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

(10) **Patent No.:** **US D698,376 S**
(45) **Date of Patent:** **** Jan. 28, 2014**

- (54) **SLIDING NOZZLE PLATE**
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- (73) Assignee: **Krosakiharima Corporation**, Fukuoka (JP)
- (**) Term: **14 Years**
- (21) Appl. No.: **29/433,320**
- (22) Filed: **Sep. 28, 2012**

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- (30) **Foreign Application Priority Data**
- Mar. 29, 2012 (JP) D2012-7328
- (51) **LOC (10) Cl.** **15-09**
- (52) **U.S. Cl.**
- USPC **D15/138**; D15/144
- (58) **Field of Classification Search**
- USPC D15/135–138, 144, 144.1, 144.2, 199;
222/590, 591, 594, 597, 600; 226/236;
501/97, 105
- See application file for complete search history.

(57) **CLAIM**
The ornamental design for a sliding nozzle plate, as shown and described.

DESCRIPTION

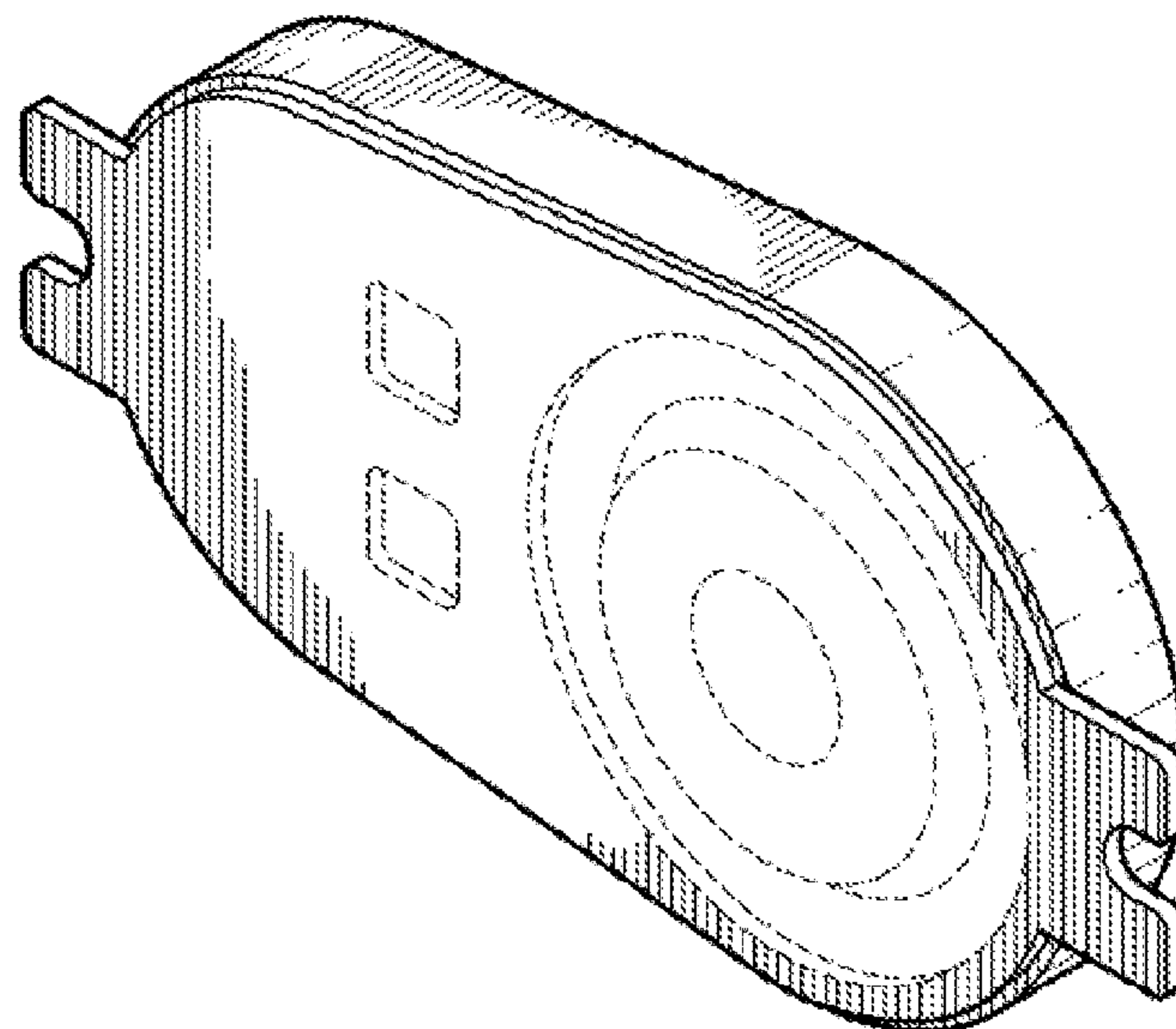
FIG. 1 is a front view of a sliding nozzle plate, showing the new design. A back view appears symmetrically to the front view;
FIG. 2 is a right side view thereof;
FIG. 3 is a left side view thereof;
FIG. 4 is a top view thereof;
FIG. 5 is a bottom view thereof;
FIG. 6 is a perspective view thereof; and,
FIG. 7 is a sectional view thereof, taken along line 7-7 in FIG. 4.

