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

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(45) **Date of Patent:** **** Jul. 17, 2012**

(54) **SEMI-AUTOMATED DEVICE FOR
PRODUCTS AND METHODS FOR SINGLE
PARAMETER AND MULTIPARAMETER
PHENOTYPING OF CELLS**

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

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(51) **LOC (9) Cl.** **24-01**

(52) **U.S. Cl.** **D24/216**

(58) **Field of Classification Search** D24/216,
D24/224, 231, 232, 233, 169, 186; D10/81;
422/500, 547, 62-65, 67; 435/287.1, 287.3,
435/4, 29, 34; 436/43, 45, 47

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,517,160 A * 5/1985 Galle et al. 422/65
D314,049 S * 1/1991 Katayama D24/169
D339,639 S * 9/1993 Ohnuma et al. D24/232
D364,576 S * 11/1995 Glaser D10/81
D377,455 S * 1/1997 Burchard et al. D24/169

D413,539 S * 9/1999 Ditterline et al. D24/186
D422,925 S * 4/2000 Glaser et al. D10/81
D515,220 S * 2/2006 Miller et al. D24/216
D571,480 S * 6/2008 Beck et al. D24/232
D599,234 S * 9/2009 Ito D10/81
D612,276 S * 3/2010 Duffy et al. D24/232
D621,523 S * 8/2010 Onuma et al. D24/234
7,931,863 B2 * 4/2011 Kitagawa et al. 422/64

* cited by examiner

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(57) **CLAIM**

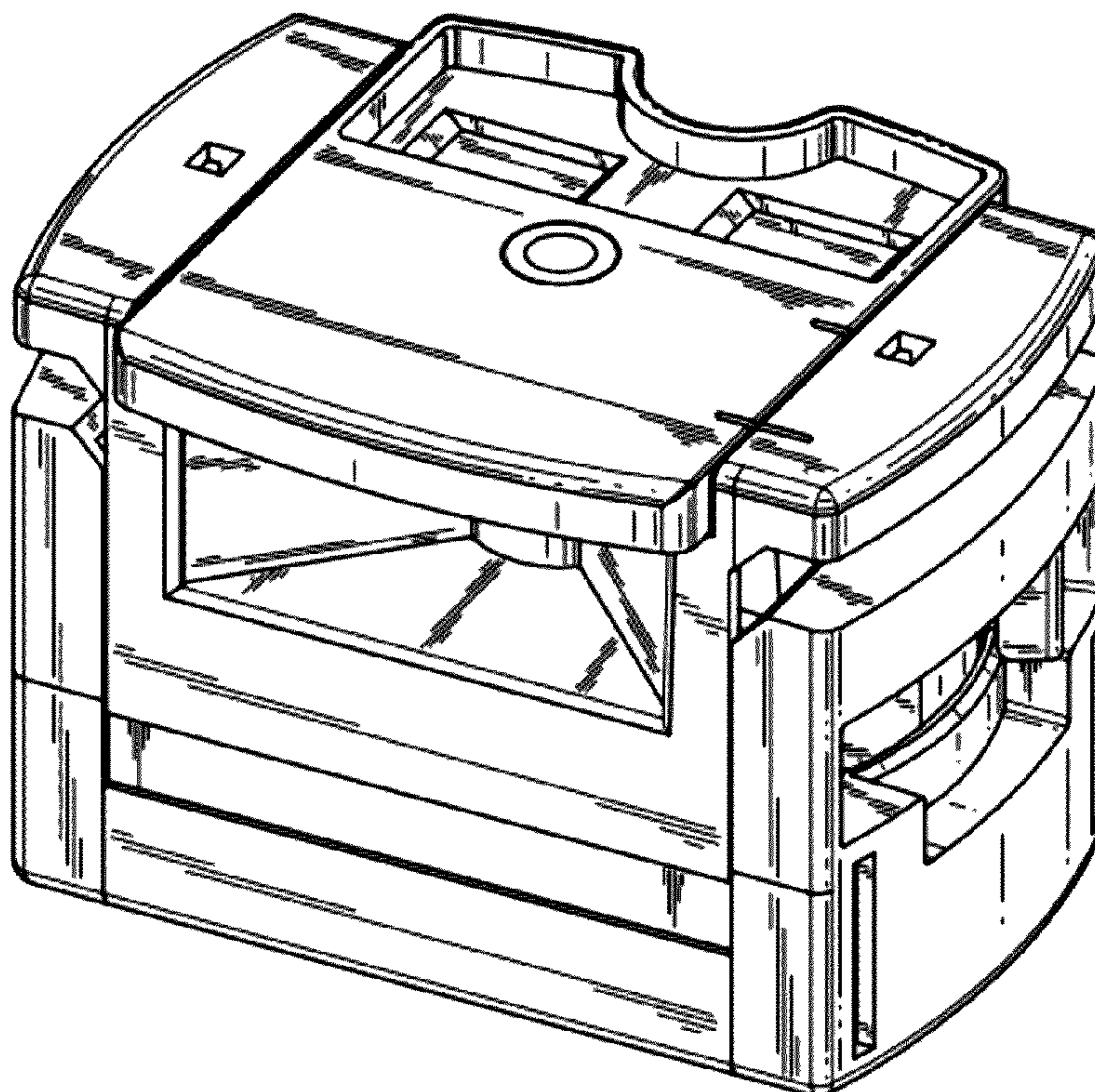
The ornamental design for a semi-automated device for prod-
ucts and methods for single parameter and multiparameter
phenotyping of cells, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of our new design;
FIG. 2 is a rear perspective view thereof;
FIG. 3 is a top view thereof;
FIG. 4 is a front view thereof;
FIG. 5 is a rear view thereof;
FIG. 6 is a bottom view thereof;
FIG. 7 is a right side view thereof; and,
FIG. 8 is a left side view thereof.

