

US00D927658S

(12) **United States Design Patent**
Fu

(10) **Patent No.:** **US D927,658 S**

(45) **Date of Patent:** **** Aug. 10, 2021**

- (54) **HEATING AND COOLING FAN**
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- (72) Inventor: **Ruochen Fu**, Changsha (CN)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/773,241**
- (22) Filed: **Mar. 8, 2021**
- (51) **LOC (13) Cl.** **23-03**
- (52) **U.S. Cl.**
USPC **D23/332; D23/333**
- (58) **Field of Classification Search**
USPC D23/314, 317, 332, 333, 334, 335, 336,
D23/337, 338, 339, 340, 351, 355, 356,
D23/359, 364, 370, 378, 381
CPC .. A61L 9/16; A61L 9/22; B01D 47/00; B01D
47/027; B01D 2221/02; B01D 2259/4508;
B03C 3/155; B03C 3/368; F24F 3/16;
F24F 13/20; F24F 13/28; F24H 9/0052;
F24H 9/02
See application file for complete search history.

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Primary Examiner — Ania Aman

(57) **CLAIM**

The ornamental design for a heating and cooling fan, as shown and described.

DESCRIPTION

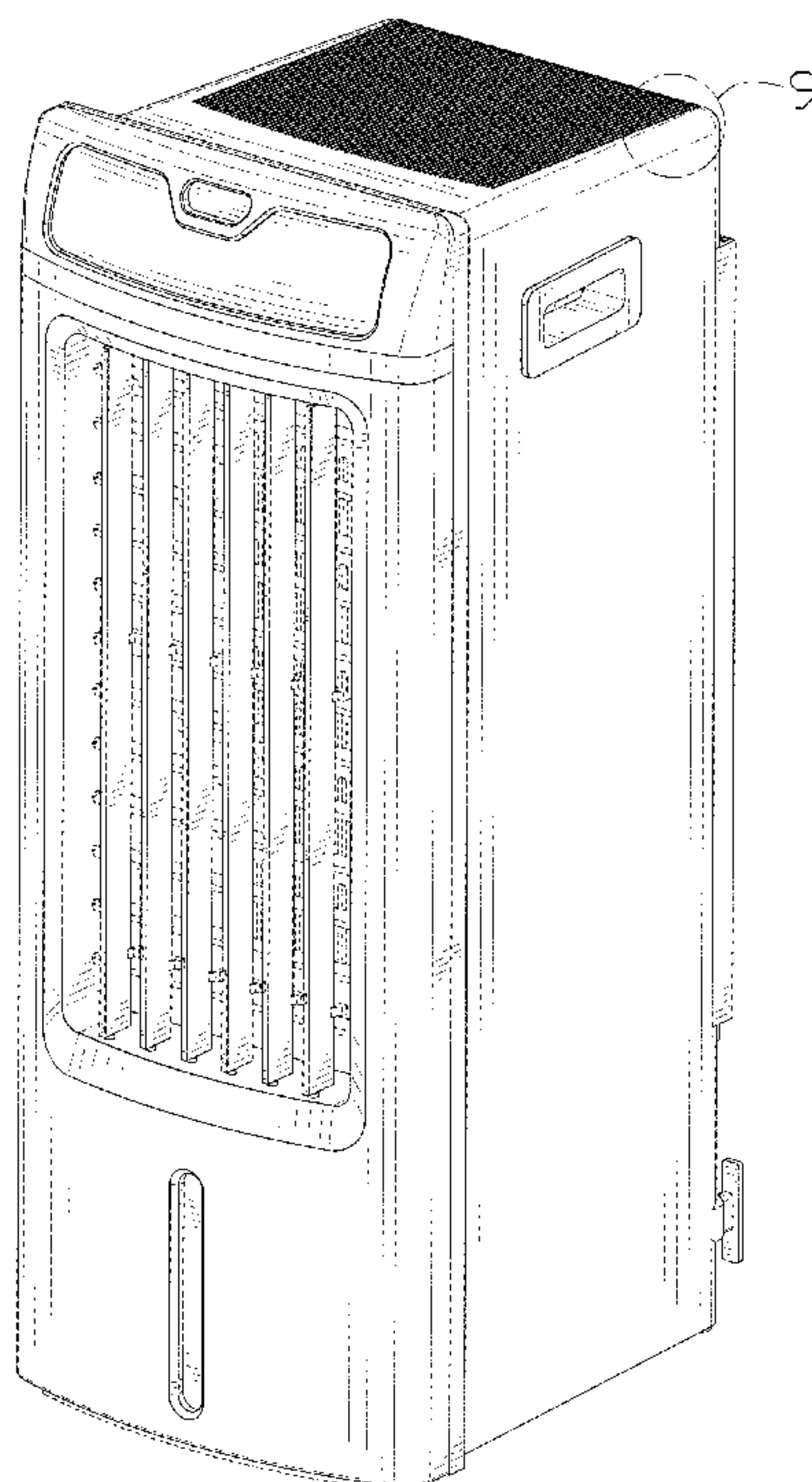
FIG. 1 is a front and top perspective view of a heating and cooling fan, showing my new design;
 FIG. 2 is a rear and bottom perspective view thereof;
 FIG. 3 is a front elevation view thereof;
 FIG. 4 is a rear elevation view thereof;
 FIG. 5 is a left side elevation view thereof;
 FIG. 6 is a right side elevation view thereof;
 FIG. 7 is a top plan view thereof;
 FIG. 8 is a bottom plan view thereof;
 FIG. 9 is an enlarged view of a portion indicated with numeric 9 in FIG. 1; and,
 FIG. 10 is an enlarged view of a portion indicated with numeric 10 in FIG. 2.
 The broken lines in the figures illustrate portions of the heating and cooling fan that form no part of the claimed design. The dash dot dash lines in FIGS. 1, 2, 9 and 10 are for the purpose of depicting the cut line of the enlarged view and form no part of the claim.

