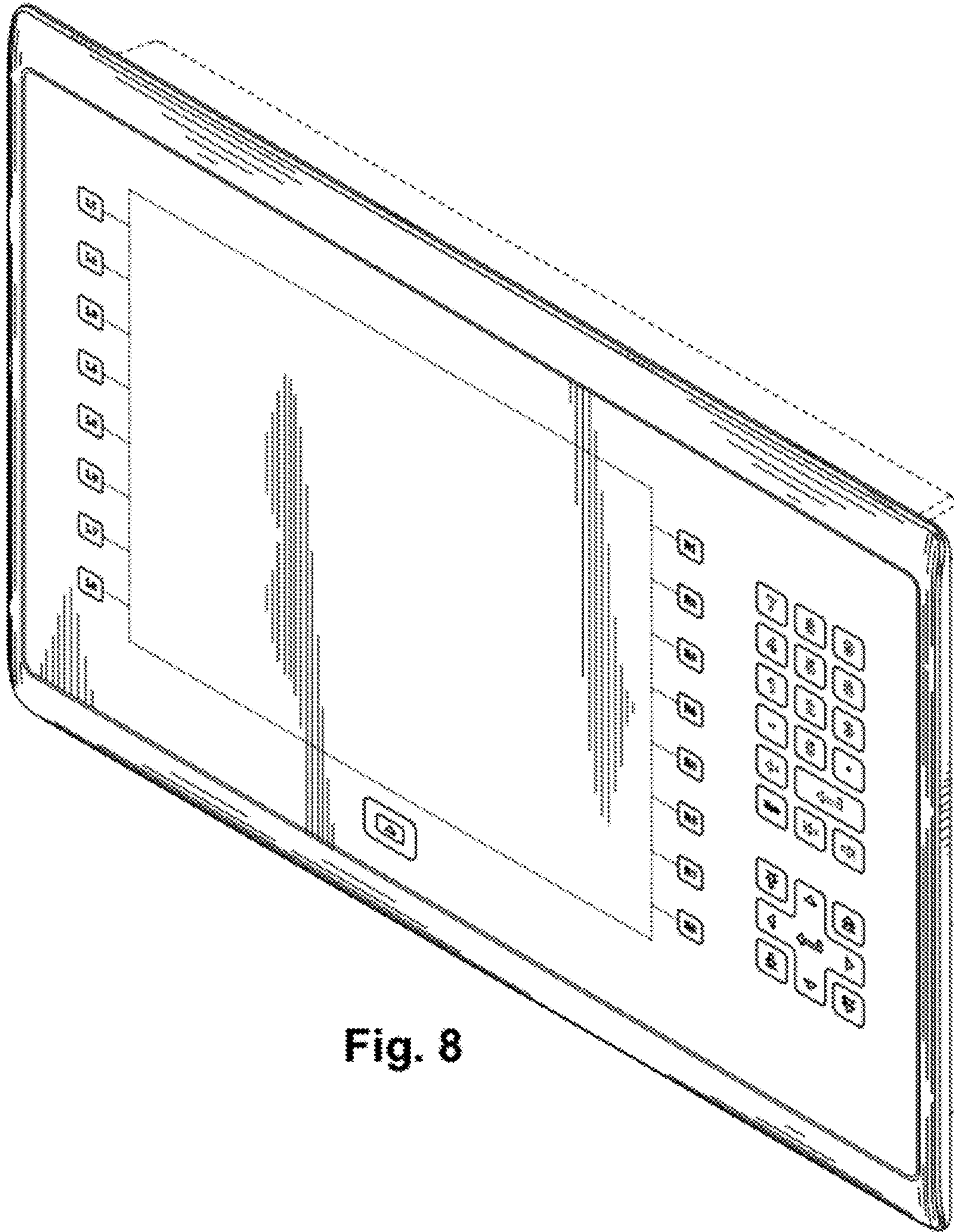


Fig. 8

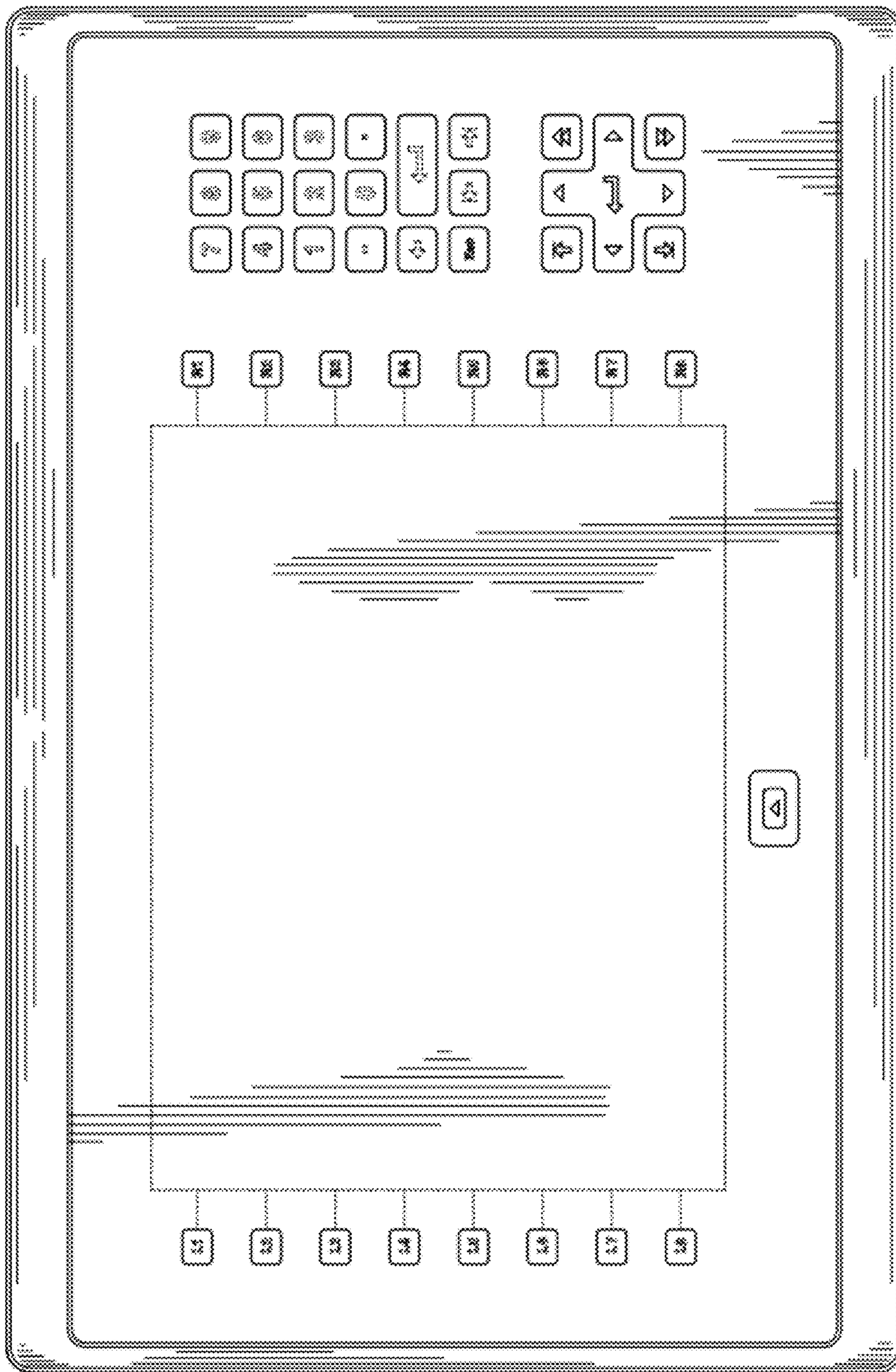


