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

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(54) **INDUSTRIAL ROBOT UPPER ARM**

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(51) **LOC (11) Cl.** **15-99**

(52) **U.S. Cl.**
USPC **D15/199**

(58) **Field of Classification Search**
USPC D7/300, 305, 306-311, 397-400;
D10/16, 22, 23, 25, 28; D15/10-13, 22,
D15/122, 199; D20/1, 4, 5, 8; D21/578;
D23/383; D24/176; D32/17, 18, 21, 22,
D32/31-34

CPC A63H 11/00; A63H 2200/00; B25J 9/00;
B25J 9/04; B25J 18/00; G06N 3/00;
G06N 3/004; G06N 3/008

See application file for complete search history.

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(57) **CLAIM**

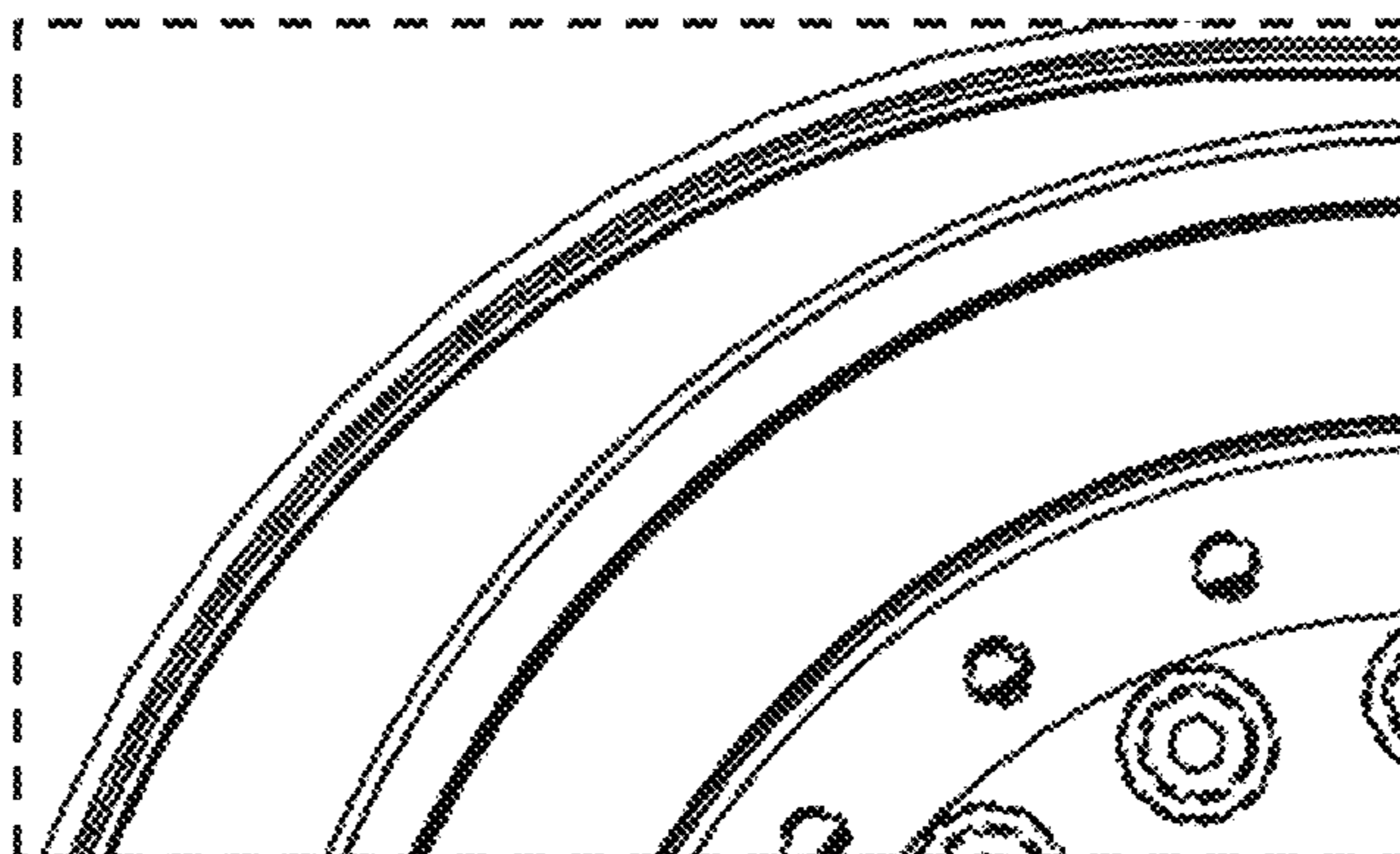
The ornamental design for an industrial robot upper arm, as shown and described.