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1 Claim, 10 Drawing Sheets



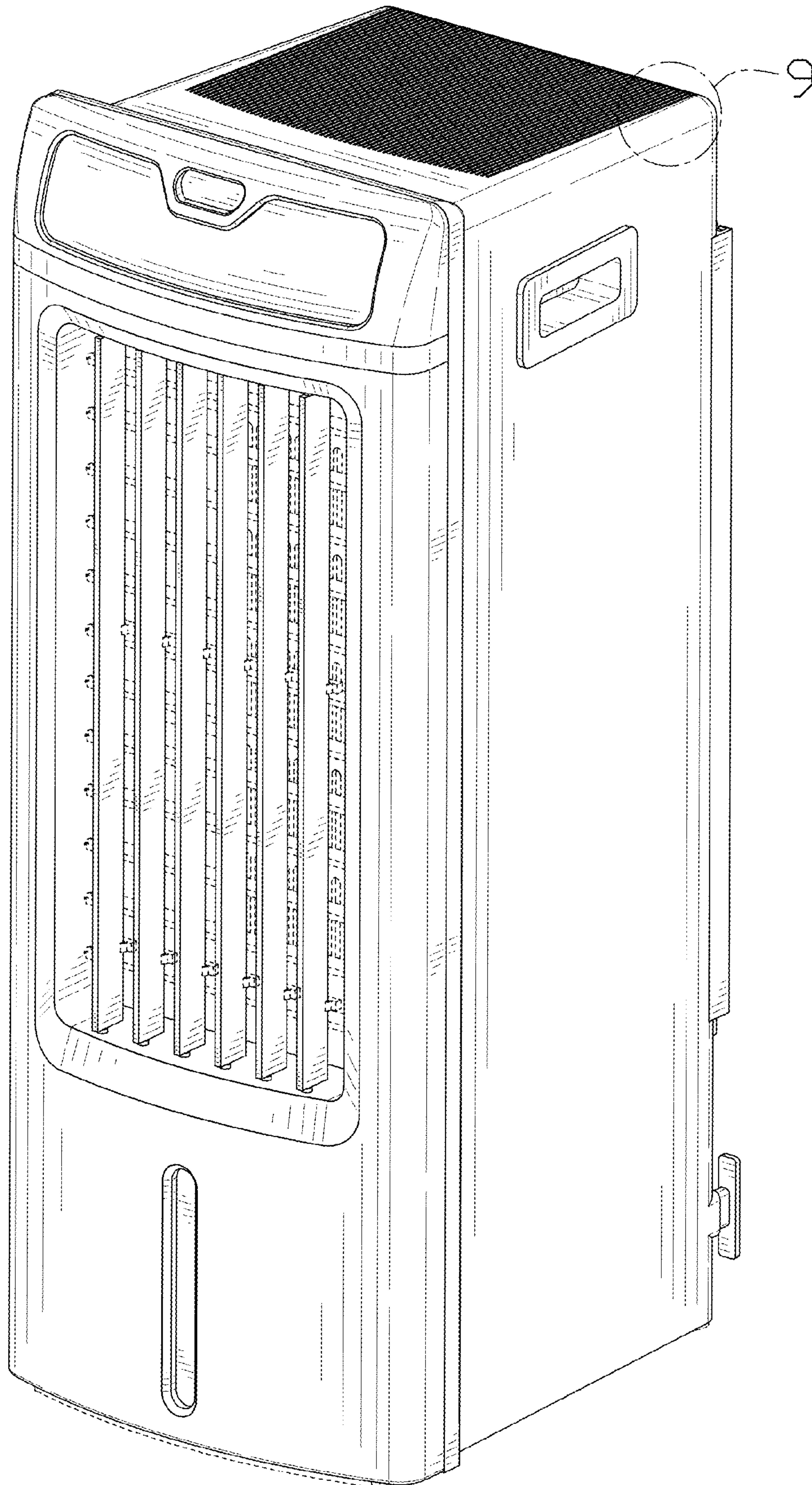


FIG. 1

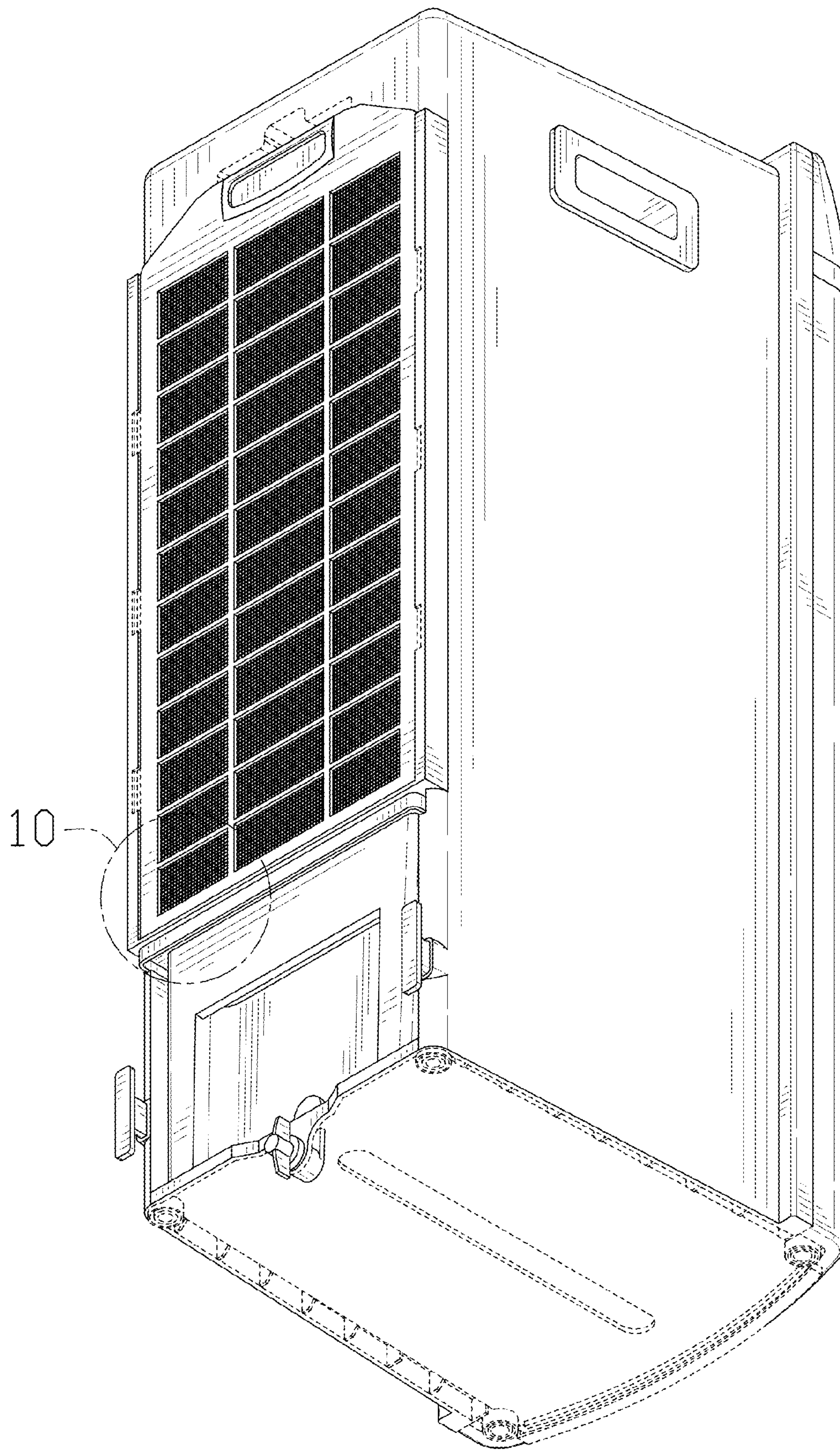