The broken lines in the drawing views are included for the
purpose of illustrating portions of the semi-automated device
that form no part of the claimed design.

1 Claim, 4 Drawing Sheets



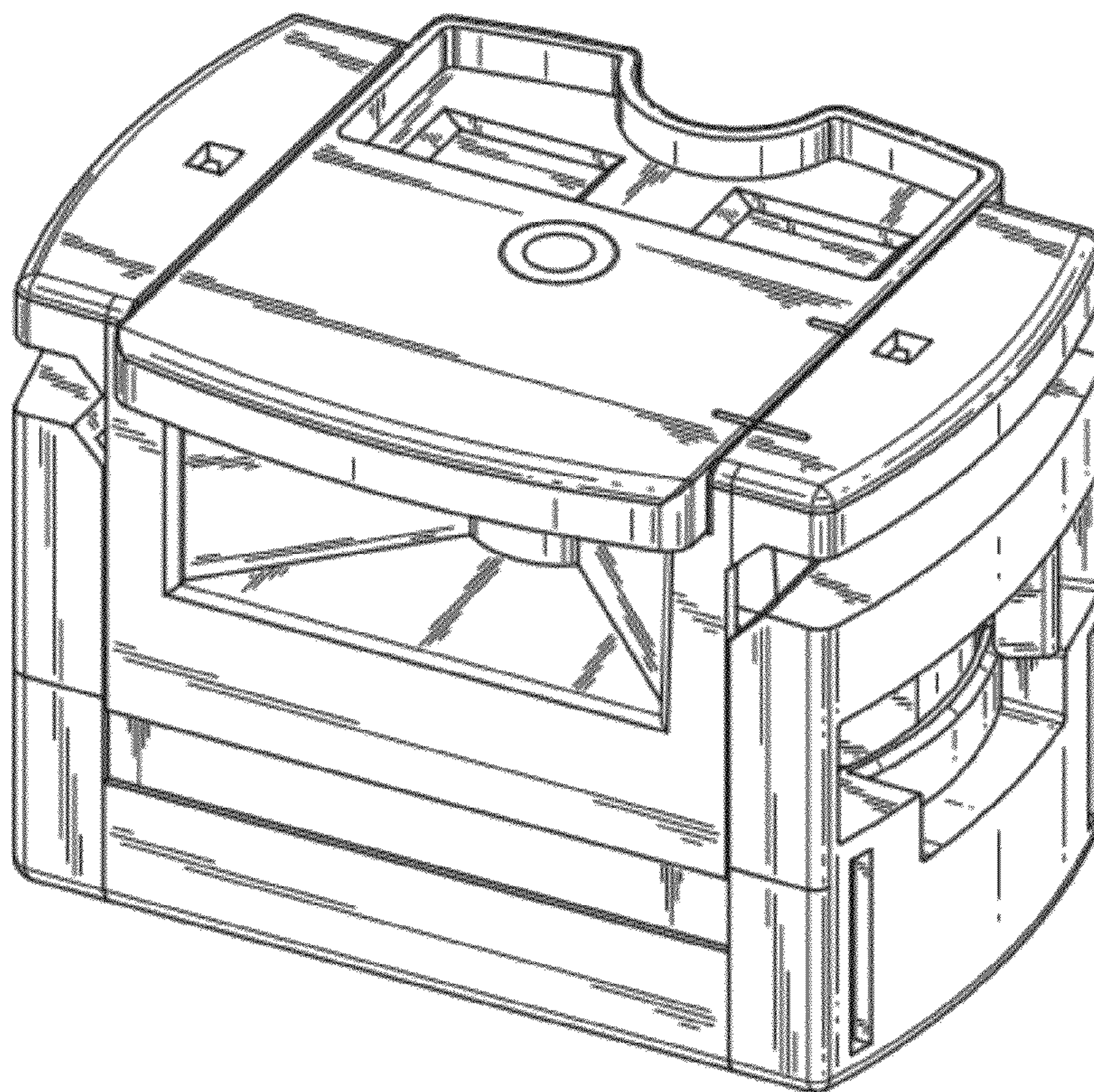


FIG. 1

