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(12) **United States Design Patent** (10) **Patent No.:** **US D892,880 S**
Okamoto (45) **Date of Patent:** **** Aug. 11, 2020**

(54) **POWER TRANSMISSION UNIT AND POWER RECEIVING UNIT OF AN INDUSTRIAL ROBOT ARM**

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(71) Applicant: **Daihen Corporation**, Osaka-shi (JP)

(57) **CLAIM**

(72) Inventor: **Kentaro Okamoto**, Osaka (JP)

The ornamental design for power transmission unit and power receiving unit of an industrial robot arm, as shown and described.

(73) Assignee: **Daihen Corporation**, Osaka-shi (JP)

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

DESCRIPTION

(21) Appl. No.: **29/664,616**

FIG. 1 is a front, top and right side perspective view of power transmission unit and power receiving unit of an industrial robot arm showing my new design;

(22) Filed: **Sep. 26, 2018**

FIG. 2 is a rear, bottom and left side perspective view thereof;

(30) **Foreign Application Priority Data**

Mar. 29, 2018 (JP) 2018006761

FIG. 3 is a front view thereof;

(51) **LOC (12) Cl.** **15-99**

FIG. 4 is a rear view thereof;

(52) **U.S. Cl.**

FIG. 5 is a top plan view thereof;

USPC **D15/199**

FIG. 6 is a bottom plan view thereof;

(58) **Field of Classification Search**

USPC D13/182; D15/138, 199

FIG. 7 is a right side view thereof;

CPC . B25J 9/046; B25J 9/126; B25J 9/1615; B25J

FIG. 8 is a left side view thereof;

11/0095; B25J 15/0014; G05B

FIG. 9 is a cross-sectional view taken along line 9-9 in FIG. 3;

2219/39236; G05B 2219/39251; G05B

FIG. 10 is a cross-sectional view taken along line 10-10 in FIG. 3;

2219/40234; H01L 21/67766

FIG. 11 is an enlarged cross-sectional view taken along line 11-11 at the part 11-11 in FIG. 10 with the internal structure omitted;

See application file for complete search history.

FIG. 12 is an enlarged referential front, top and right side perspective view of the power transmission and receiving units; and,

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FIG. 13 is an enlarged referential rear, bottom and left side perspective view of the power transmission and receiving units.

(Continued)

The broken lines illustrate portions of the power transmission unit and power receiving unit of an industrial robot arm and form no part of the claimed design. The dash-dotted lines denote the boundary of the claim and form no part of the claimed design.

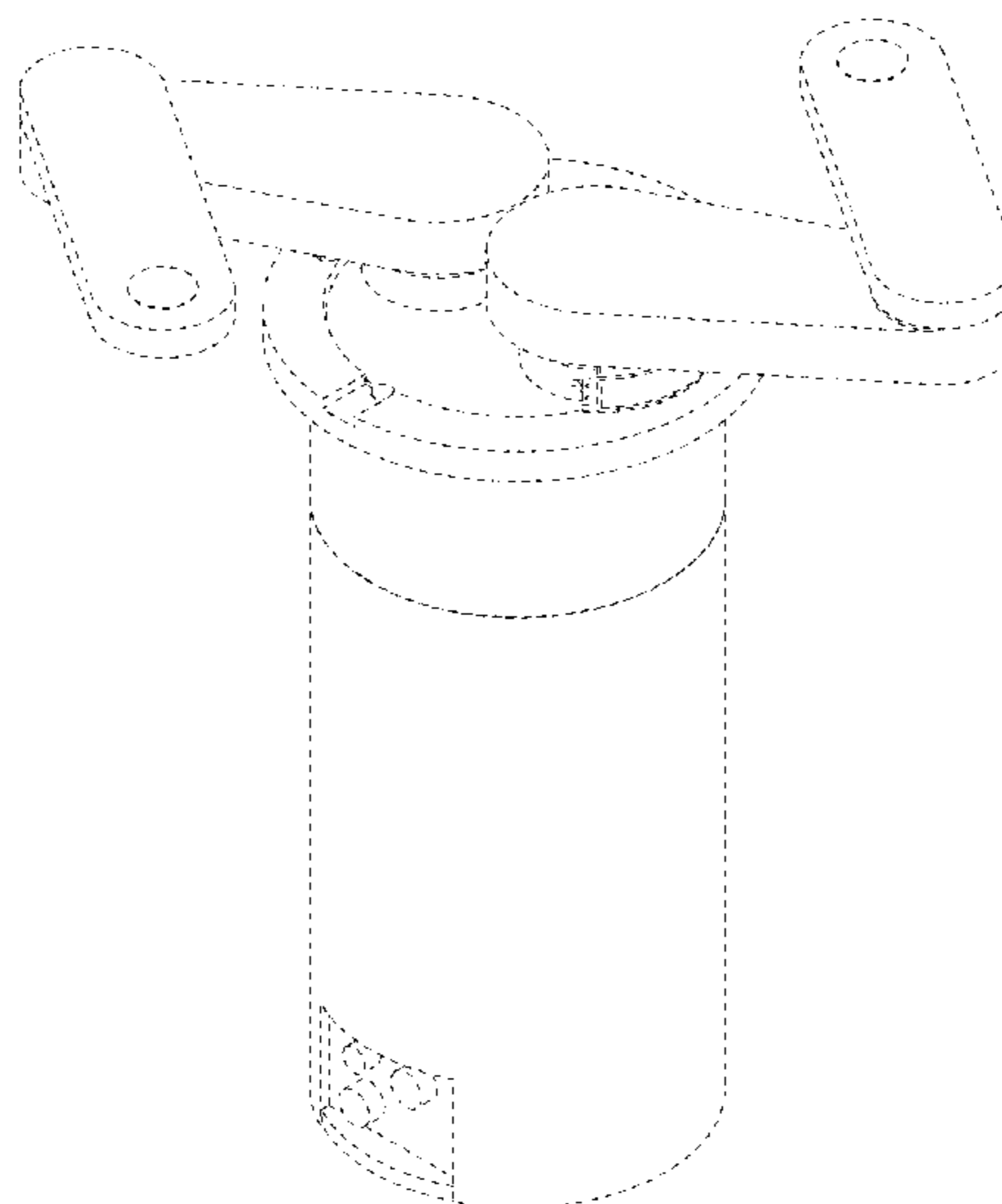
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1 Claim, 13 Drawing Sheets



