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

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(45) **Date of Patent:** **** Jun. 12, 2001**

(54) **ELECTRIC METER DRAWOUT CASE**

(75) Inventors: **Martin A. Hancock; Markus F. Hirschbold**, both of Victoria (CA)

(73) Assignee: **Power Measurement Ltd. (CA)**

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

(21) Appl. No.: **29/128,865**

(22) Filed: **Sep. 1, 2000**

(51) **LOC (7) Cl.** **10-04**

(52) **U.S. Cl.** **D10/99**

(58) **Field of Search** D10/75, 78, 99;
324/107, 74, 130, 222, 158.1; 364/571.01

(56) **References Cited**

U.S. PATENT DOCUMENTS

D. 366,434	1/1996	Brown et al.	D10/99
D. 381,281	7/1997	Miller et al.	D10/100
D. 382,498	8/1997	Warwick	D10/75
D. 389,760	1/1998	Mumm et al.	D10/100
D. 406,072	2/1999	Houck et al.	D10/100
D. 412,859	8/1999	Thiel	D10/99
D. 427,533	* 7/2000	Cowan et al.	D10/75
D. 435,471	* 12/2000	Simbeck et al.	D10/99
4,949,029	* 8/1990	Cooper et al.	324/74
5,623,201	* 4/1997	Park	324/107
5,650,717	* 7/1997	Draus et al.	324/74
5,821,742	* 10/1998	Carr et al.	324/74

OTHER PUBLICATIONS

“PowerPlus Alpha® Meter,” *ABB Network Partner*, brochure (May 1997).

“Alpha Solid State Polyphase Meter (Watts, VARs, VA),” *ABB Power T&D Company Inc. Bulletin 42-270-B*, pp. 1-12, Sep. 15, 1995.

“Vectron® SVX Solid-State Polyphase Meters,” *Schlumberger*, Bulletin 11314 (Mar., 1996).

“QUAD4® Plus and MAXsys® Meters and IEDs,” Siemens Power Transmission & Distribution, LLC, ST&D Meter Division, Charlotte, NC 28273, Brochure, pp. 1-13, (Apr. 1998).

“MAXsys® 2510 Substation/High-End Direct Access Meter,” *Siemens* brochure (MAX2510DSO, Apr. 1998).

“7330 ION®” Digital 3-Phase Power Meter, *Power Measurement*, brochure, revised Jul. 23, 1998, first published Feb. 1, 1998, pp. 1-6.

“7700 ION®” 3-Phase Power Meter Analyzer and Controller, *Power Measurement*, brochure, revised Dec. 8, 1998, first published Mar. 31, 1995.

“MARK-V Digital True RMS Energy Meter,” *TransData, Inc.*, Bulletin.

“American National Standard for Electric Meters—Code for Electricity Metering,” “American National Standard for Electric Meters—Code for Electricity Metering,” *ican National Standard*, Document ANSI C12.1 (1995).

“American National Standard for Electromechanical Watthour Meters,” *The Institute of Electrical and Electronics Engineers, Inc.*, ANSI C12 (1987) (Revision of ANSCI C12-10-1978).

(List continued on next page.)

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(57) **CLAIM**

The ornamental design for an electric meter drawout case, as shown and described.

DESCRIPTION

FIG. 1 is a bottom front perspective view of the electric meter drawout case of the invention;

FIG. 2 is a rear perspective view of the electric meter drawout case illustrated in FIG. 1;

FIG. 3 is a front view thereof;

FIG. 4 is a top view thereof;

