

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

(10) **Patent No.:** **US D1,040,107 S**

(45) **Date of Patent:** **** Aug. 27, 2024**

(54) **ELECTRICAL CONNECTOR**

(71) Applicant: **SMK Corporation**, Tokyo (JP)

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(73) Assignee: **SMK Corporation**, Tokyo (JP)

(**) Term: **15 Years**

(21) Appl. No.: **29/831,580**

(22) Filed: **Mar. 22, 2022**

(30) **Foreign Application Priority Data**

Sep. 27, 2021 (JP) 2021-020710 D
Sep. 27, 2021 (JP) 2021-020711 D

(51) **LOC (14) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/133**

(58) **Field of Classification Search**
USPC D13/130–139, 146, 147, 149, 158, 159;
D14/430–439

(Continued)

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Notification issued for counterpart Japanese Application No. 2021-020710, issued by the Japan Patent Office on Mar. 14, 2022 (drafted on Mar. 7, 2022).

Primary Examiner — Shawn T Gingrich
Assistant Examiner — Caleb M Baker

(57) **CLAIM**

The ornamental design for an electrical connector, as shown and described.

DESCRIPTION

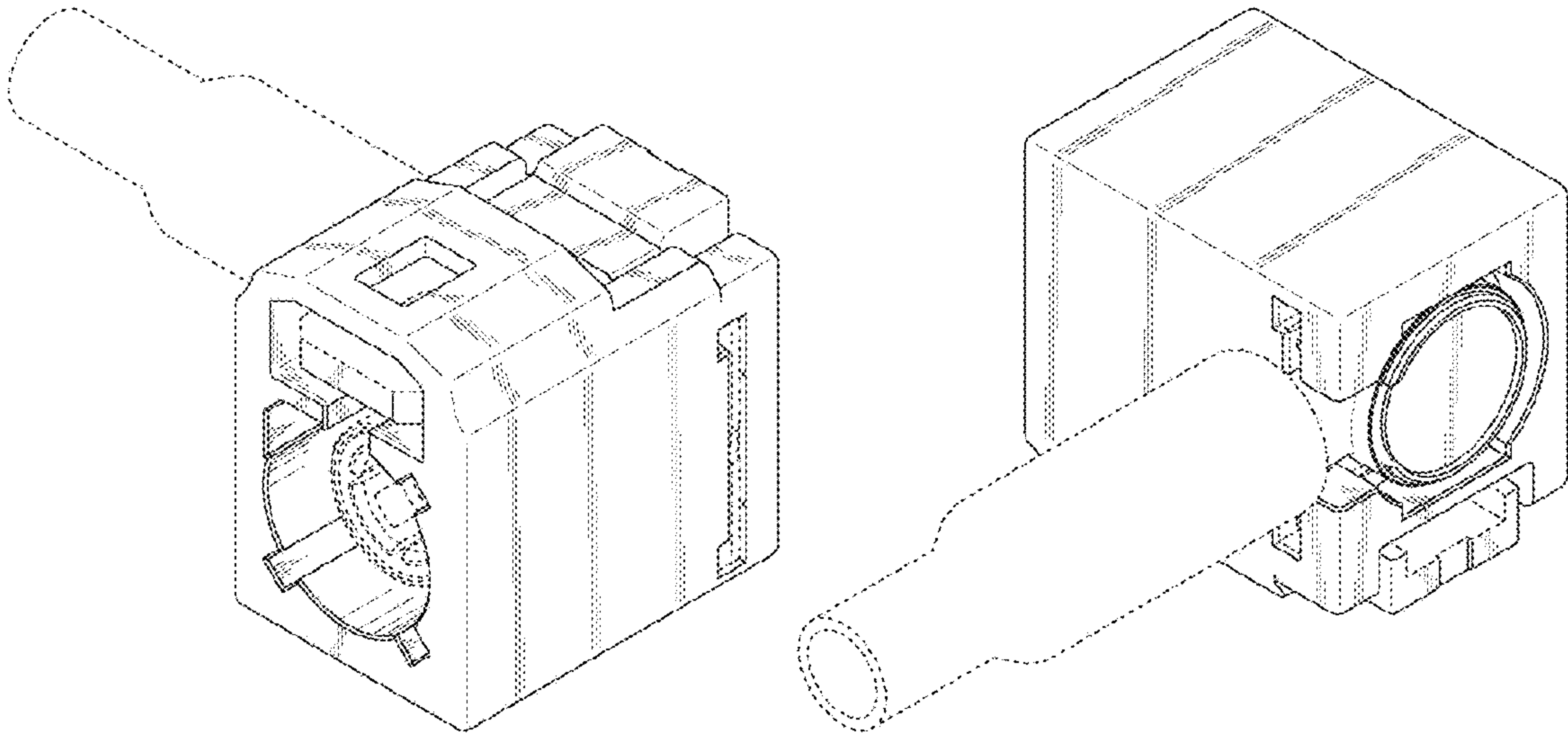
FIG. 1 is a top, right side perspective view of an electrical connector of first embodiment, showing our new design; FIG. 2 is a bottom, left side perspective view thereof; FIG. 3 is a front elevation view thereof; FIG. 4 is a rear elevation view thereof; FIG. 5 is a top plan view thereof; FIG. 6 is a bottom plan view thereof; FIG. 7 is a right side view thereof; and FIG. 8 is a left side view thereof.

FIG. 9 is a top, right side perspective view of an electrical connector of second embodiment, showing our new design; FIG. 10 is a bottom, left side perspective view thereof; FIG. 11 is a front elevation view thereof; FIG. 12 is a rear elevation view thereof; FIG. 13 is a top plan view thereof; FIG. 14 is a bottom plan view thereof; FIG. 15 is a right side view thereof; and, FIG. 16 is a left side view thereof.

The dash-dash broken lines in the drawings illustrate portions of the electrical connector that form no part of the claimed design.

The dot-dash broken lines in the drawings illustrate the bounds of the claim and form no part of the claimed design.

1 Claim, 16 Drawing Sheets



(58) **Field of Classification Search**
CPC G02B 6/36; G02B 6/3817; G02B 6/3821;
G02B 6/3825; G02B 6/387; G02B
6/3893; G02B 6/424; G02B 6/4246;
G02B 6/4292; G02B 6/38; G06F 1/181;
G06F 1/184; G06F 1/185; G06F 1/186;
H05K 5/0282; H05K 5/0221; H05K
5/0026; H05K 5/0206; H05K 5/0013;
H05K 5/0213; H01R 13/11; H01R 13/20;
H01R 13/26; H01R 13/28; H01R
13/2428; H01R 13/33; H01R 13/40;
H01R 13/41; H01R 13/50; H01R 13/506;
H01R 13/512; H01R 13/514; H01R
13/502; H01R 13/627; H01R 13/641;
H01R 13/65; H01R 13/6581; H01R
13/6593; H01R 13/6594; H01R 13/6658;
H01R 13/70; H01R 13/7036; H01R
13/02; H01R 13/06; H01R 13/52; H01R
13/62; H01R 13/73; H01R 13/6582;
H01R 13/6586; H01R 13/6587; H01R
13/88; H01R 31/06; H01R 31/065; H01R
31/085; H01R 24/38; H01R 24/50; H01R
24/54; H01R 24/542; H01R 24/564;
H01R 13/7032; H01R 13/639; H01R
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See application file for complete search history.