The design relates to a sliding nozzle plate for use in a sliding nozzle apparatus for controlling a flow rate of molten steel in continuous casting of steel, wherein a back surface and a side surface of a refractory plate with a nozzle hole are covered by a metal plate.

The broken lines in the drawings depict unclaimed environmental subject matter.

1 Claim, 2 Drawing Sheets

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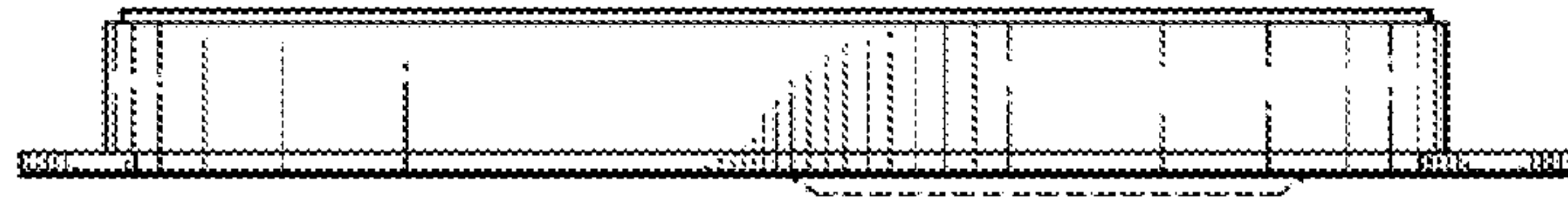