DESCRIPTION

FIG. 1 is a front side view of an industrial robot upper arm. FIG. 2 is a rear side view of the device shown in FIG. 1. FIG. 3 is a left side view of the device shown in FIG. 1. FIG. 4 is a right side view of the device shown in FIG. 1. FIG. 5 is a top side view of the device shown in FIG. 1. FIG. 6 is a bottom side view of the device shown in FIG. 1. FIG. 7 is an enlarged view of the bounded area in FIG. 6; and, FIG. 8 is a front side perspective view of the device shown in FIG. 1.

The broken lines show portions of an industrial robot upper arm that form no part of the claimed design.

1 Claim, 8 Drawing Sheets



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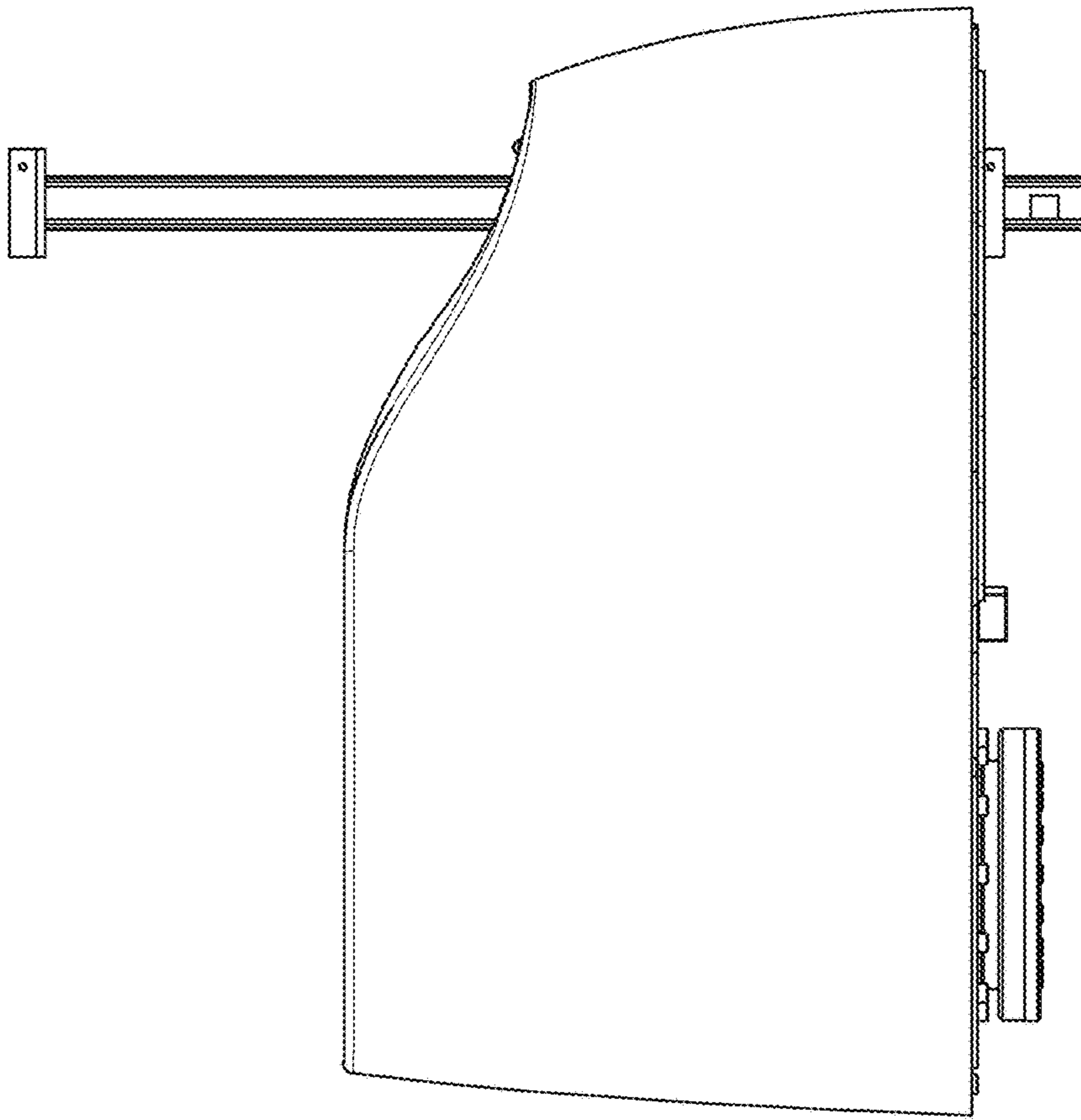