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FIG. 1

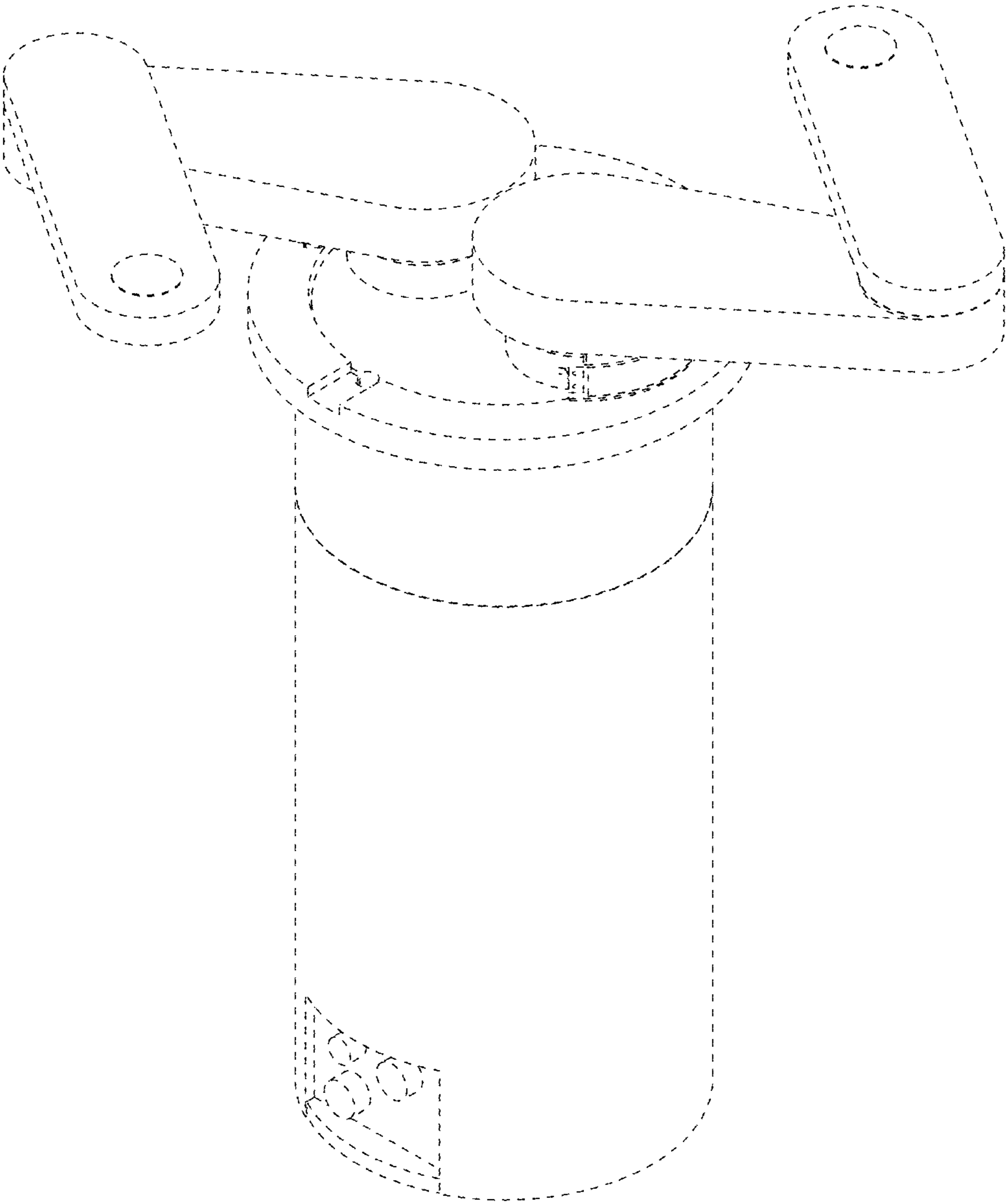