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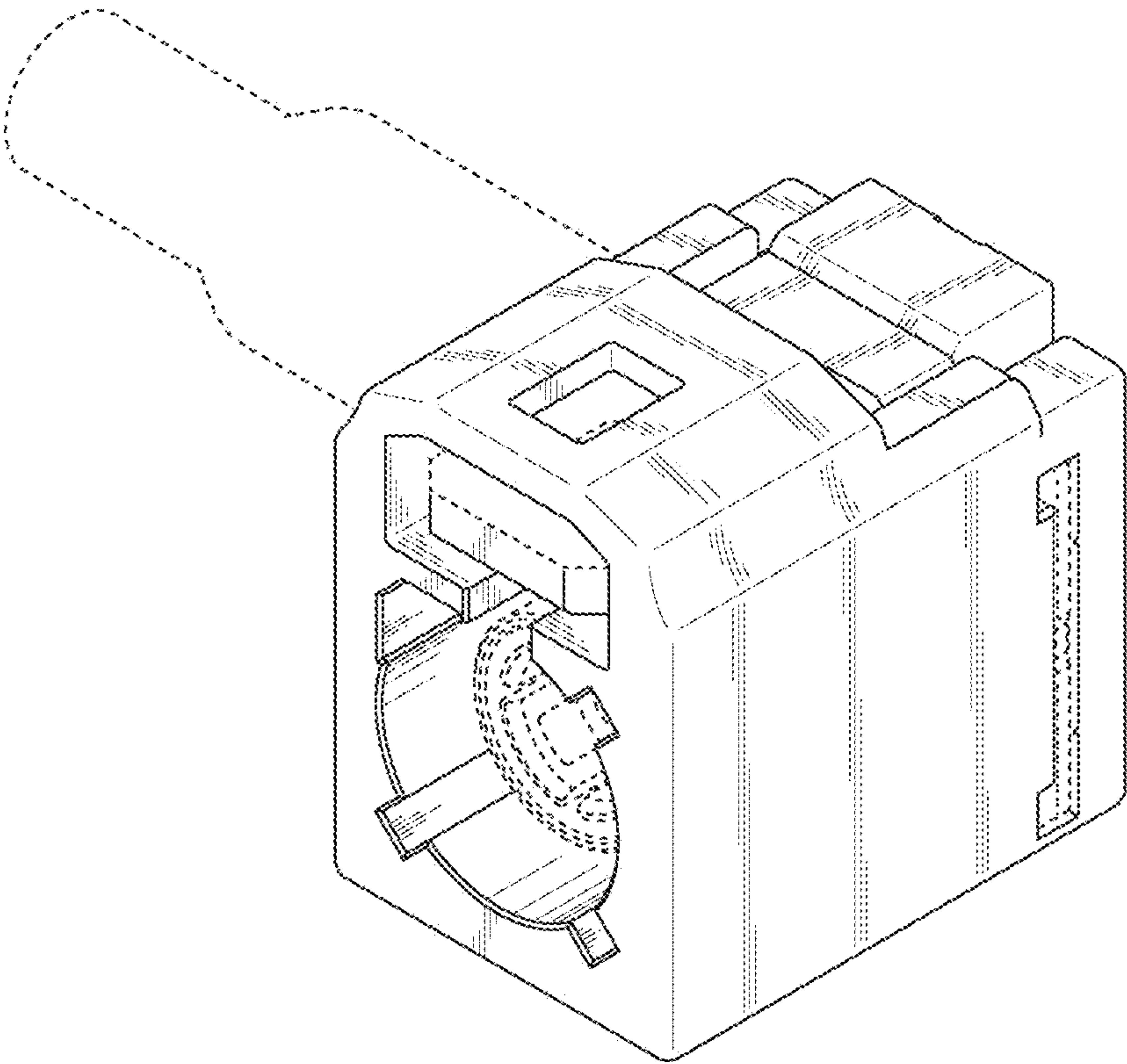