FIG. 2

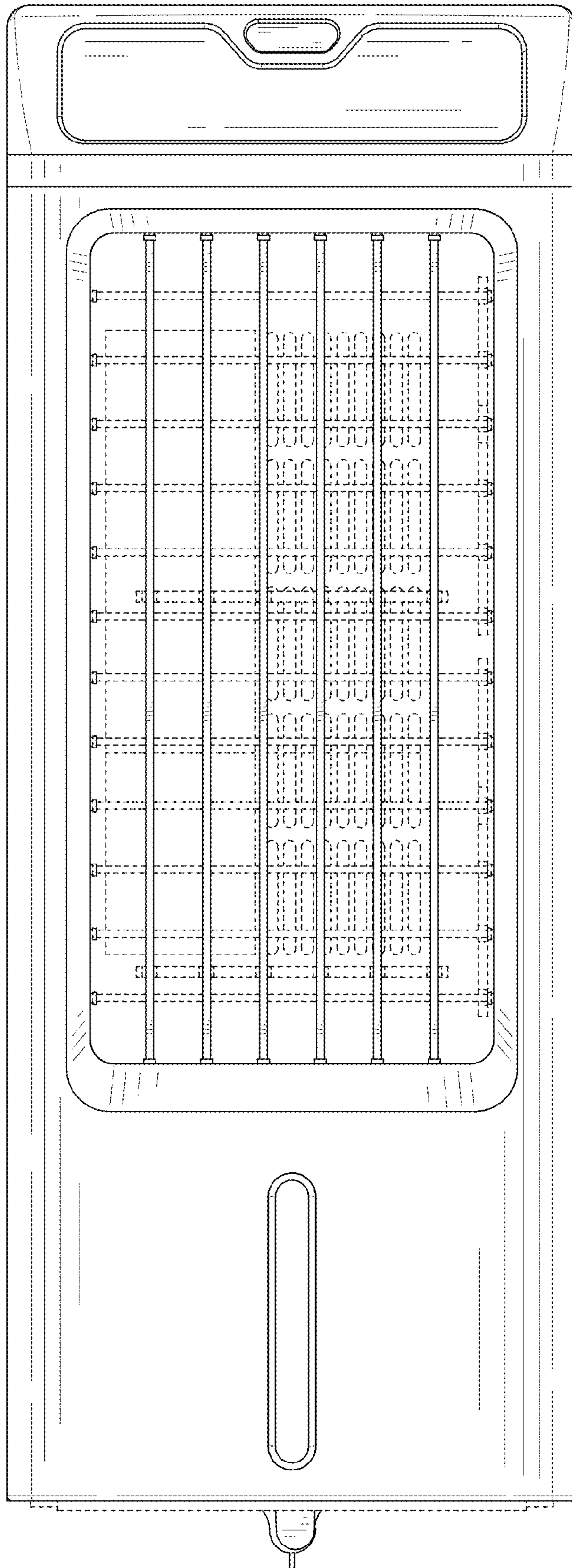


FIG. 3

