



US00D386148S

United States Patent [19]

[11] Patent Number: **Des. 386,148**

Katooka et al.

[45] Date of Patent: *****Nov. 11, 1997**

[54] **PORTABLE POWER SUPPLY UNIT WITH AC-DC CONVERTER**

D. 334,560 4/1993 Wilson D13/110 X
4,295,179 10/1981 Read 174/52.1 X
4,300,087 11/1981 Meisner 37/150 X

[75] Inventors: **Masao Katooka, Kawanishi; Toru Arai, Shimochoja-machi; Shigeru Okamoto, Hirakata; Kenzo Danjo, Kyoto-fu; Masaharu Tanaka, Osaka, all of Japan**

OTHER PUBLICATIONS

SanRex Arc Friend (4 pg. brochure) (date prior to Jun. 6, 1994).

[73] Assignee: **Sansaha Electric Manufacturing Co., Ltd., Higashiyodogawa-ku, Japan**

Primary Examiner—Joel Sincavage
Attorney, Agent, or Firm—William H. Murray; Robert E. Rosenthal

[*] Notice: The portion of the term of this patent subsequent to Jan. 14, 2011, has been disclaimed.

[57] CLAIM

The ornamental design for a portable power supply unit with AC-DC converter, as shown and described.

[**] Term: **14 Years**

DESCRIPTION

[21] Appl. No.: **55,205**

FIG. 1 is a front and right side perspective view of a portable power supply unit with AC-DC converter showing our new design;

[22] Filed: **May 31, 1996**

FIG. 2 is a rear and left side perspective view thereof;

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 39,633, Jun. 1, 1995.

FIG. 3 is a front elevational view thereof;

[30] Foreign Application Priority Data

Dec. 6, 1994 [JP] Japan 6-37410

FIG. 4 is a rear elevational view thereof;

[51] LOC (6) Cl. **13-02**

FIG. 5 is a left side elevational view thereof;

[52] U.S. Cl. **D13/110**

FIG. 6 is a right side elevational view thereof;

[58] Field of Search D13/110; 307/64, 307/65, 150; 363/15

FIG. 7 is a top plan view thereof;

FIG. 8 is a bottom plan view thereof; and,

FIG. 9 is a cross-sectional view thereof along the line A—A in FIG. 3.