FIGURE 1

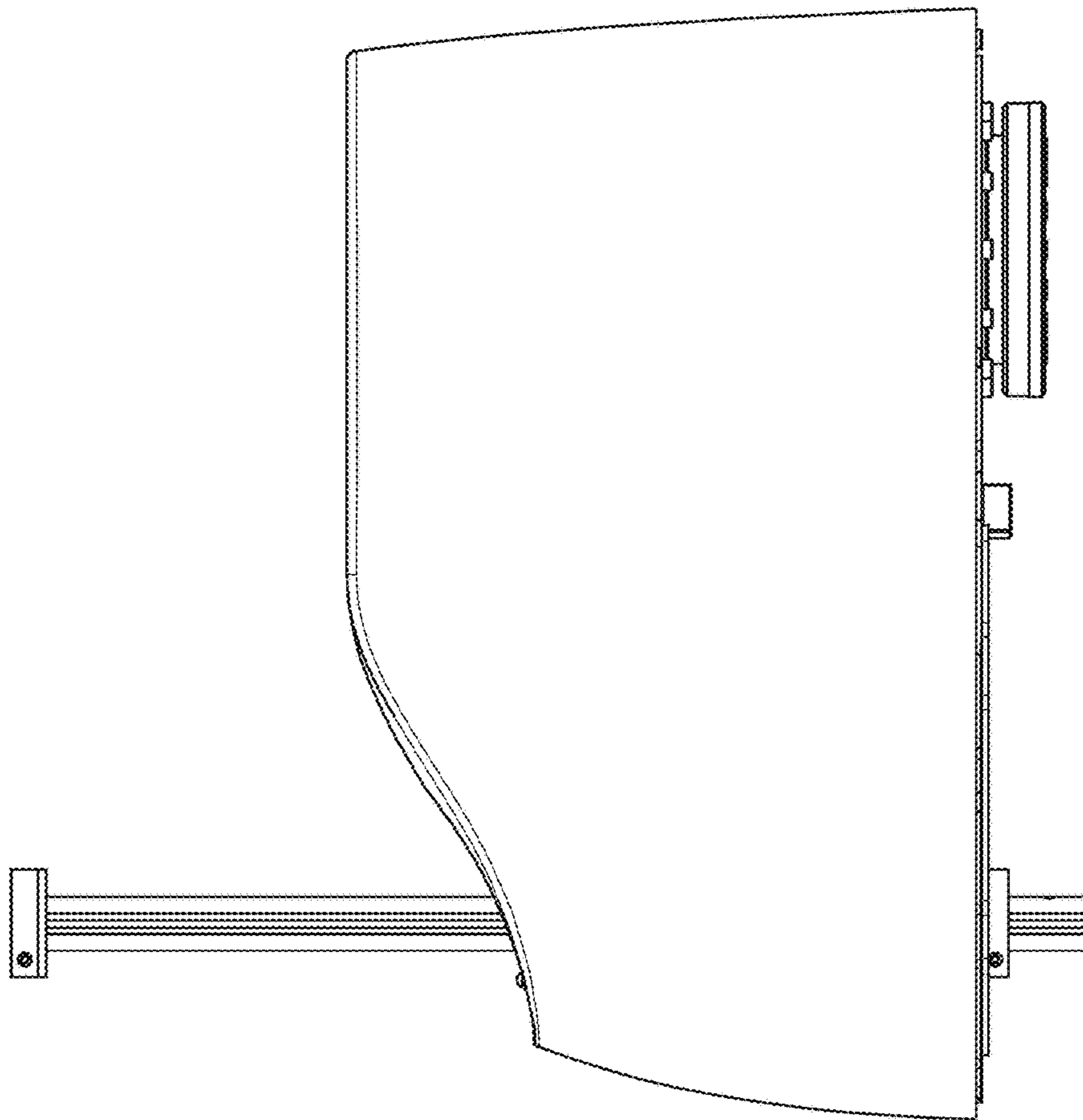


FIGURE 2