FIG. 1

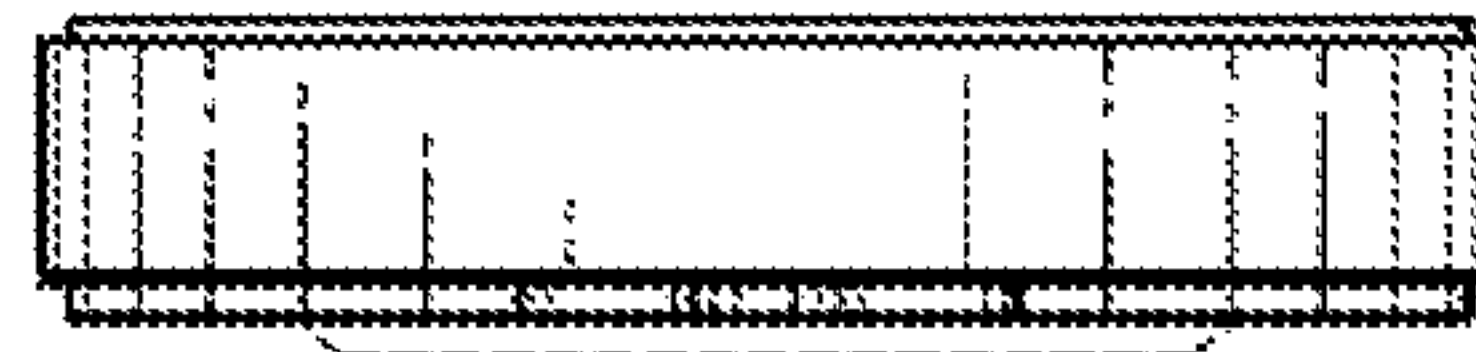


FIG. 2

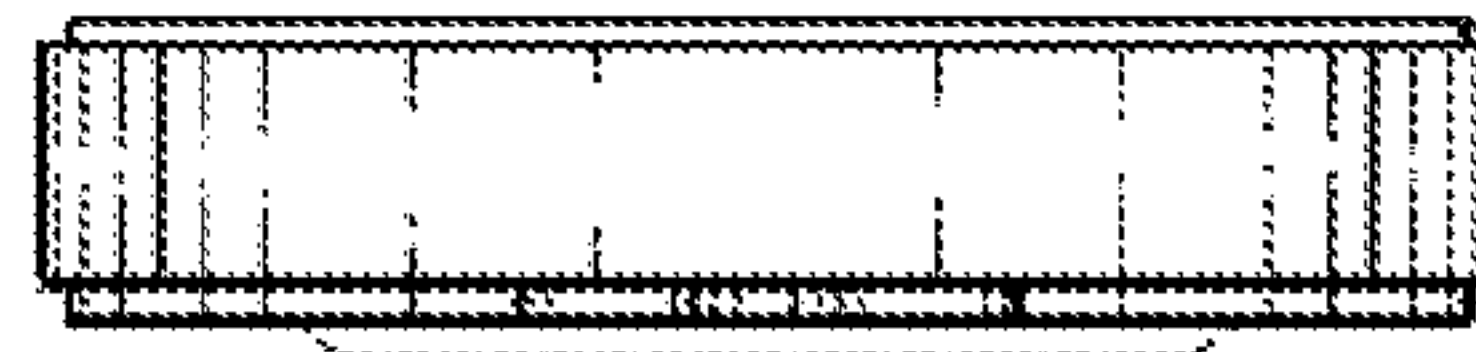


