



US00D467257S

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

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(45) **Date of Patent:** **\*\* Dec. 17, 2002**

(54) **WELDING APPARATUS**

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(73) Assignee: **Esab AB**, Gothenburg (SE)

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

(21) Appl. No.: **29/141,831**

(22) Filed: **May 14, 2001**

(30) **Foreign Application Priority Data**

Nov. 15, 2000 (SE) ..... 00-2109

(51) **LOC (7) Cl.** ..... **15-09**

(52) **U.S. Cl.** ..... **D15/144**

(58) **Field of Search** ..... D15/144, 144.1,  
D15/144.2; 336/212, 195, 131, 178, 182,  
214

(56) **References Cited**

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*Primary Examiner*—Antoine Duval Davis

(74) *Attorney, Agent, or Firm*—Nils H. Ljungman & Associates

(57) **CLAIM**

The ornamental design for a welding apparatus, as shown and described.

**DESCRIPTION**

FIG. 1 is a frontal perspective view of a first embodiment of a welding apparatus with a welding power source and a cooling module.

FIG. 2 is a back perspective view of the first embodiment of a welding apparatus with a welding power source and a cooling module shown in FIG. 1.

FIG. 3 is a frontal perspective view of a second embodiment of a welding apparatus with a welding power source and a cooling module.

FIG. 4 is a back perspective view of the second embodiment of a welding apparatus with a welding power source and a cooling module shown in FIG. 3.

FIG. 5 is a frontal perspective view of a third embodiment of a welding apparatus with a welding power source and a cooling module.

FIG. 6 is a back perspective view of the third embodiment of a welding apparatus with a welding power source and a cooling module shown in FIG. 5.

FIG. 7 is a frontal perspective view of a fourth embodiment of a welding apparatus with a welding power source and a cooling module.

FIG. 8 is a back perspective view of the fourth embodiment of a welding apparatus with a welding power source and a cooling module shown in FIG. 7.

FIG. 9 is a frontal perspective view of a variation of the first embodiment of a welding apparatus with a welding power source and a cooling module with the cooling module shown in broken lines.

FIG. 10 is a back perspective view of the variation of the first embodiment of a welding apparatus with a welding power source and a cooling module shown in FIG. 9.

FIG. 11 is a frontal perspective view of a variation of the second embodiment of a welding apparatus with a welding power source and a cooling module with the cooling module shown in broken lines.

FIG. 12 is a back perspective view of the variation of the second embodiment of a welding apparatus with a welding power source and a cooling module shown in FIG. 11.

FIG. 13 is a frontal perspective view of a variation of the third embodiment of a welding apparatus with a welding power source and a cooling module with the cooling module shown in broken lines.

FIG. 14 is a back perspective view of the variation of the third embodiment of a welding apparatus with a welding power source and a cooling module shown in FIG. 13.

FIG. 15 is a frontal perspective view of a variation of the fourth embodiment of a welding apparatus with a welding power source and a cooling module with the cooling module shown in broken lines.

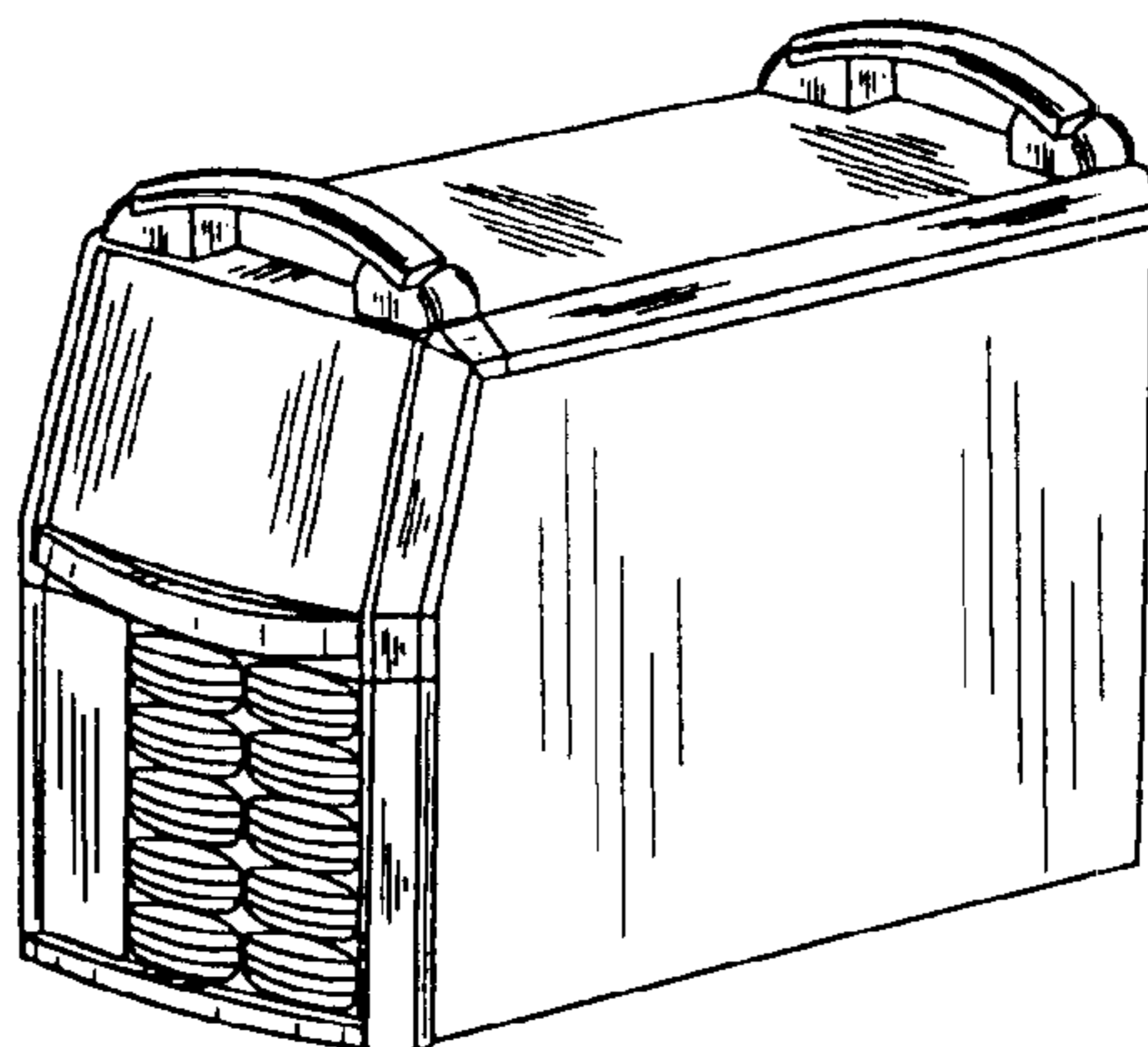


FIG. 16 is a back perspective view of the variation of the fourth embodiment of a welding apparatus with a welding power source and a cooling module shown in FIG. 15.

FIG. 17 is a frontal perspective view of a variation of the first embodiment of a welding apparatus with a control panel.

FIG. 18 is a frontal perspective view of a variation of the second embodiment of a welding apparatus with a control panel.

FIG. 19 is a frontal perspective view of a variation of the third embodiment of a welding apparatus with a control panel.

FIG. 20 is a frontal perspective view of a variation of the fourth embodiment of a welding apparatus with a control panel.

FIG. 21 is a frontal perspective view of a variation of the first embodiment of a welding apparatus with a control panel shown in FIG. 17, with the control panel shown in broken lines.

FIG. 22 is a frontal perspective view of a variation of the second embodiment of a welding apparatus with a control panel shown in FIG. 18, with the control panel shown in broken lines.

FIG. 23 is a frontal perspective view of a variation of the third embodiment of a welding apparatus with a control panel shown in FIG. 19, with the control panel shown in broken lines; and,

FIG. 24 is a frontal perspective view of a variation of the fourth embodiment of a welding apparatus with a control panel shown in FIG. 20, with the control panel shown in broken lines.