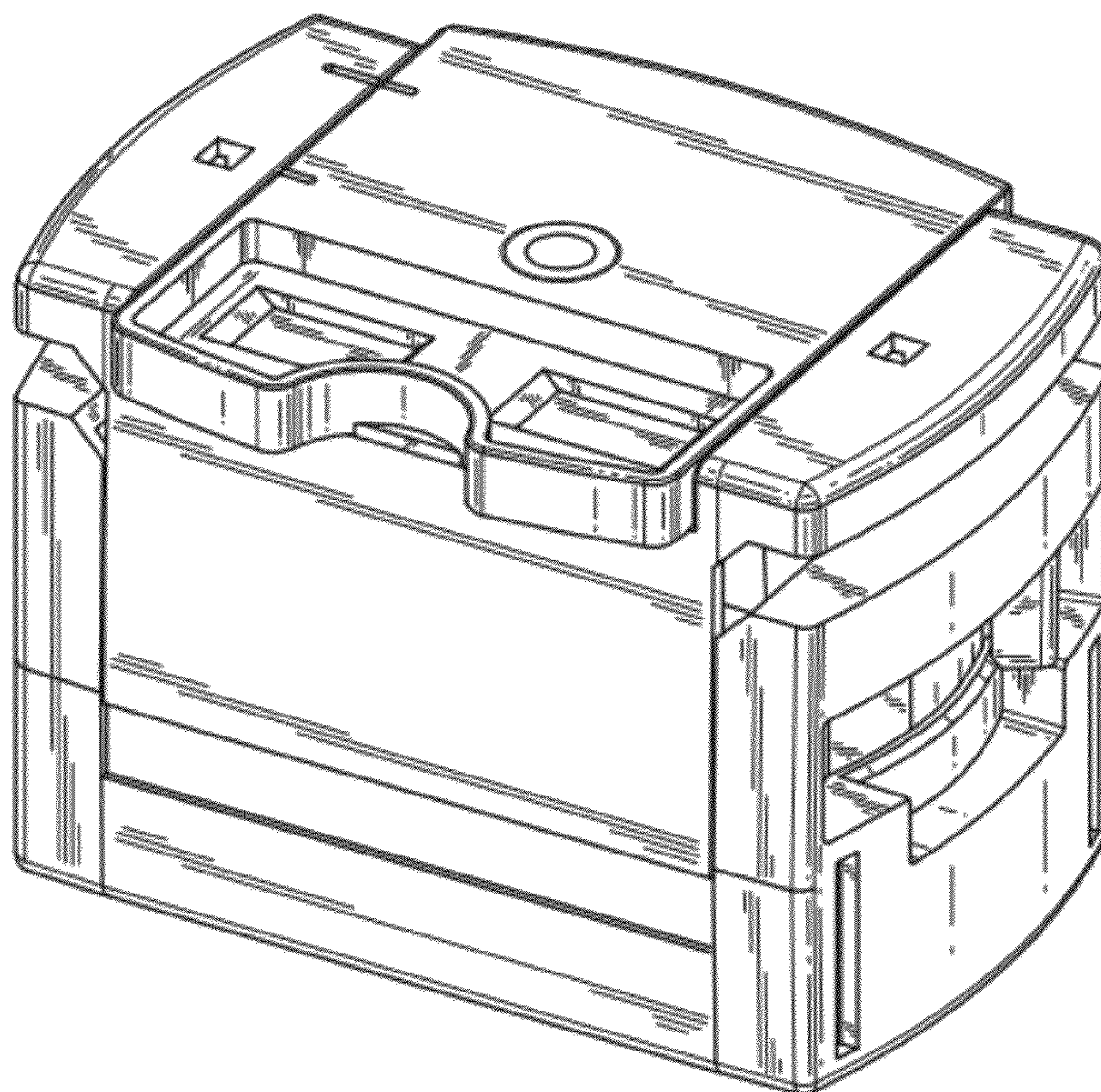


FIG. 2

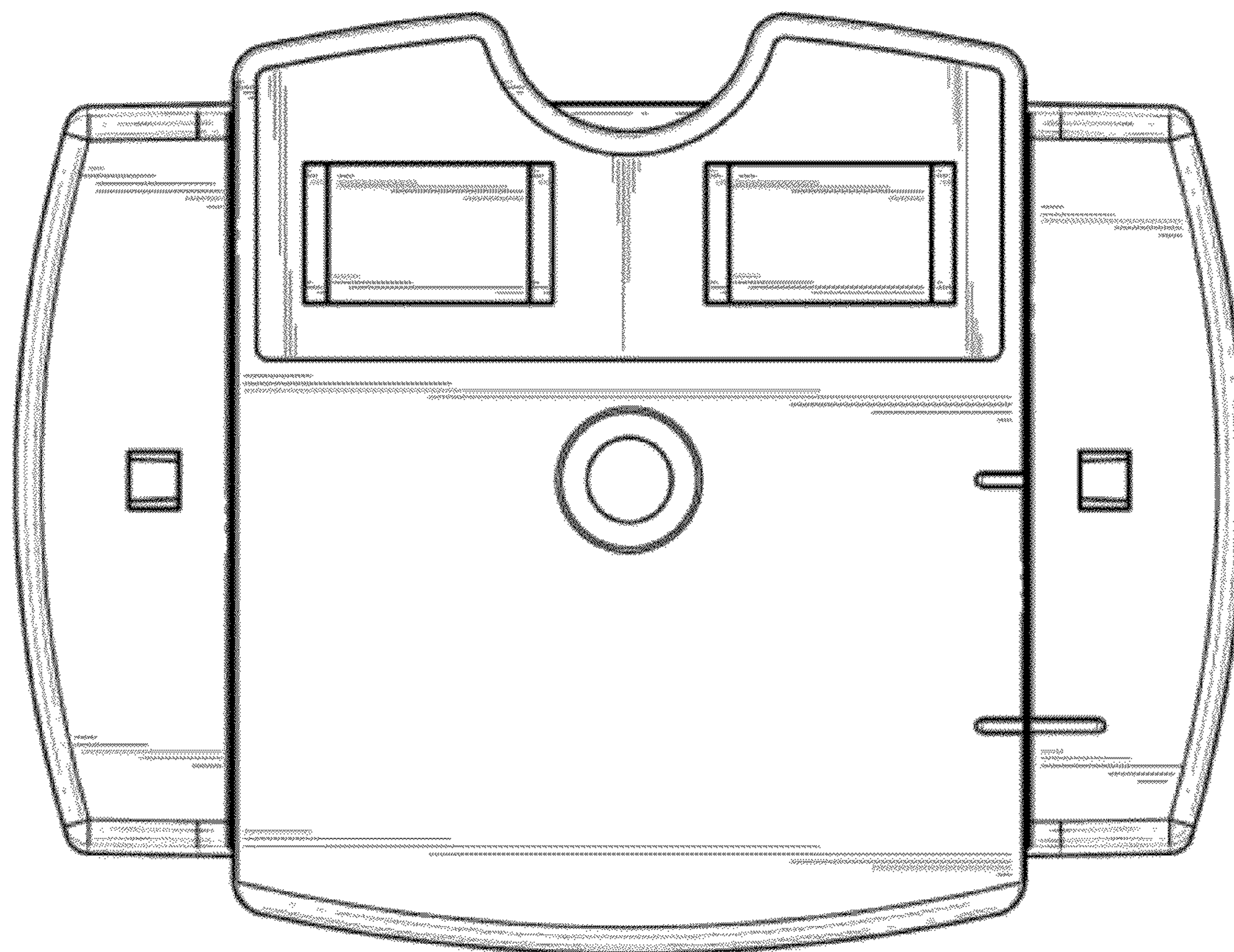


FIG. 3