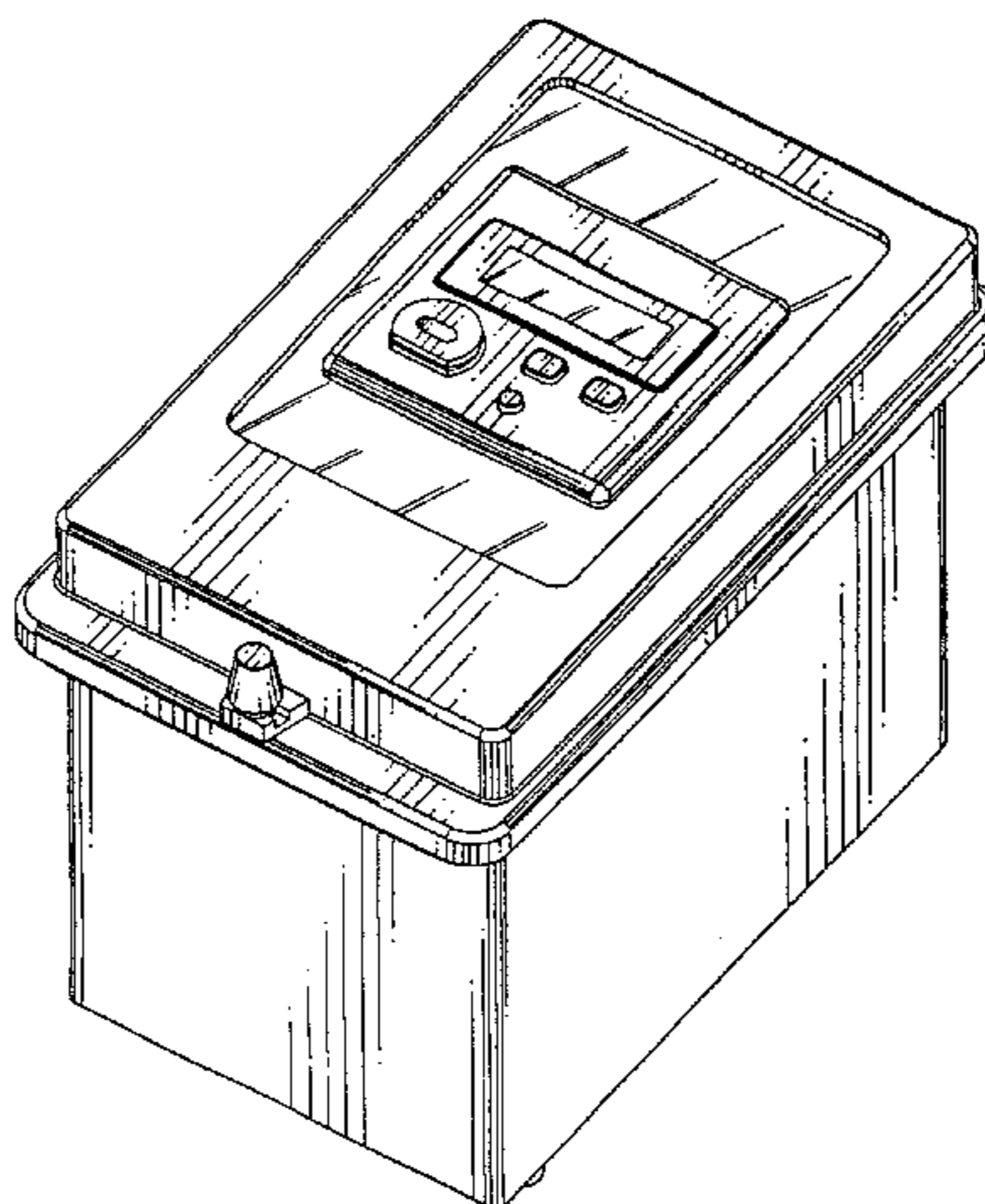
FIG. 5 is a right side view thereof;

FIG. 6 is a left side view thereof;

FIG. 7 is a bottom view thereof; and,

FIG. 8 is the rear end view thereof.

1 Claim, 3 Drawing Sheets



OTHER PUBLICATIONS

“American National Standard for Electricity Meters 0.2 and 0.5 Accuracy Classes,” *American National Standards*, ANSI C12.20–(1998).

“ISO—Specification MTR1–96, Engineering Specification For Polyphase Solid–State Electricity Meters For Use On The ISO Grid,” Exhibit A, pp. 1–42 (1997).

“Specifications For Approval Of Type of Electricity Meters, Instrument Transformers And Auxiliary Devices,” *Consumer and Corporate Affairs Canada*.

International Standard, Alternating current static watt–hour meters for active energy (classes 0,2 S and 0,5 S), *International Electrotechnical Commission*, second edition (1992).

“Meter–Mounting Devices, Industrial Products,” *Canadian Standards Association*, C22.2 No. 115–M (1989).

“Alternating–Current Electricity Metering, Electric Power Systems and Equipment,” *Canadian Standards Association*, CAN3–C17–M (1984).

International Standard, Amendment 1 to Publication 868 (1986), *International Electrotechnical Commission*, Modification 1 (1986).

International Standard, Electromagnetic Compatibility (EMC)—Part 4: Testing and measurement techniques—Section 15: Flickermeter—Functional and design specifications, *International Electrotechnical Commission*, 61000 4–15 (1997).