FIG. 2

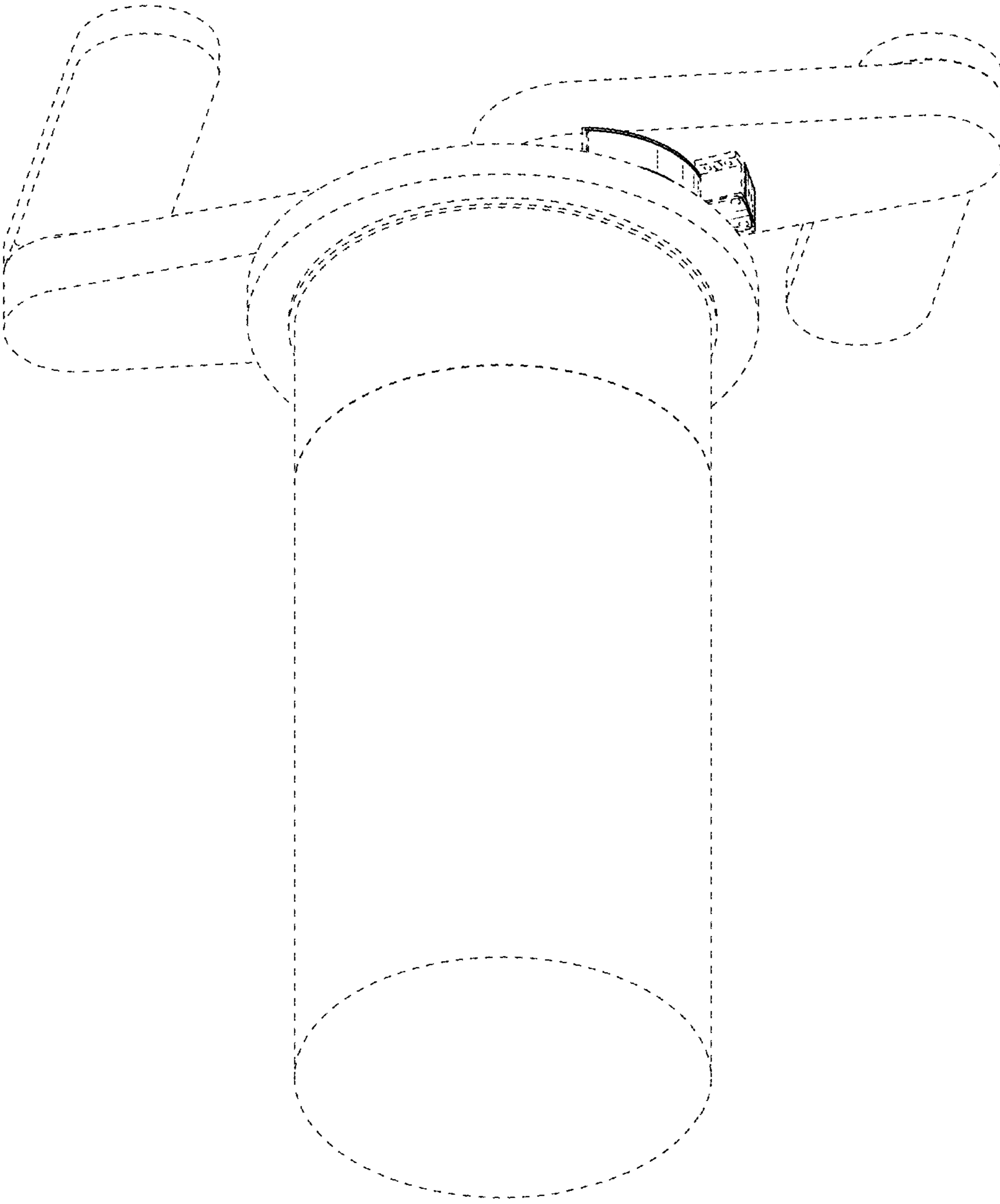


FIG. 3

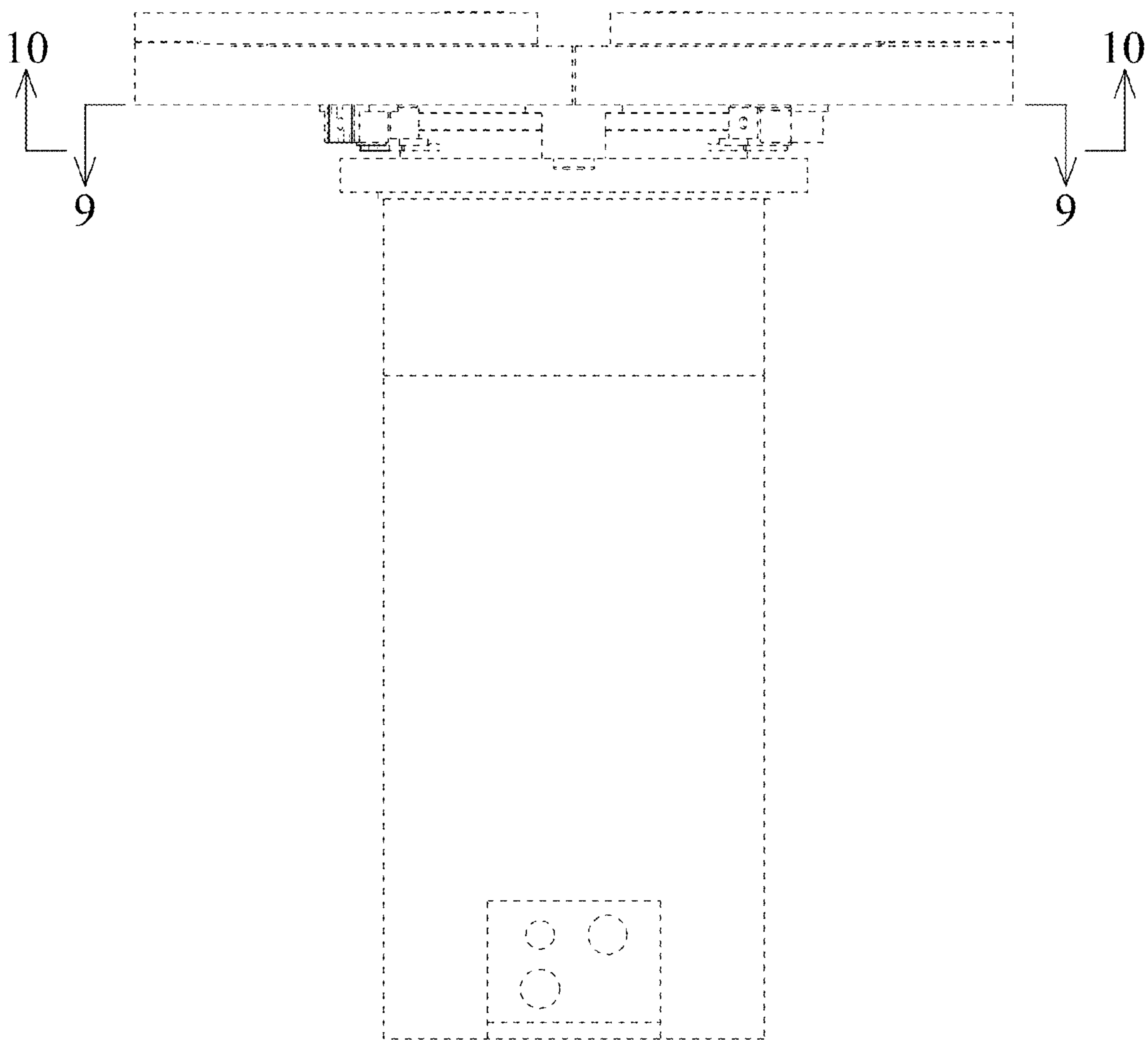