FIG. 1

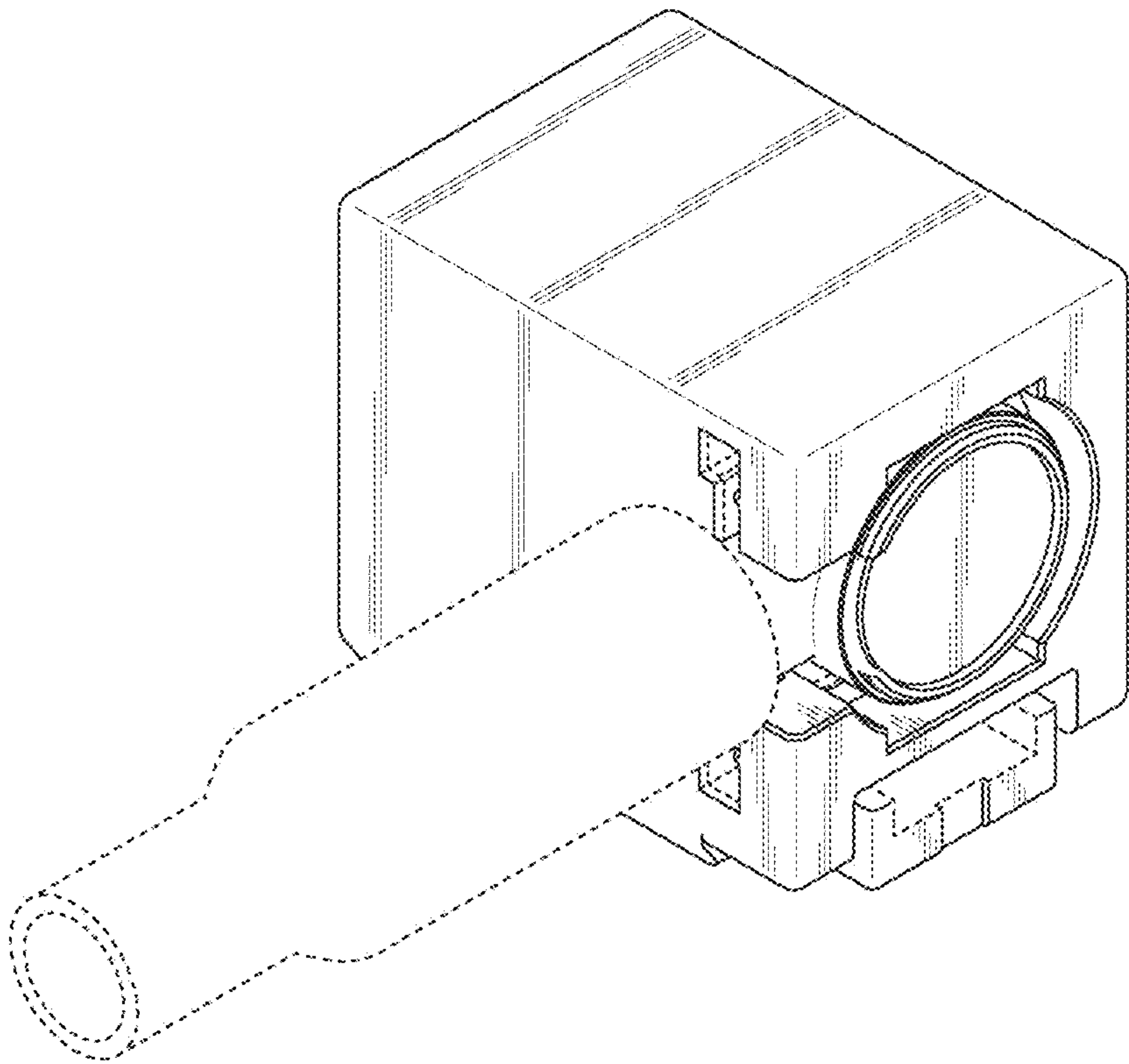


FIG.2

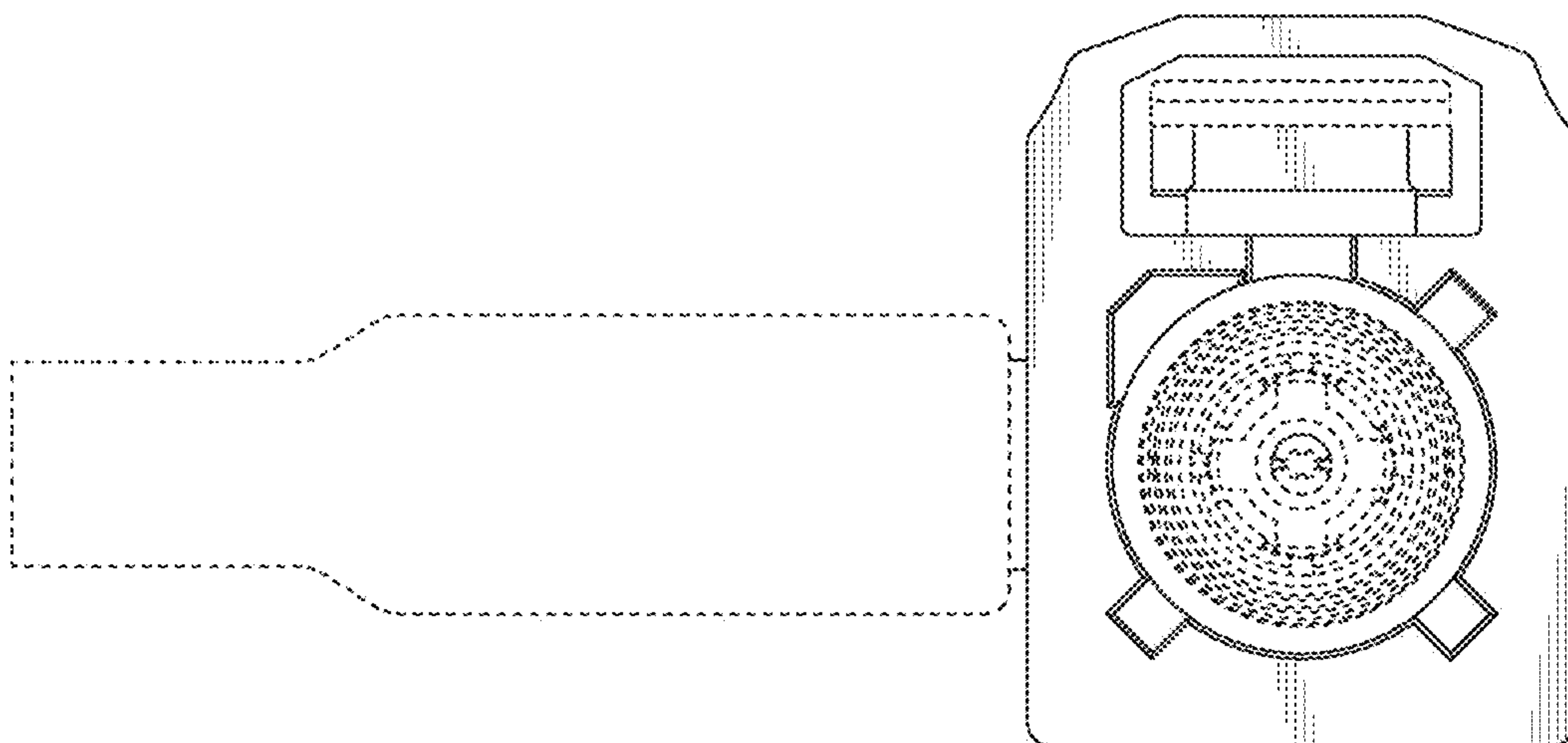


FIG. 3