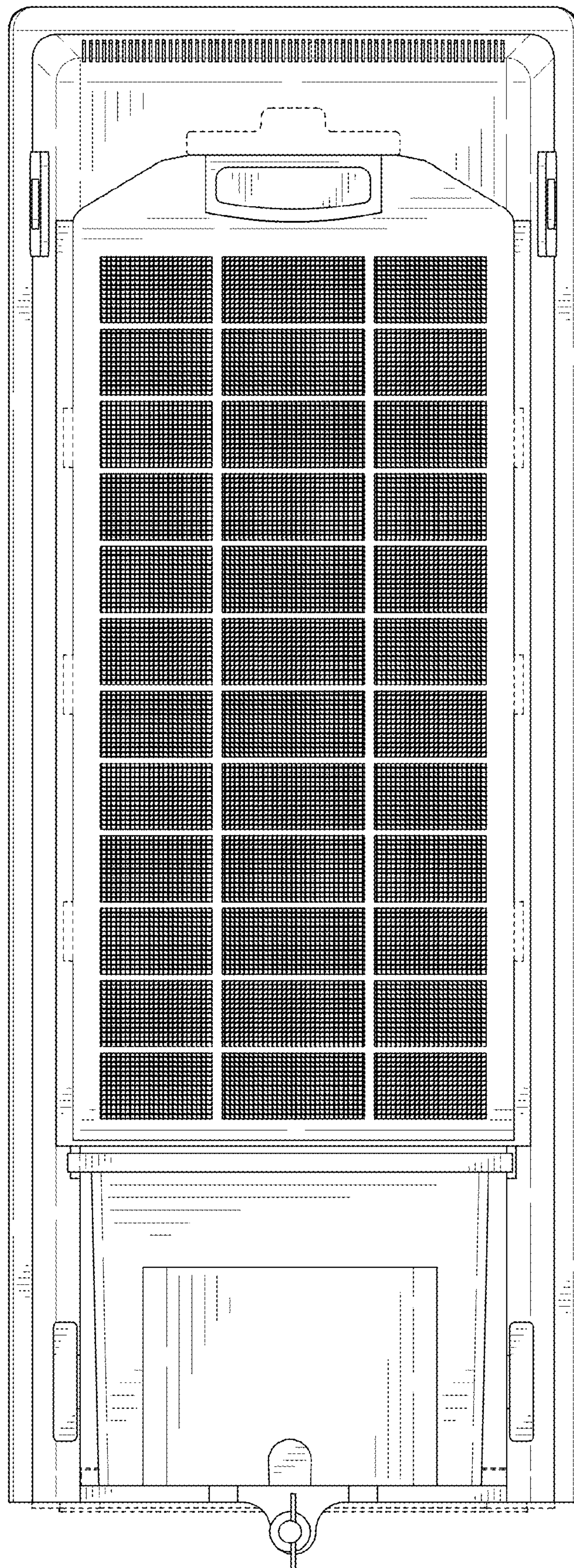


FIG. 4

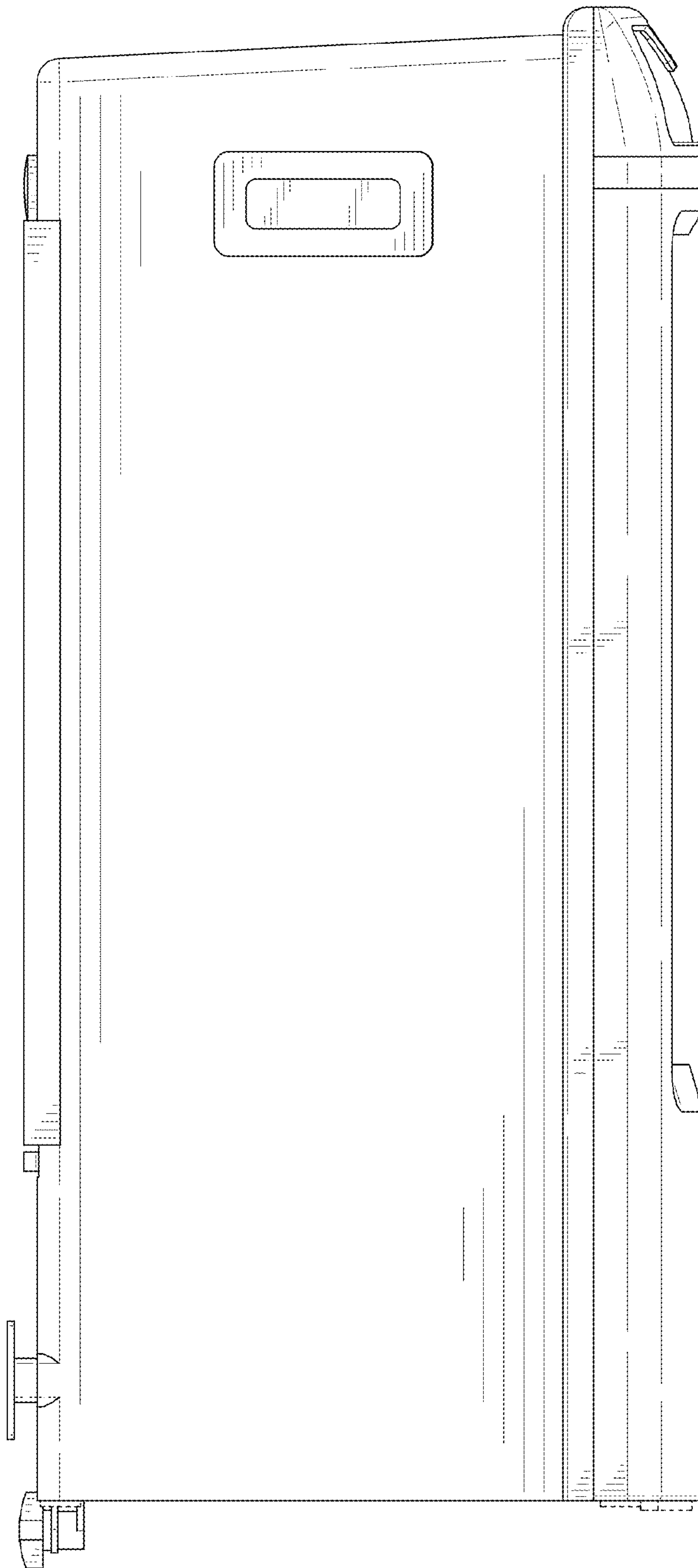


FIG. 5