**1 Claim, 12 Drawing Sheets**

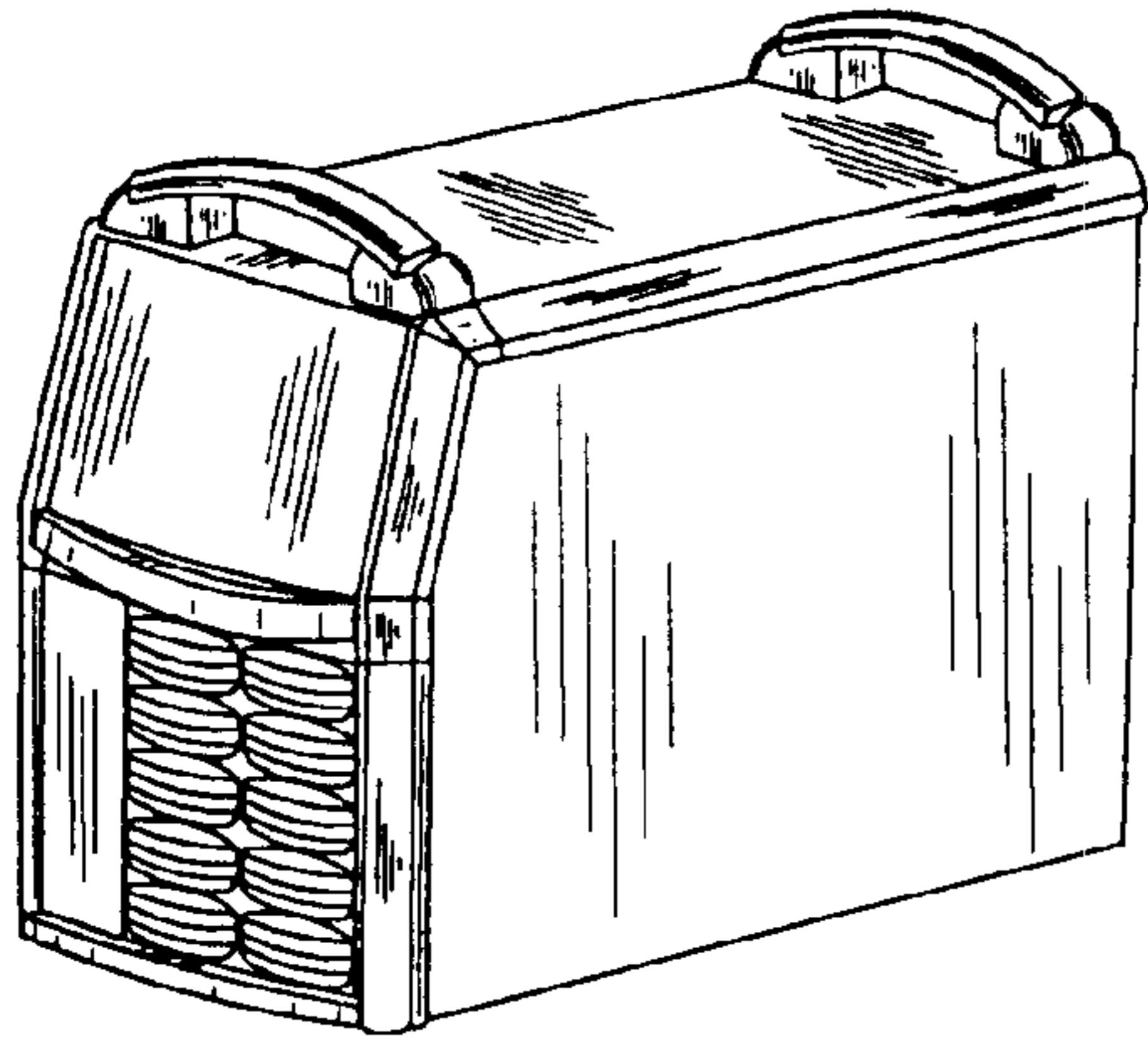


FIG. 1

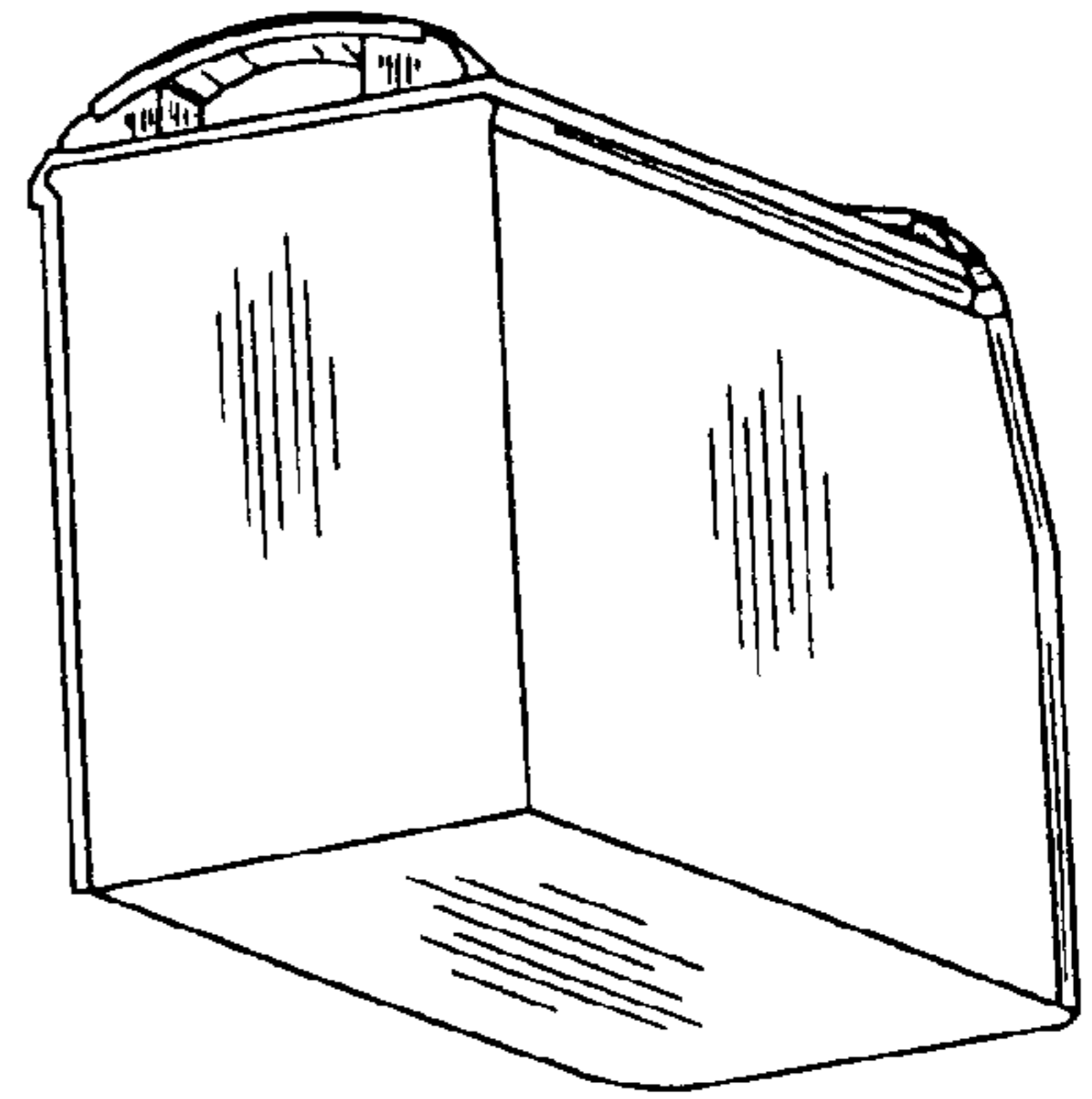


FIG. 2

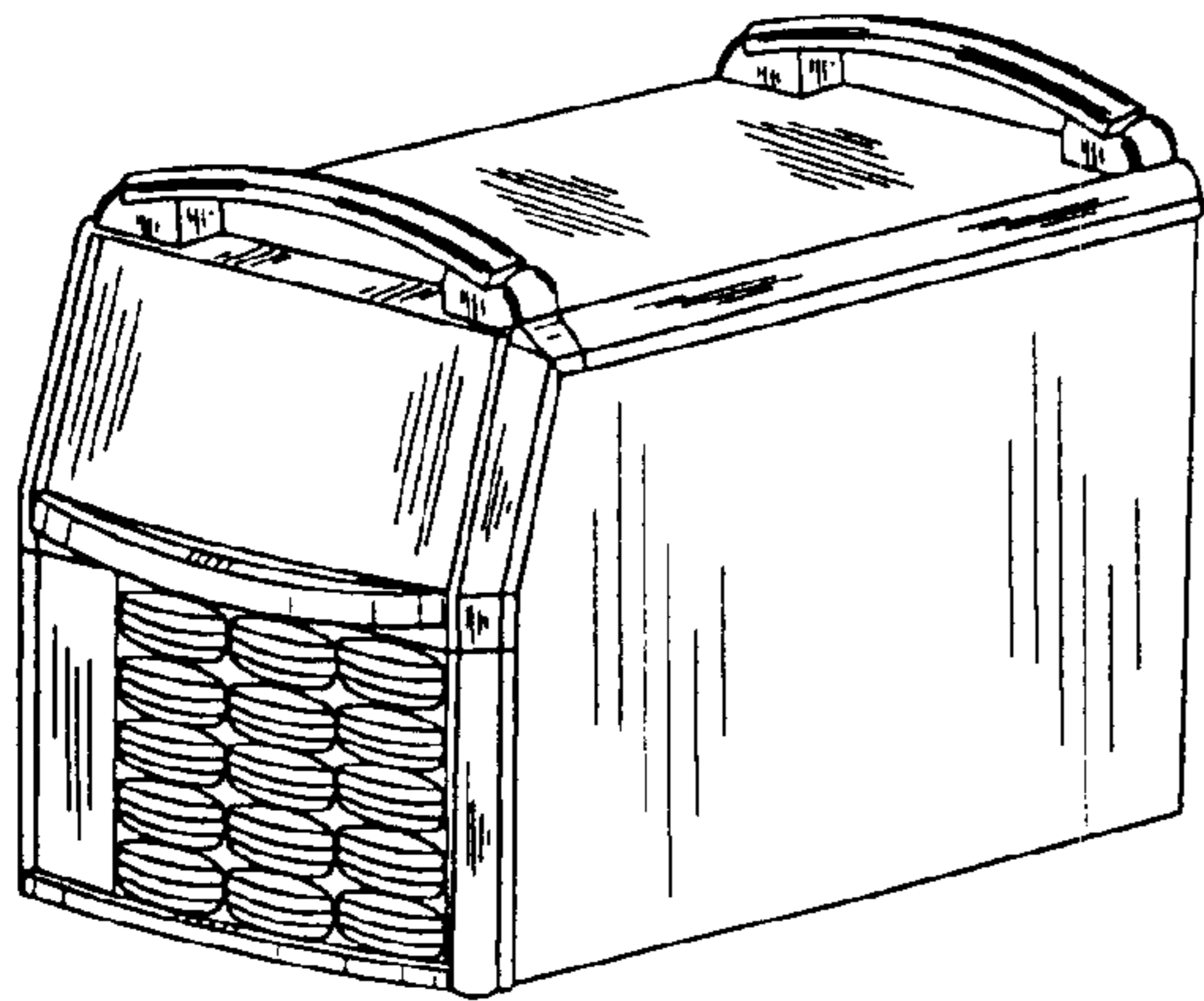


FIG. 3