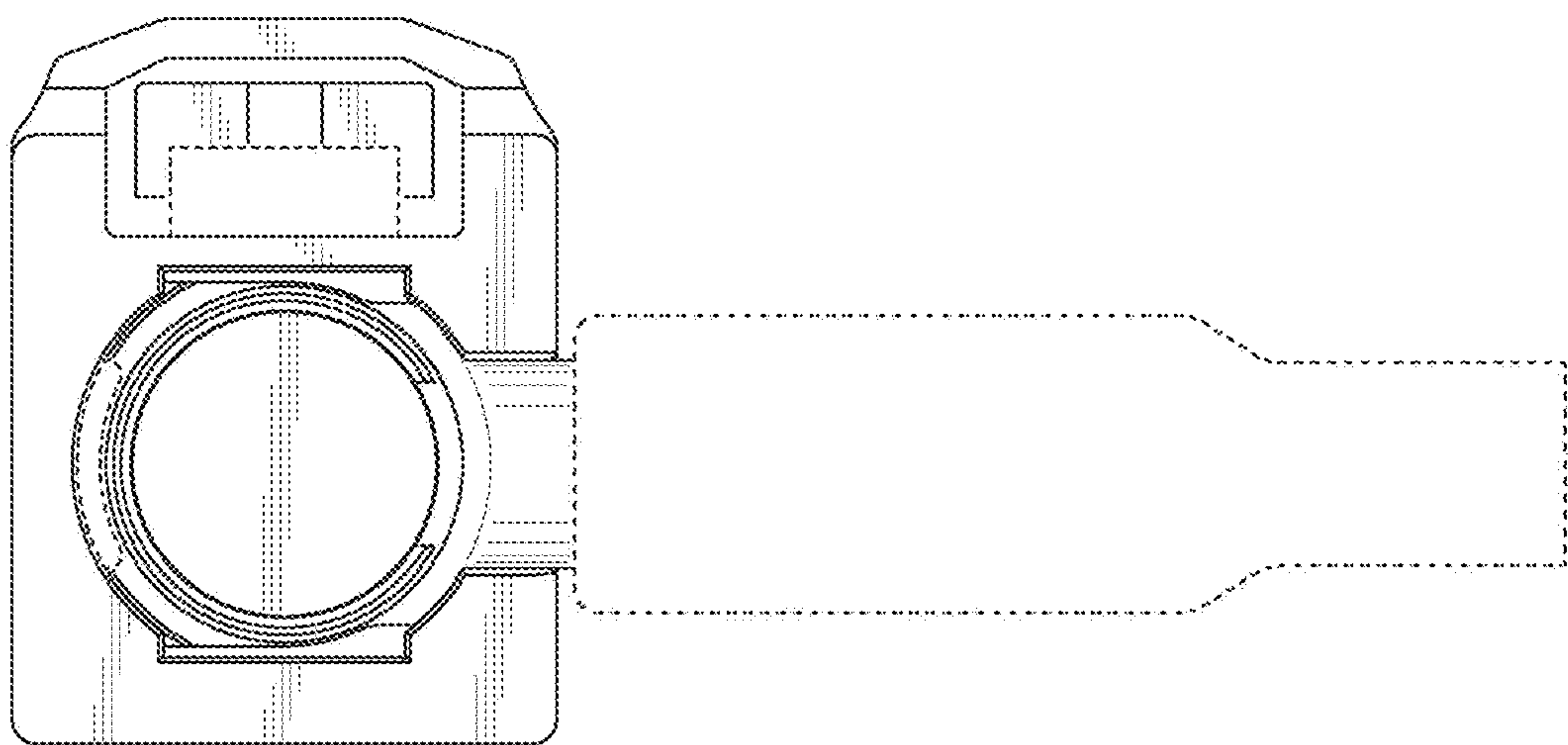


FIG.4

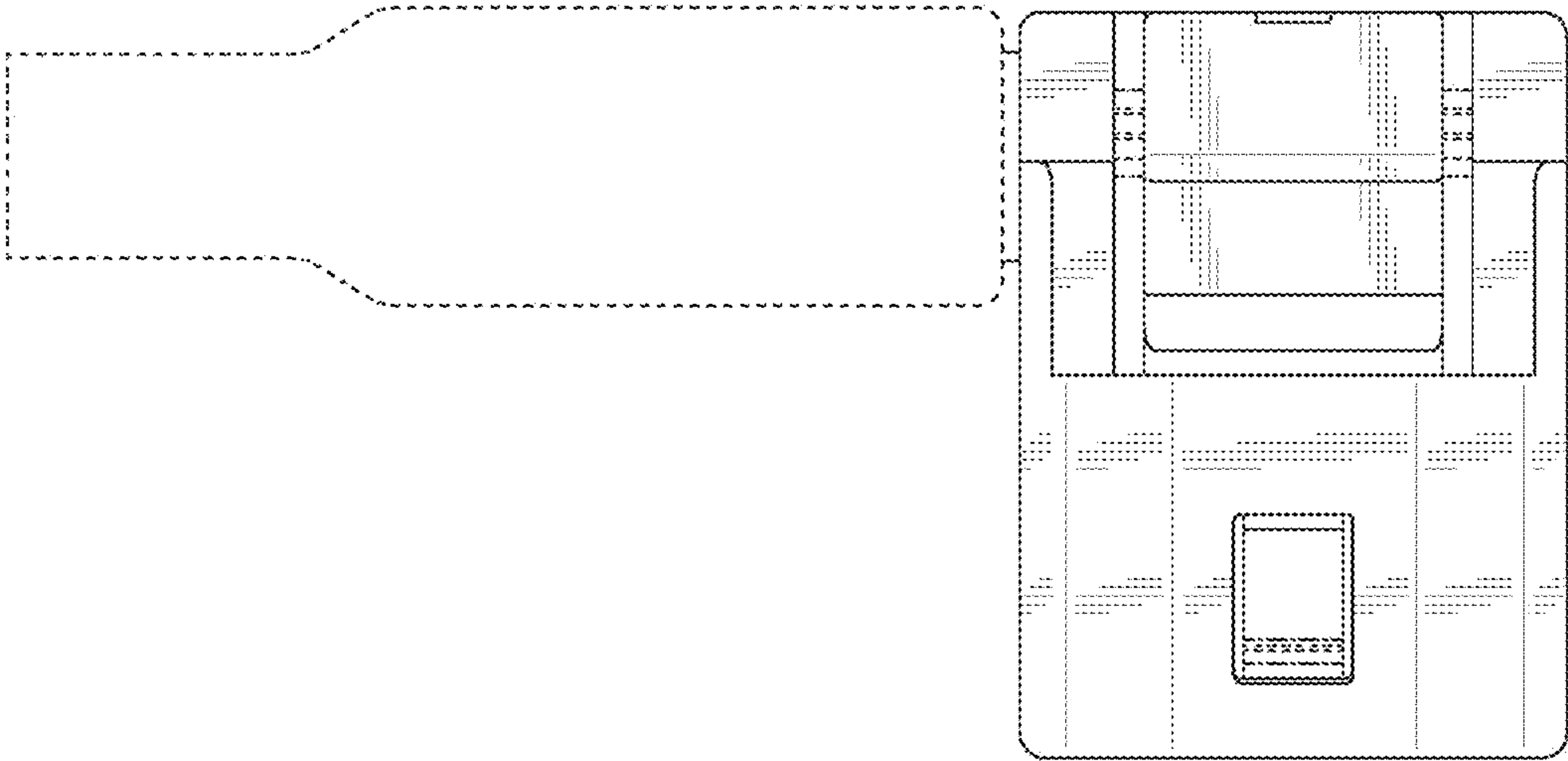


FIG. 5

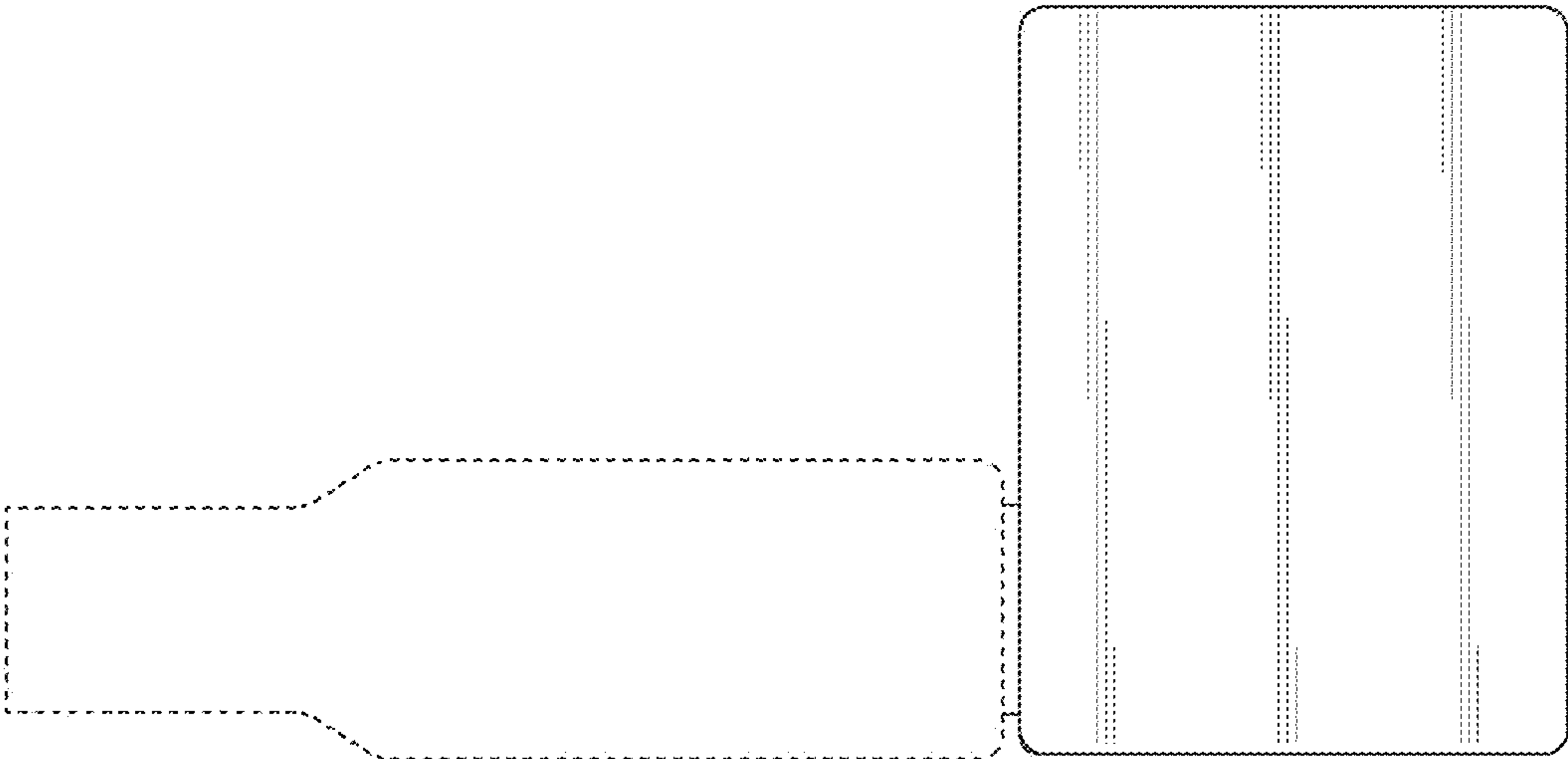


FIG.6