Fig. 9

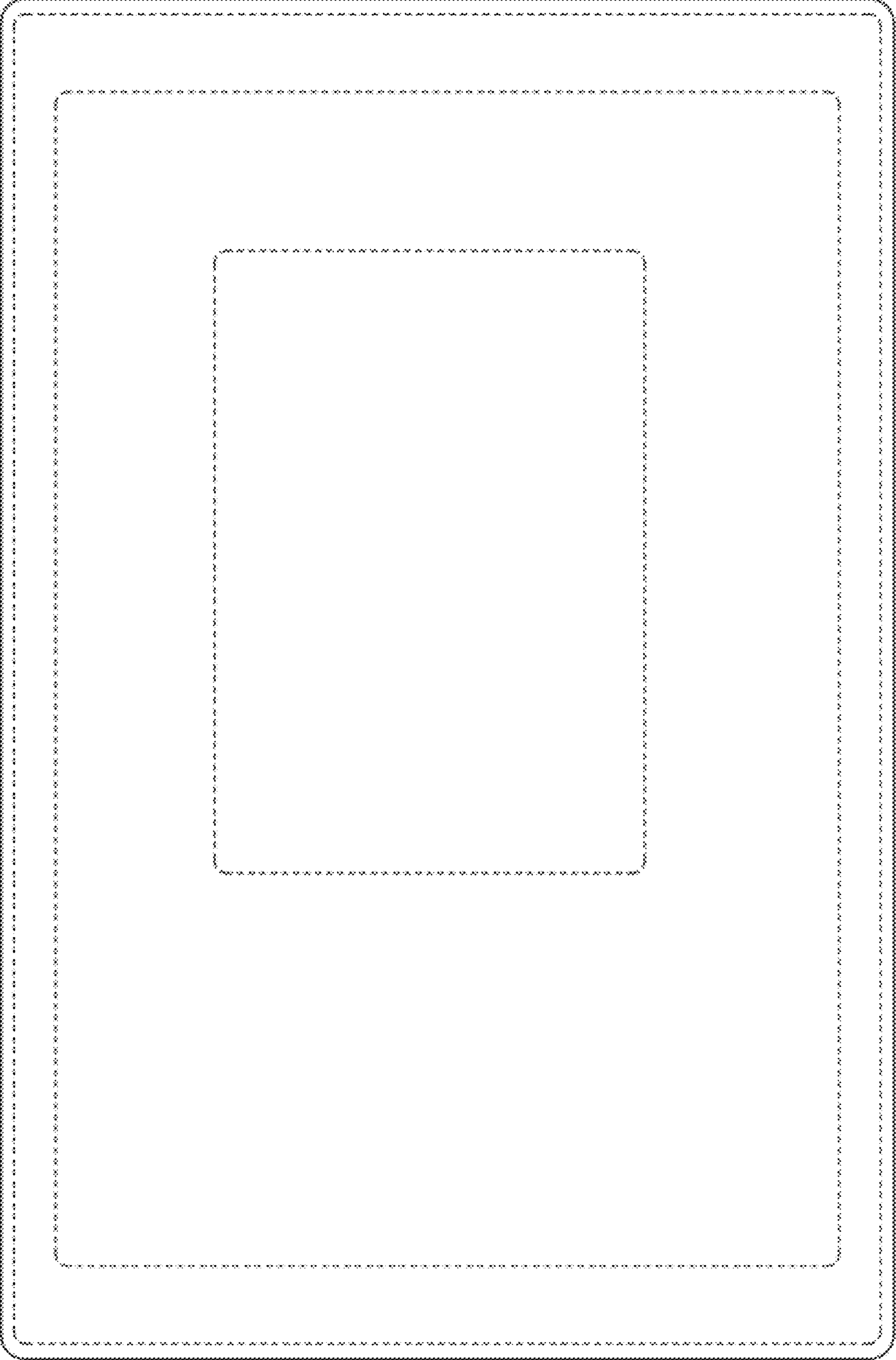


Fig. 10

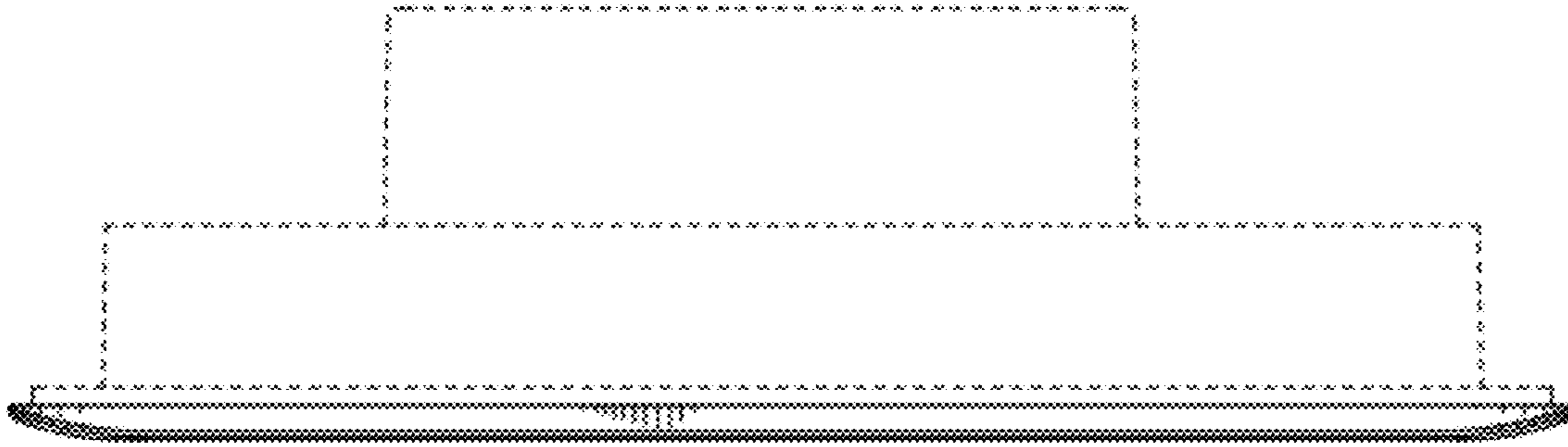