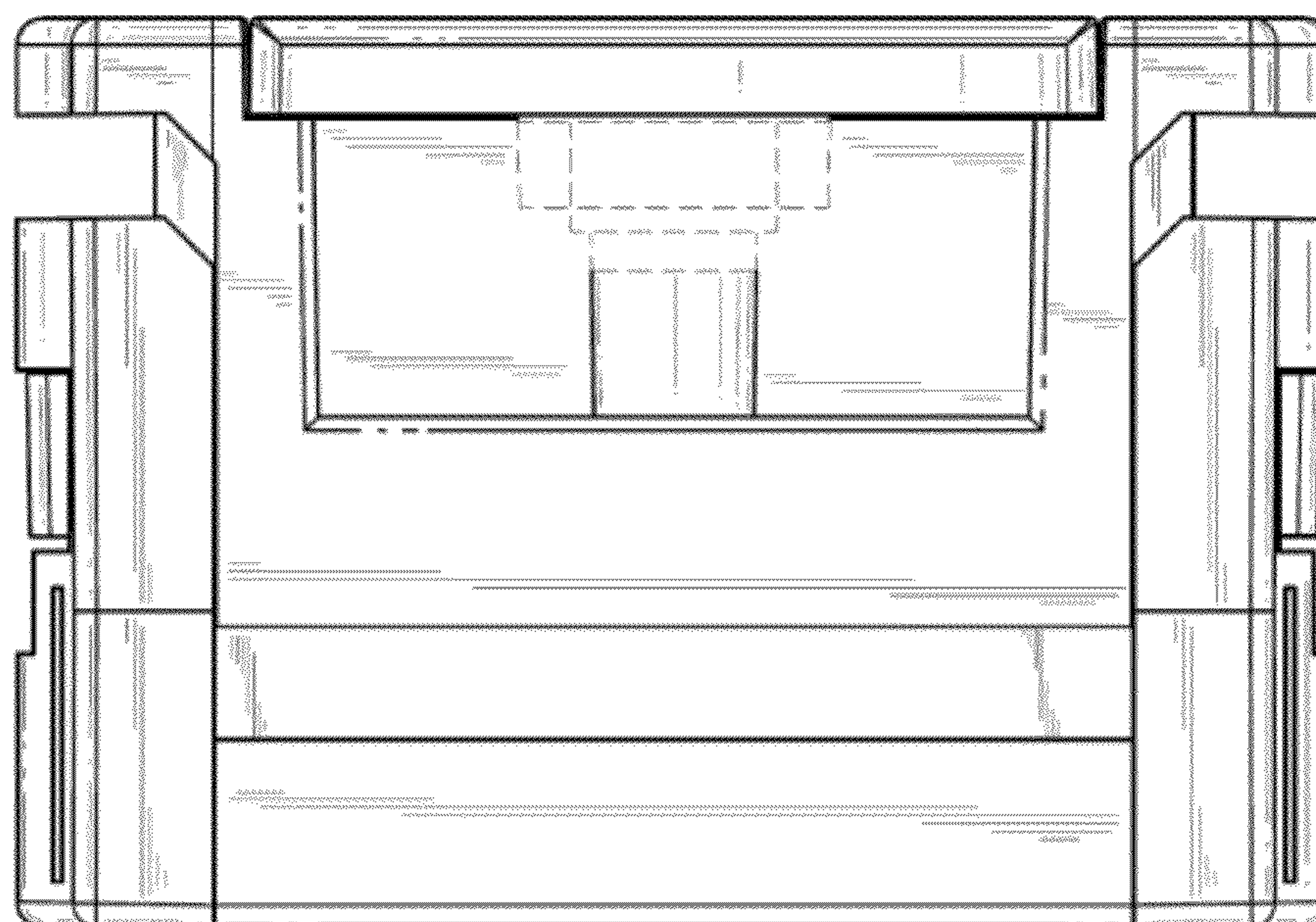


FIG. 4

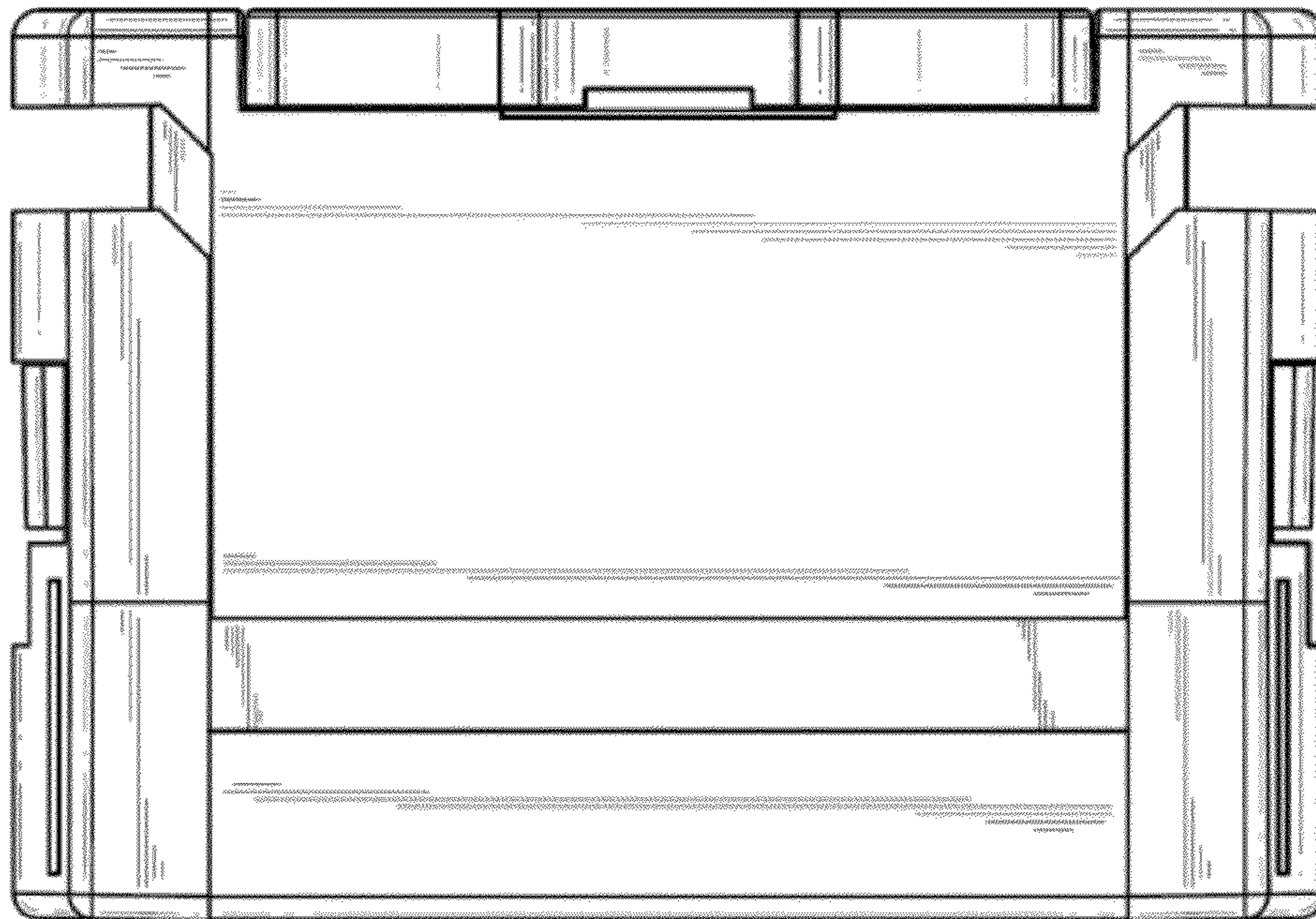