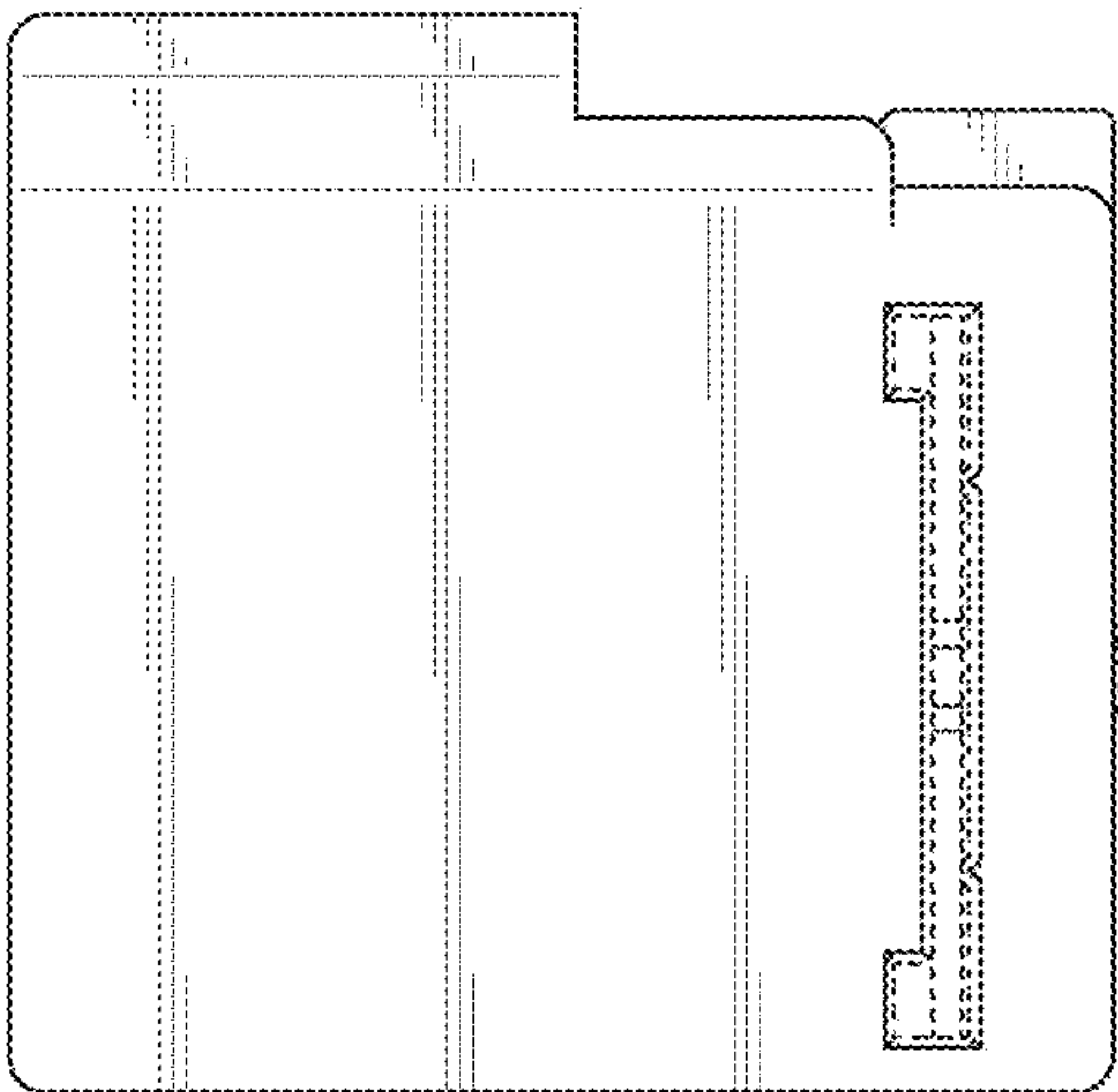


FIG. 7

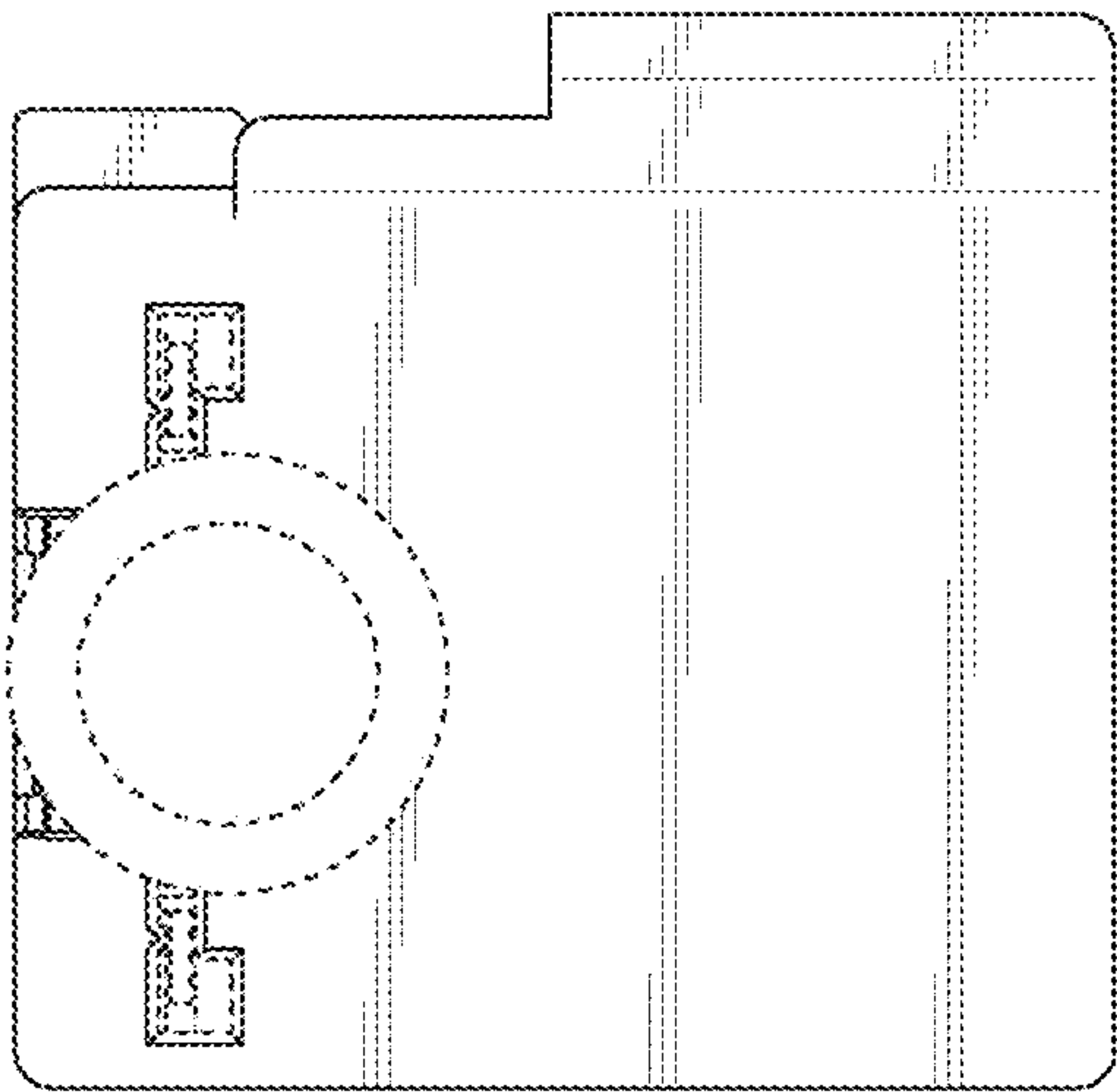


FIG. 8

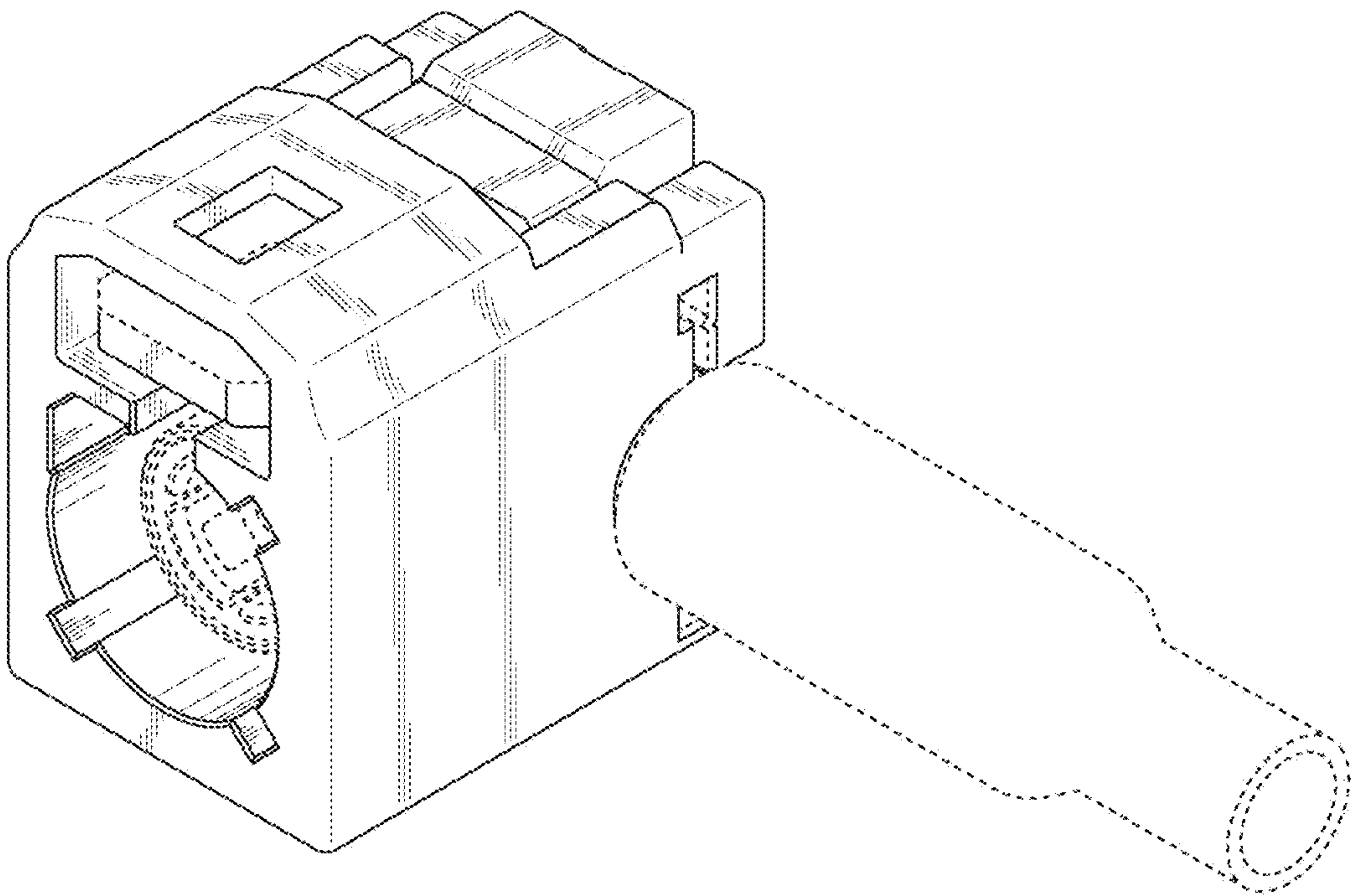