FIG. 3

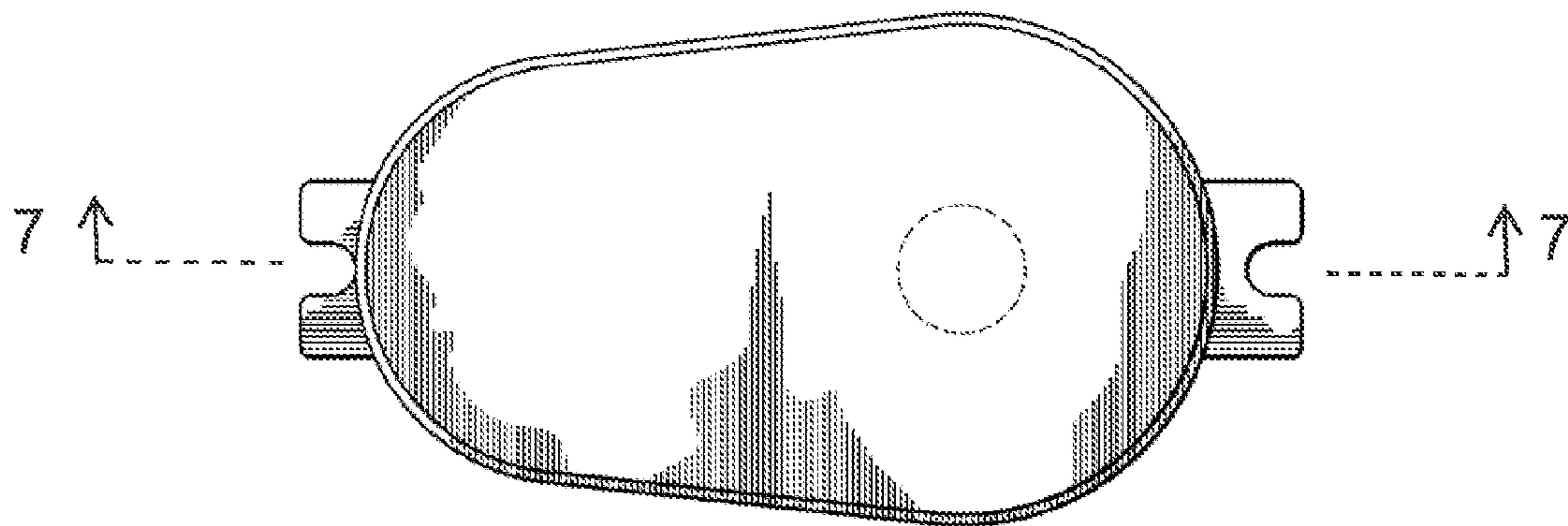


FIG. 4

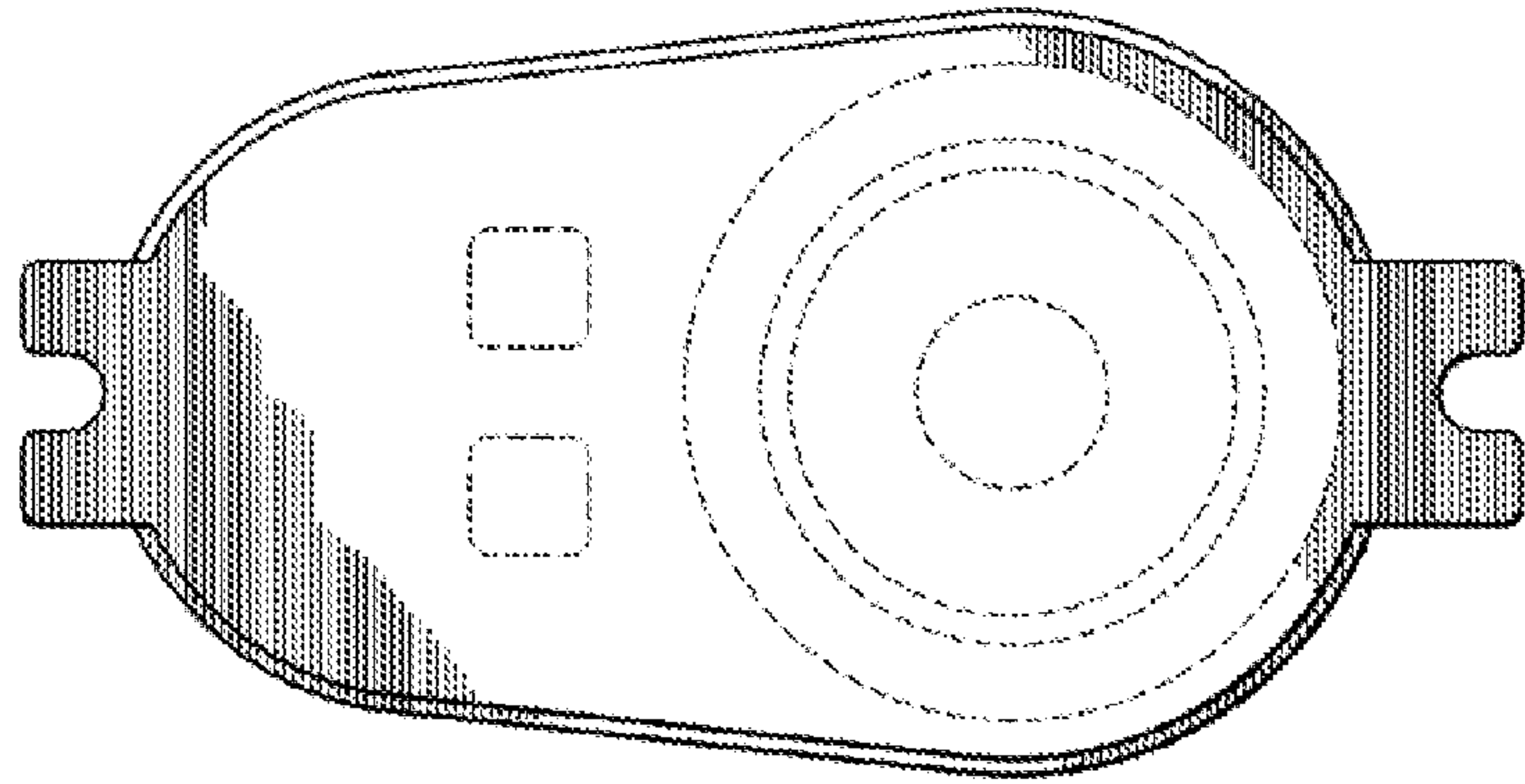