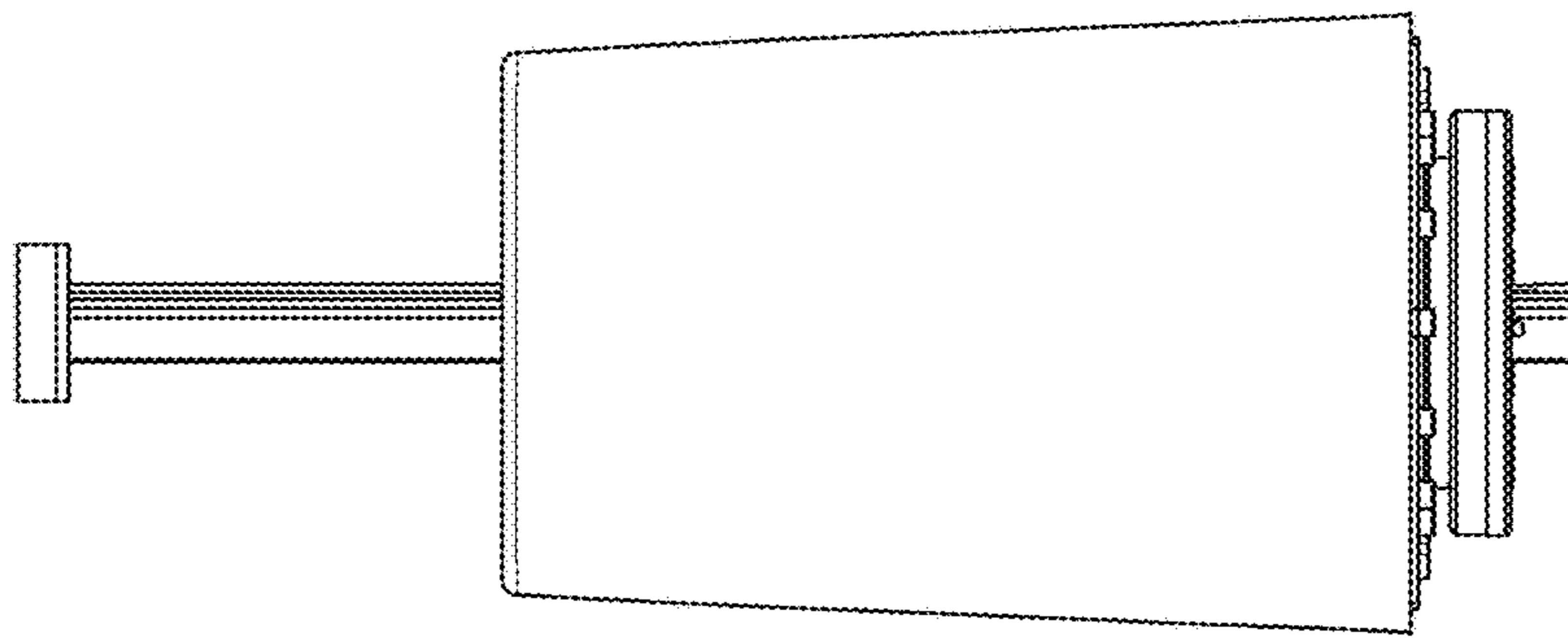


FIGURE 3

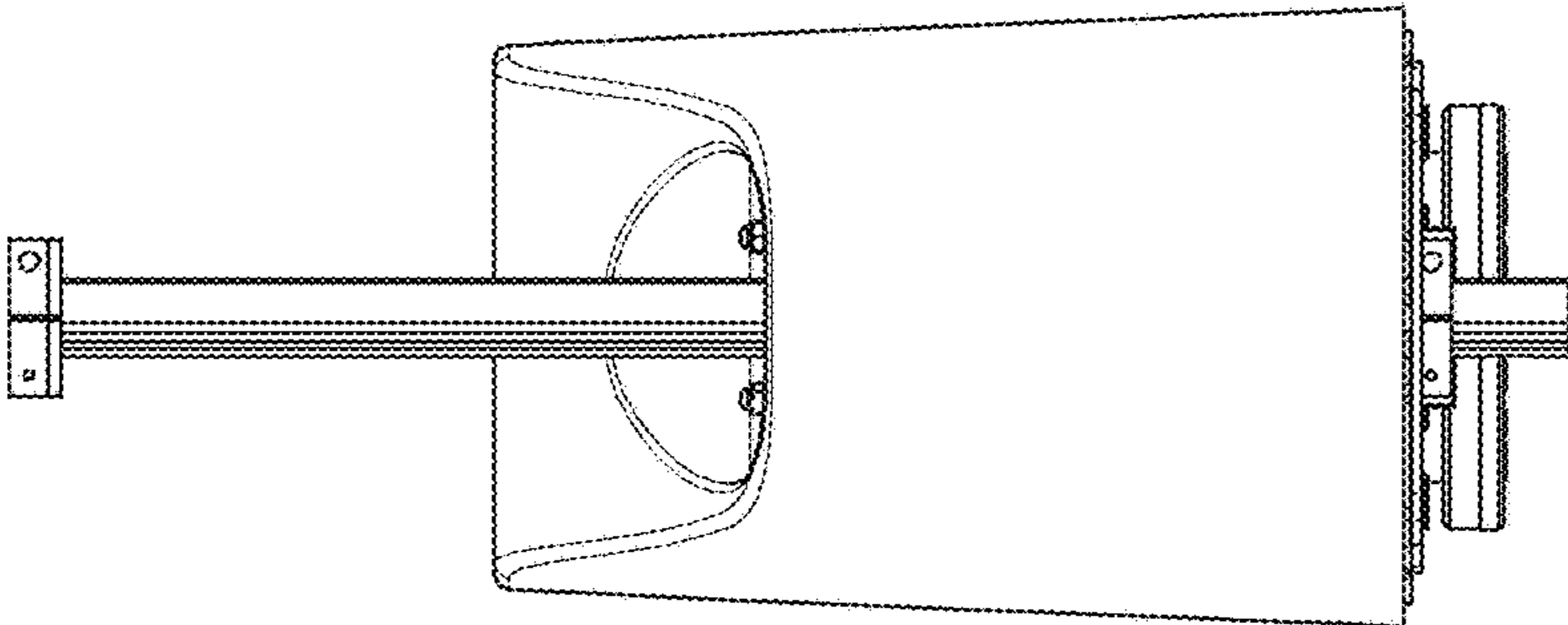