FIG.9

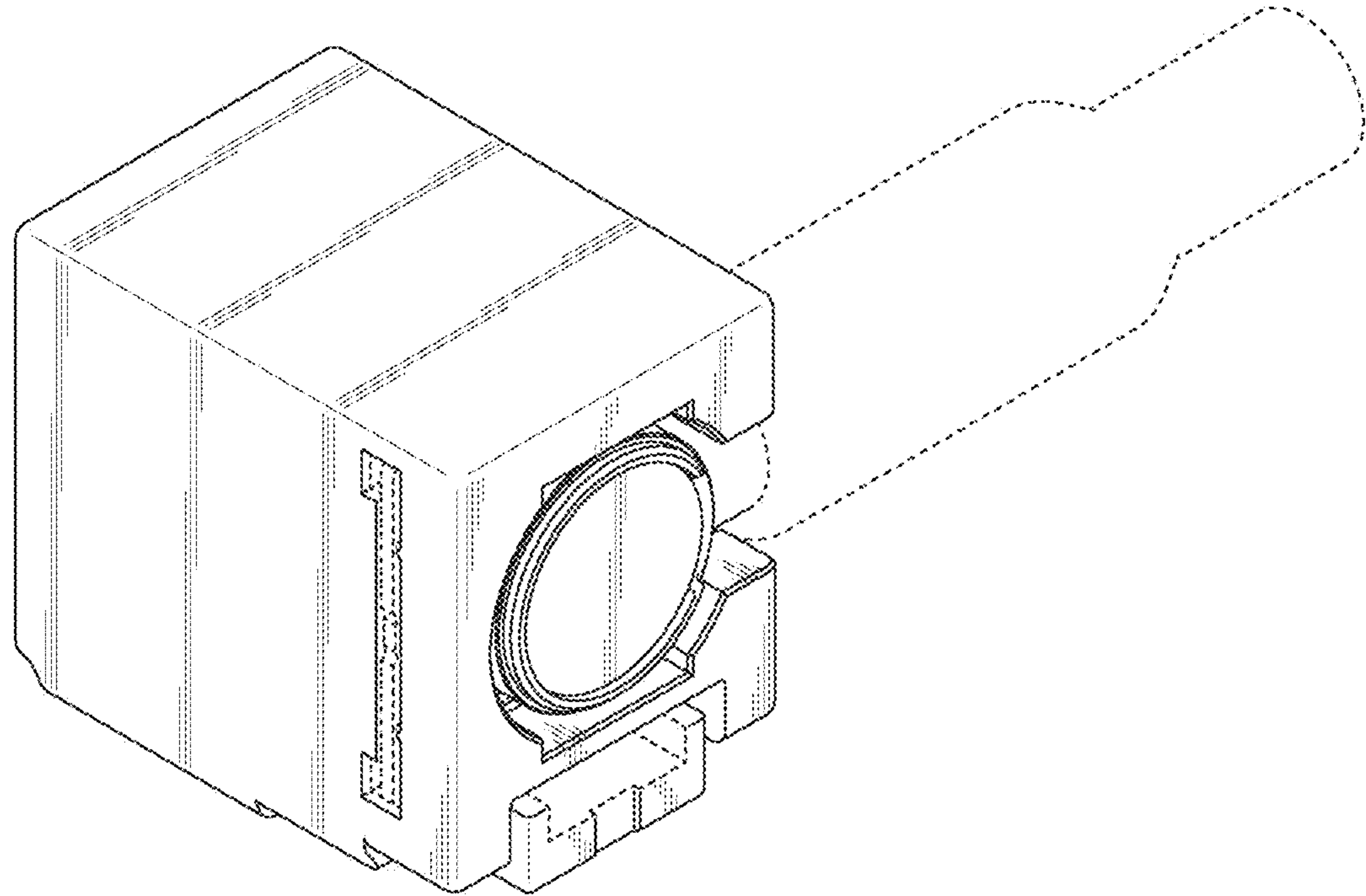


FIG.10

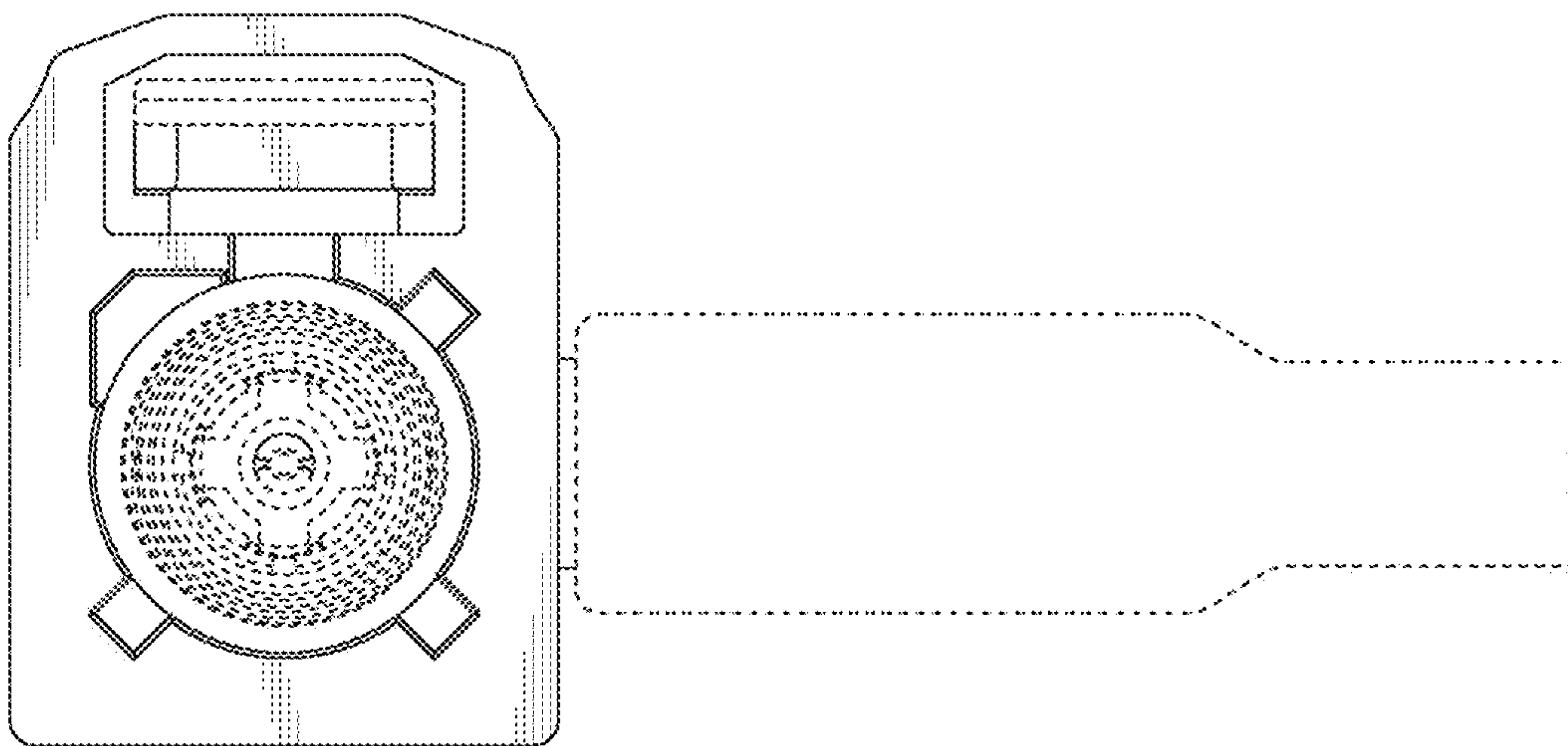


FIG. 11