* cited by examiner

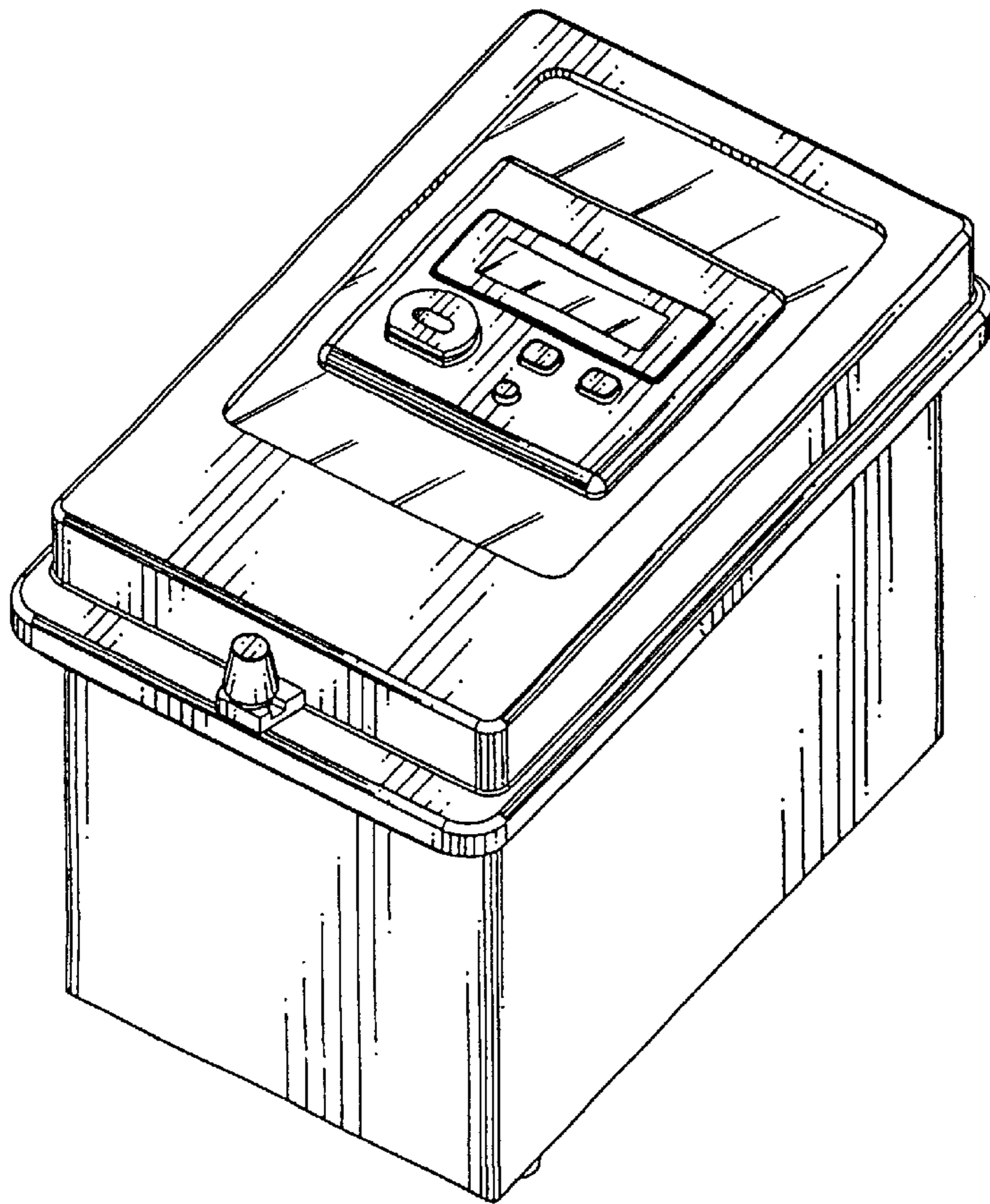


Fig. 1