FIGURE 4

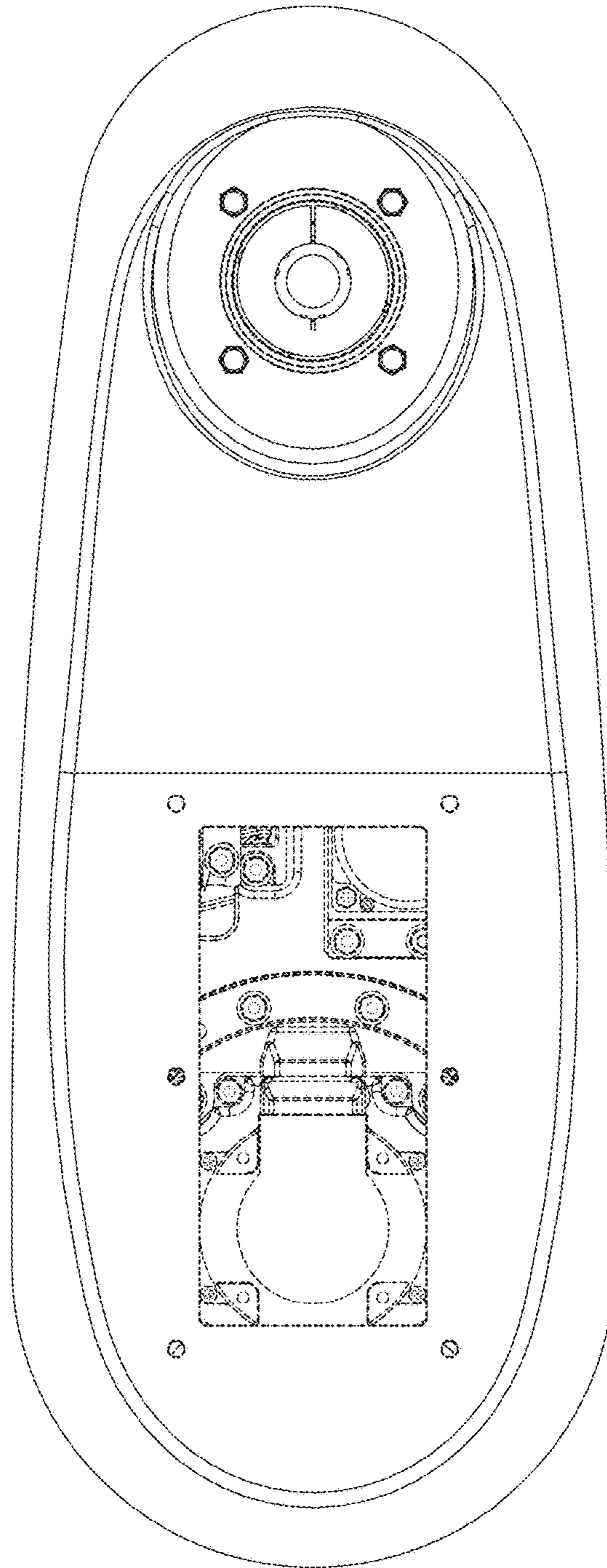