[56] References Cited

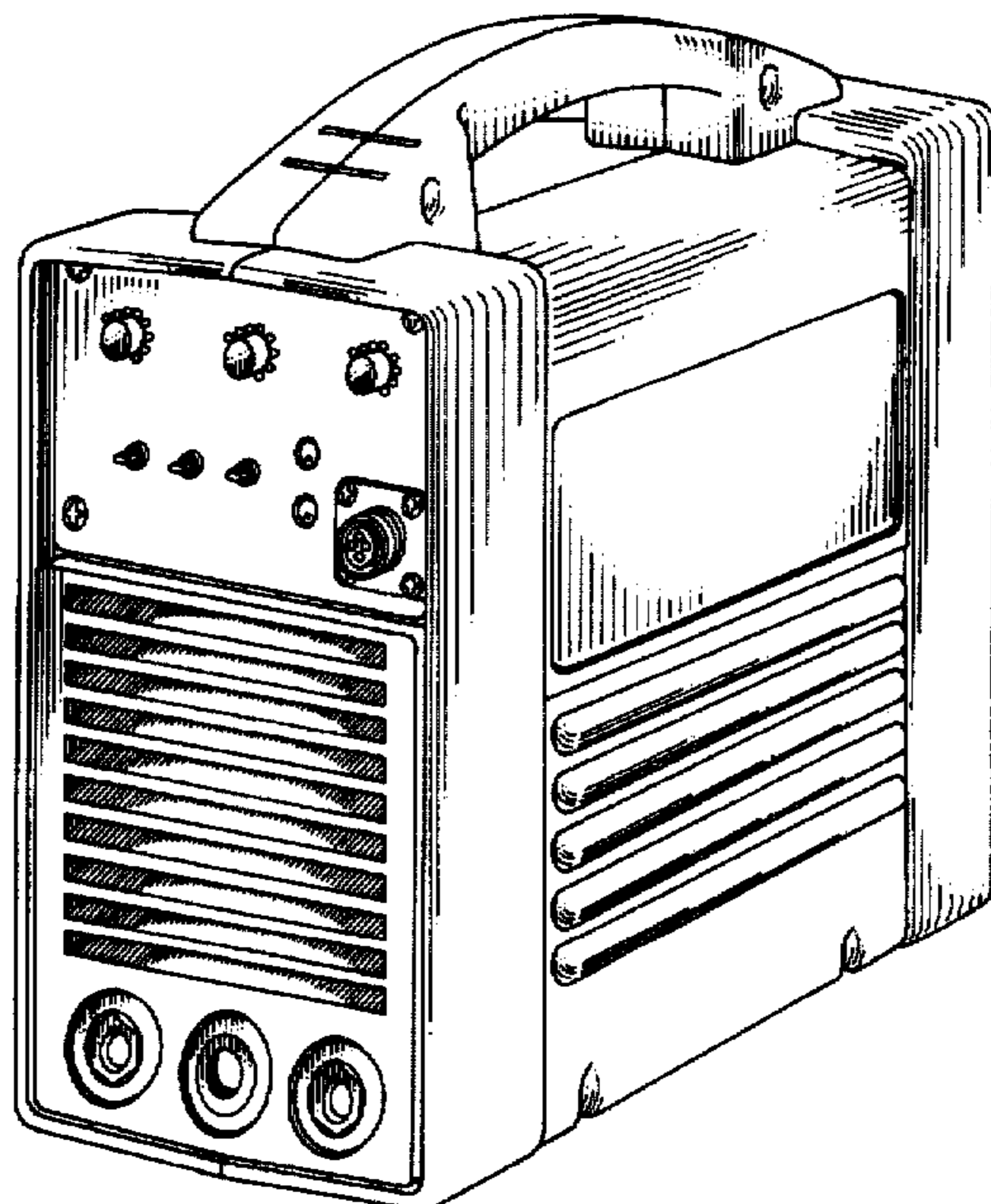
U.S. PATENT DOCUMENTS

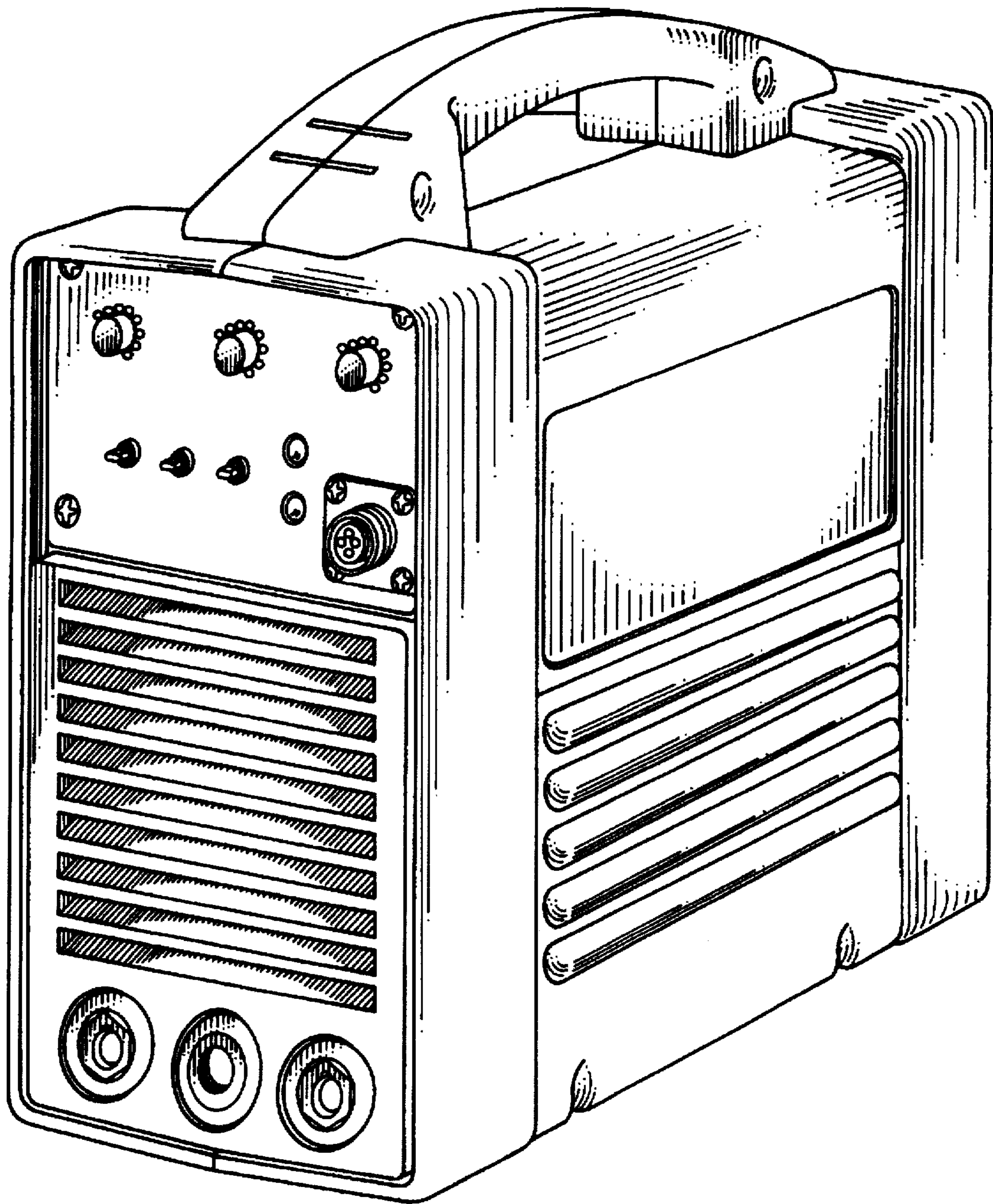
D. 264,962 6/1982 Fellmann D13/110
D. 276,495 11/1984 Sylvia D13/110 X
D. 280,318 8/1985 Barone D13/110
D. 311,899 11/1990 Lenzing et al. D13/110 X

The cross-sectional view is included for the purpose of showing external surface contours which may not be clear from the remaining illustrations. Any features of internal construction which are incidentally shown form no part of the claimed design.