FIG. 4

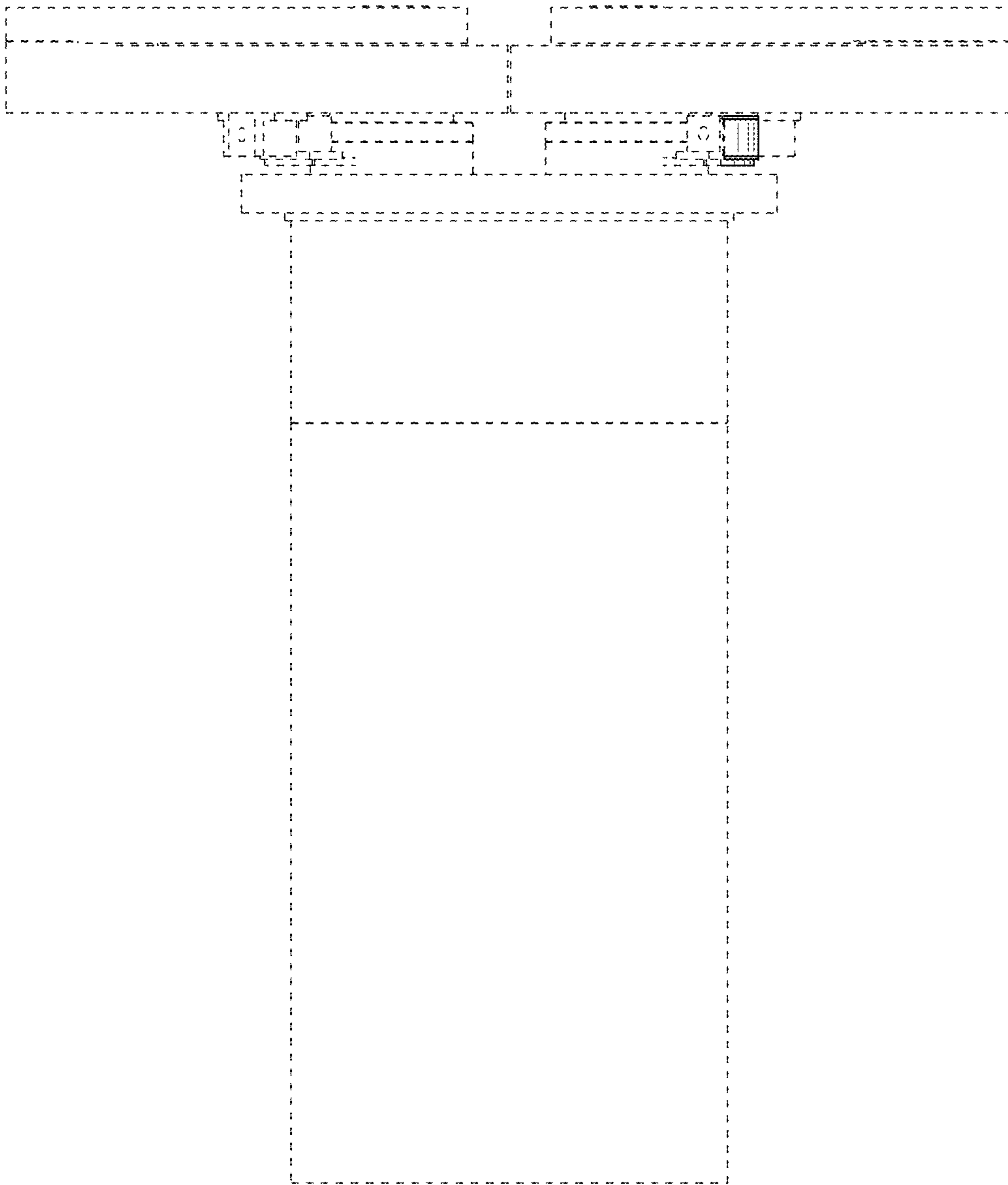


FIG. 5

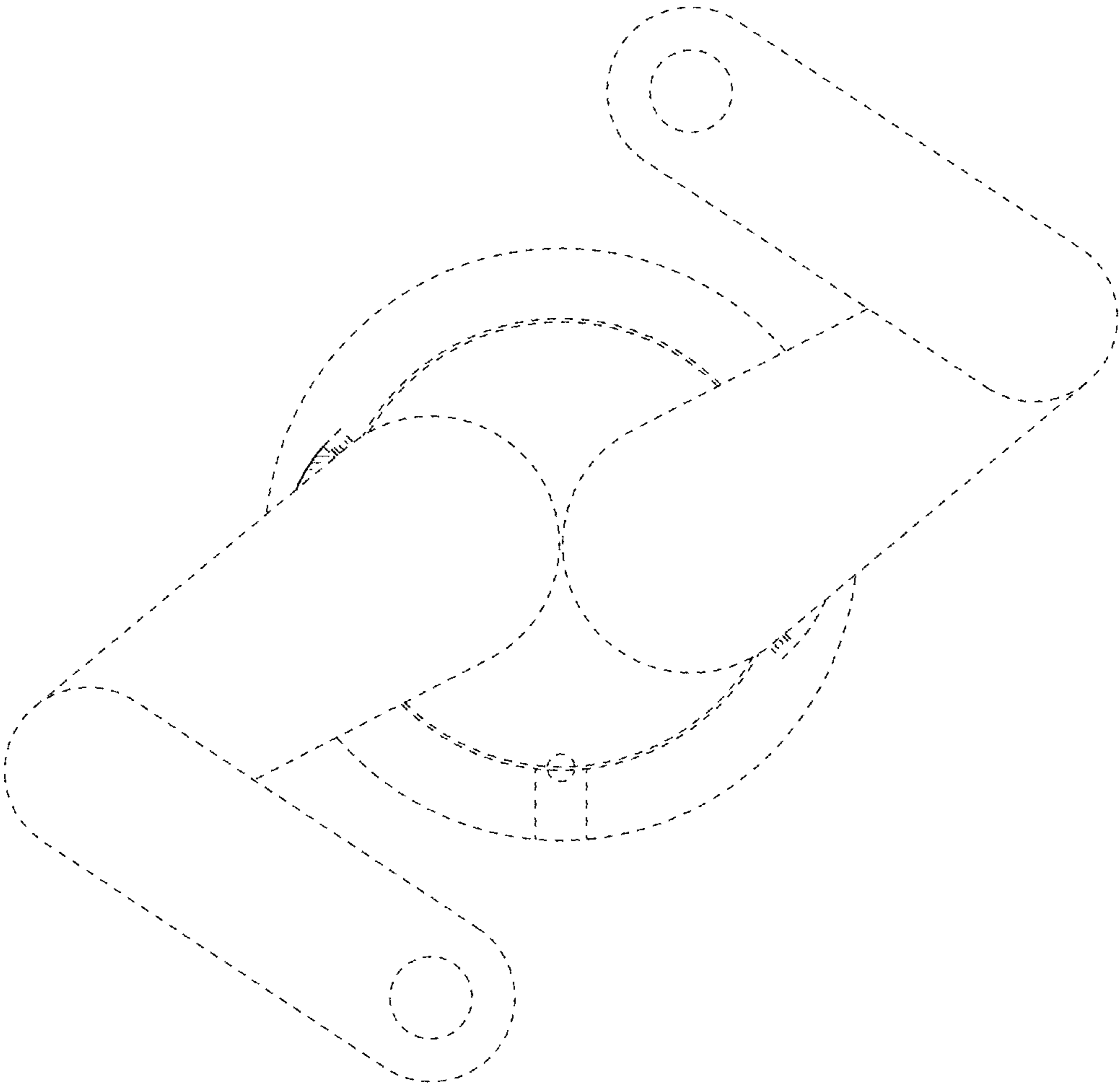