Fig. 12

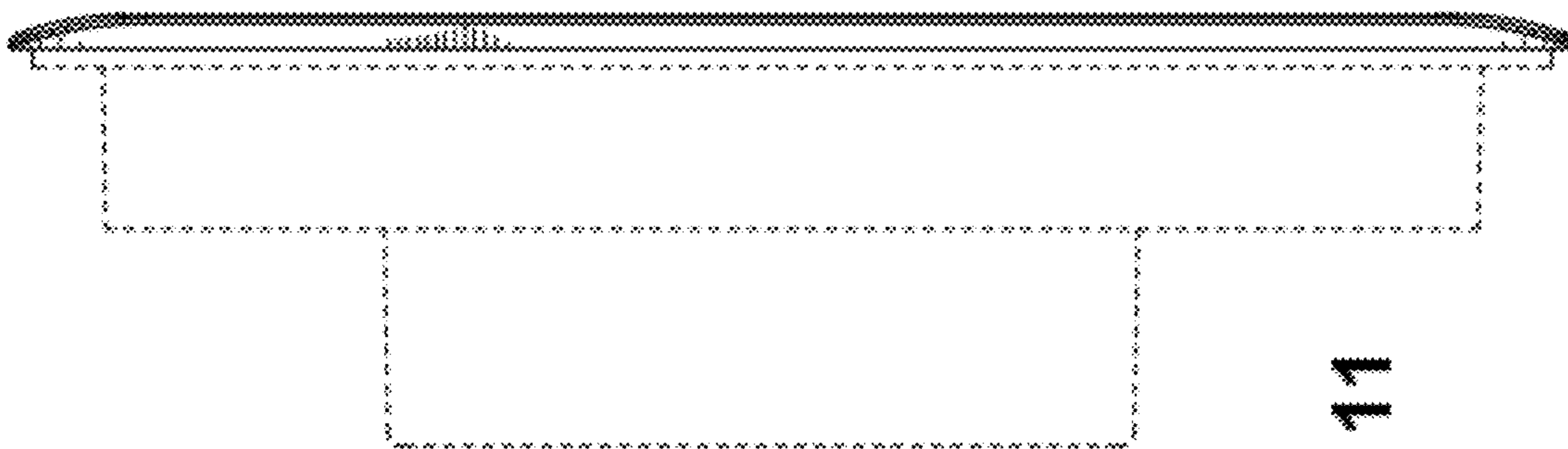


Fig. 11