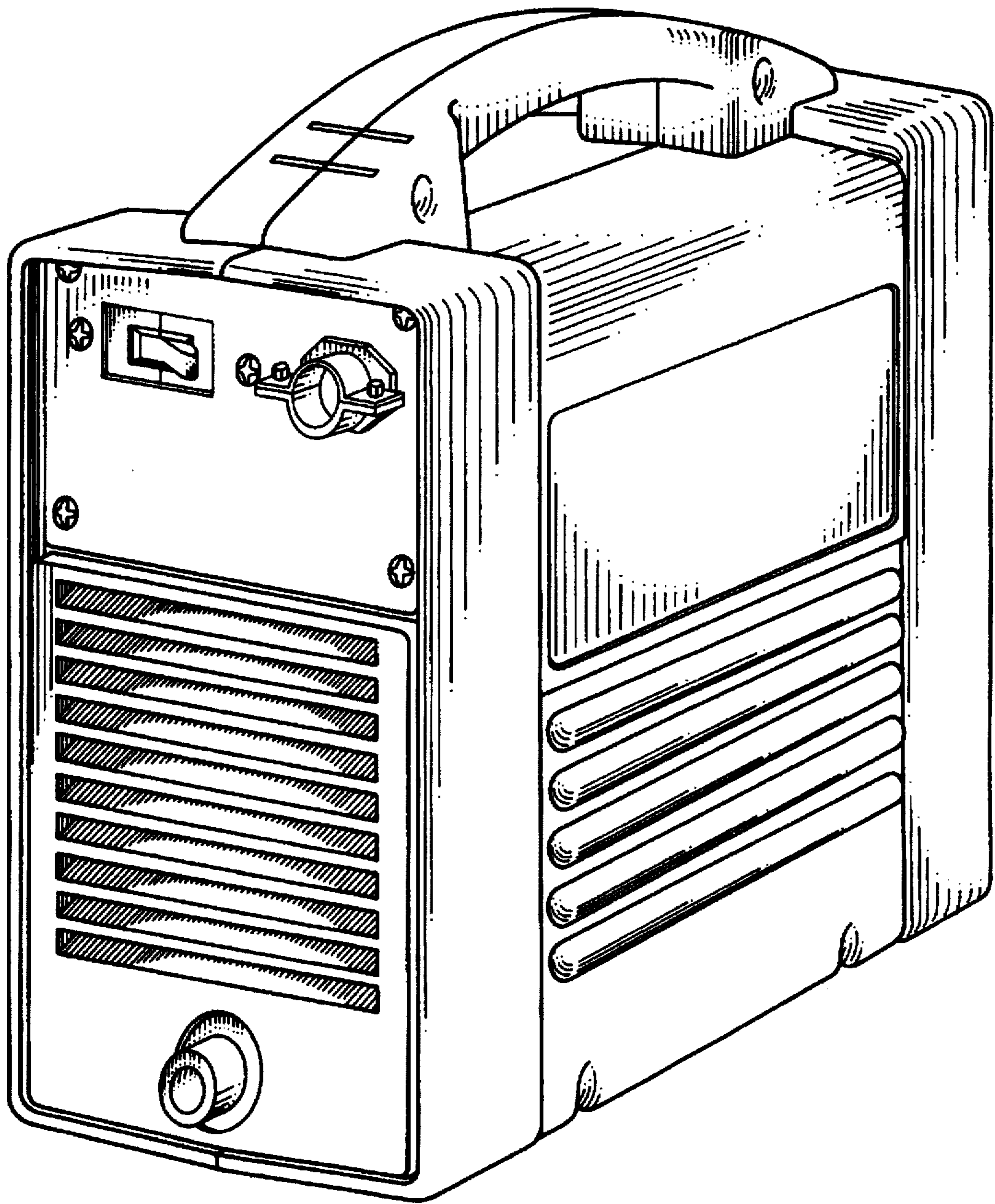
The portable power supply unit with AC-DC converter of our new design is a portable power supply unit for converting AC power to DC power and supplying DC power to, for example, an arc welder or a plasma arc cutter.