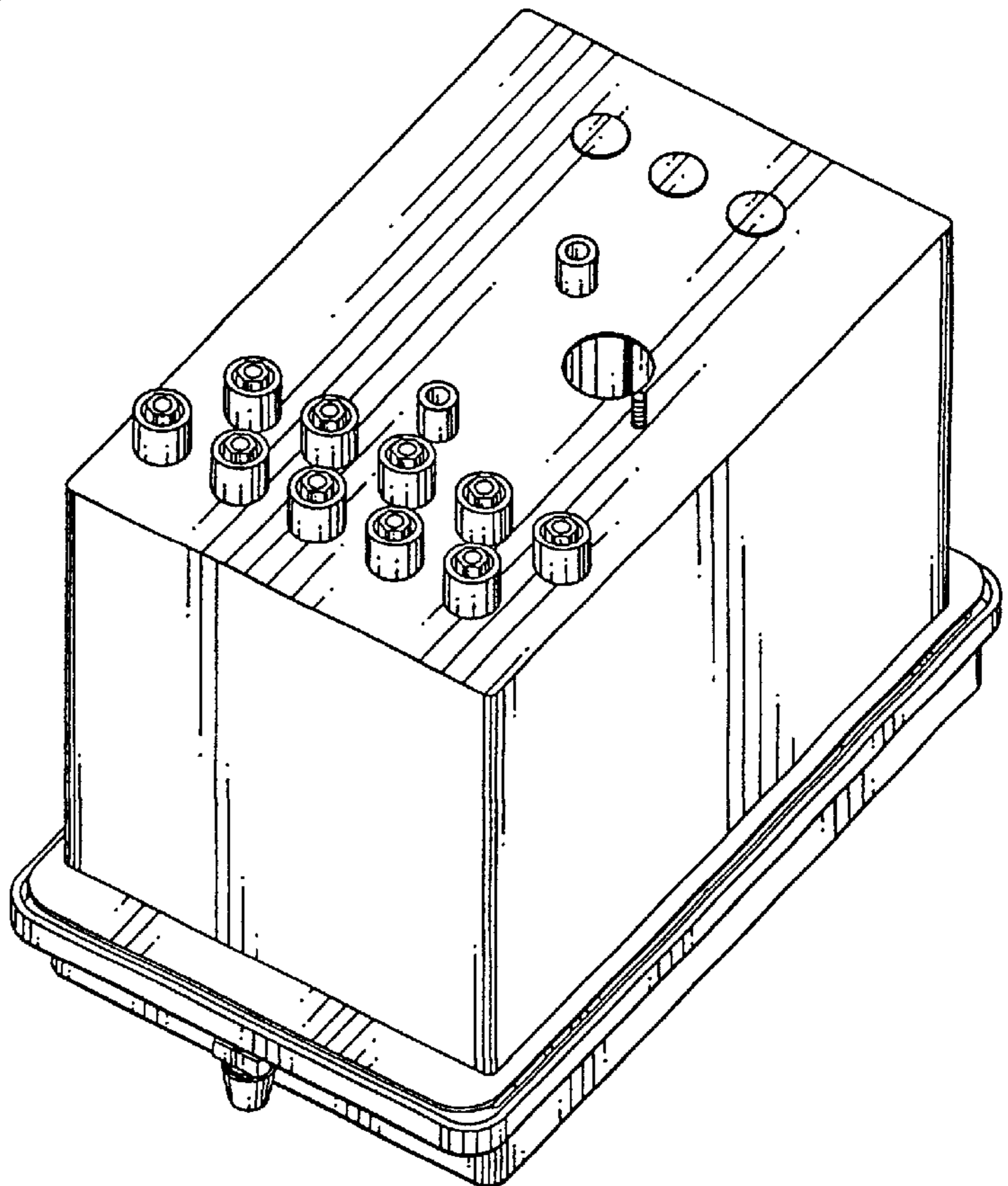


Fig. 2

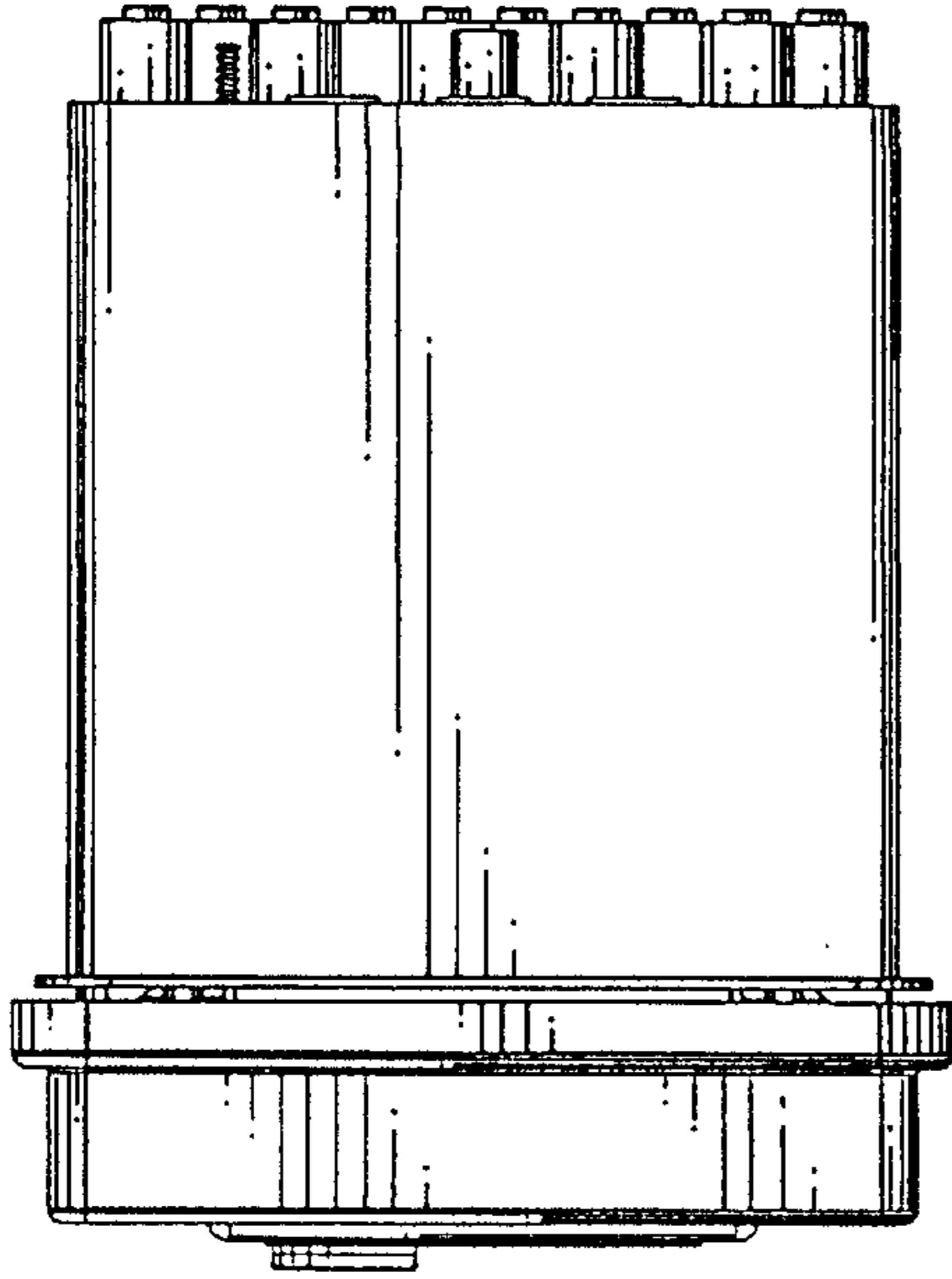