FIG. 6

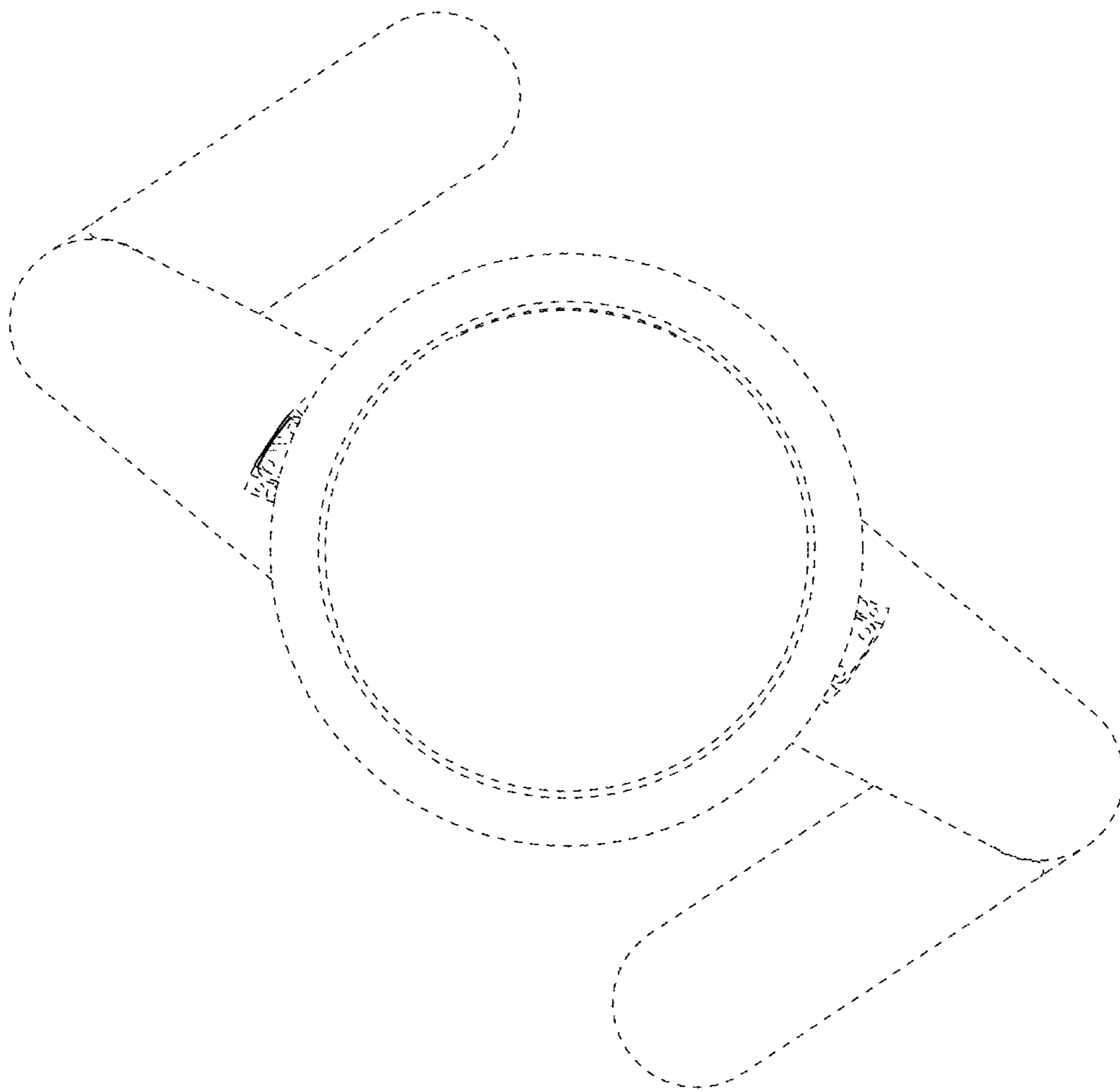


FIG. 7