1 Claim, 9 Drawing Sheets





F I G . 1



F I G . 2

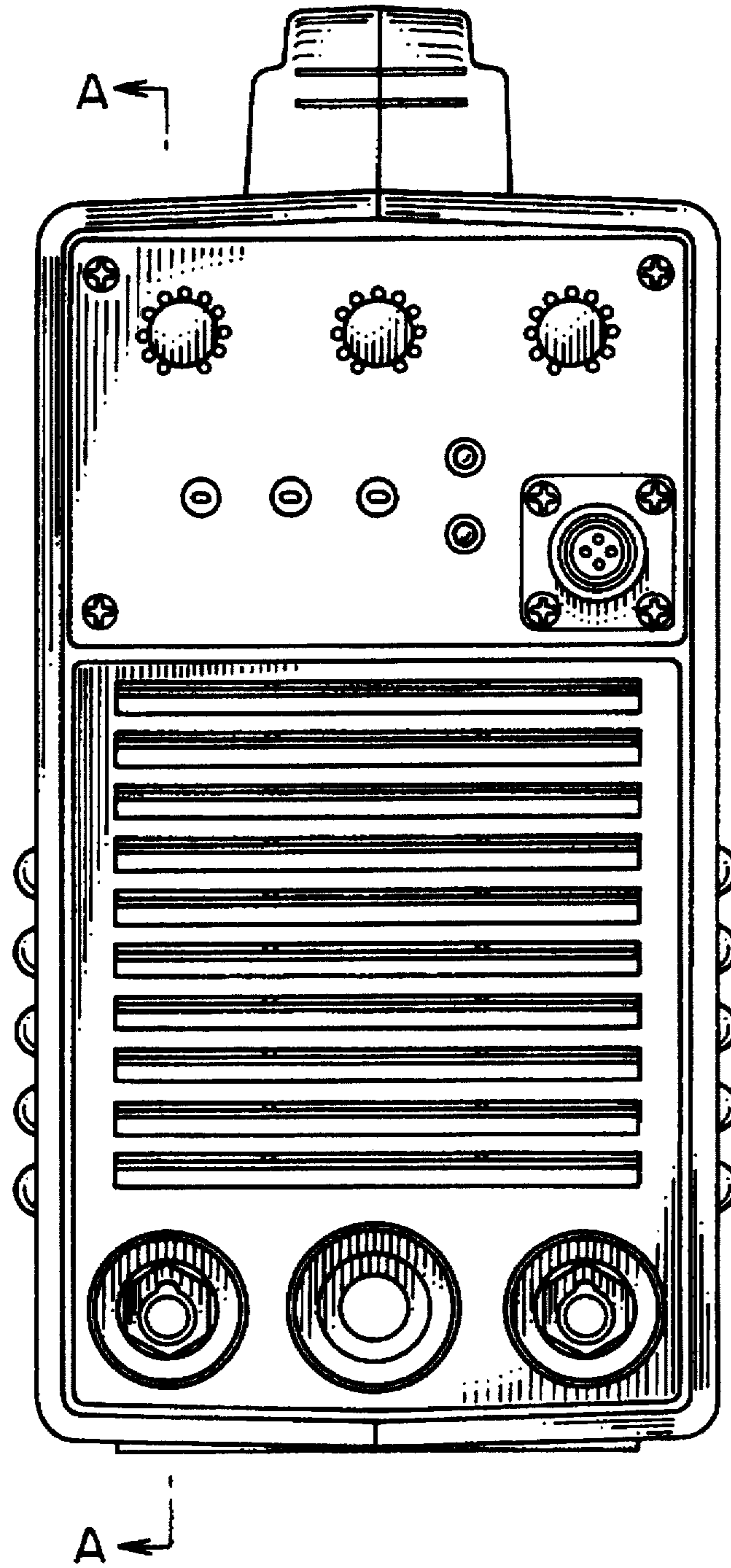