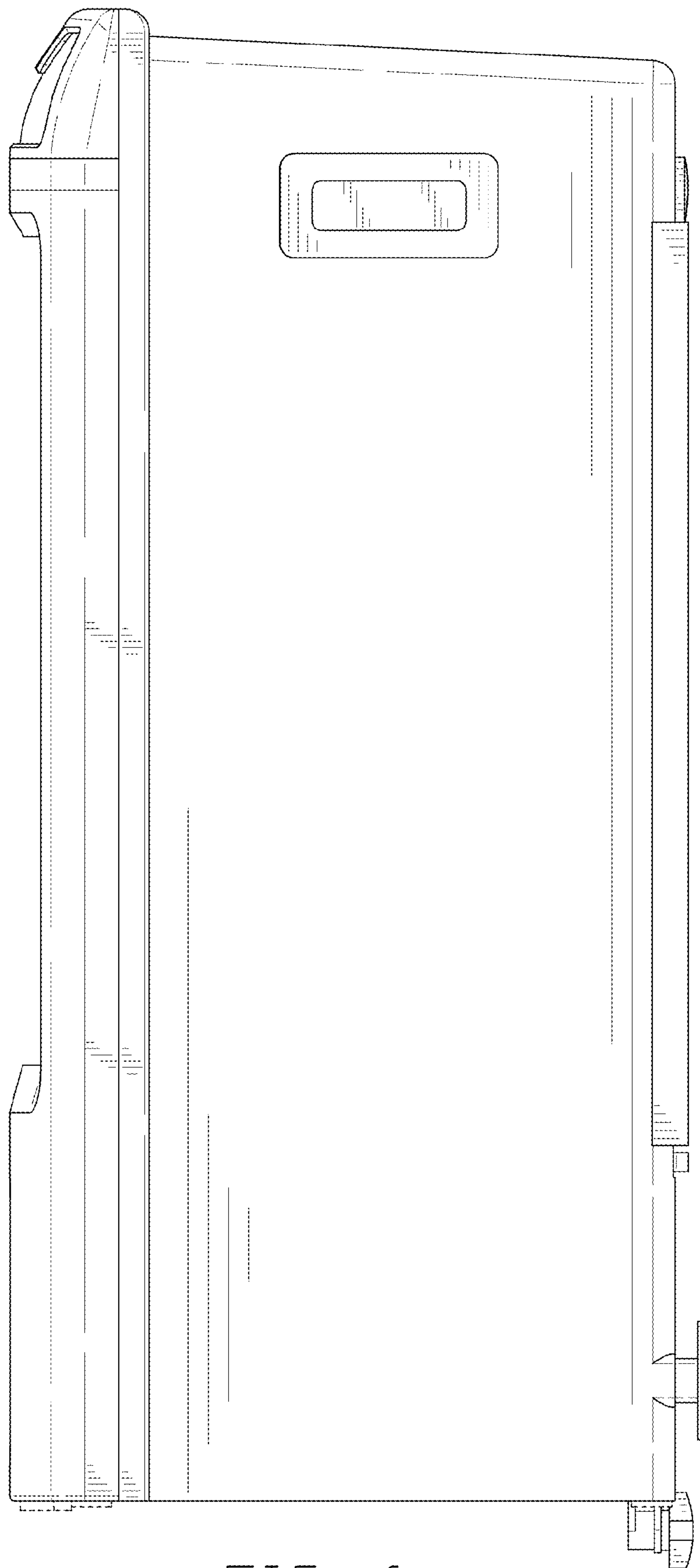


FIG. 6

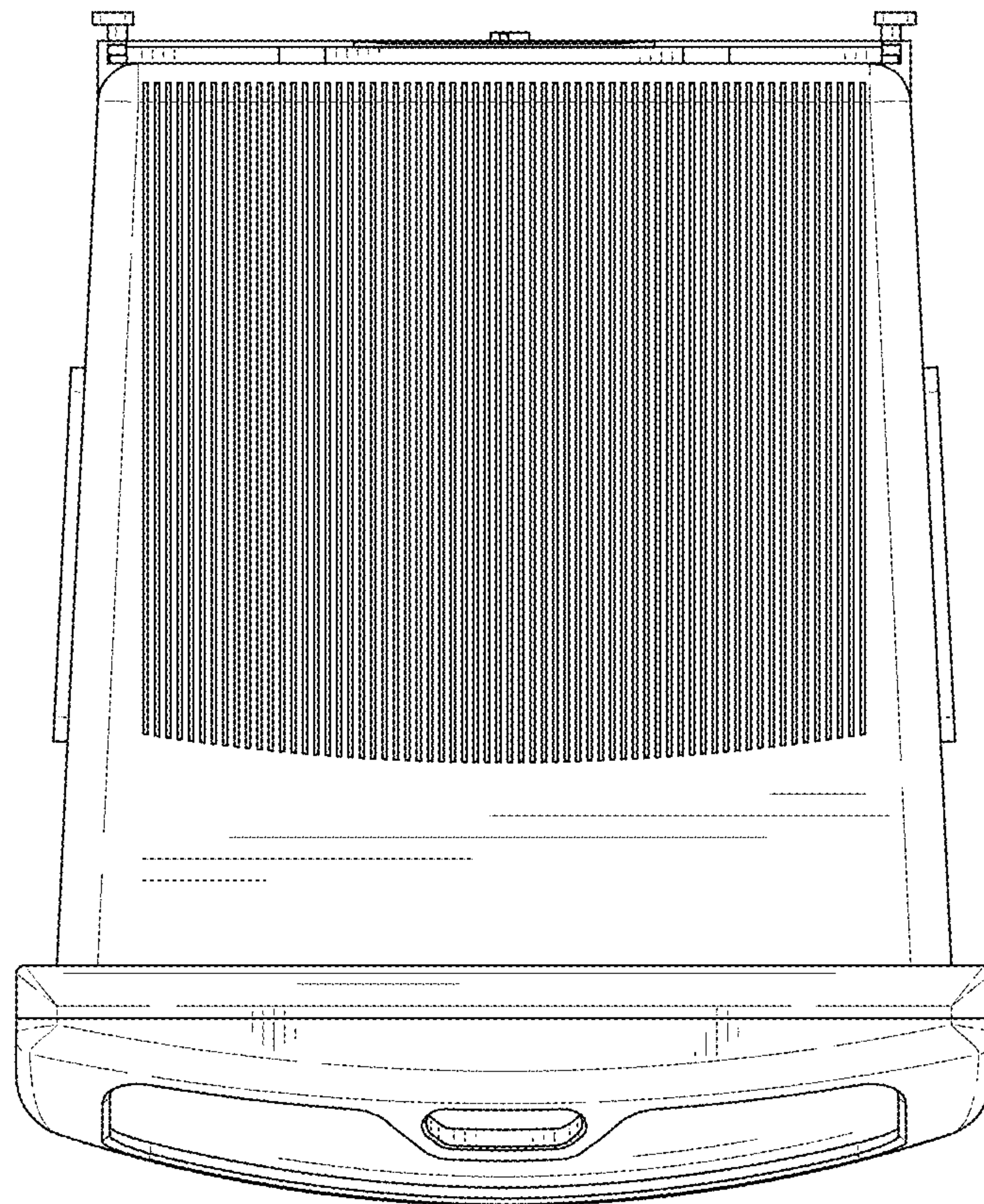