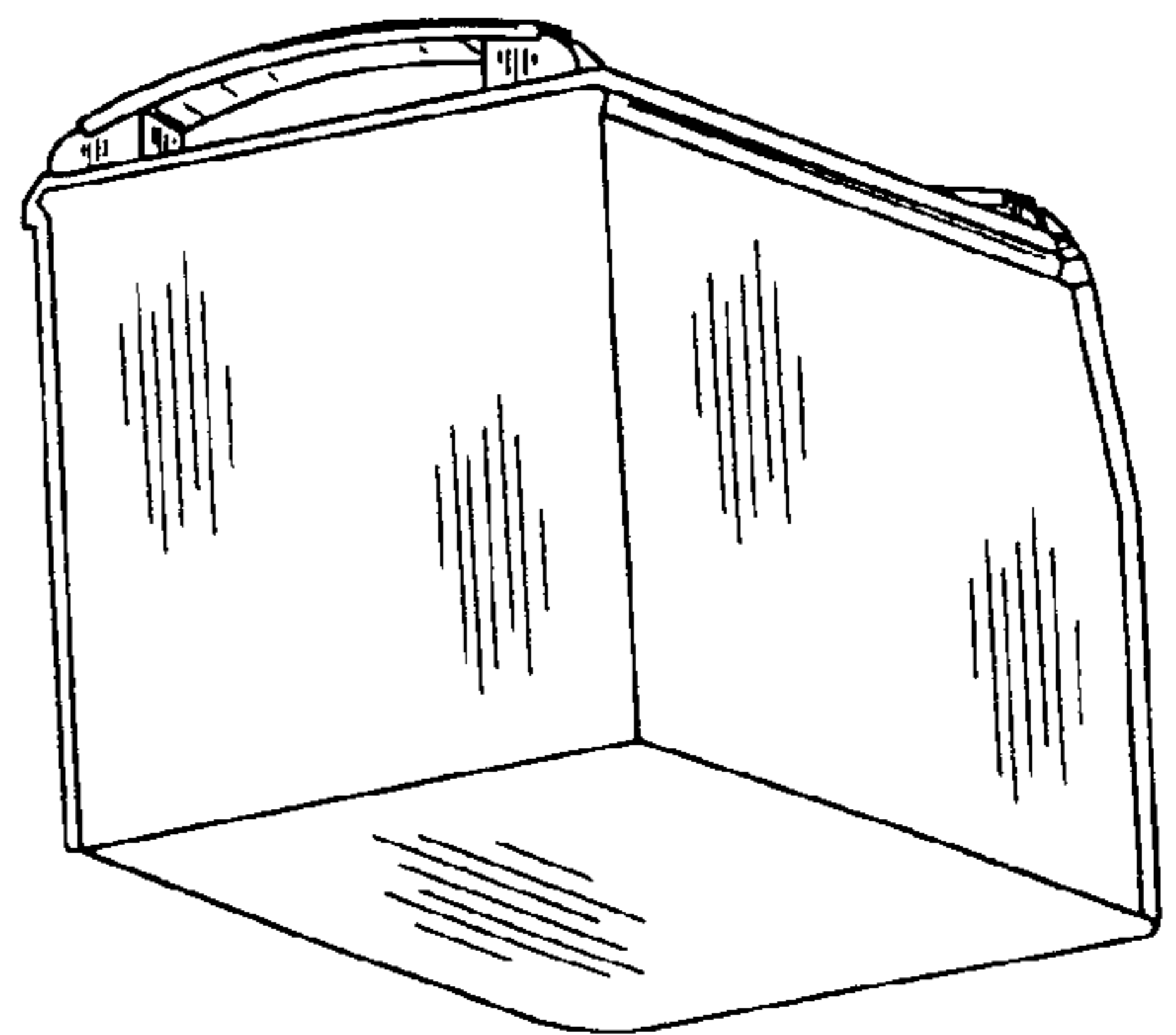


FIG. 4

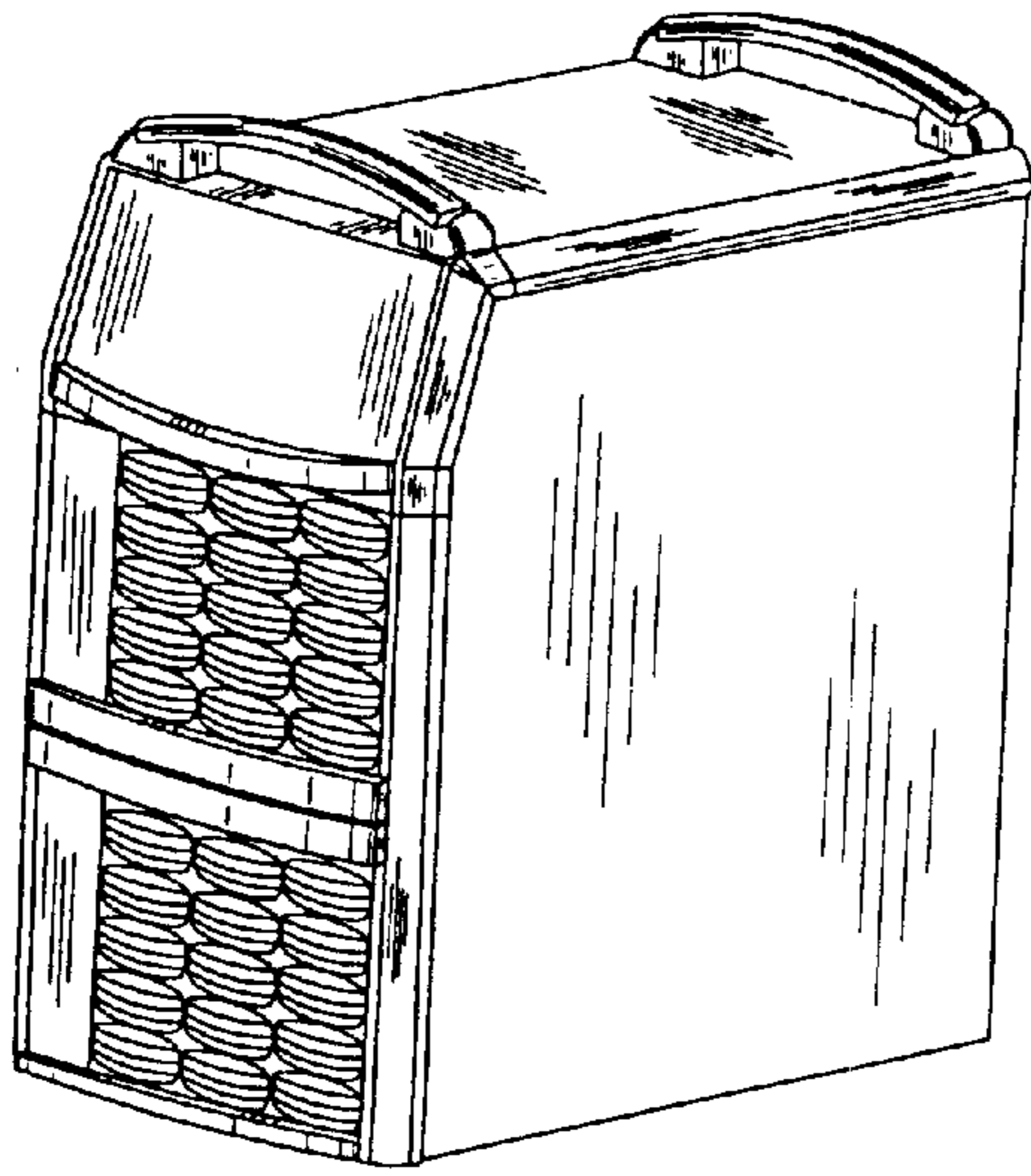


FIG. 5

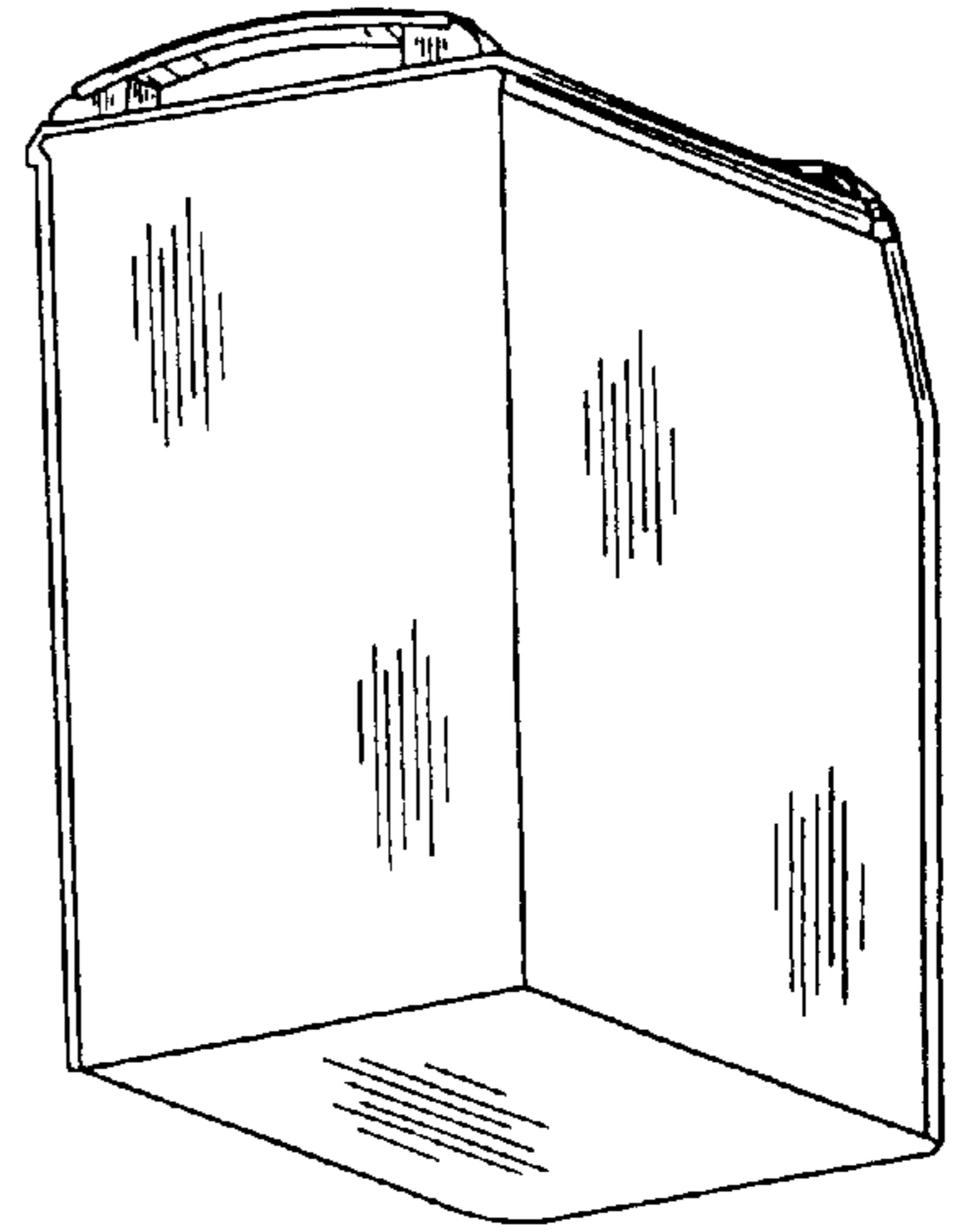


FIG. 6

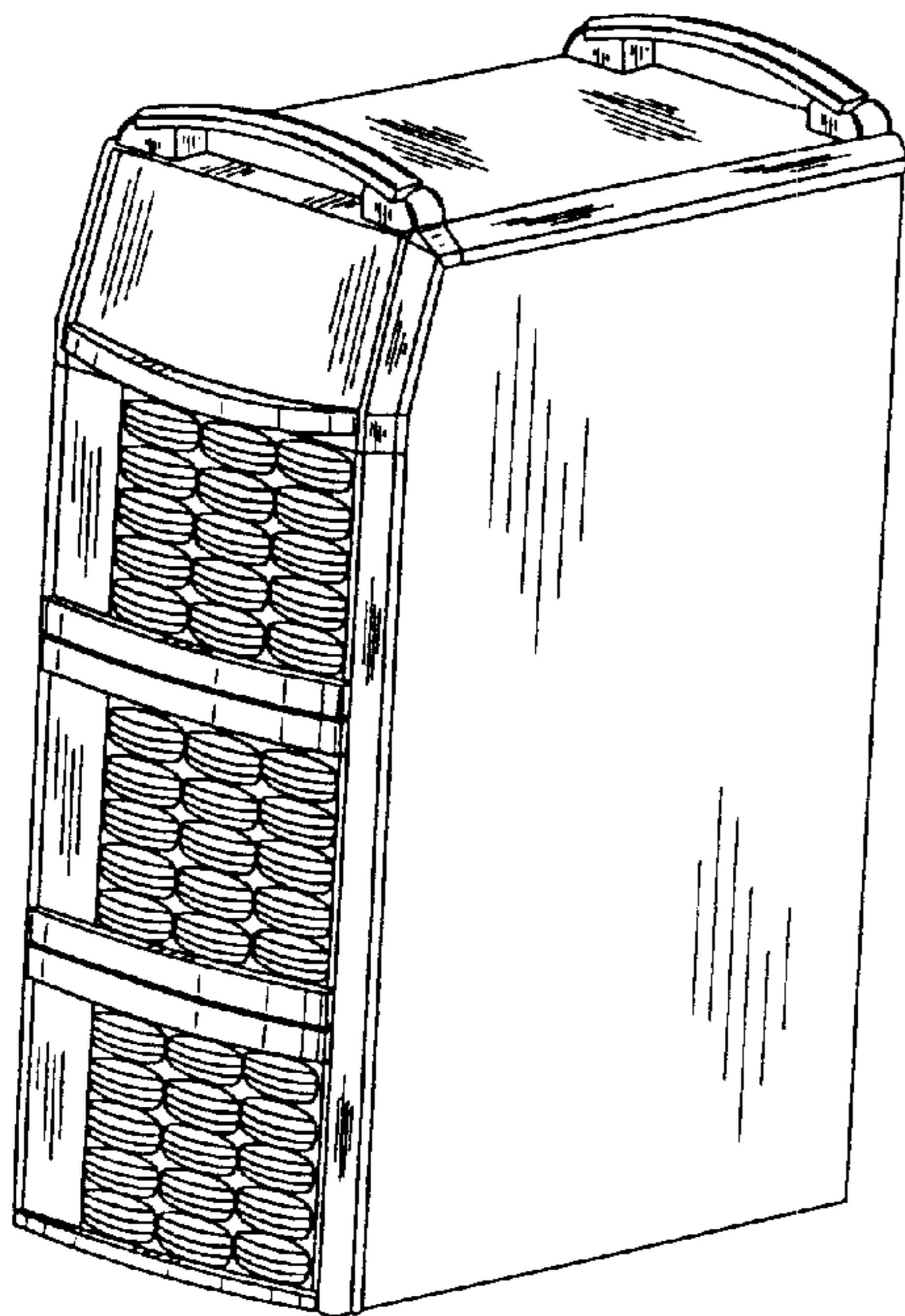