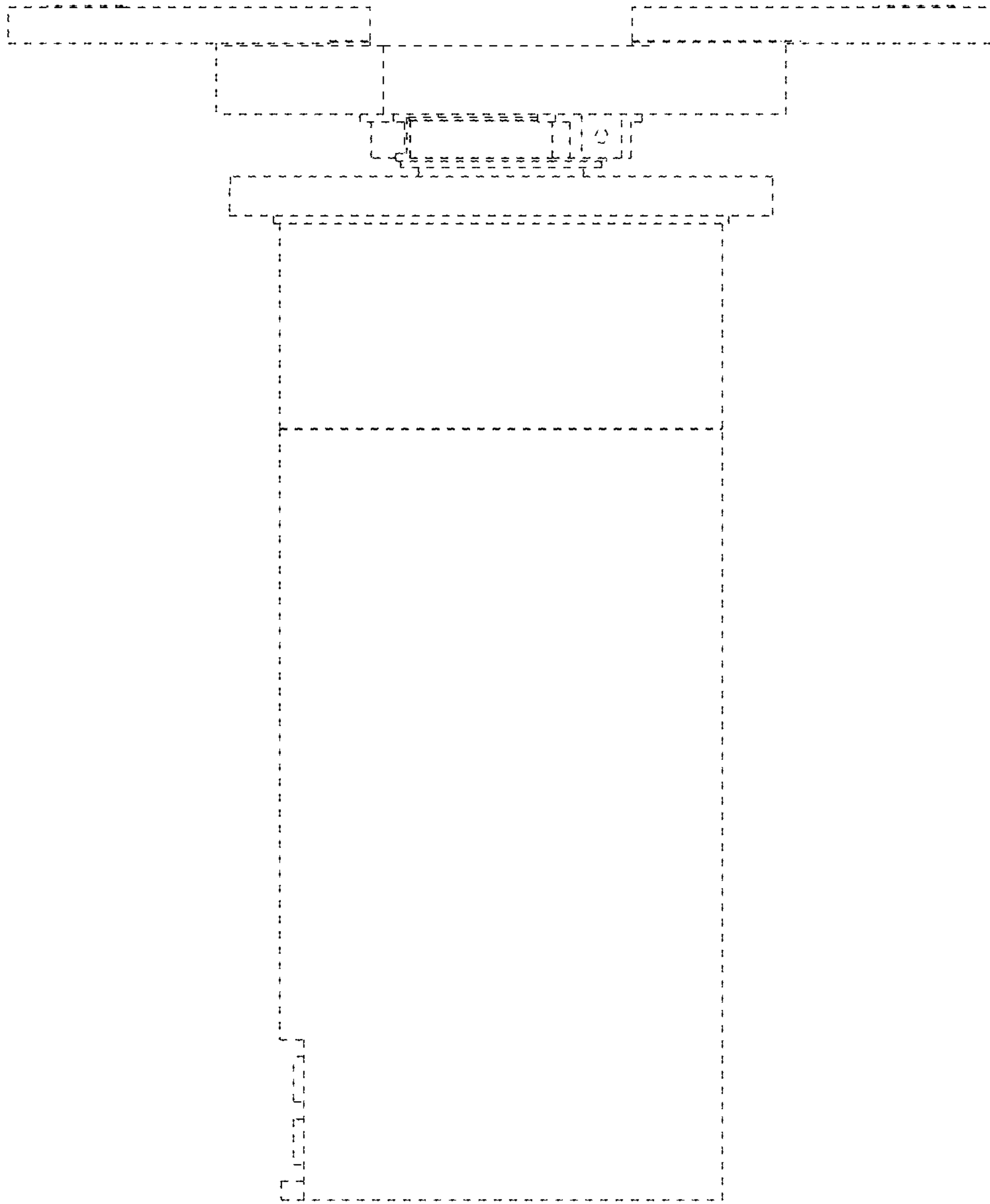


FIG. 8

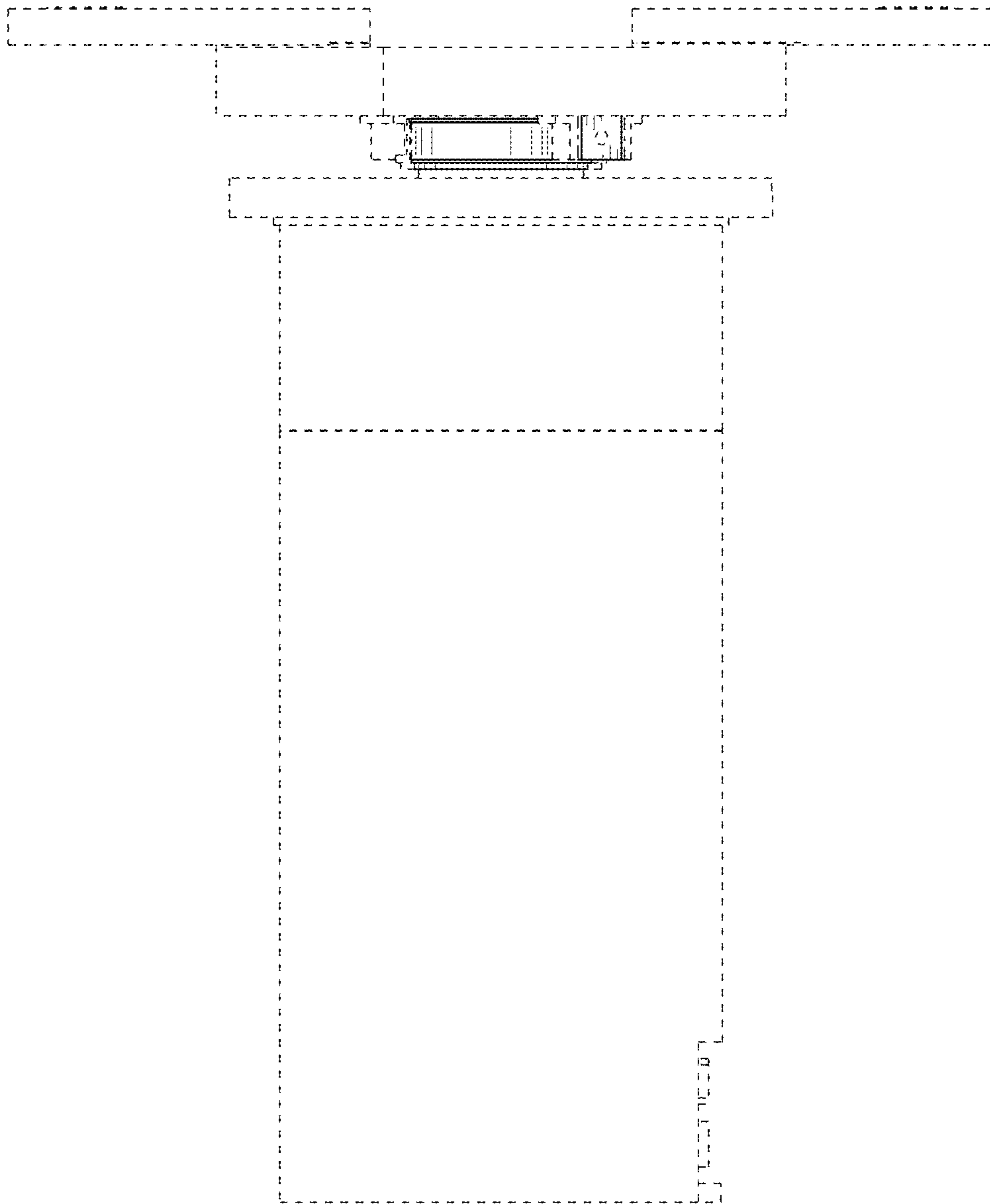


FIG. 9