FIG. 7

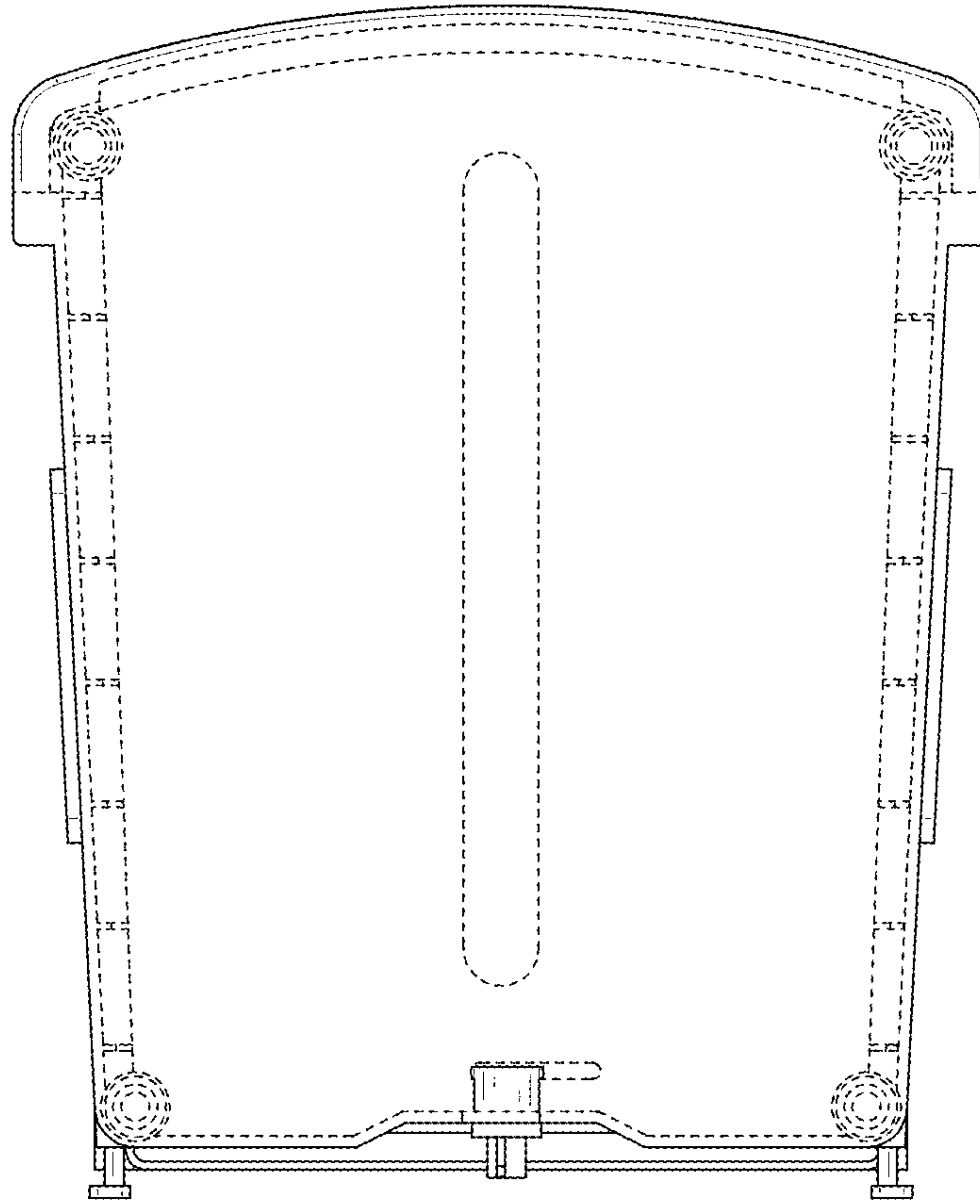


FIG. 8