FIG. 7

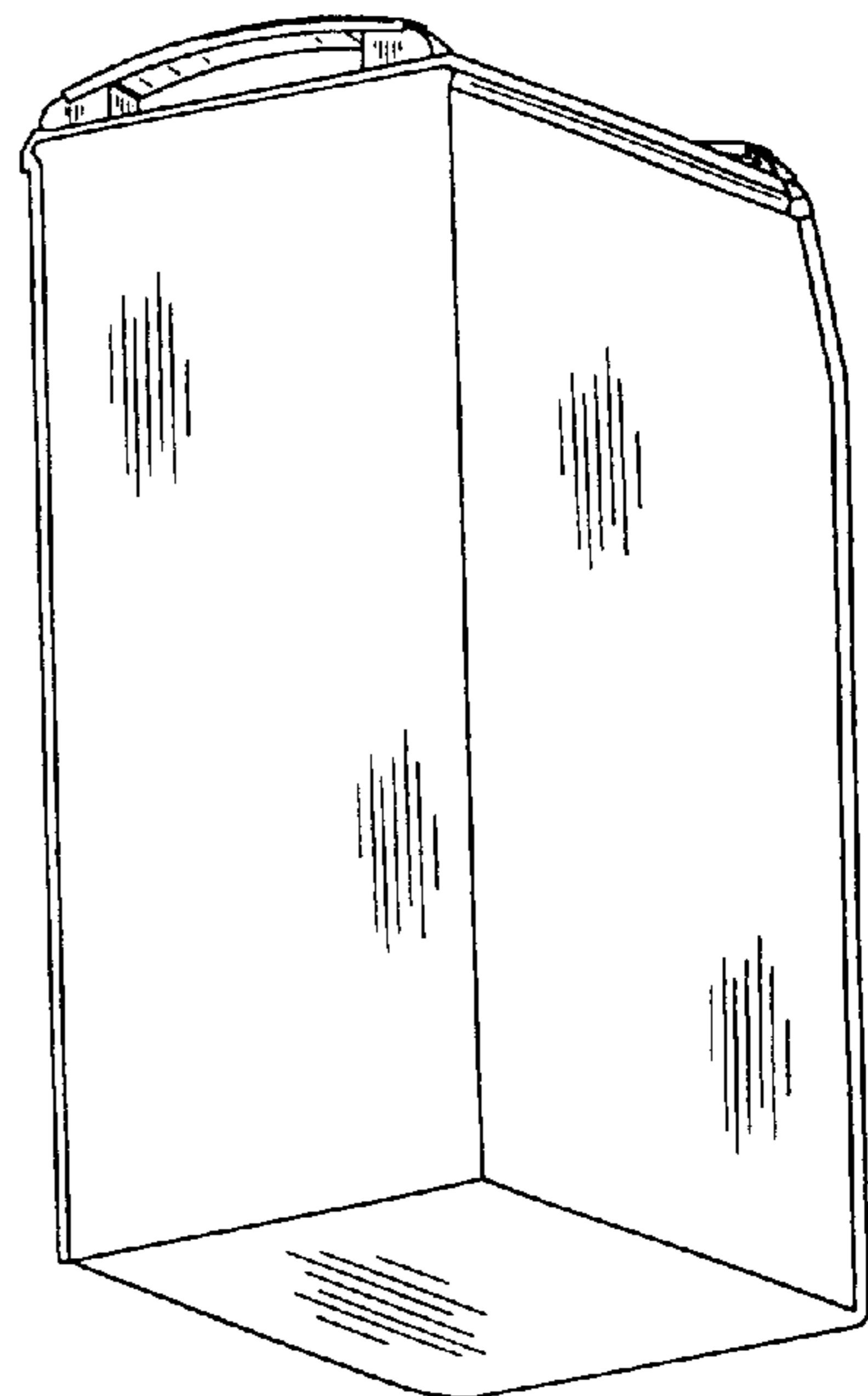


FIG. 8

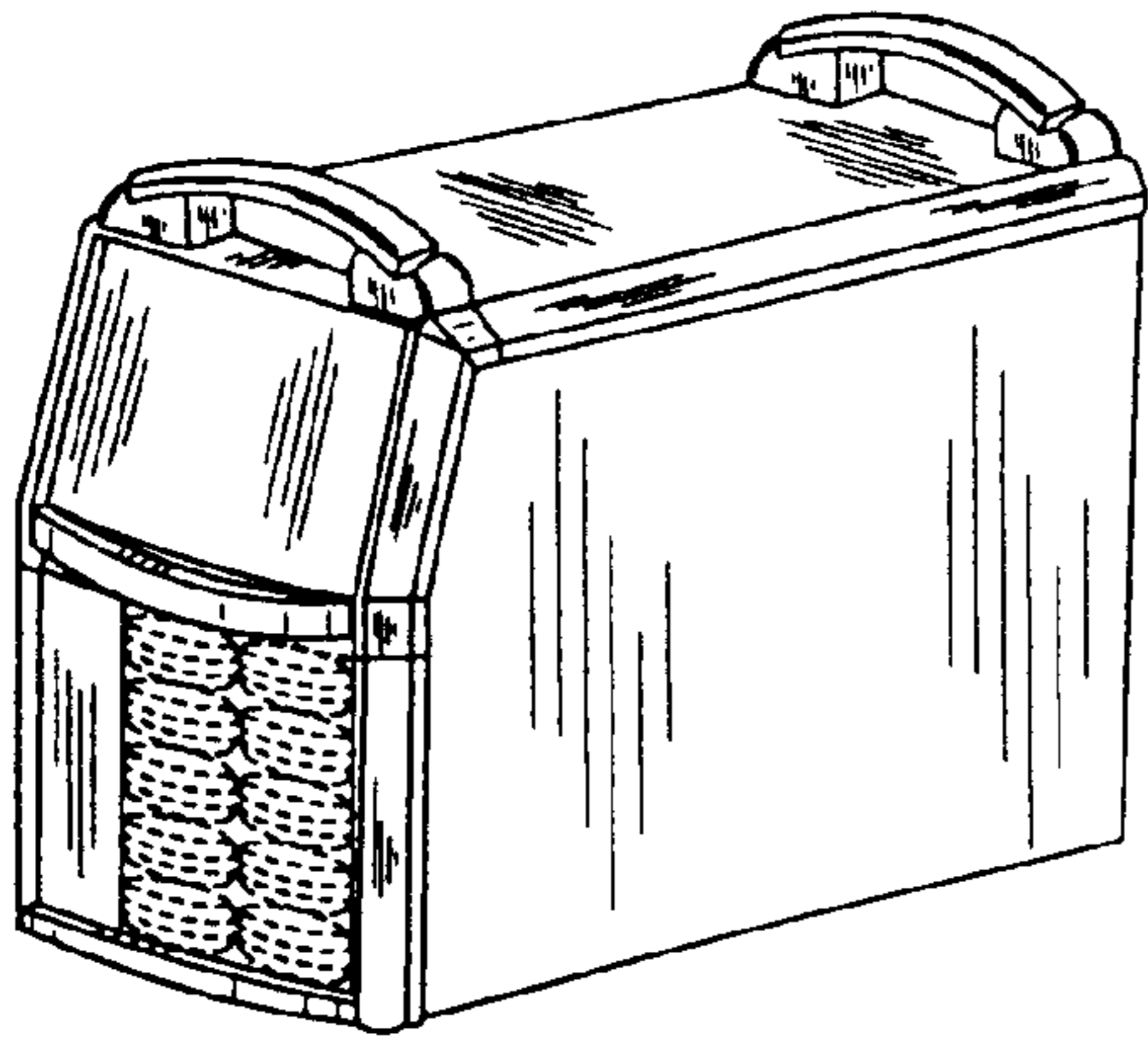


FIG. 9

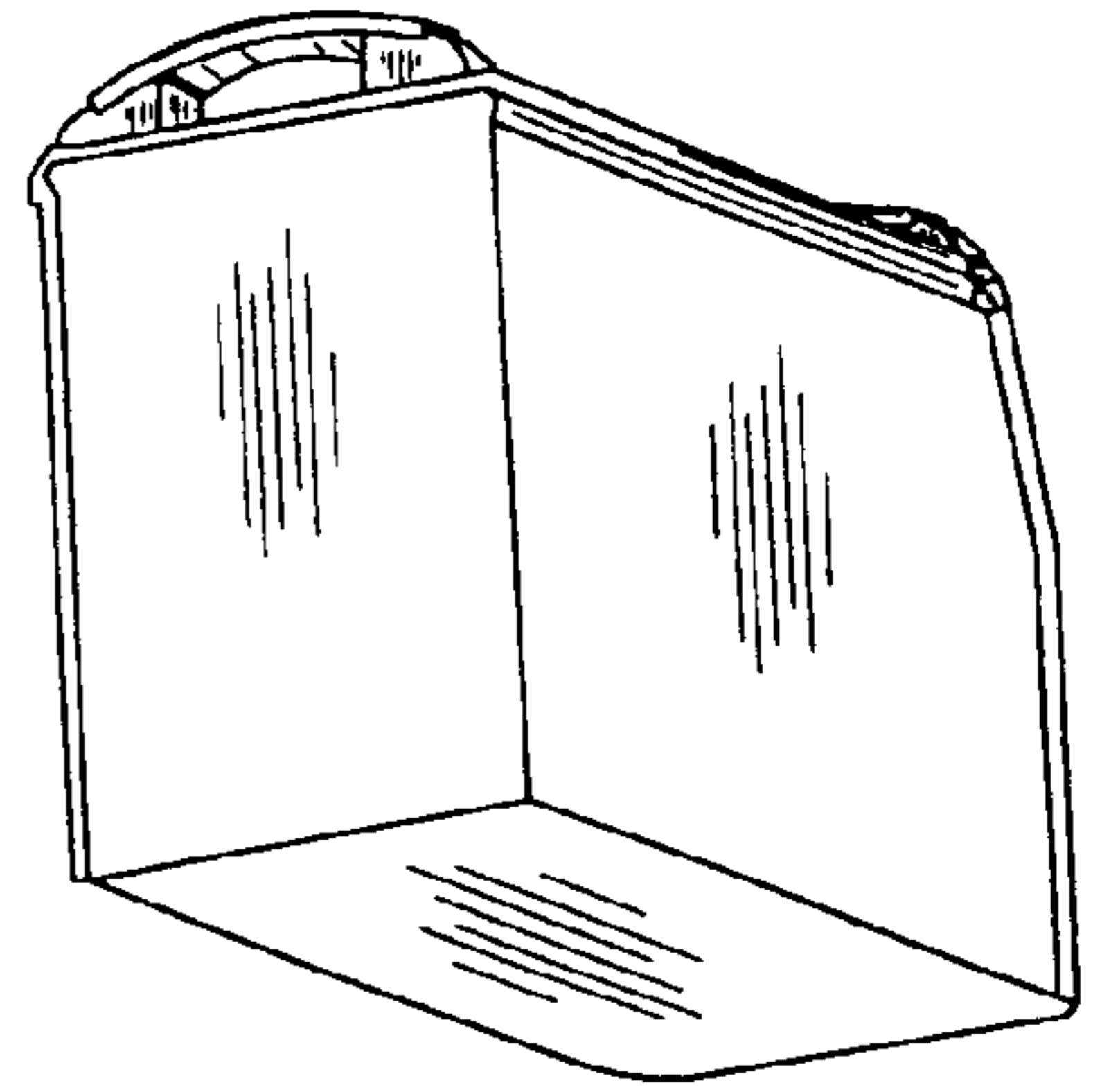


FIG. 10