FIG. 3

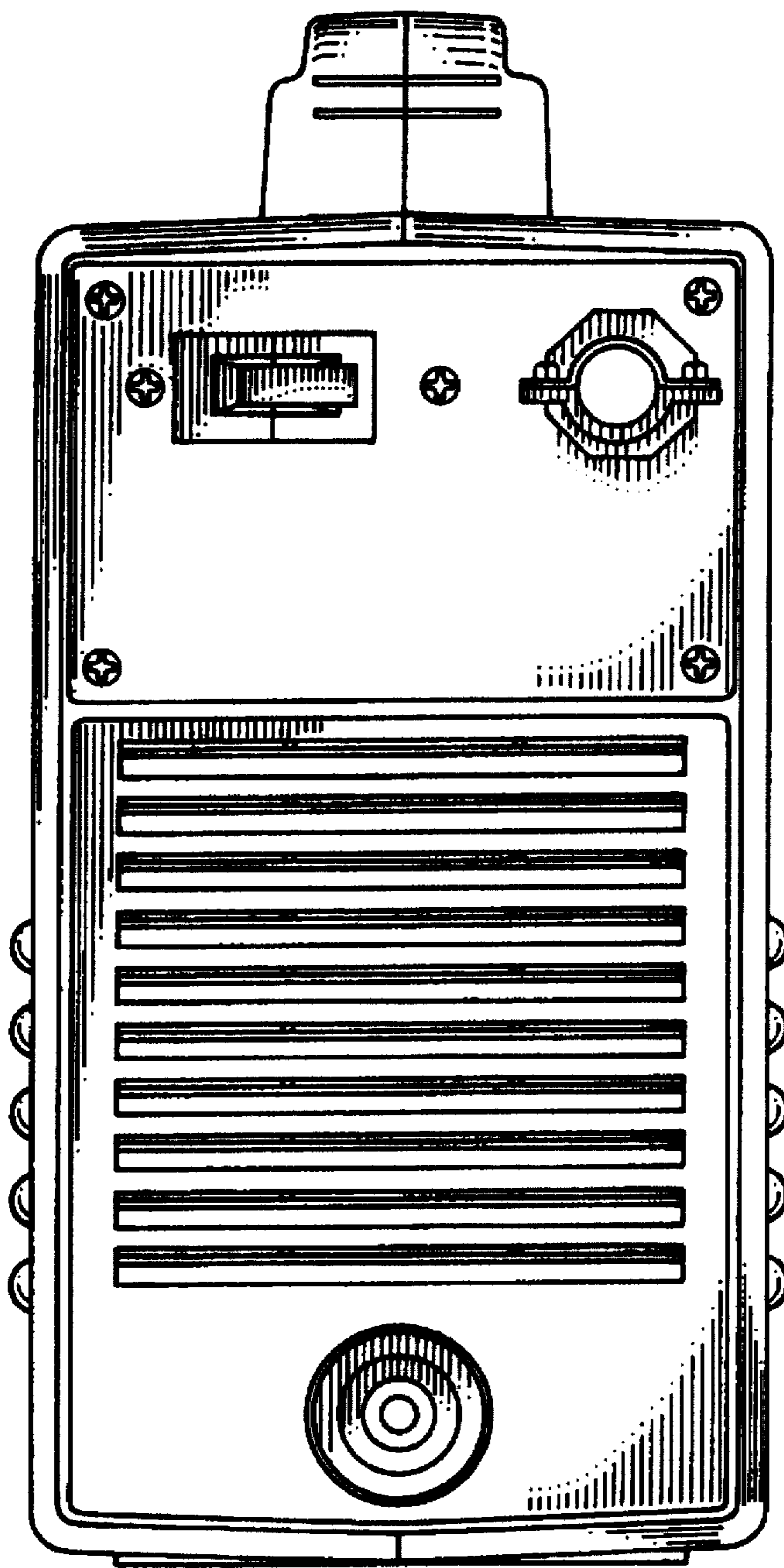


FIG. 4