Fig. 4

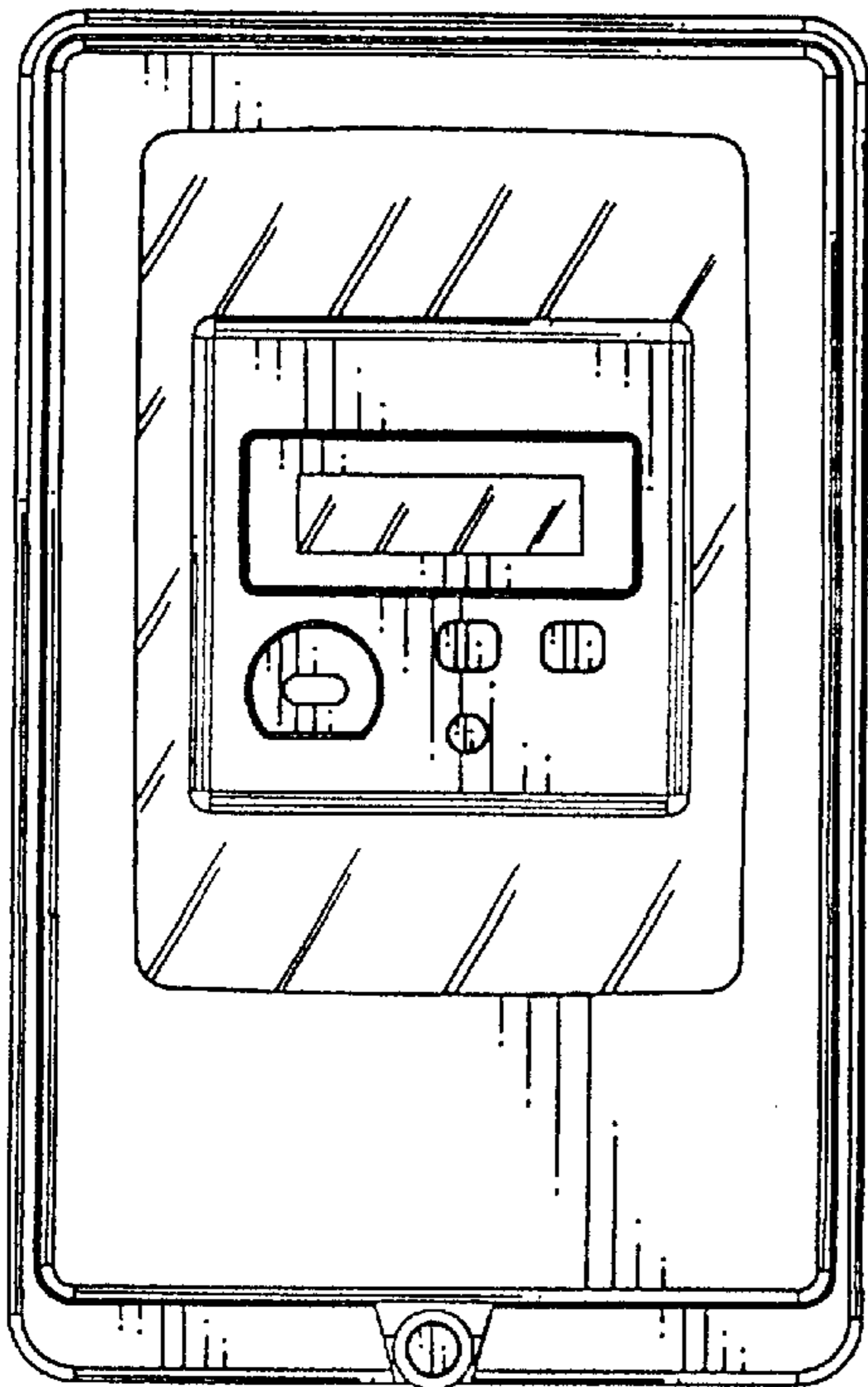