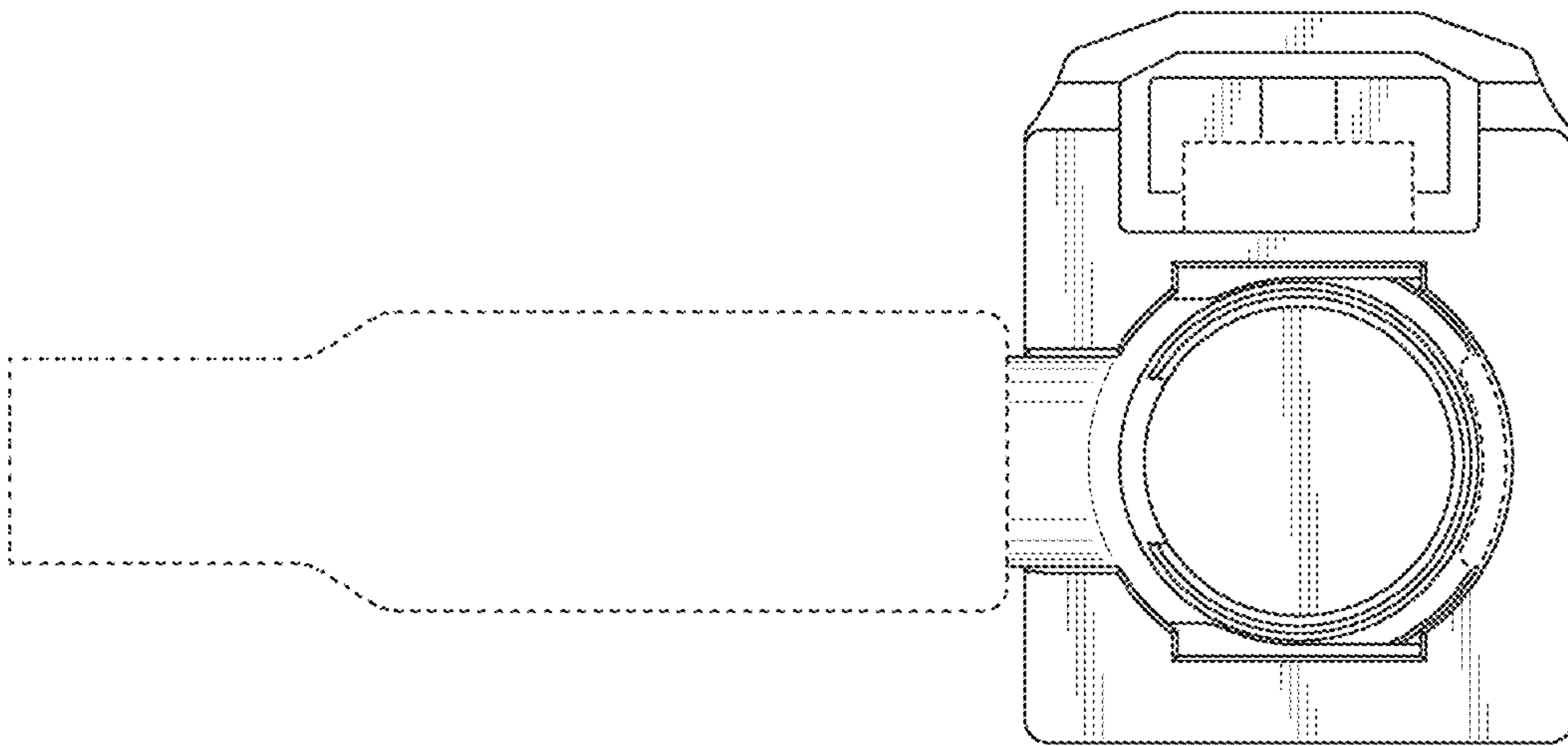


FIG. 12

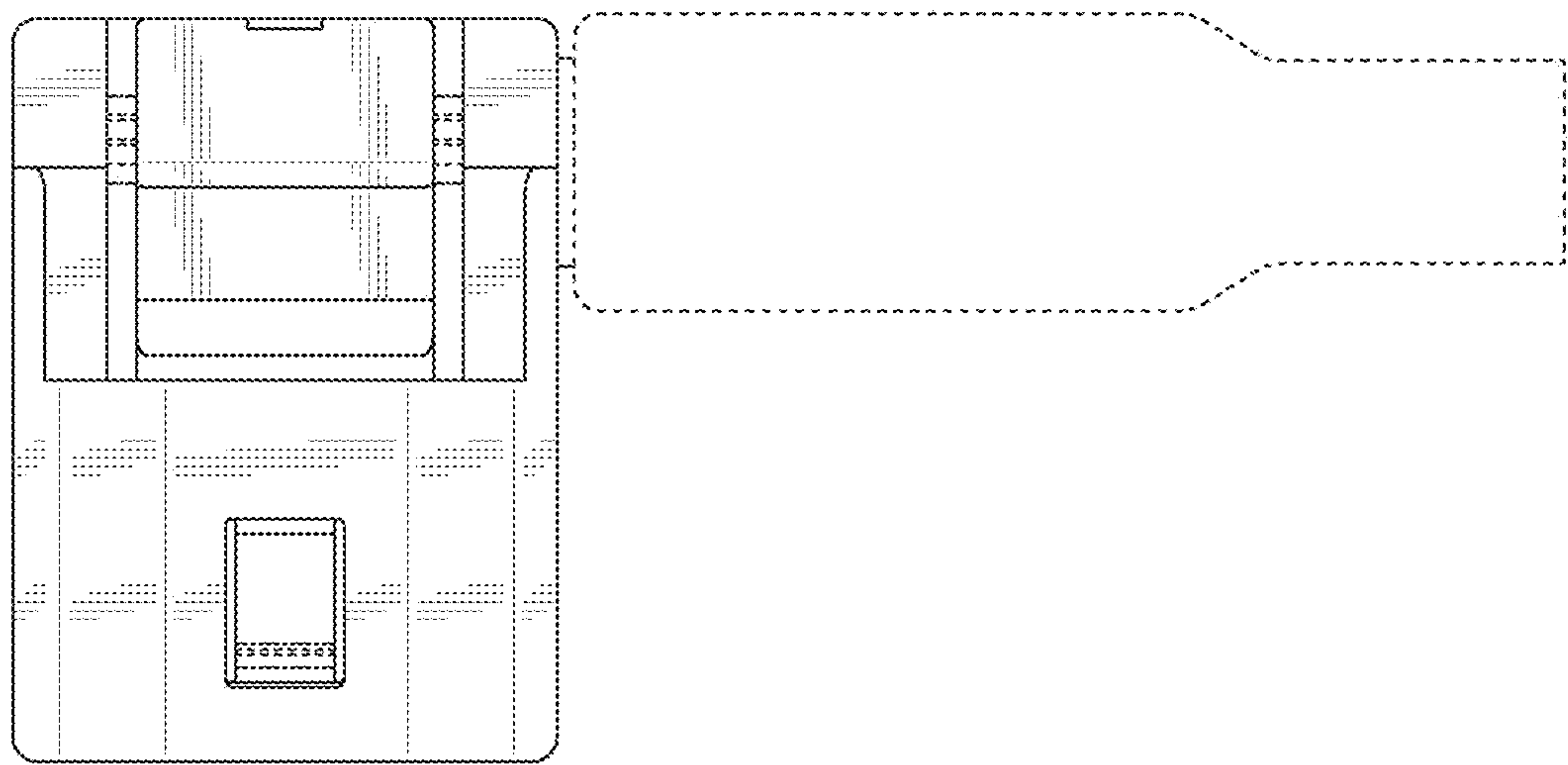


FIG.13

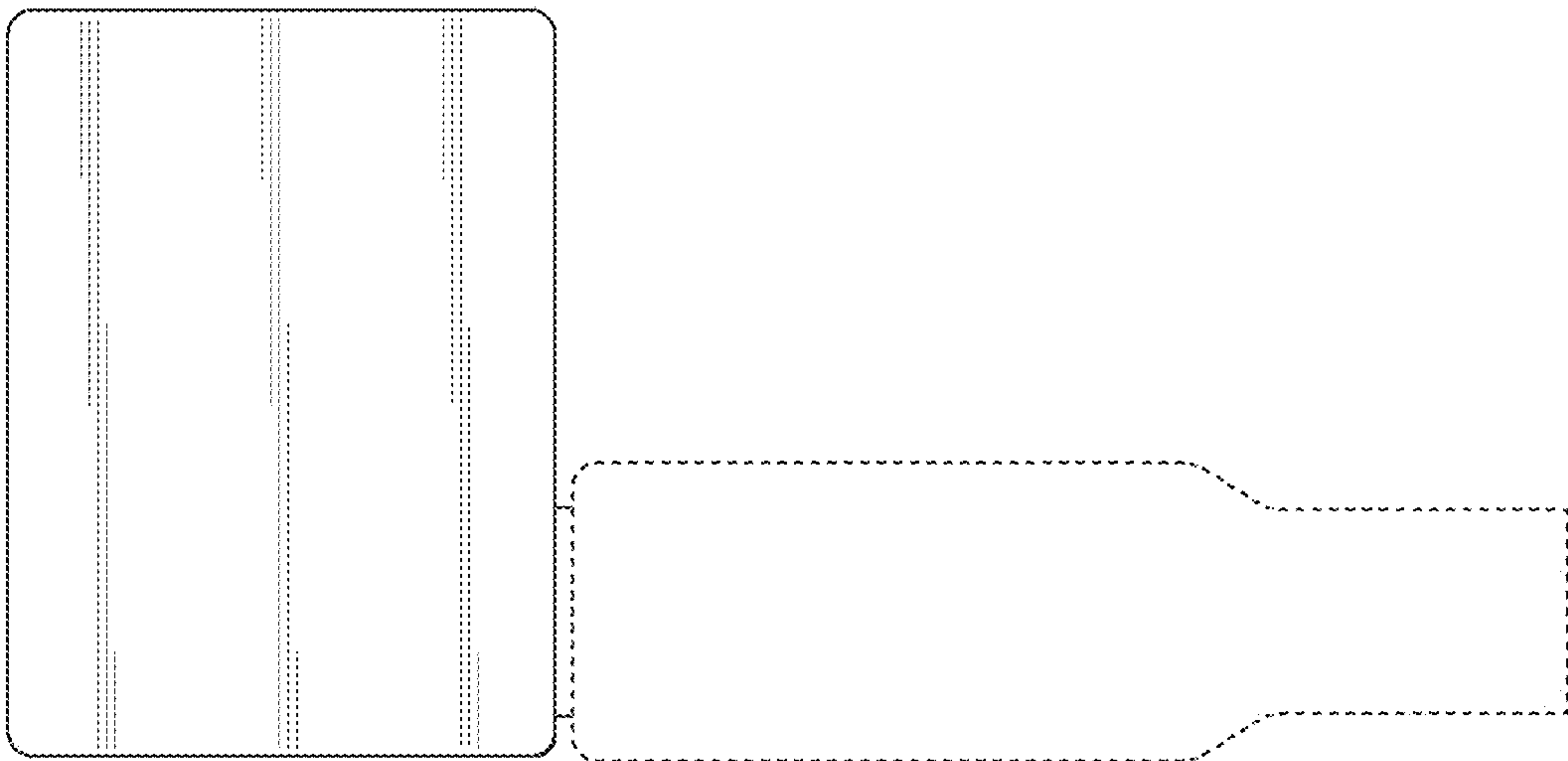