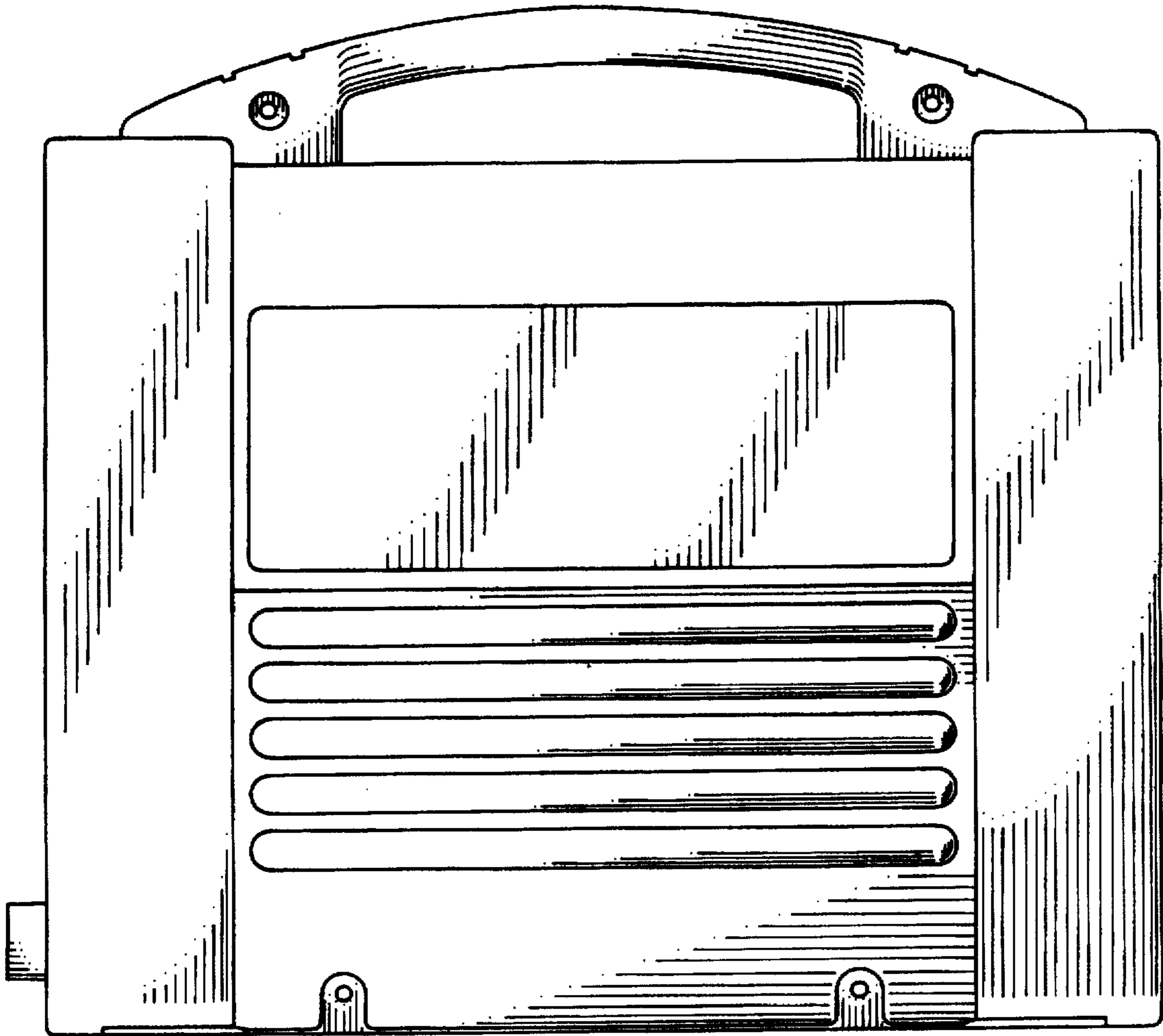
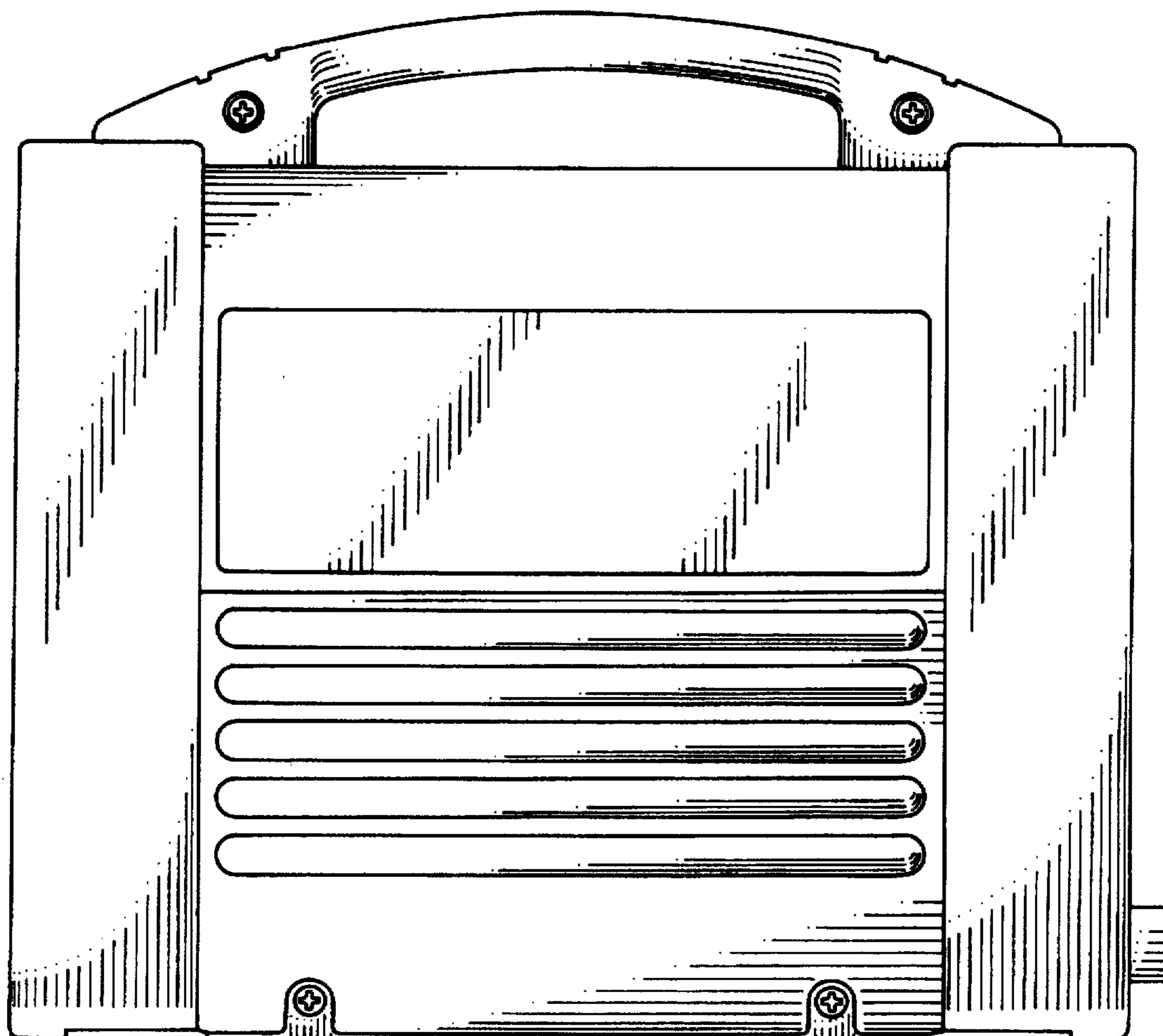