Fig. 3

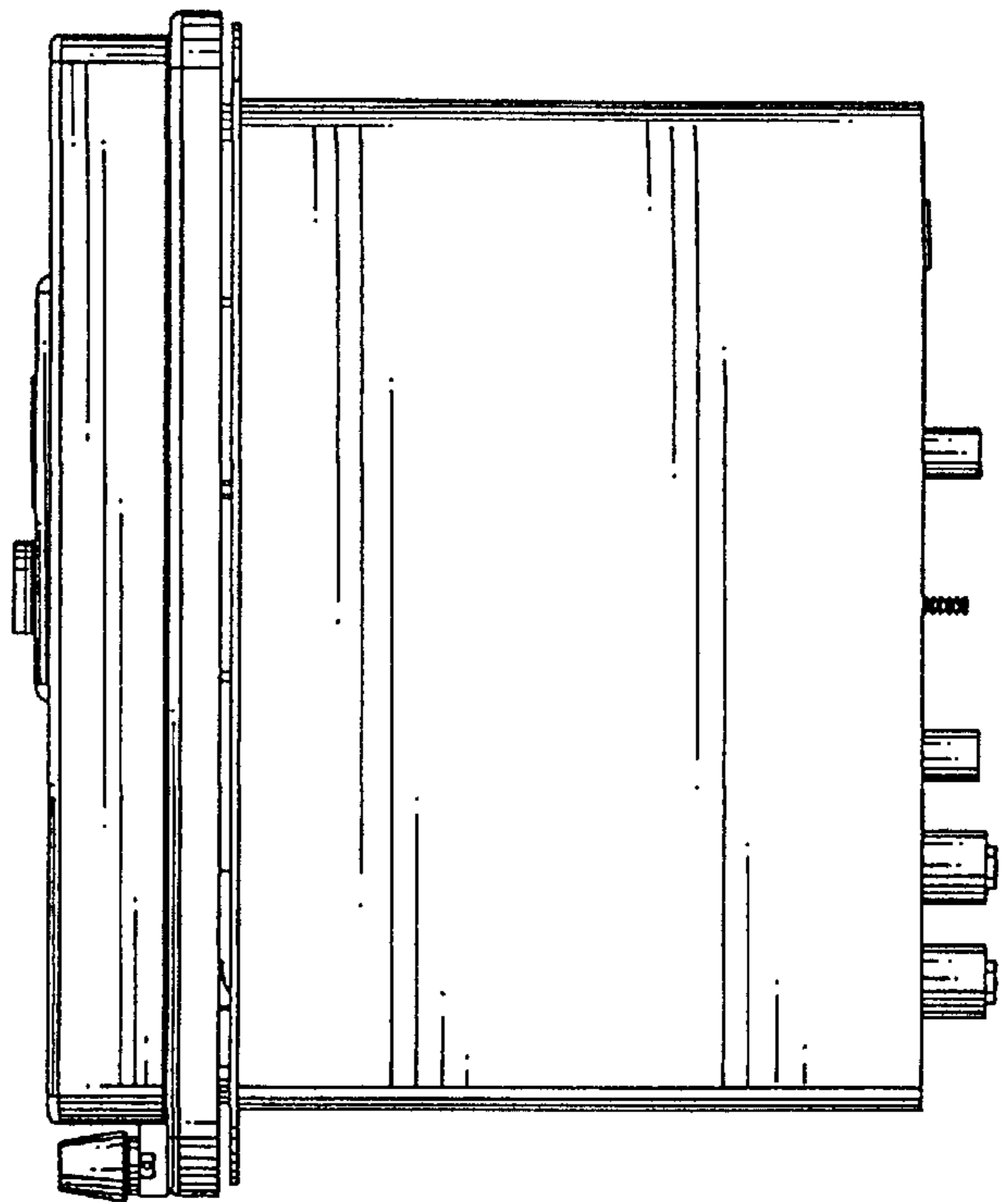


Fig. 5

Fig. 8