FIG. 5

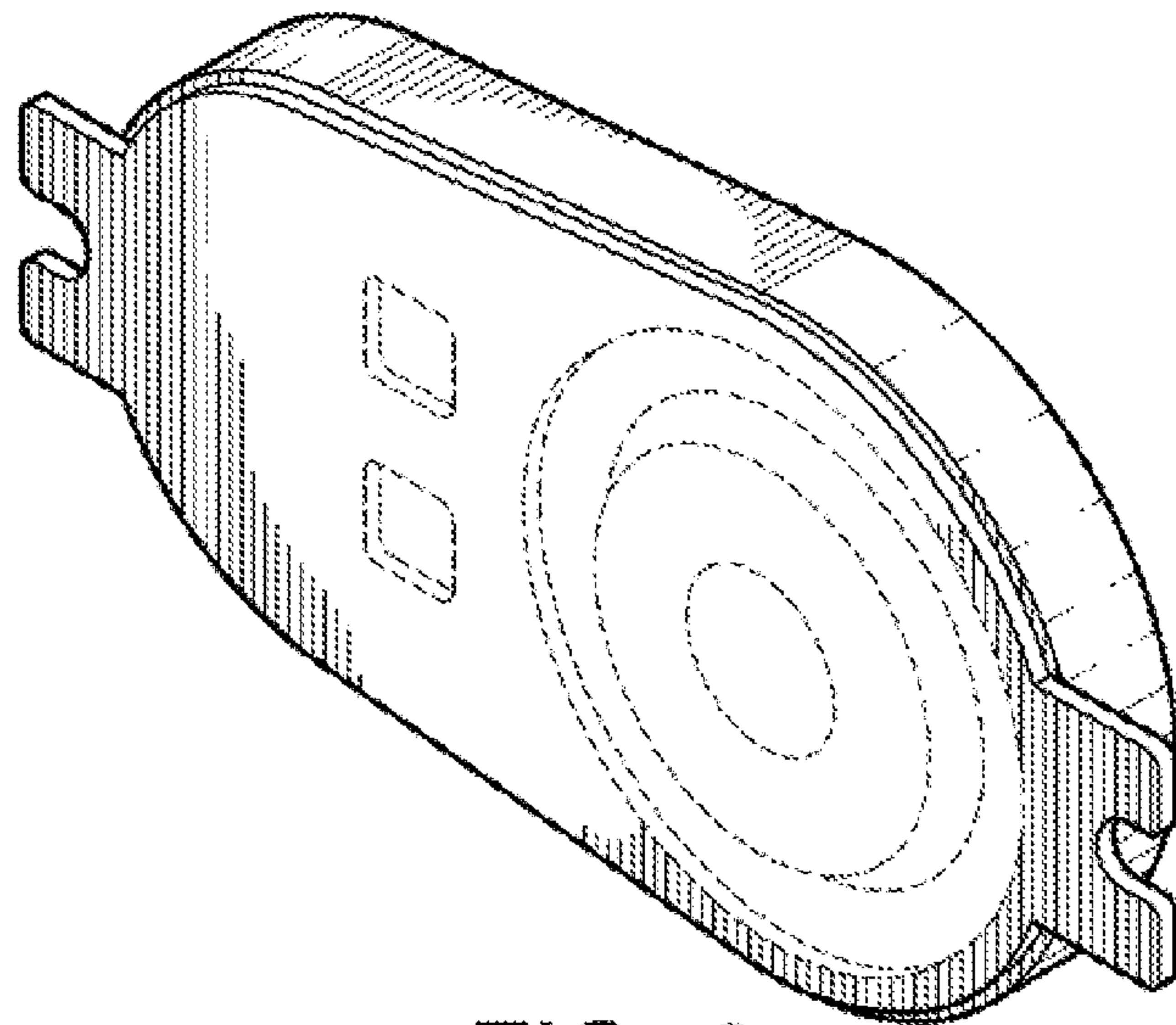


FIG. 6

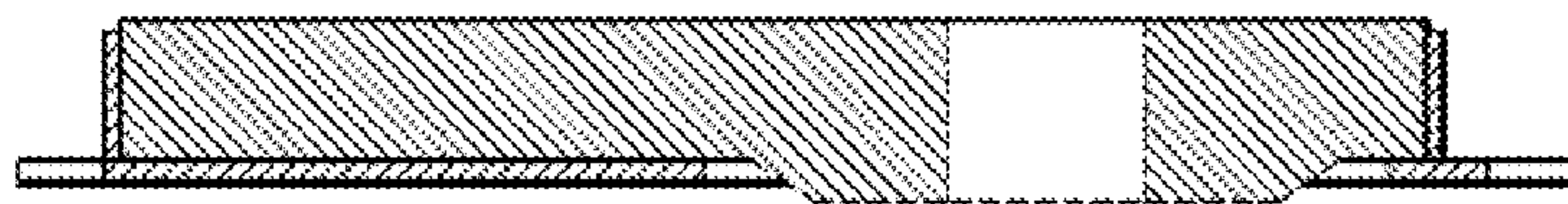


FIG. 7