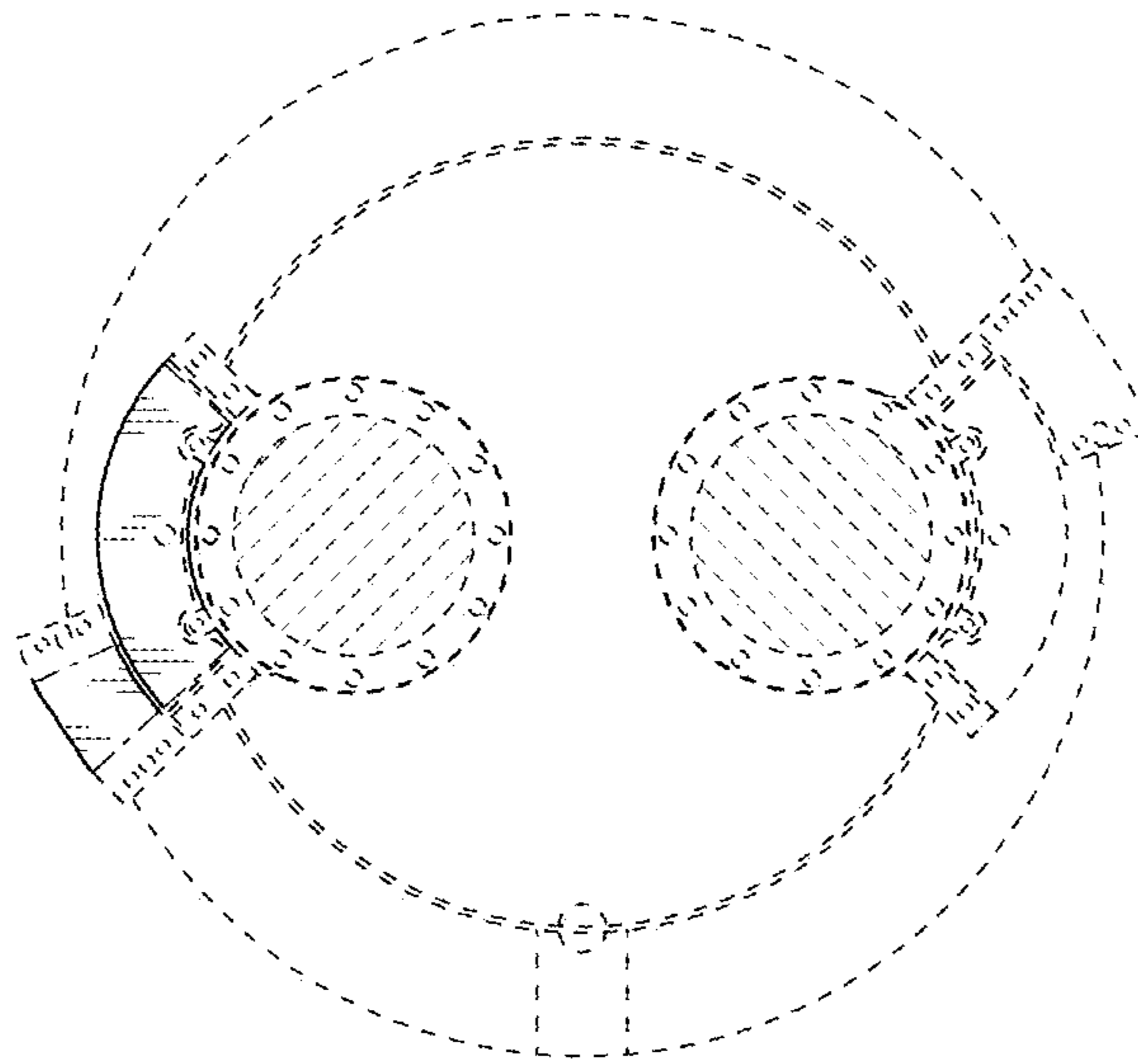


FIG. 10

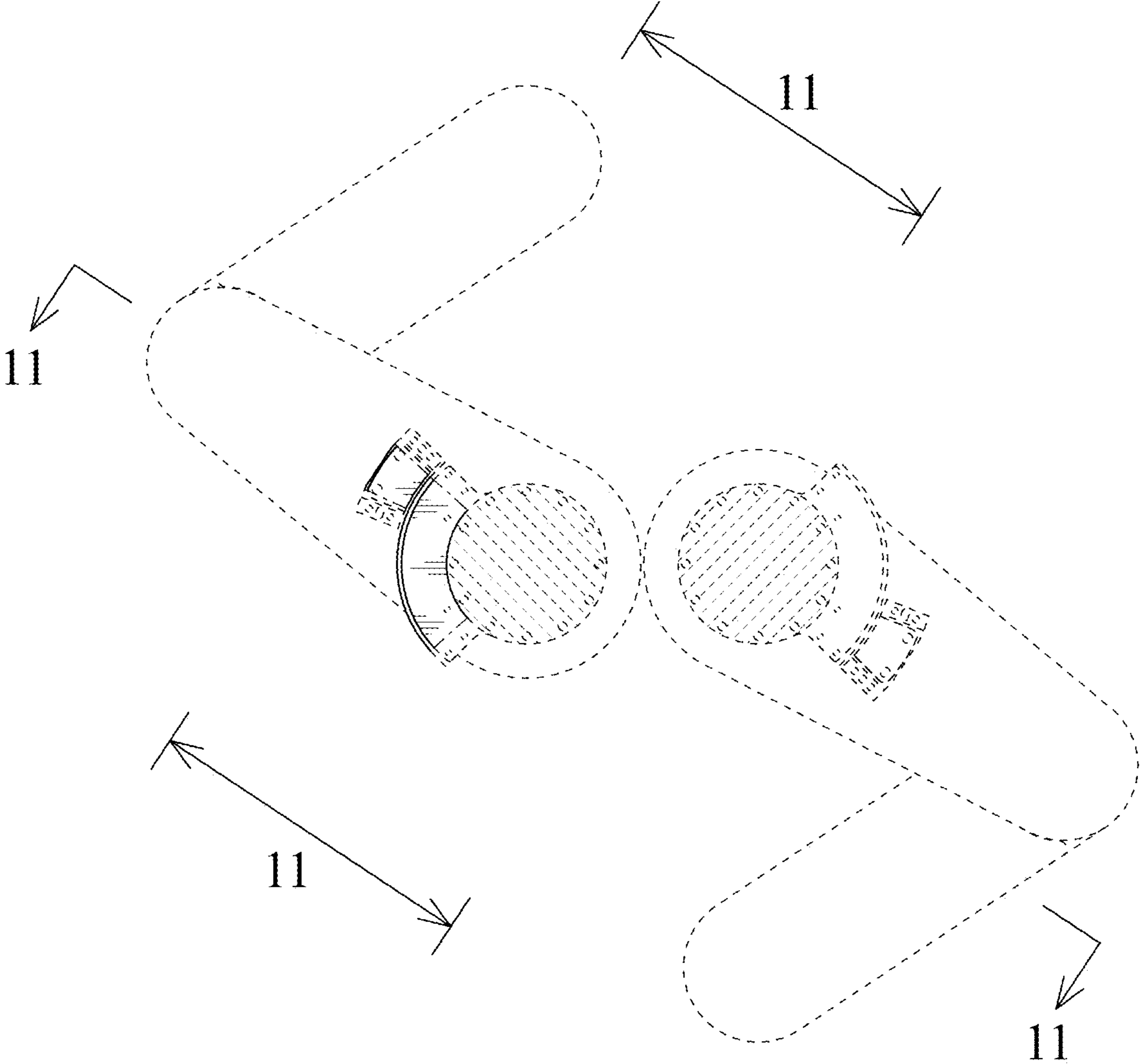


FIG. 11