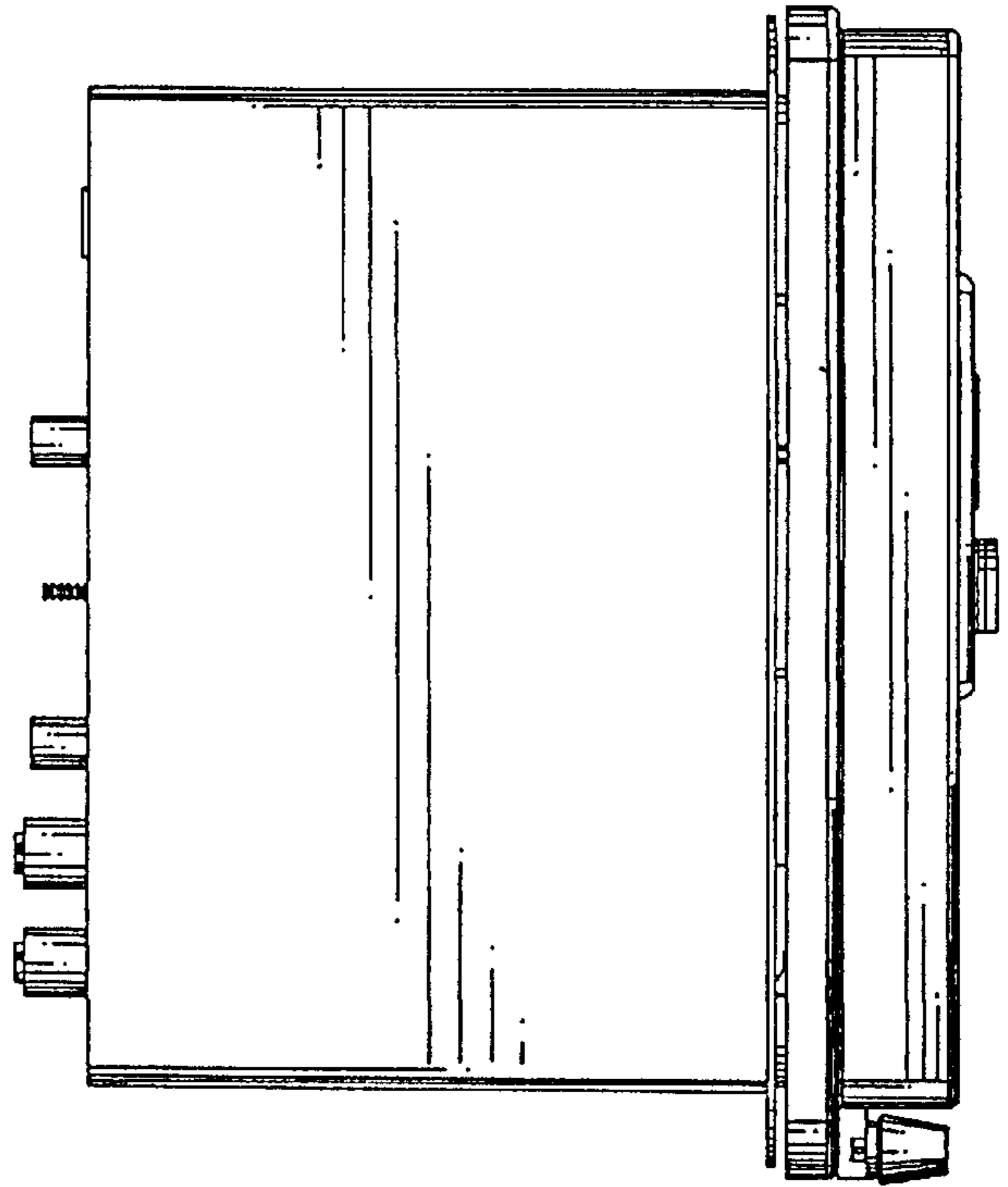
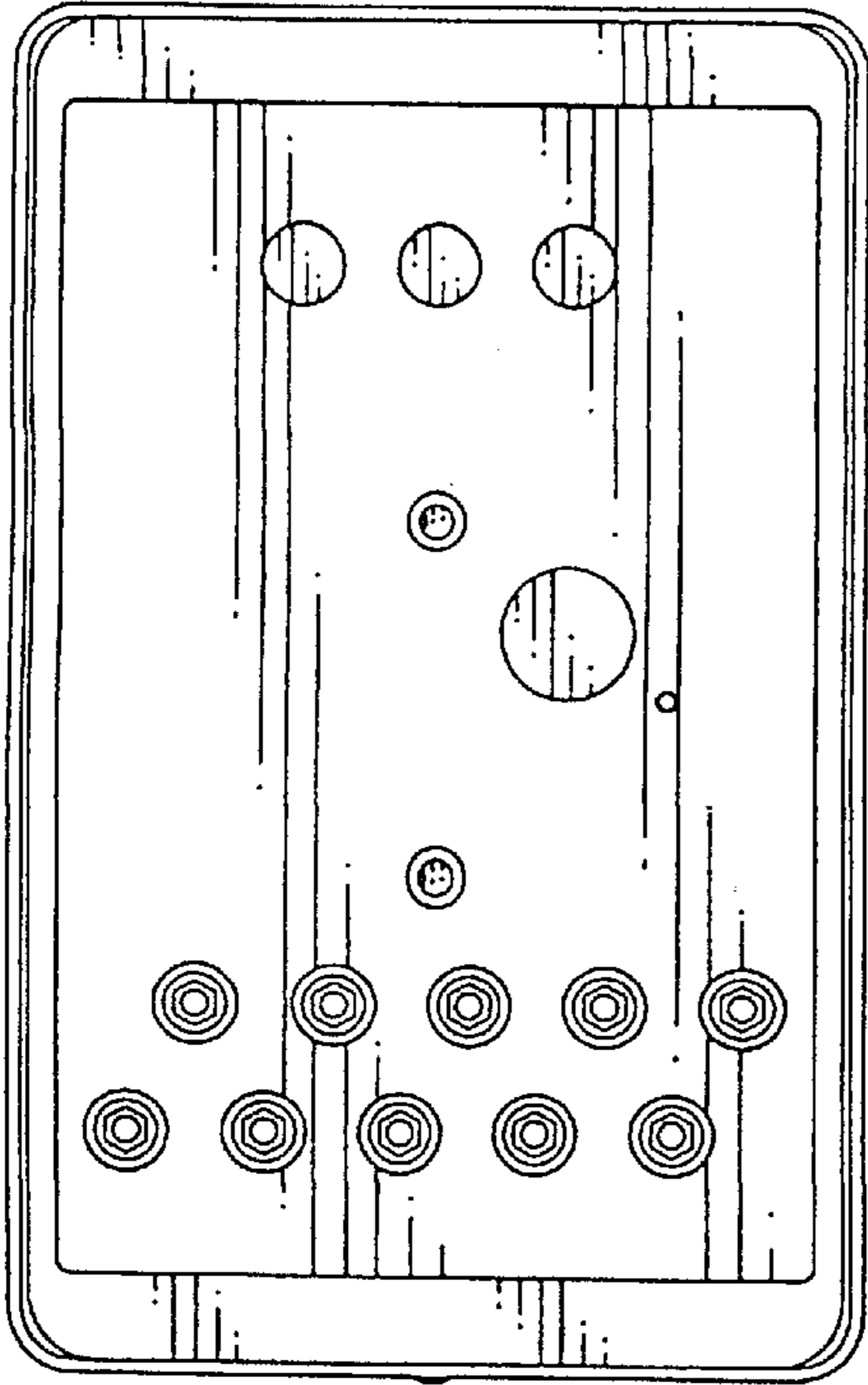