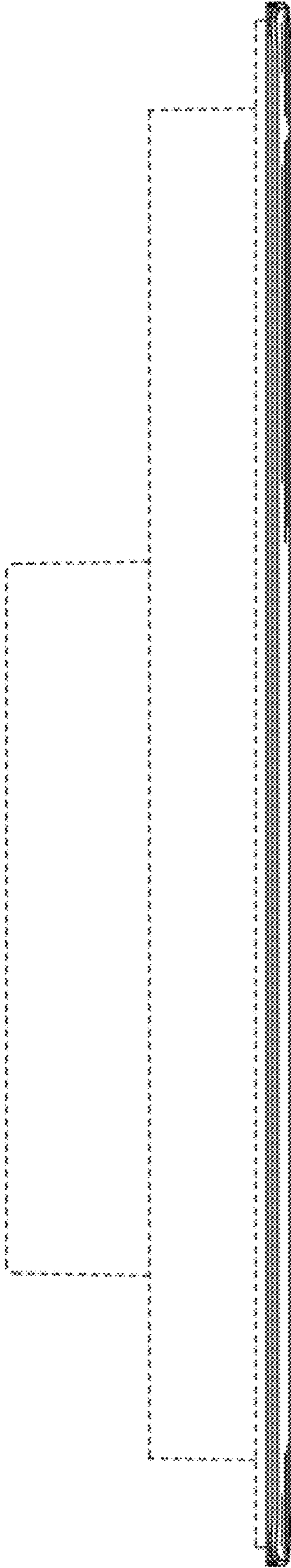


Fig. 13

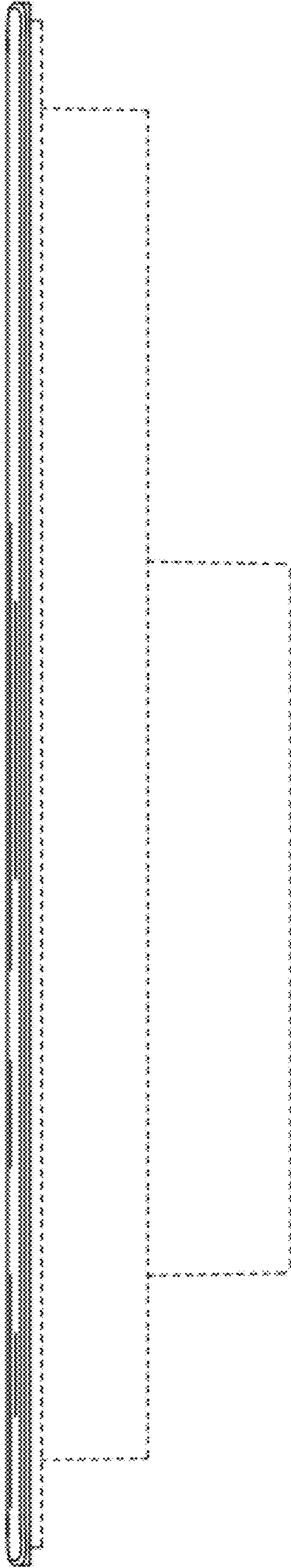


Fig. 14