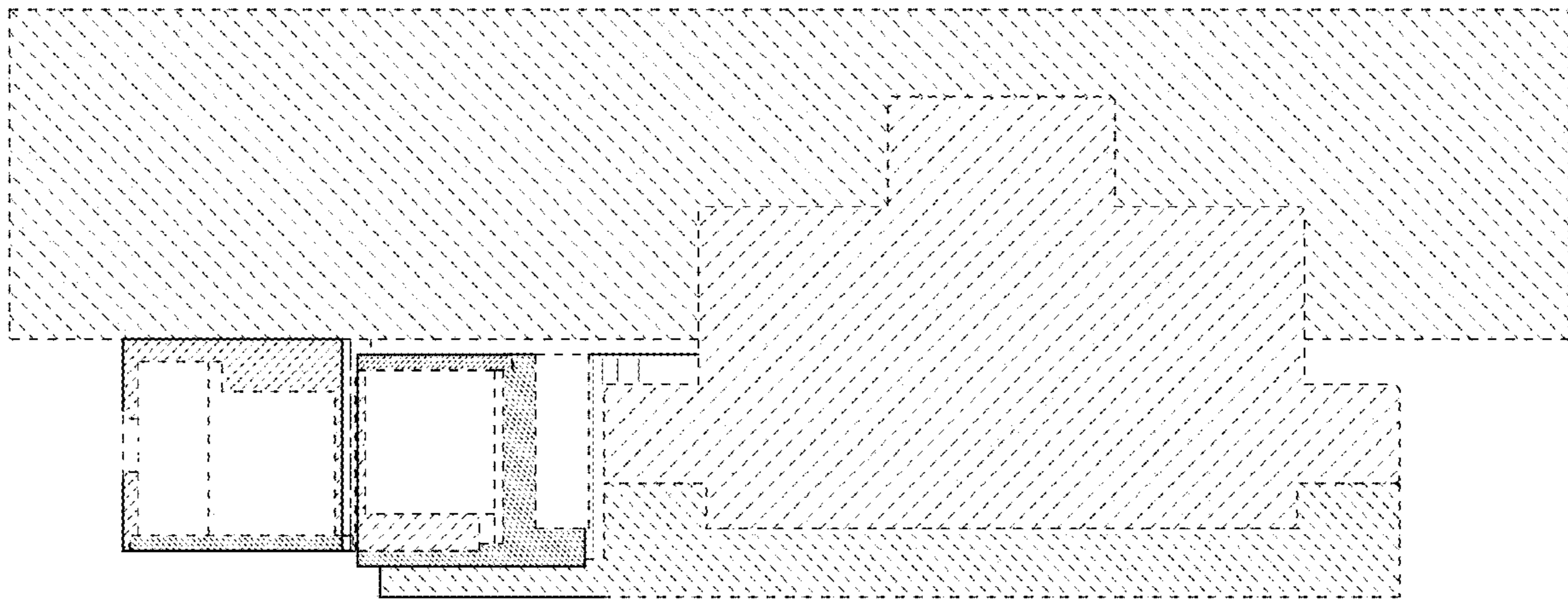


FIG. 12

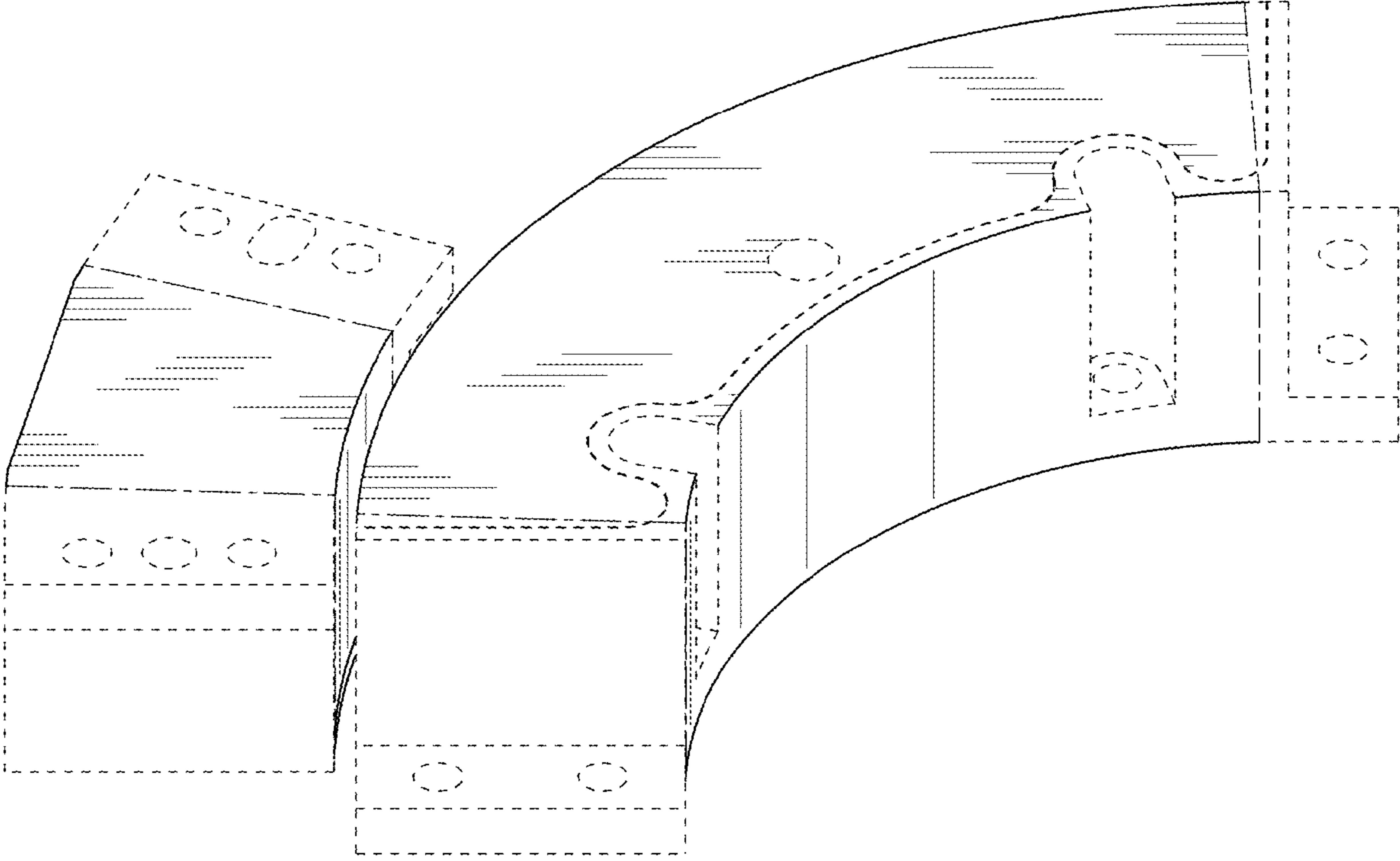


FIG. 13