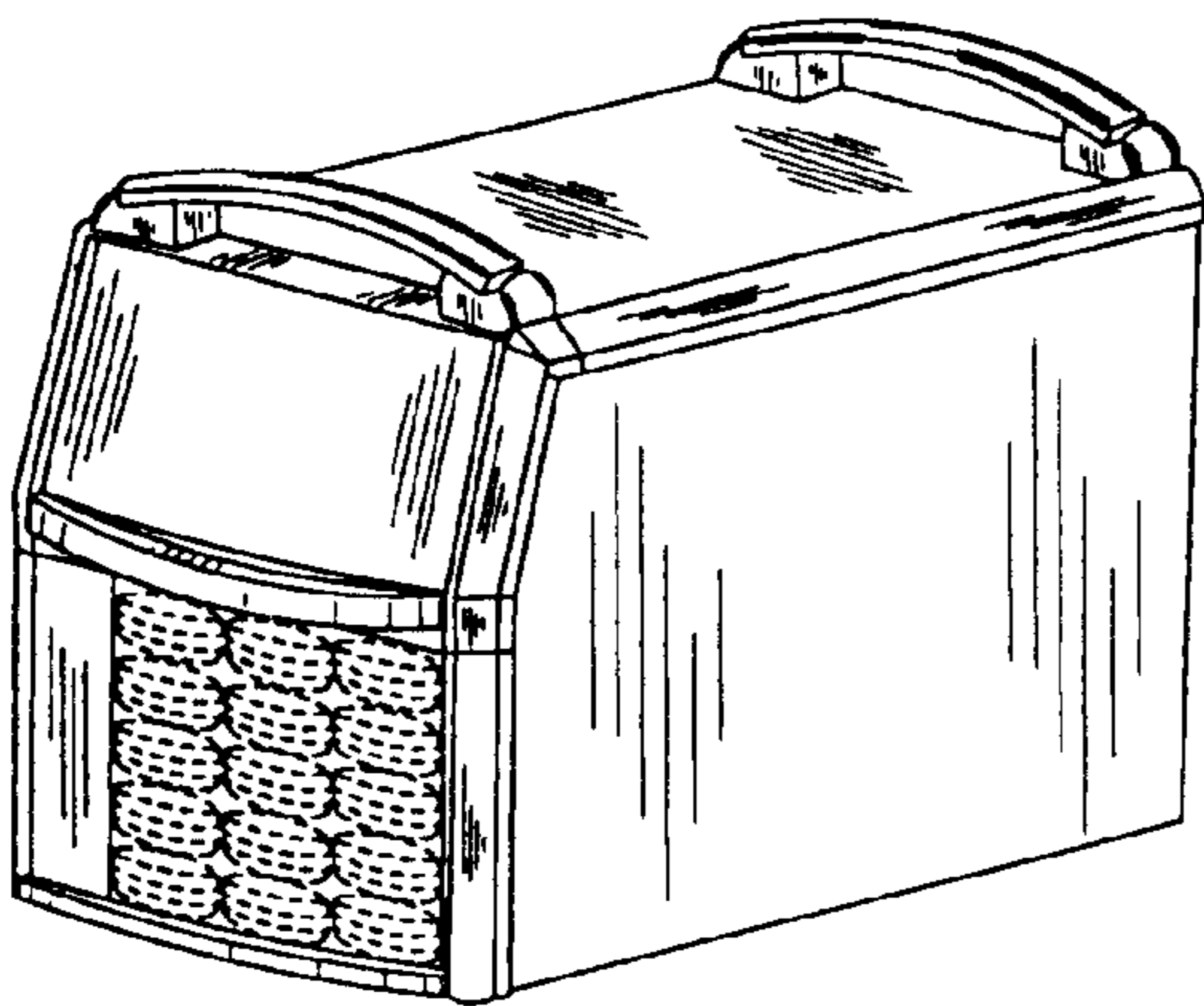


FIG. 11

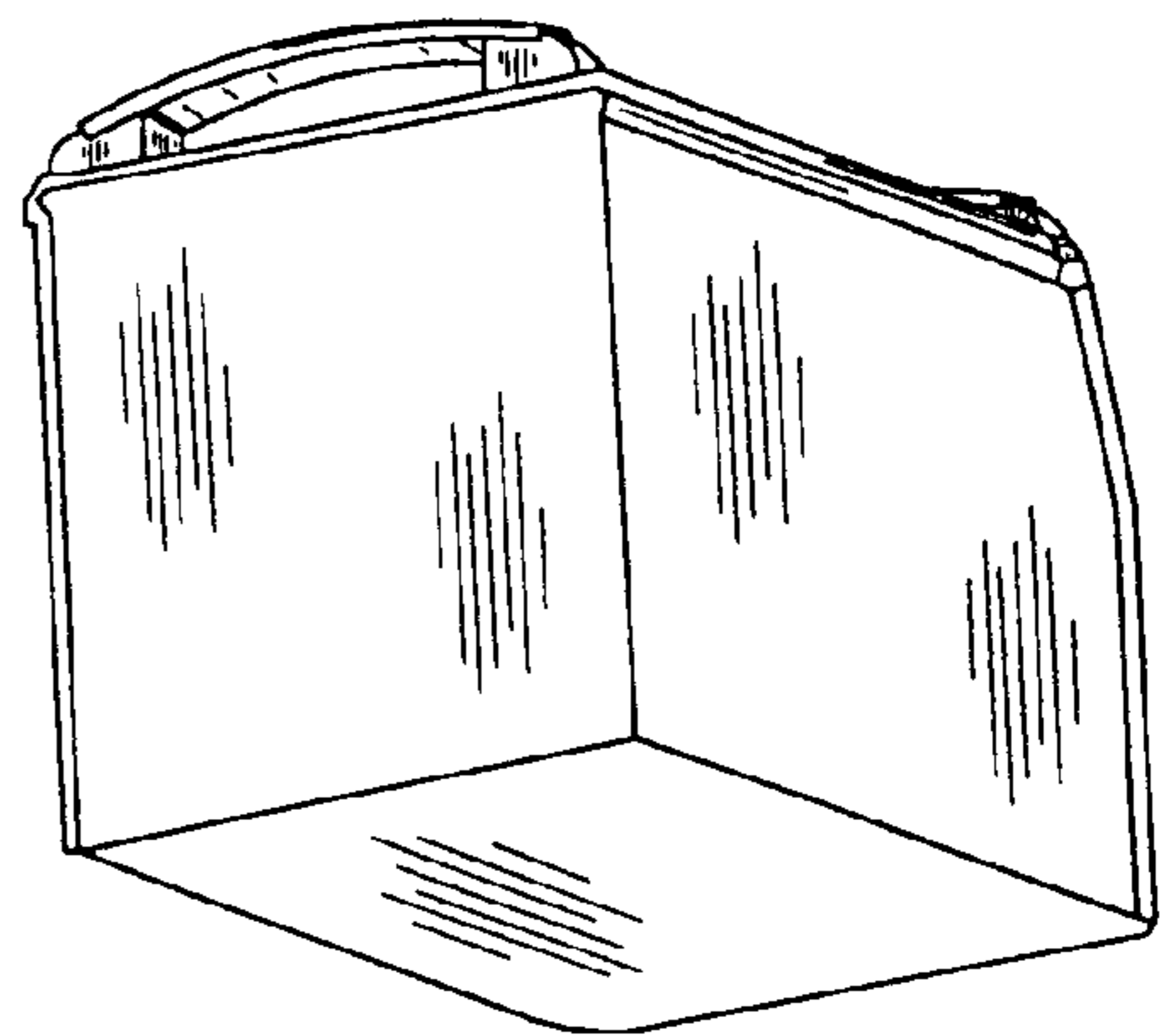


FIG. 12

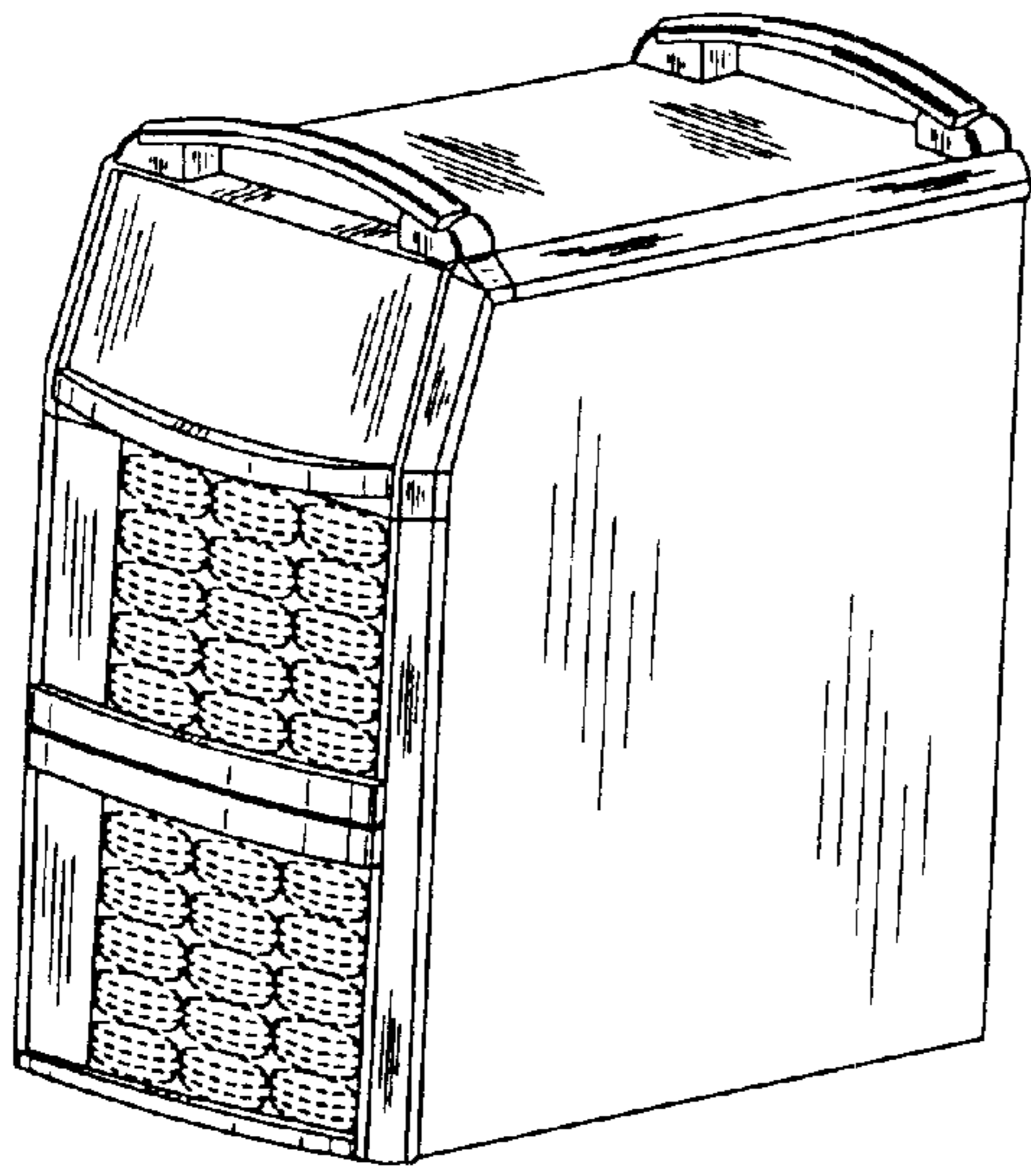


FIG. 13

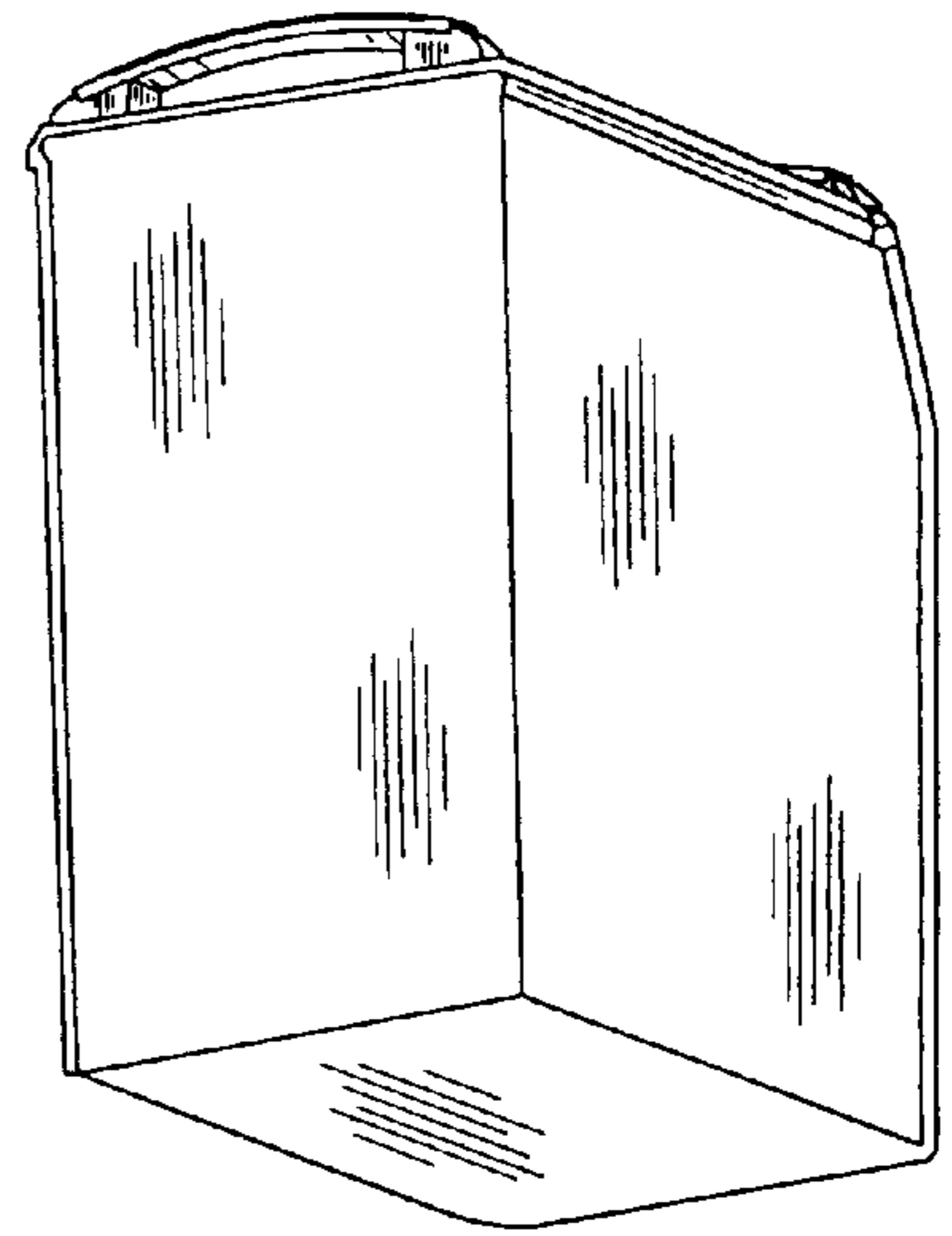