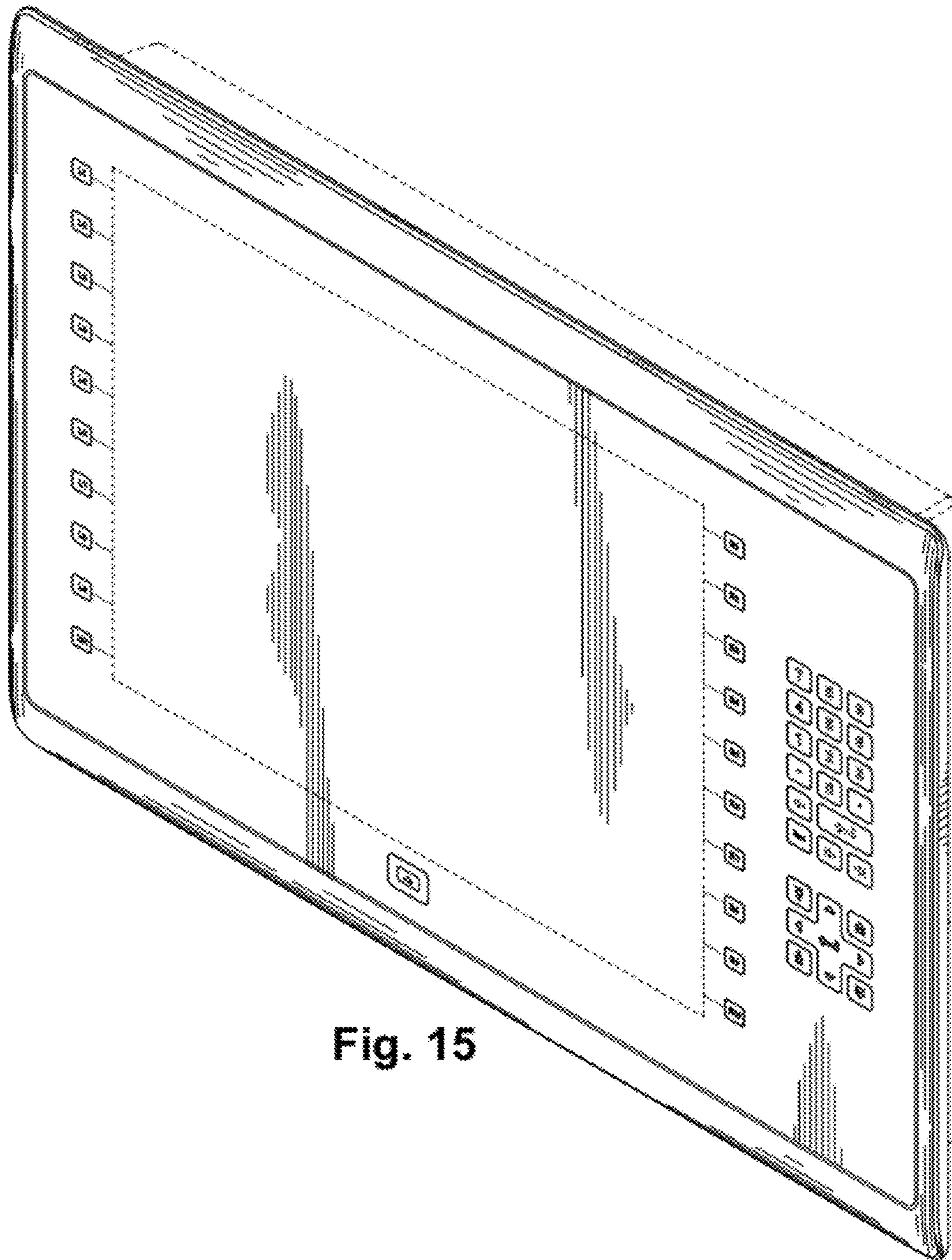


Fig. 15

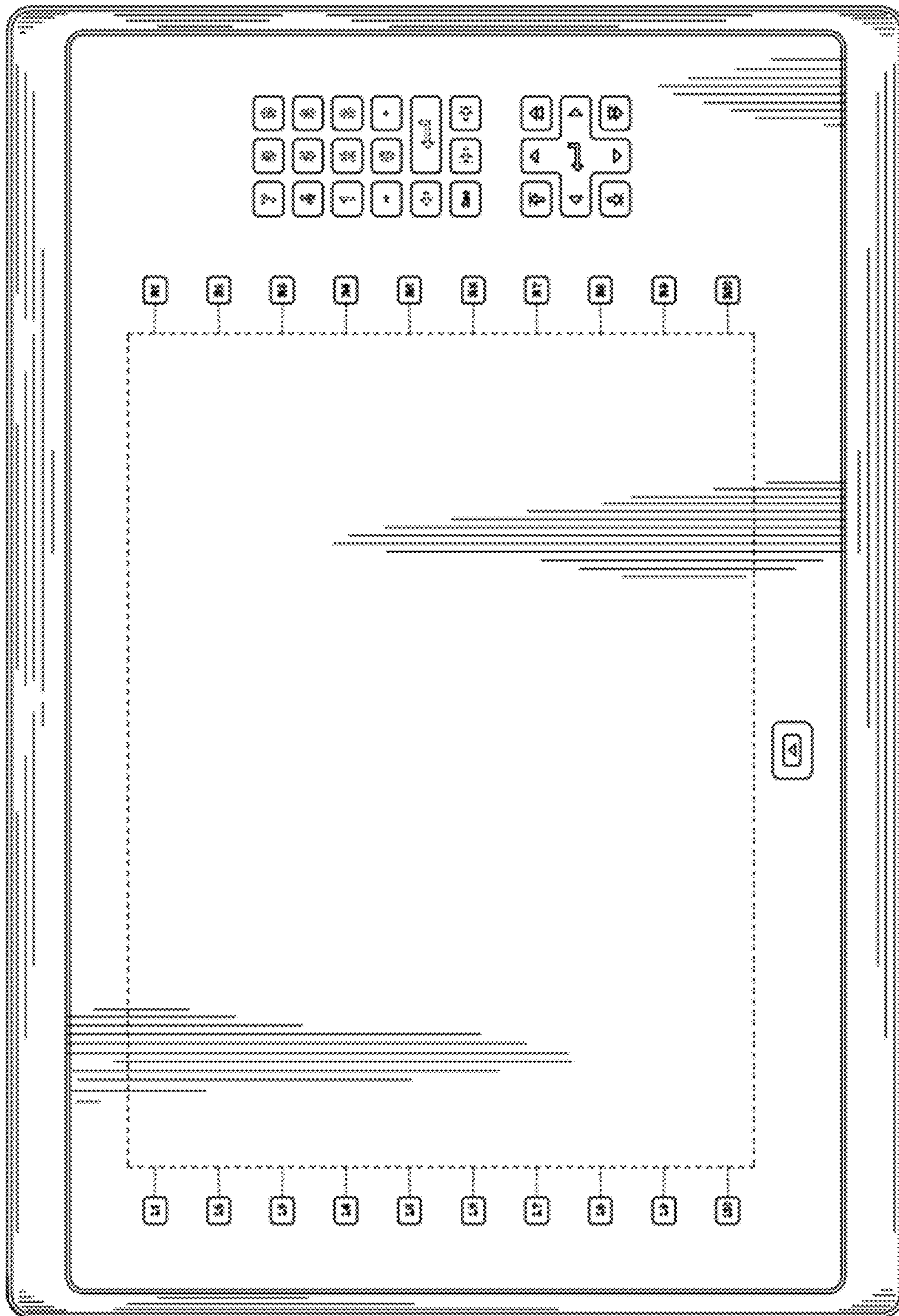