FIG. 14

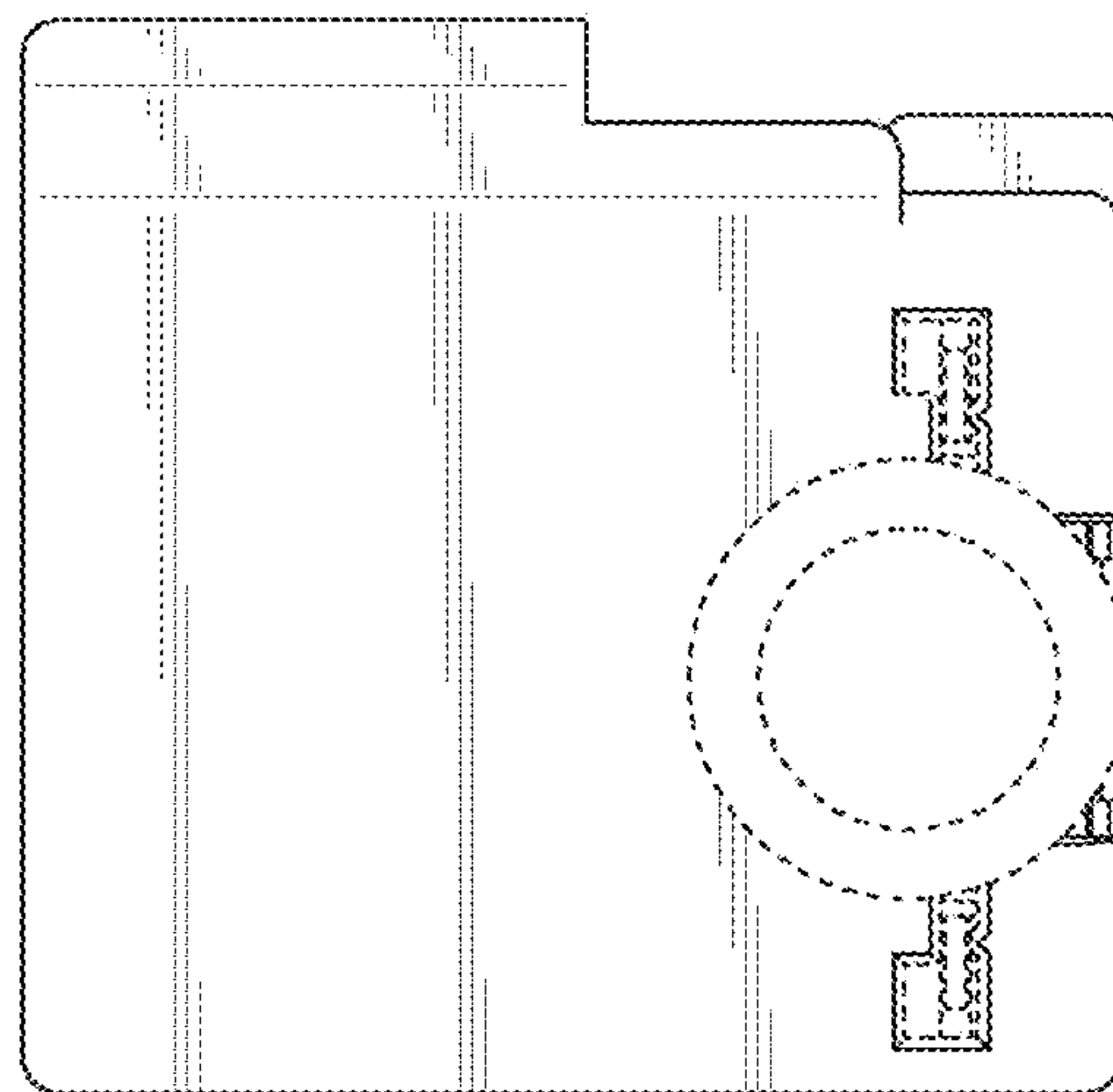


FIG. 15

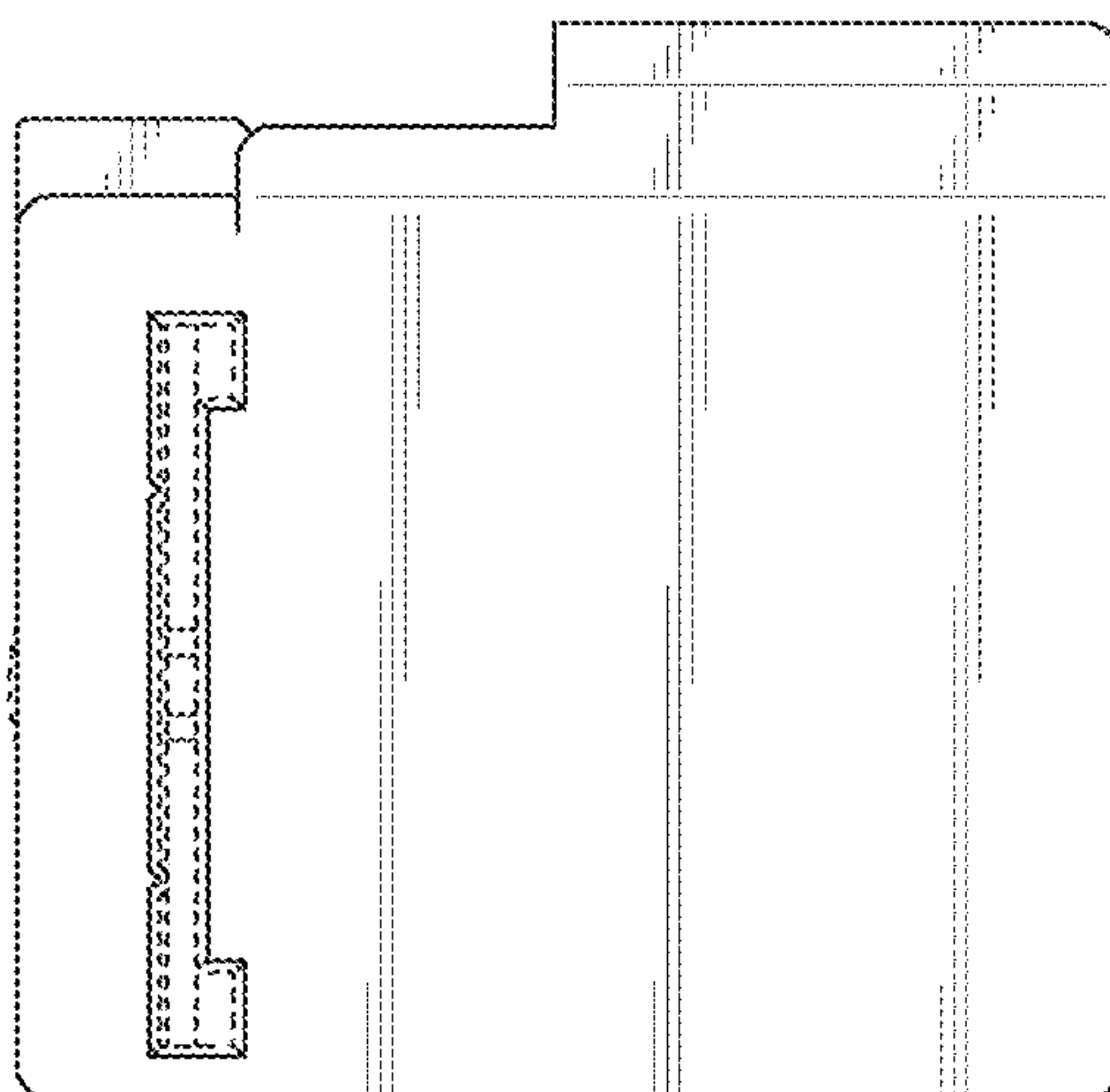


FIG. 16