FIG. 14

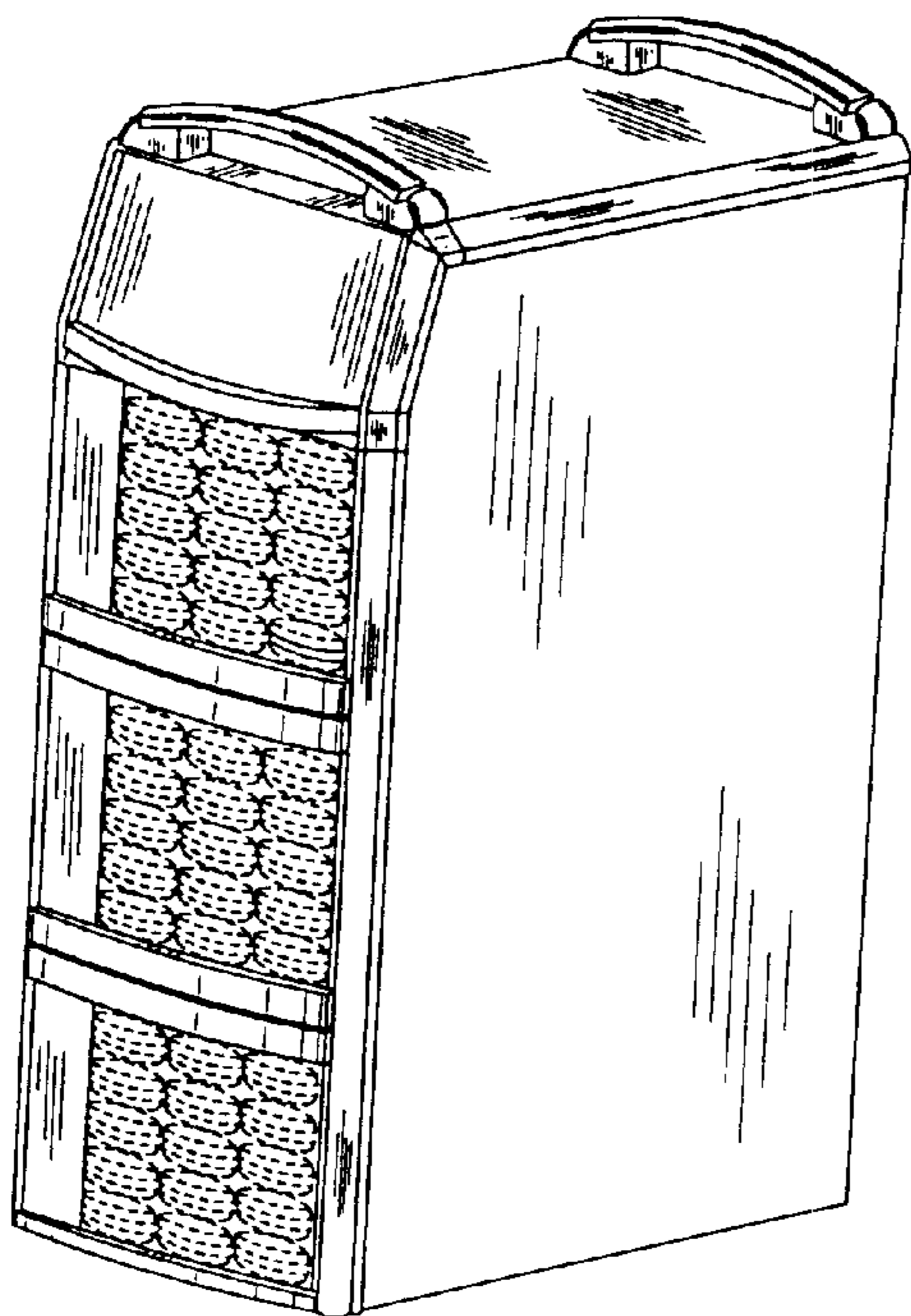


FIG. 15

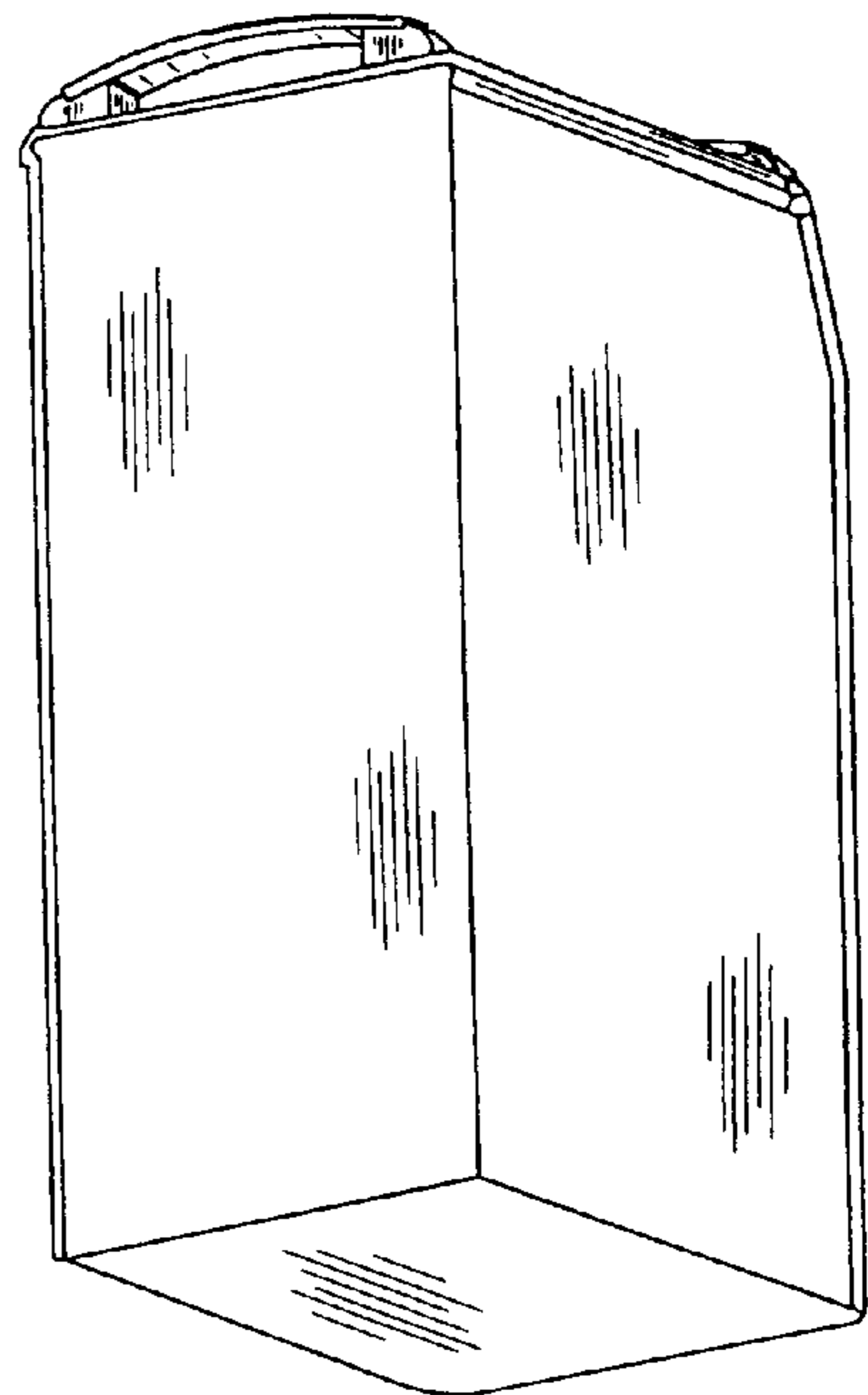


FIG. 16

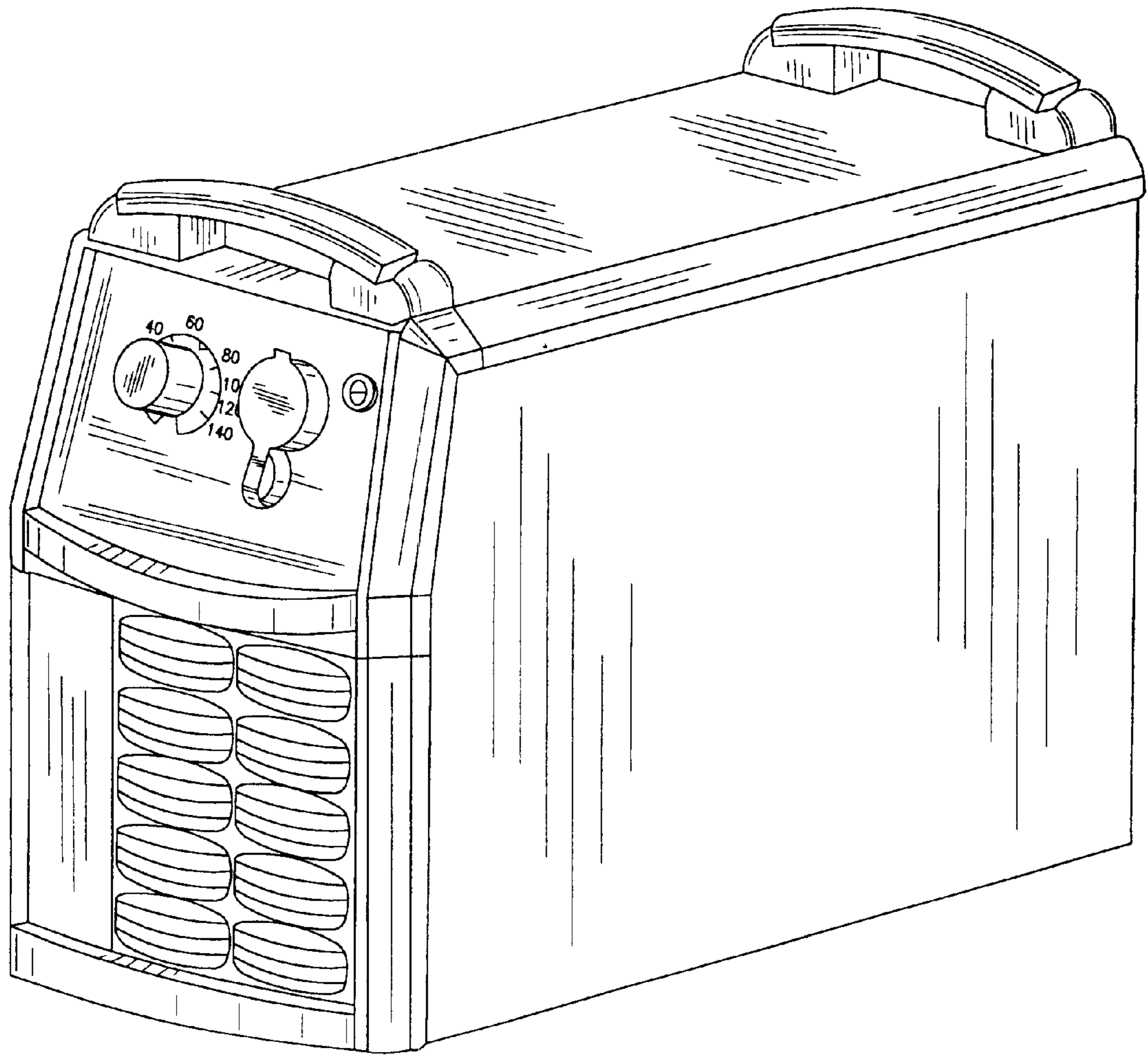


FIG. 17