Fig. 16

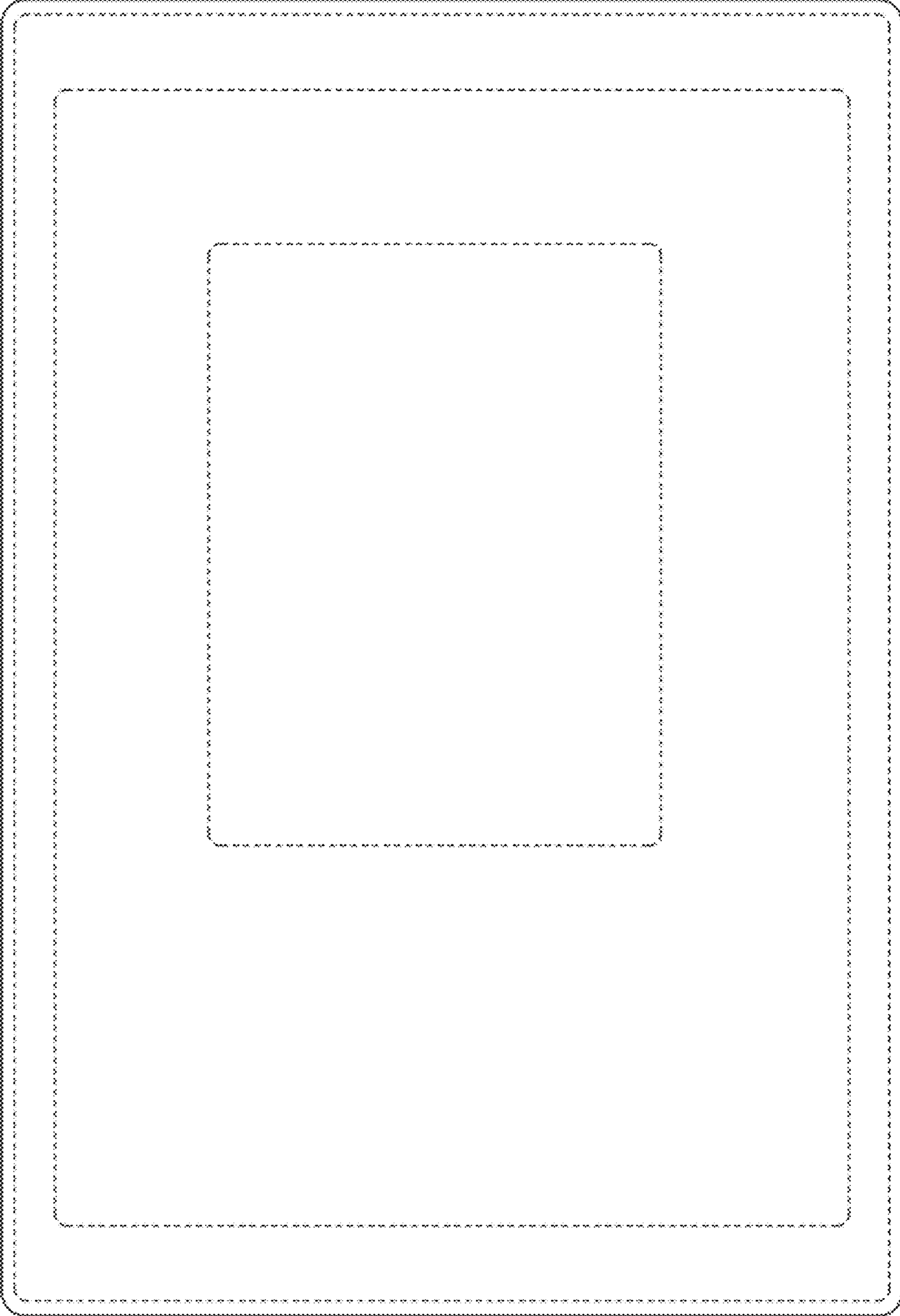


Fig. 17

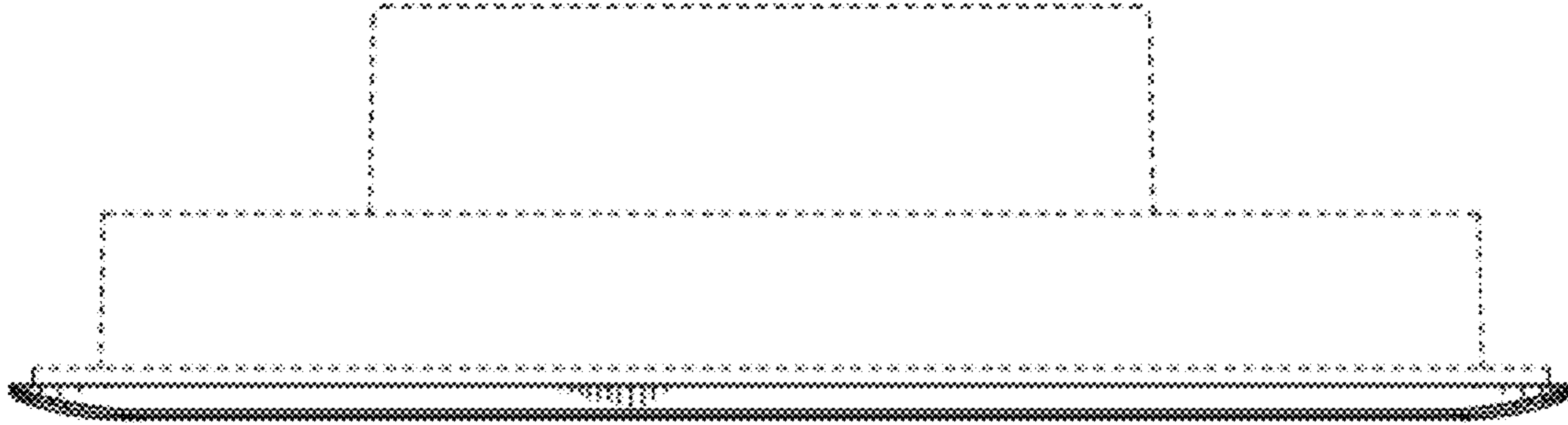