Fig. 6

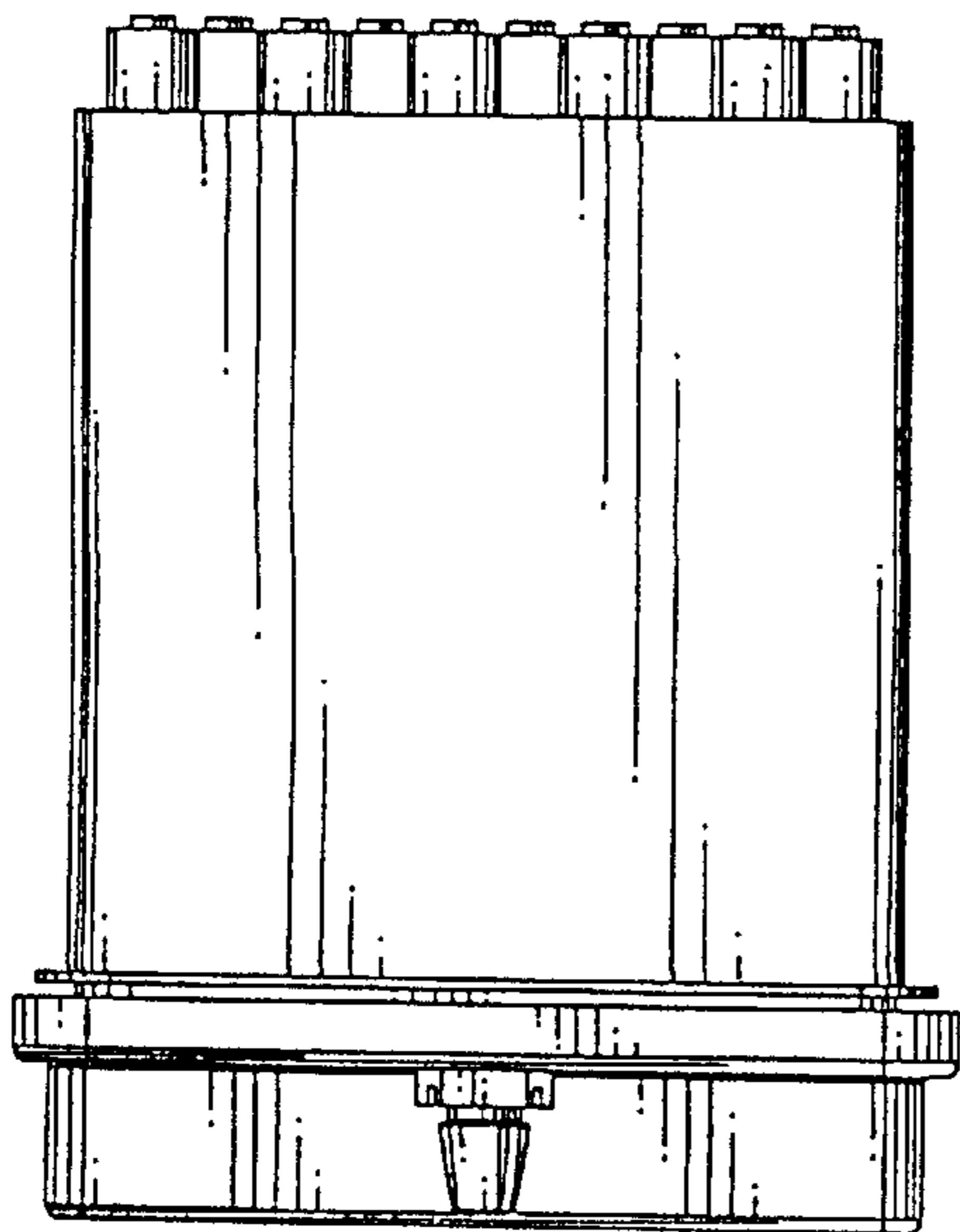


Fig. 7

UNITED STATES PATENT AND TRADEMARK OFFICE
Certificate

Patent No. D 443,541 S

Patented: June 12, 2001

On petition requesting issuance of a certificate for correction of inventorship pursuant to 35 U.S.C. 256, it has been found that the above identified patent, through error and without any deceptive intent, improperly sets forth the inventorship.

Accordingly, it is hereby certified that the correct inventorship of this patent is: Martin A. Hancock, Victoria, Canada; Markus F. Hirschbold, Victoria, Canada; and John David Konye, Livonia, MI.

Signed and Sealed this Fourteenth Day of October 2003.

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