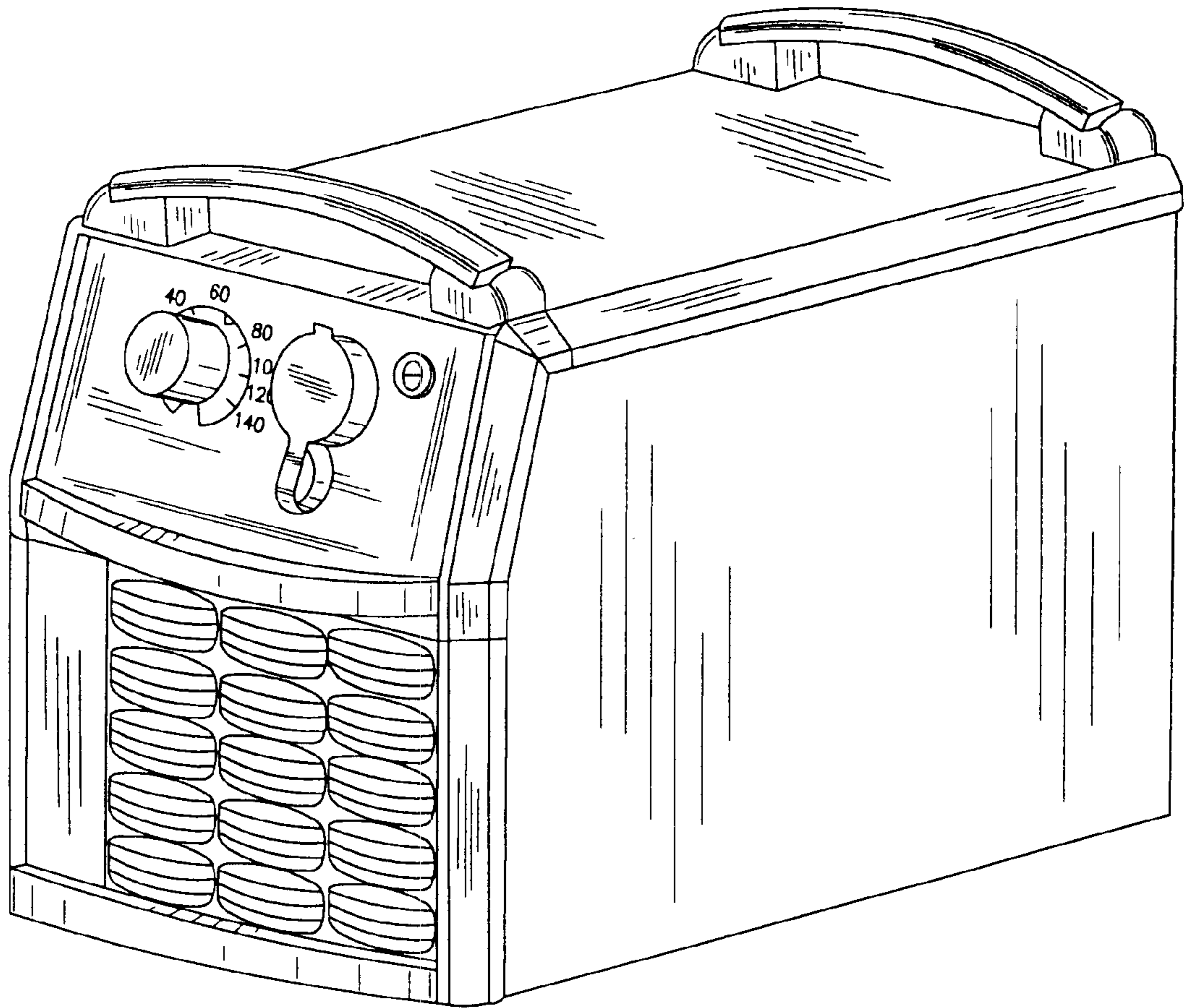


FIG. 18



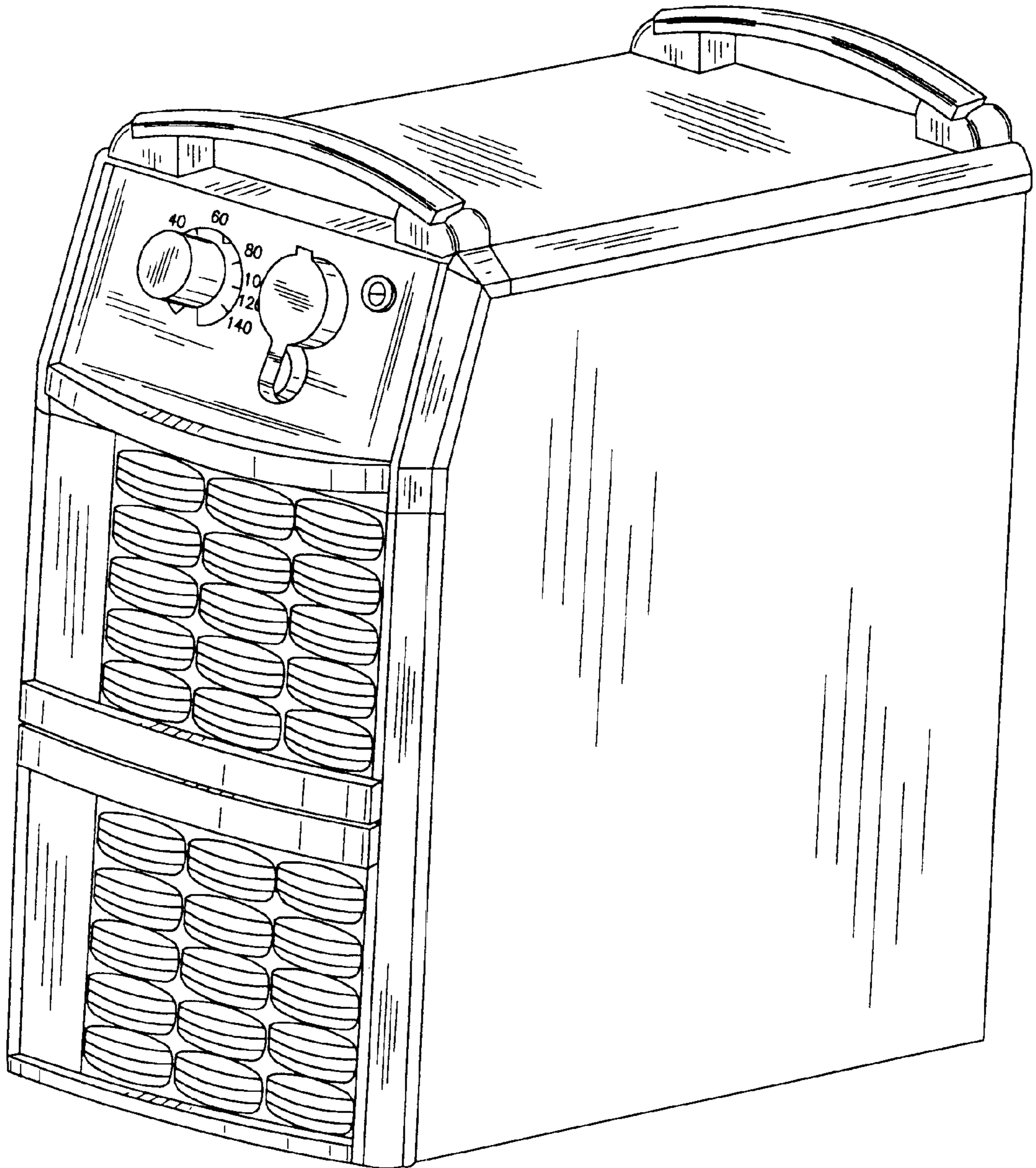


FIG. 19

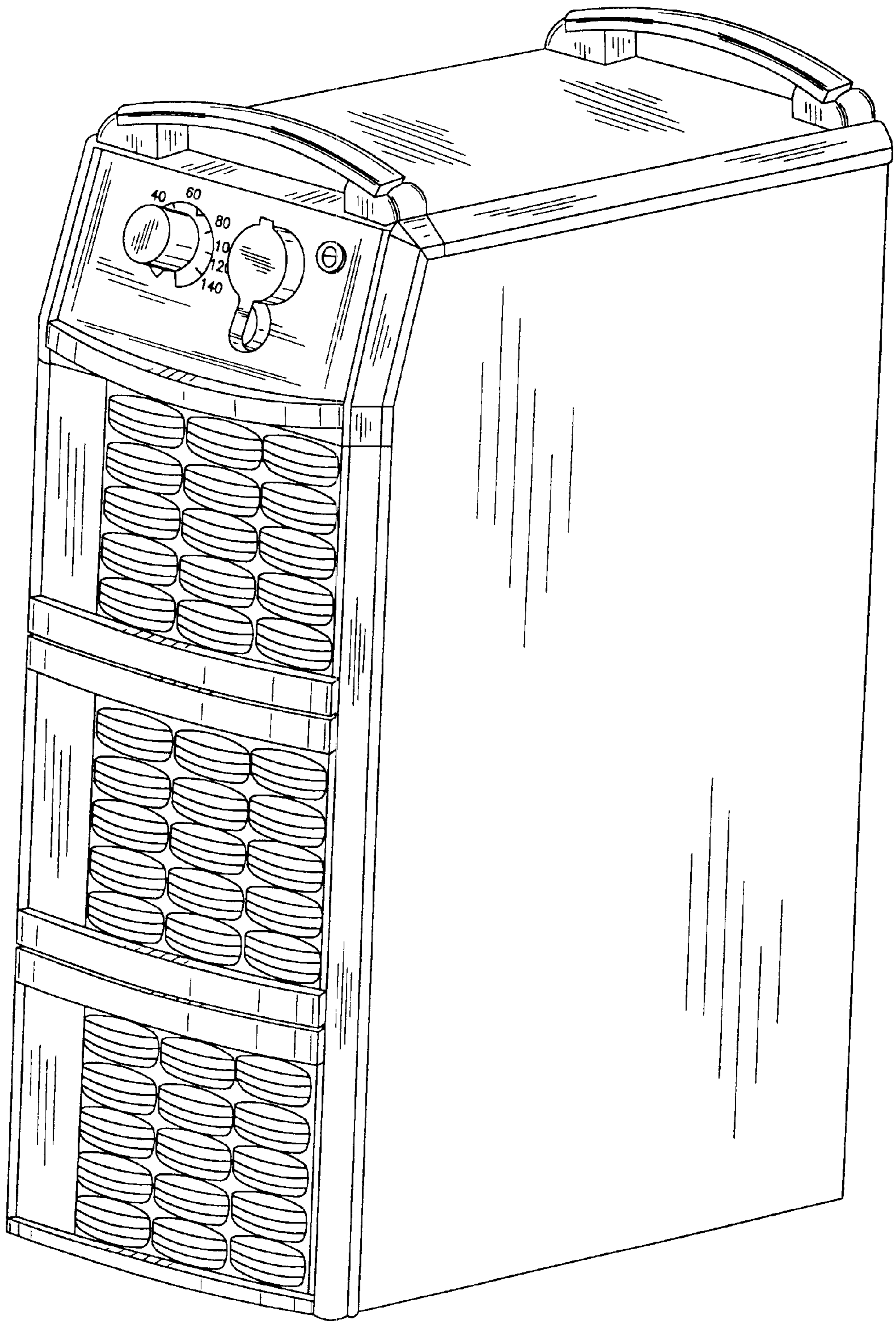


FIG. 20

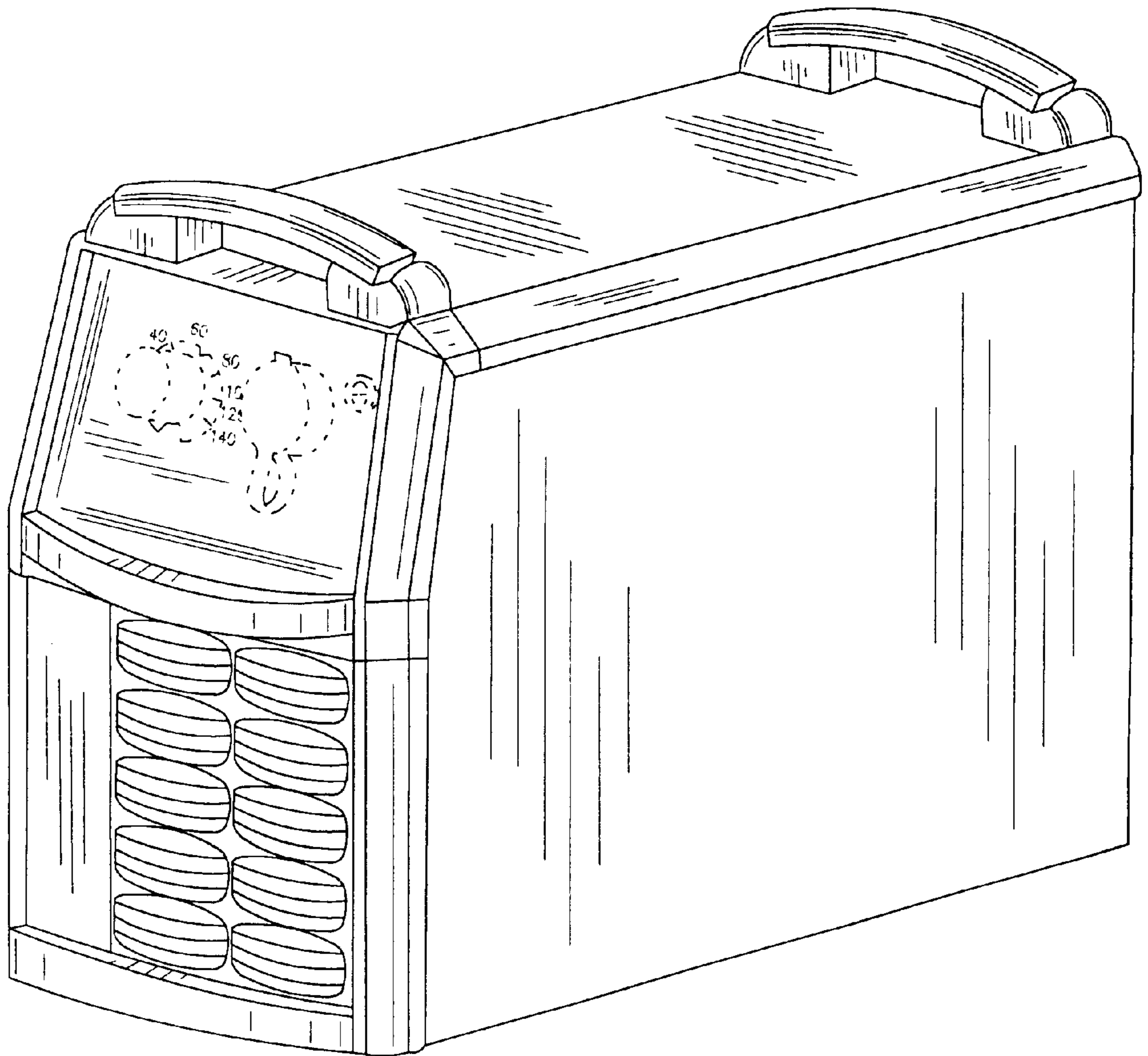