Fig. 19

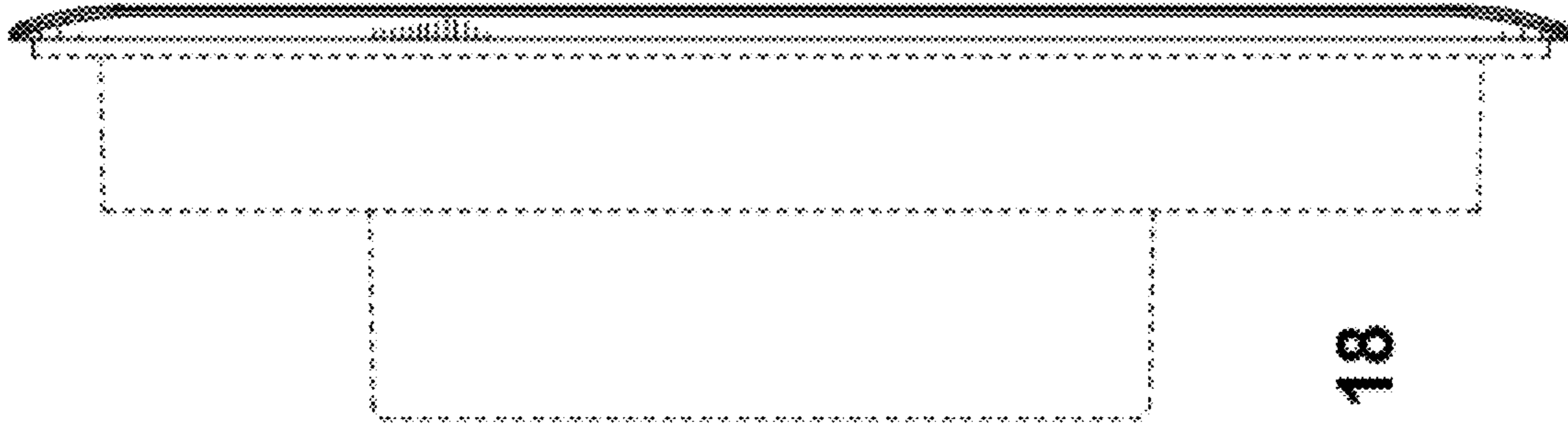


Fig. 18