FIG. 5



F I G . 6

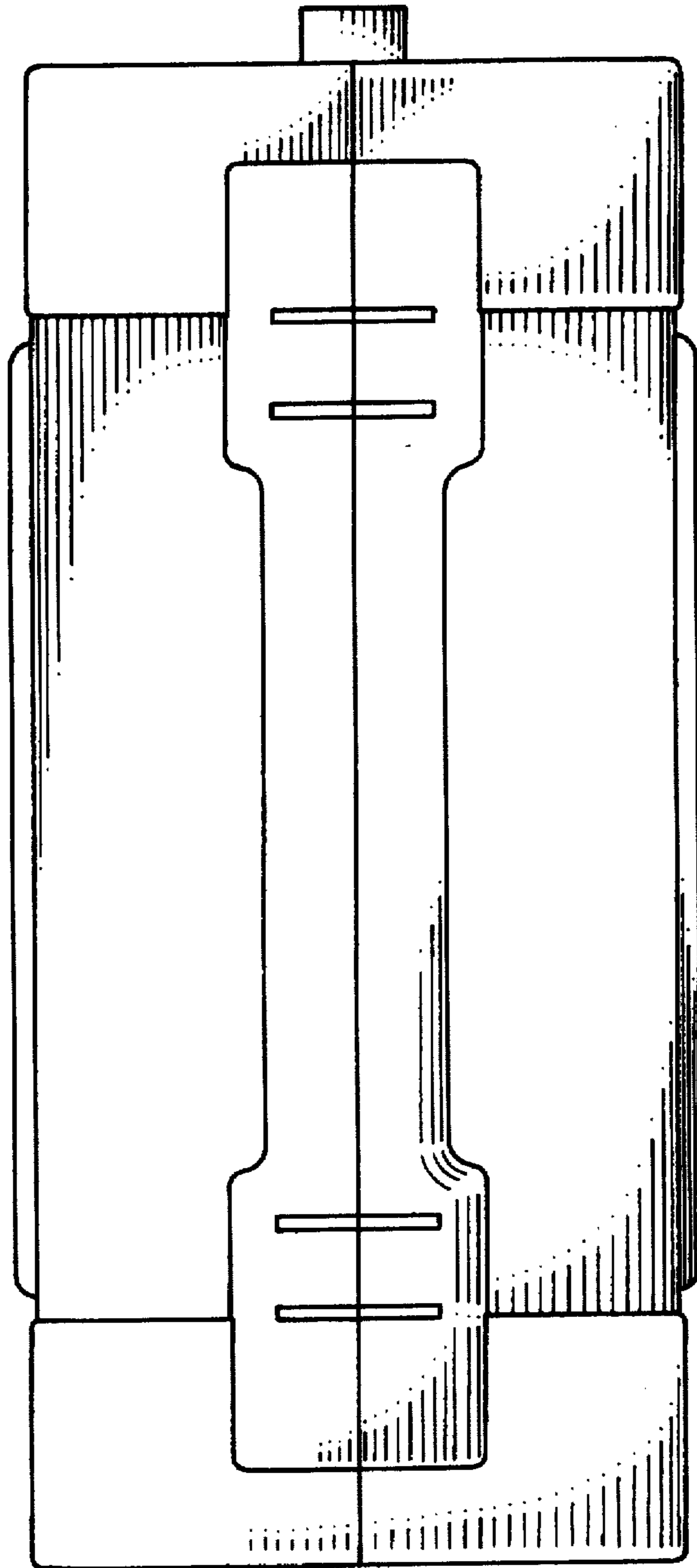
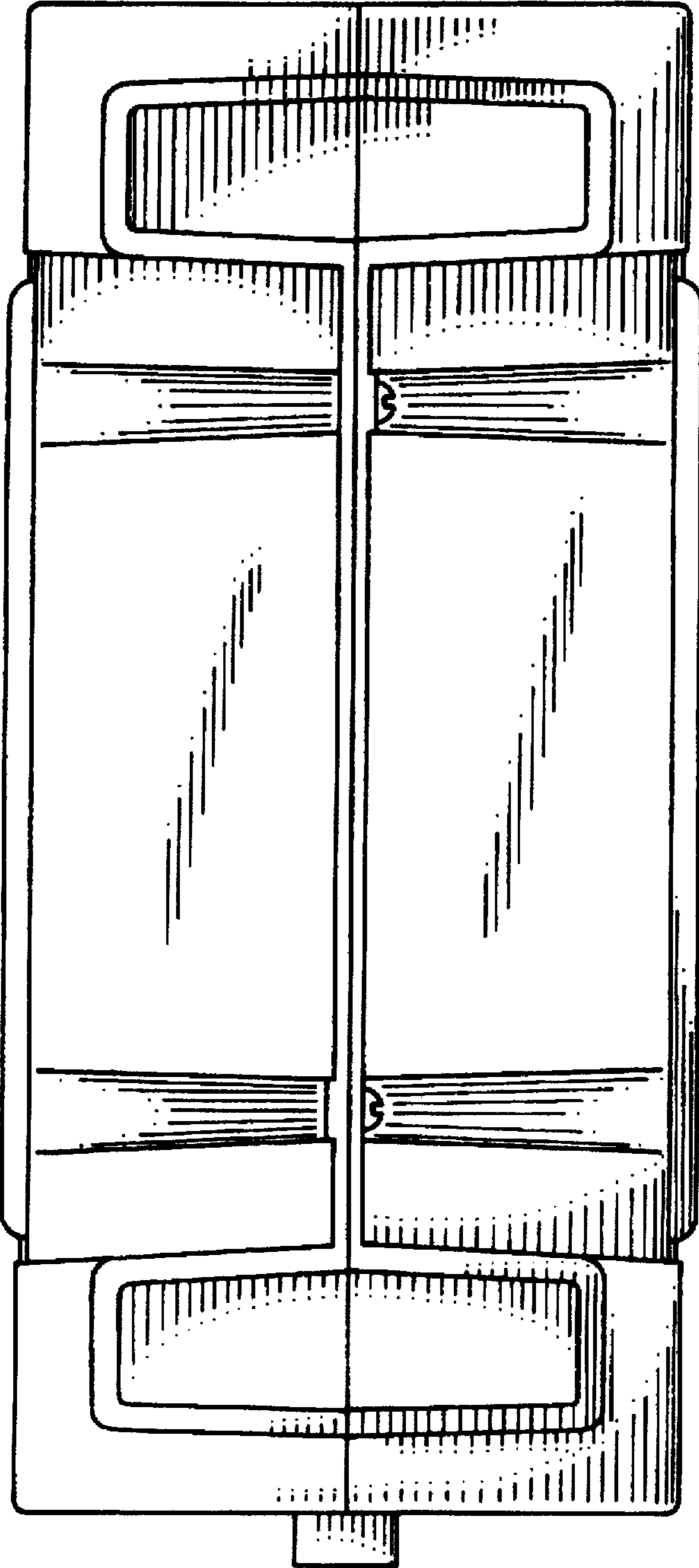