FIG. 21

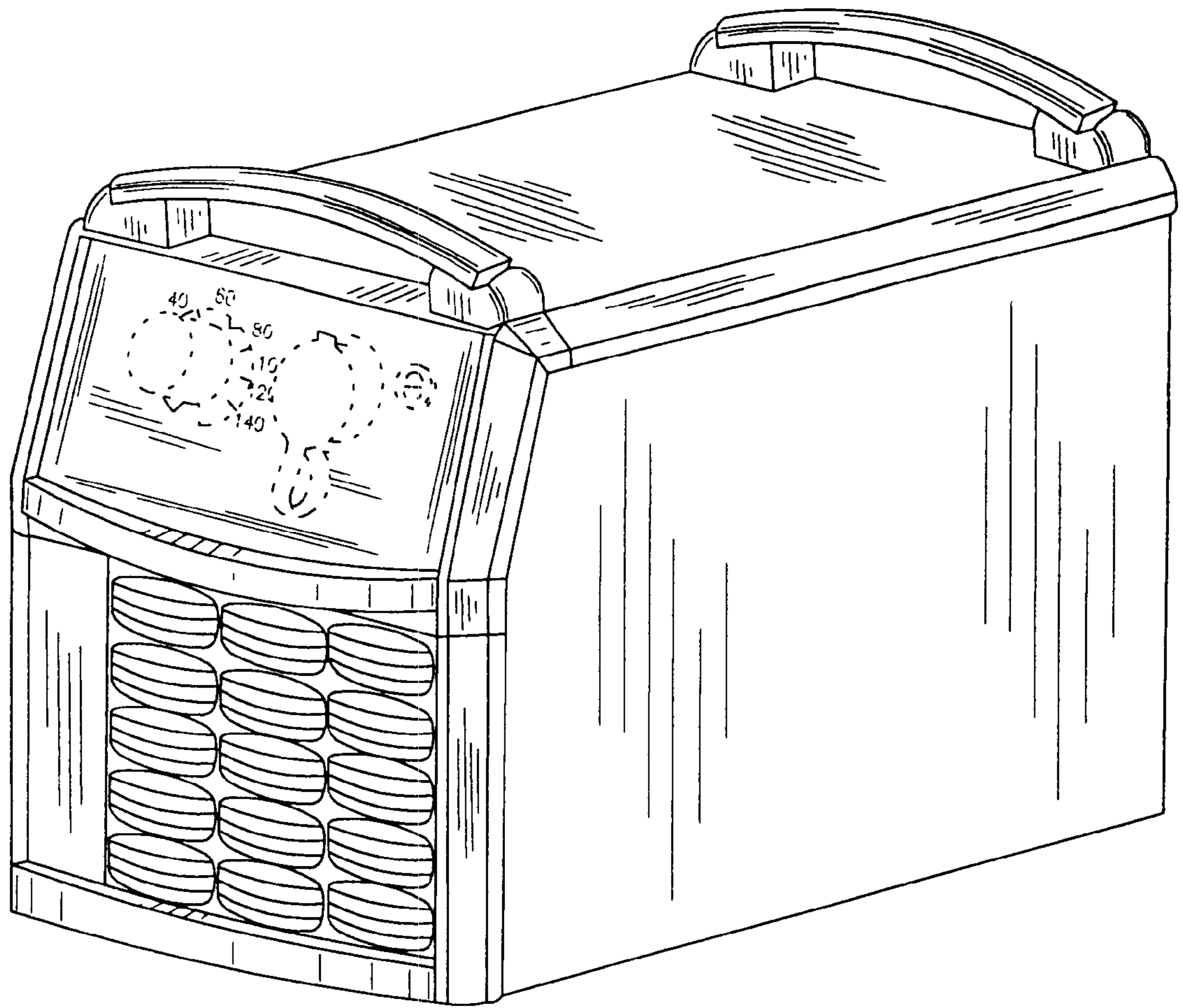


FIG. 22

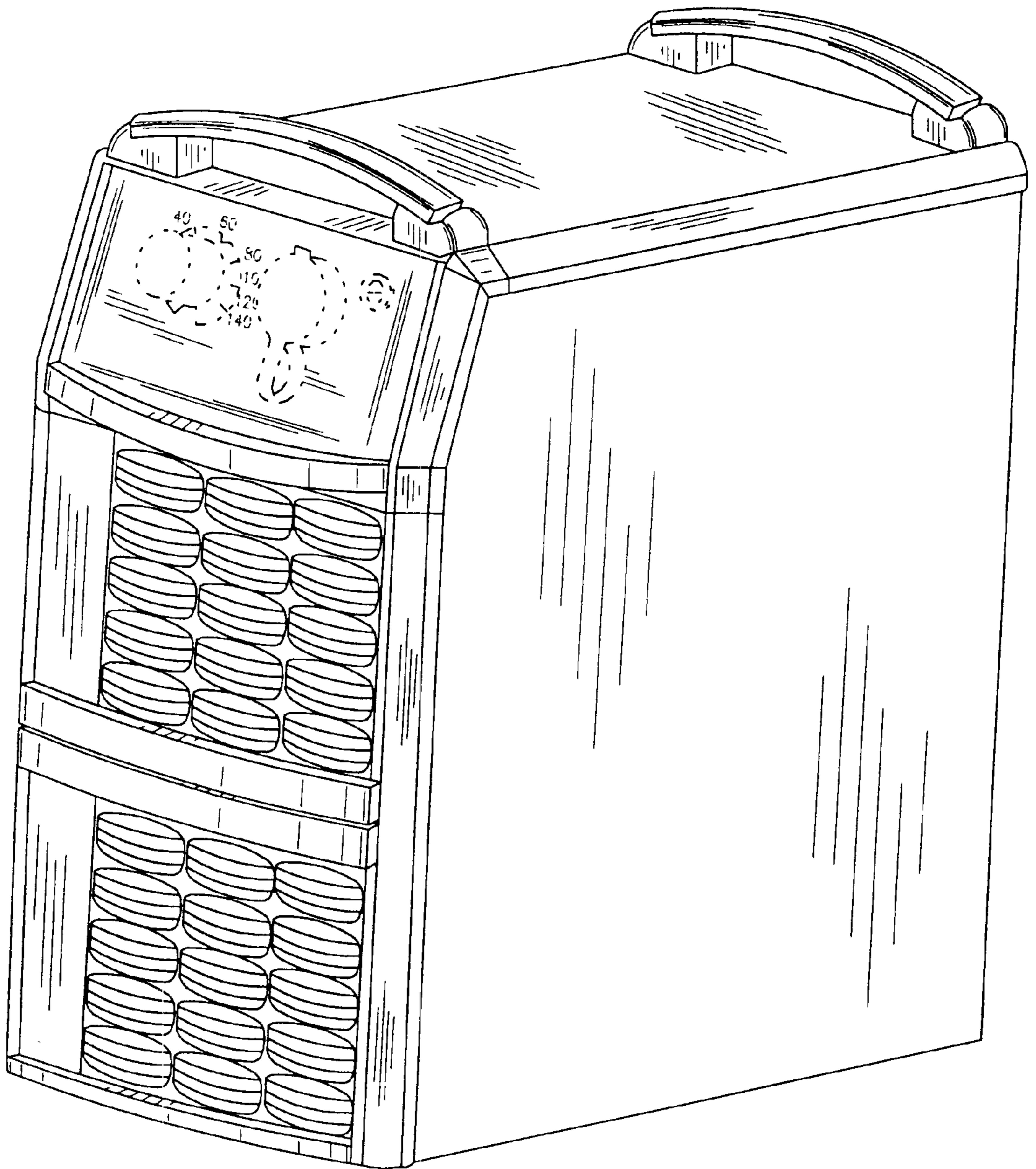


FIG. 23

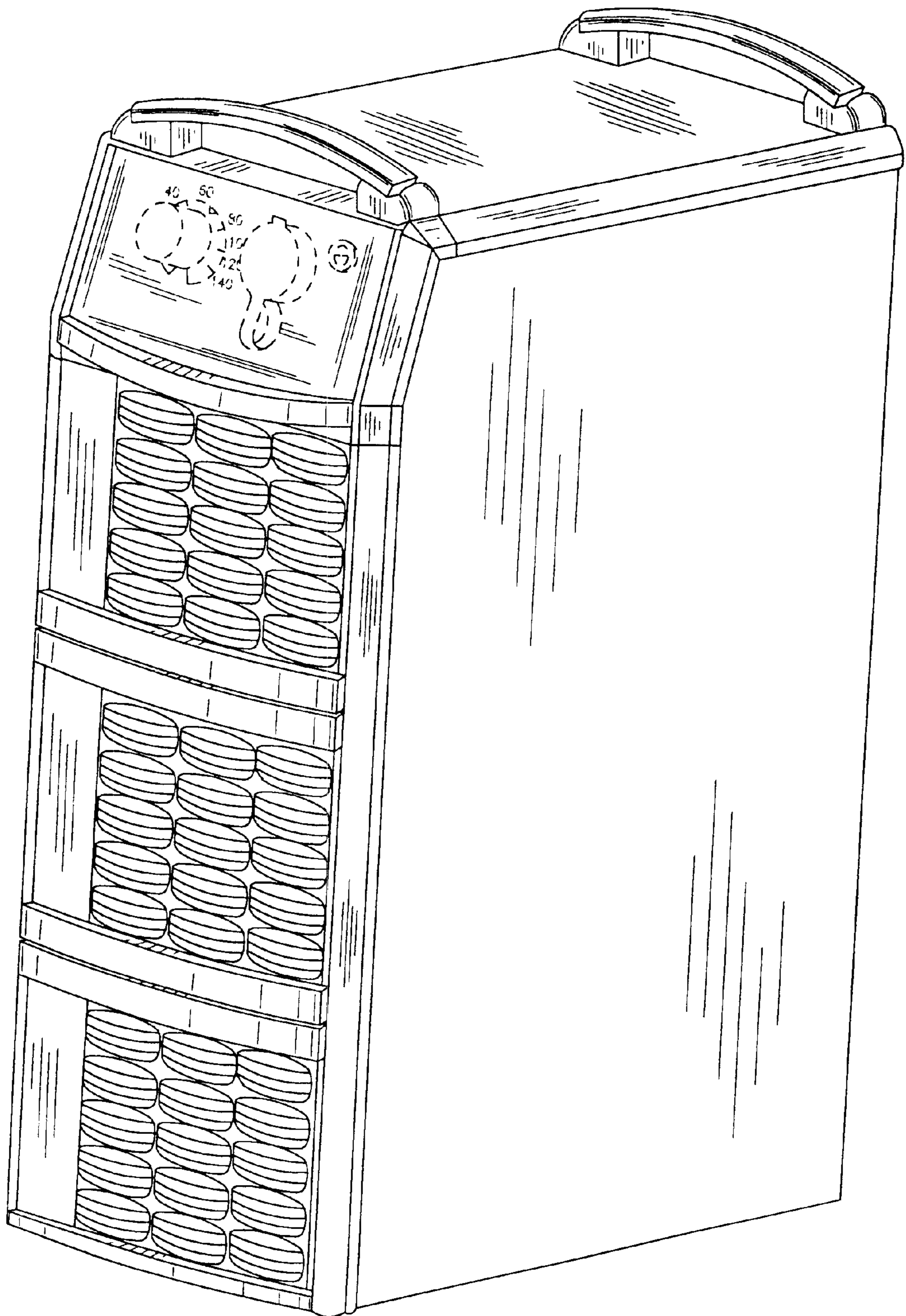


FIG. 24