FIG. 5

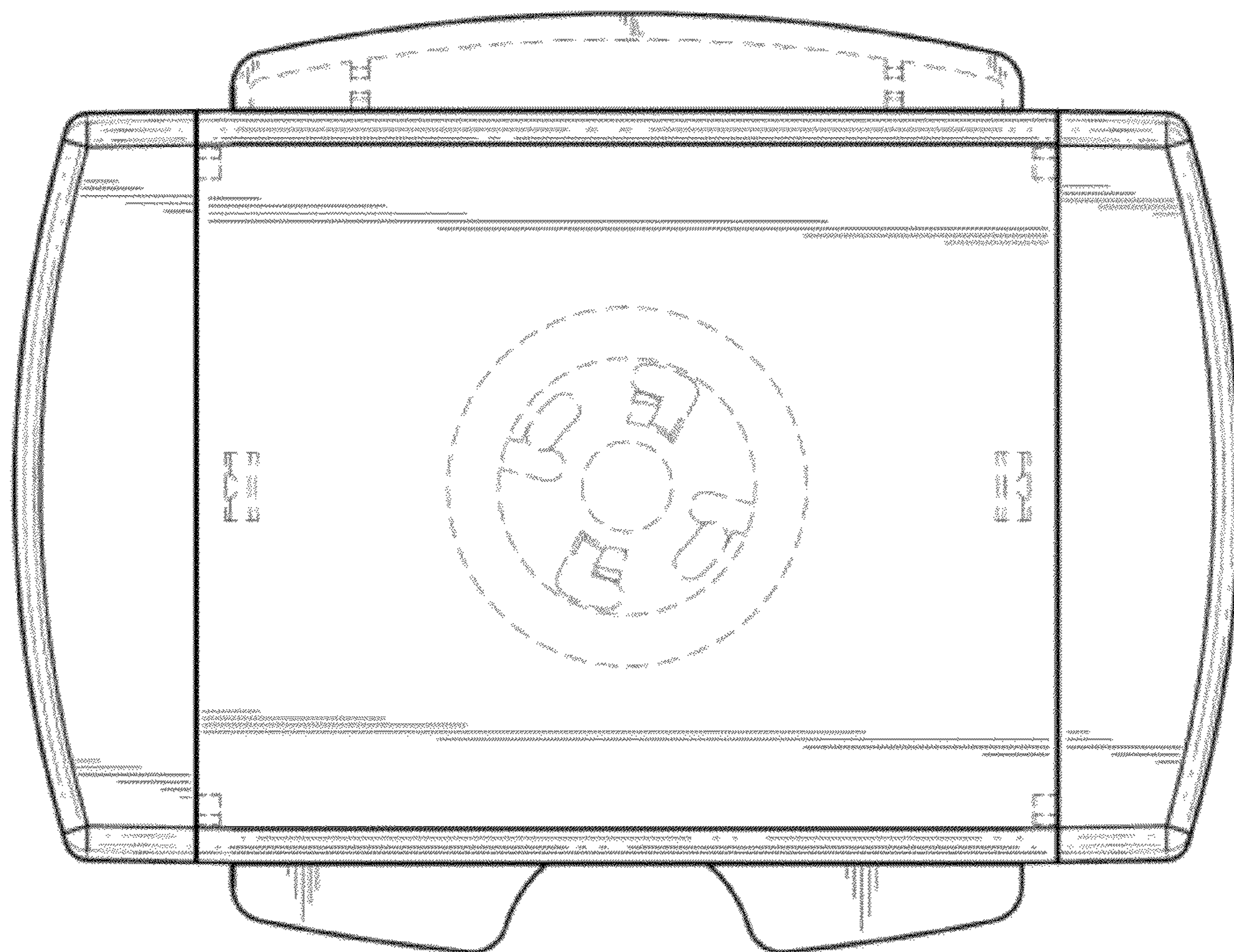


FIG. 6