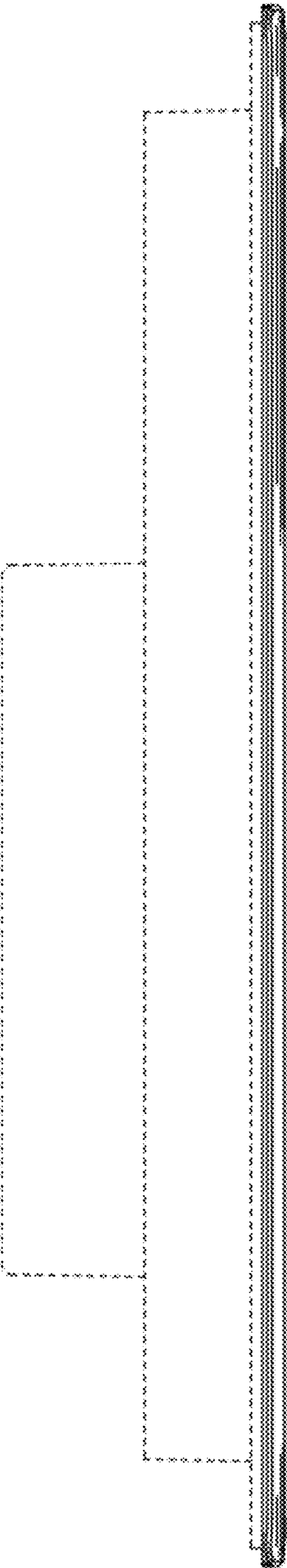


Fig. 20

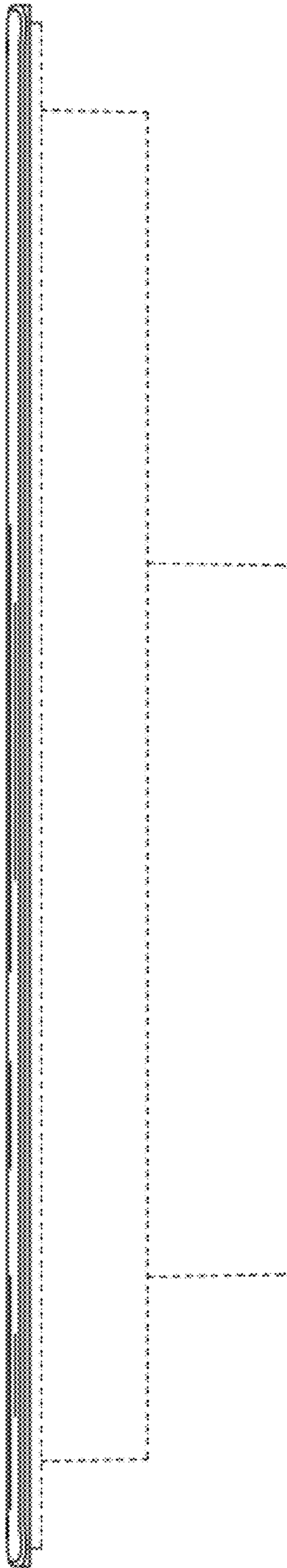


Fig. 21