FIG. 7



F I G . 8

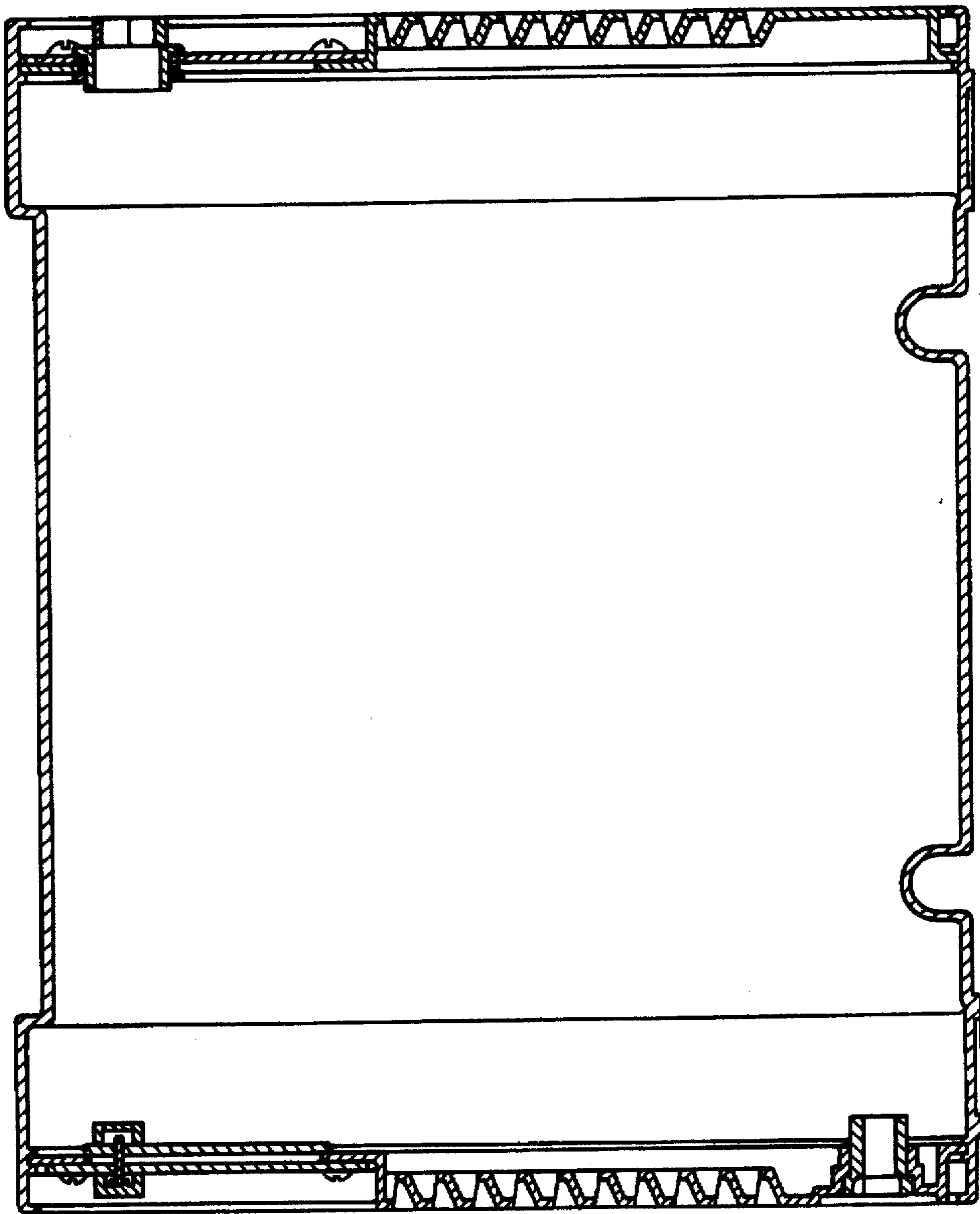


FIG. 9

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : Des. 386,148
DATED : November 11, 1997
INVENTOR(S) : Masao Katooka et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Item [73] should read: --Assignee: Sansha Electric Manufacturing Company, Limited, Osaka, Japan--.

Signed and Sealed this
Twenty-fourth Day of March, 1998

Attest:



BRUCE LEHMAN

Attesting Officer

Commissioner of Patents and Trademarks