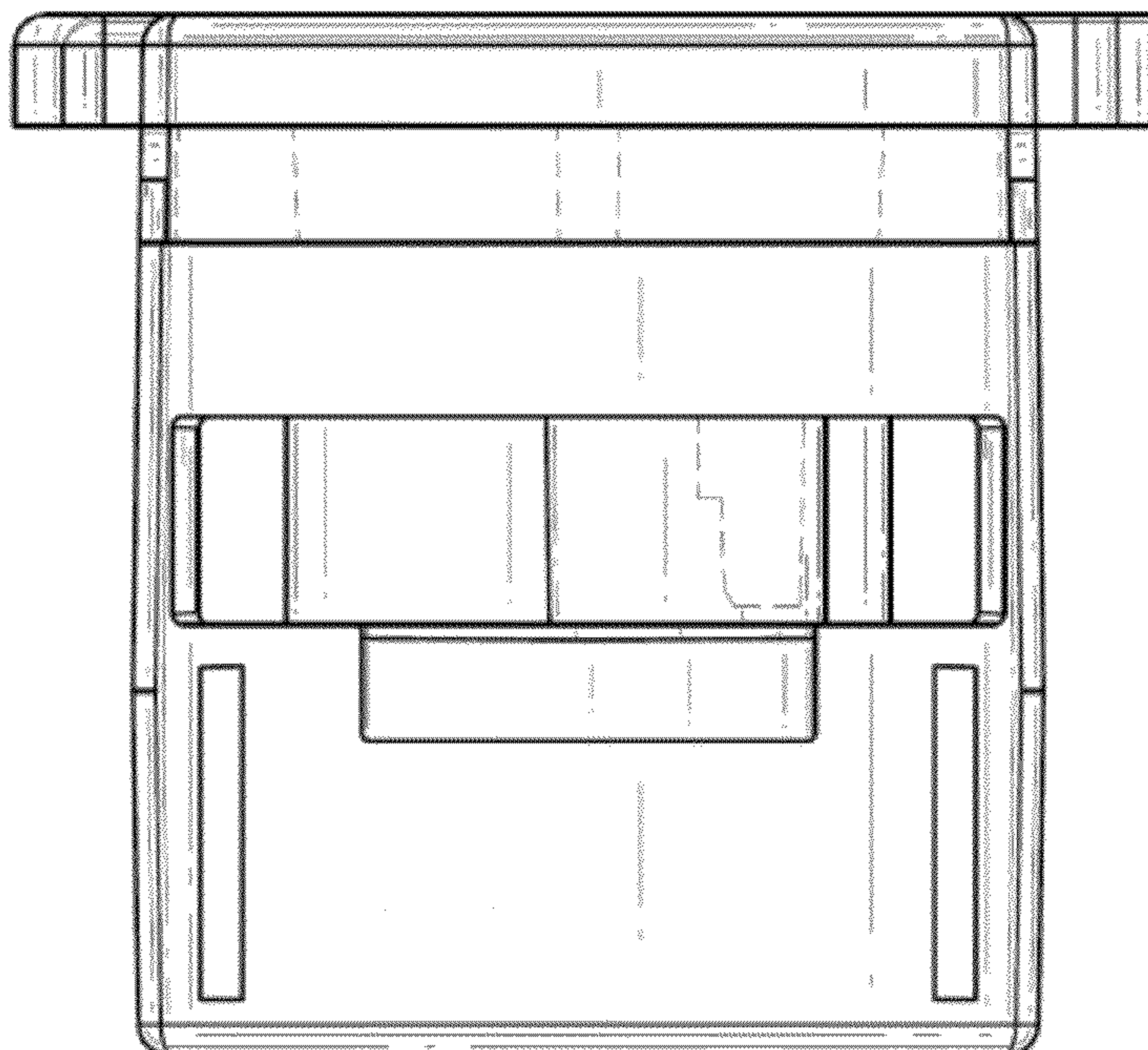


FIG. 7

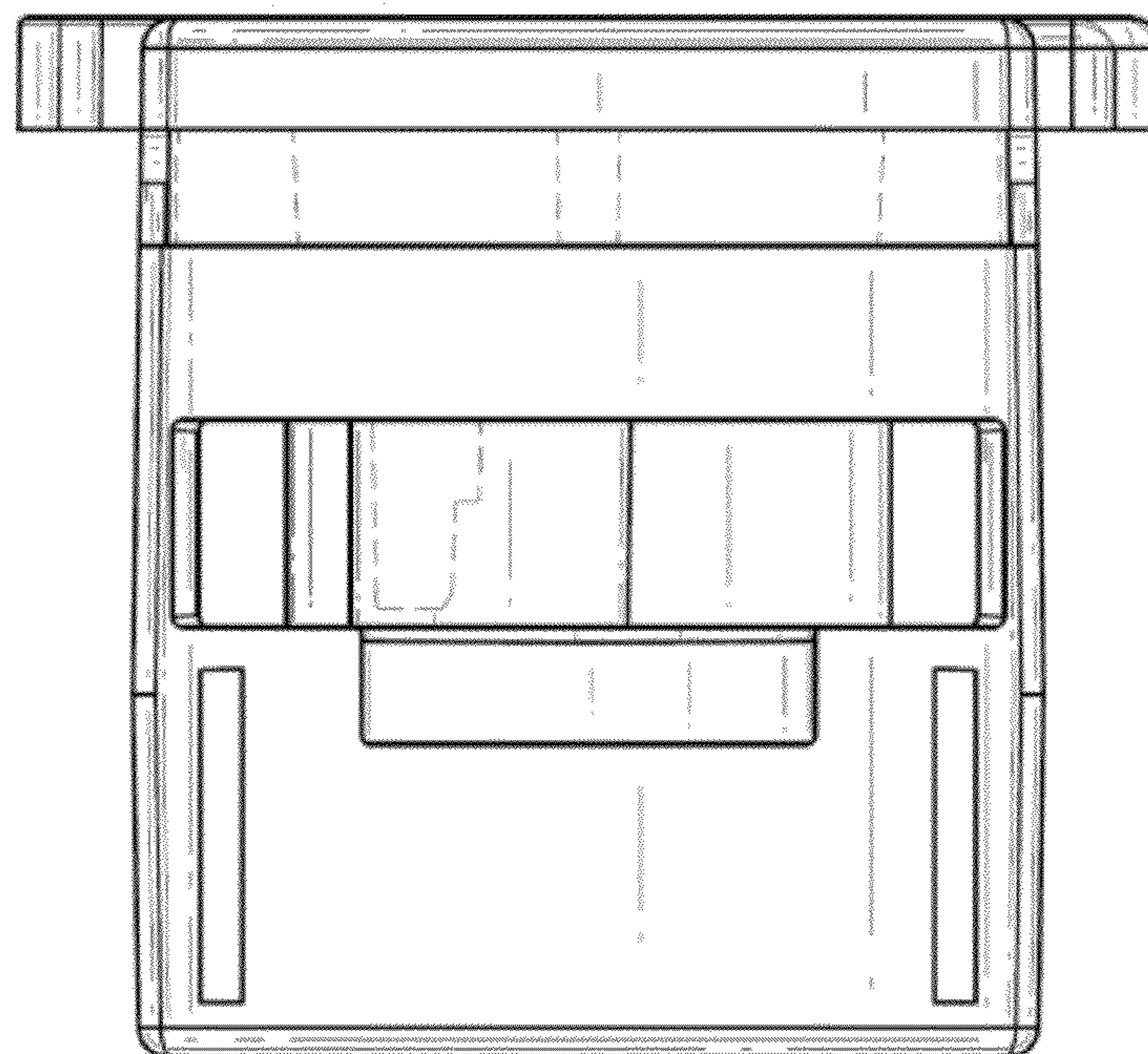


FIG. 8