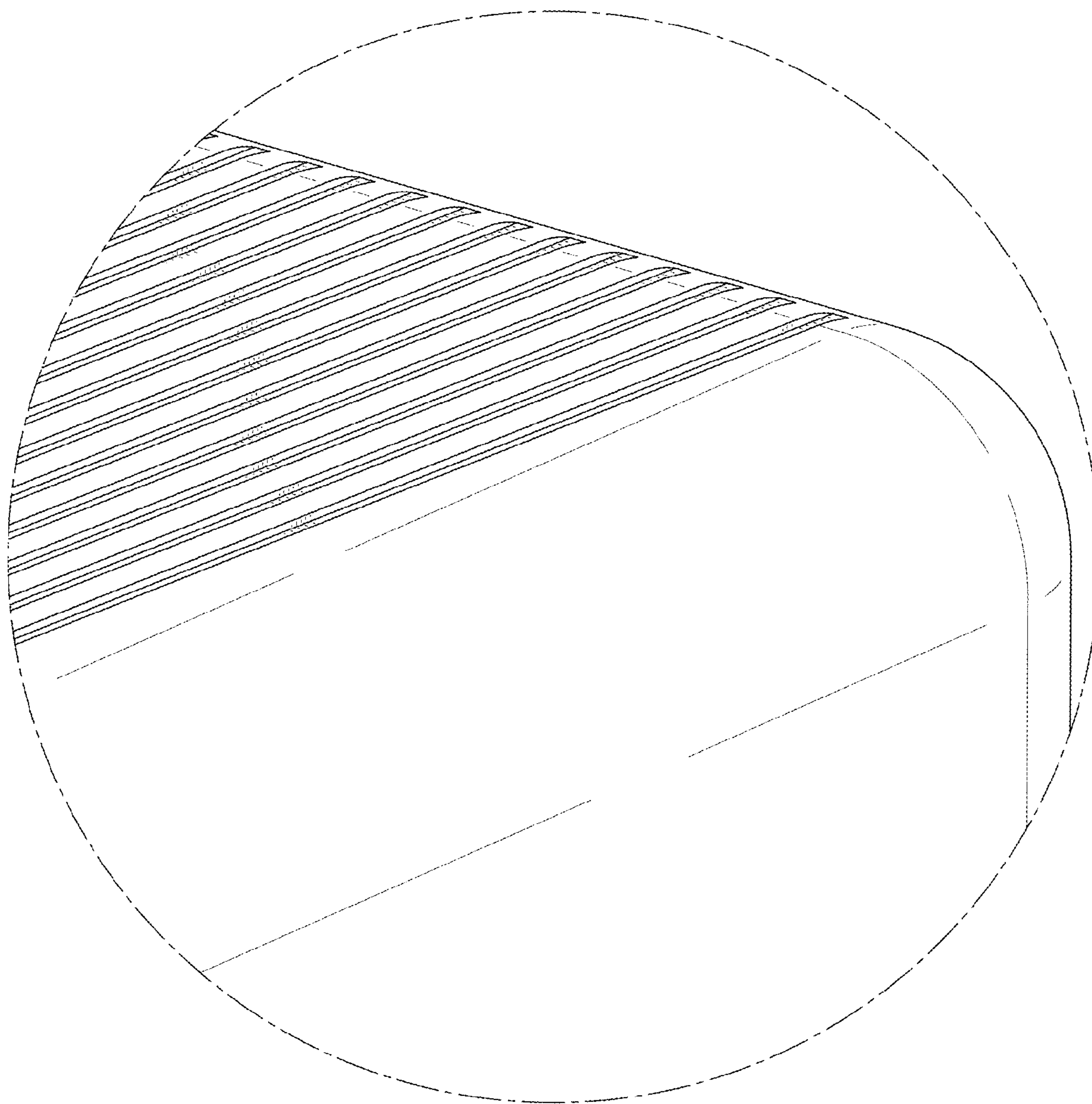


FIG. 9

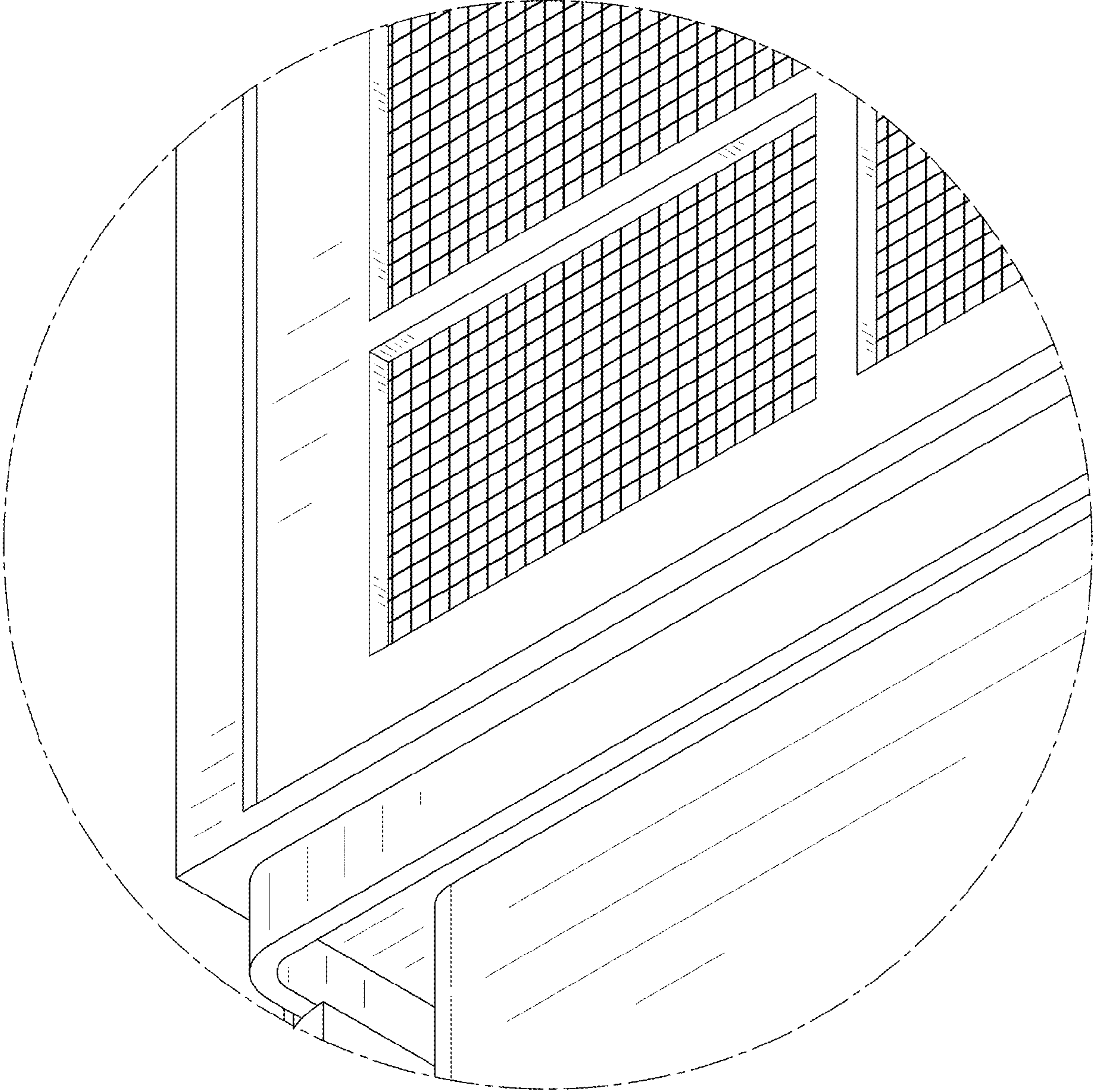


FIG. 10