FIGURE 5

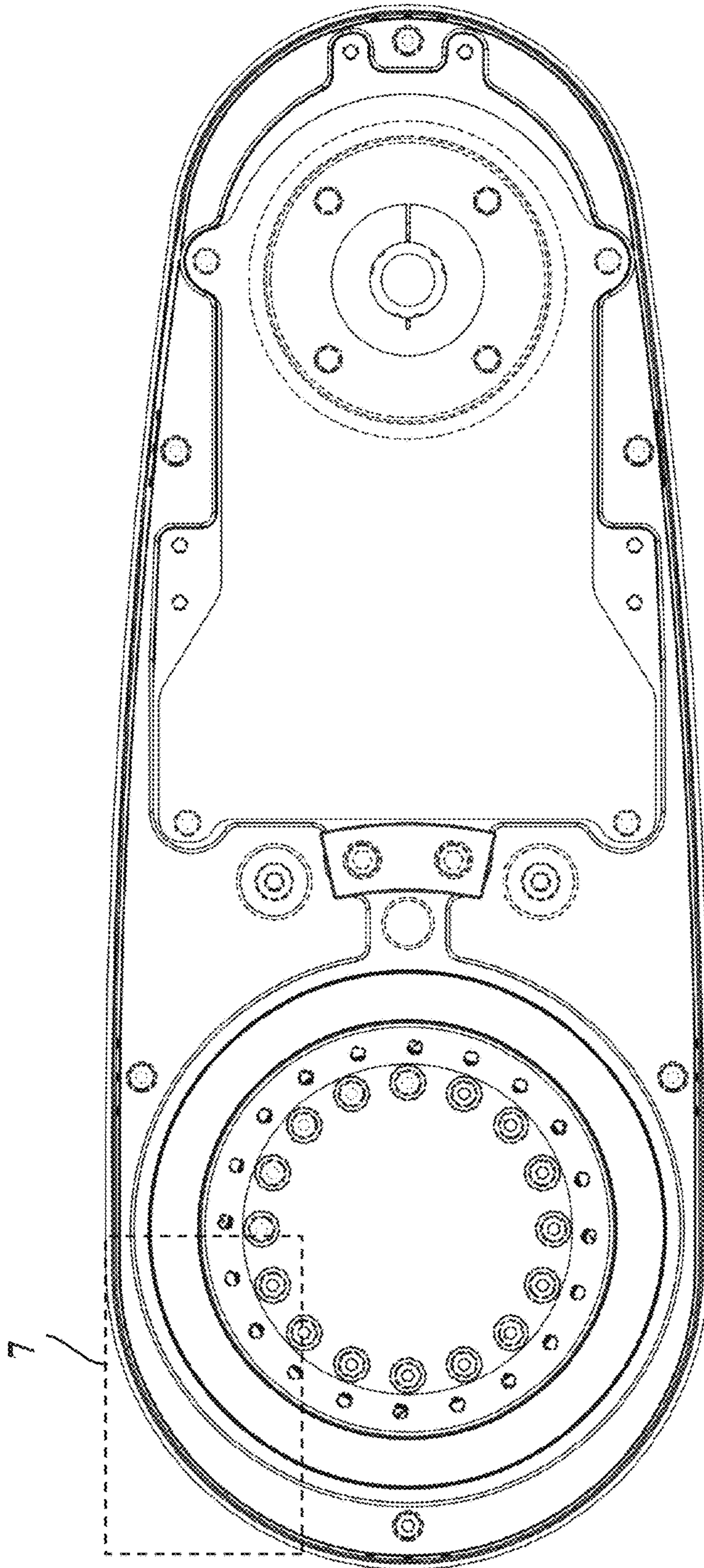


FIGURE 6

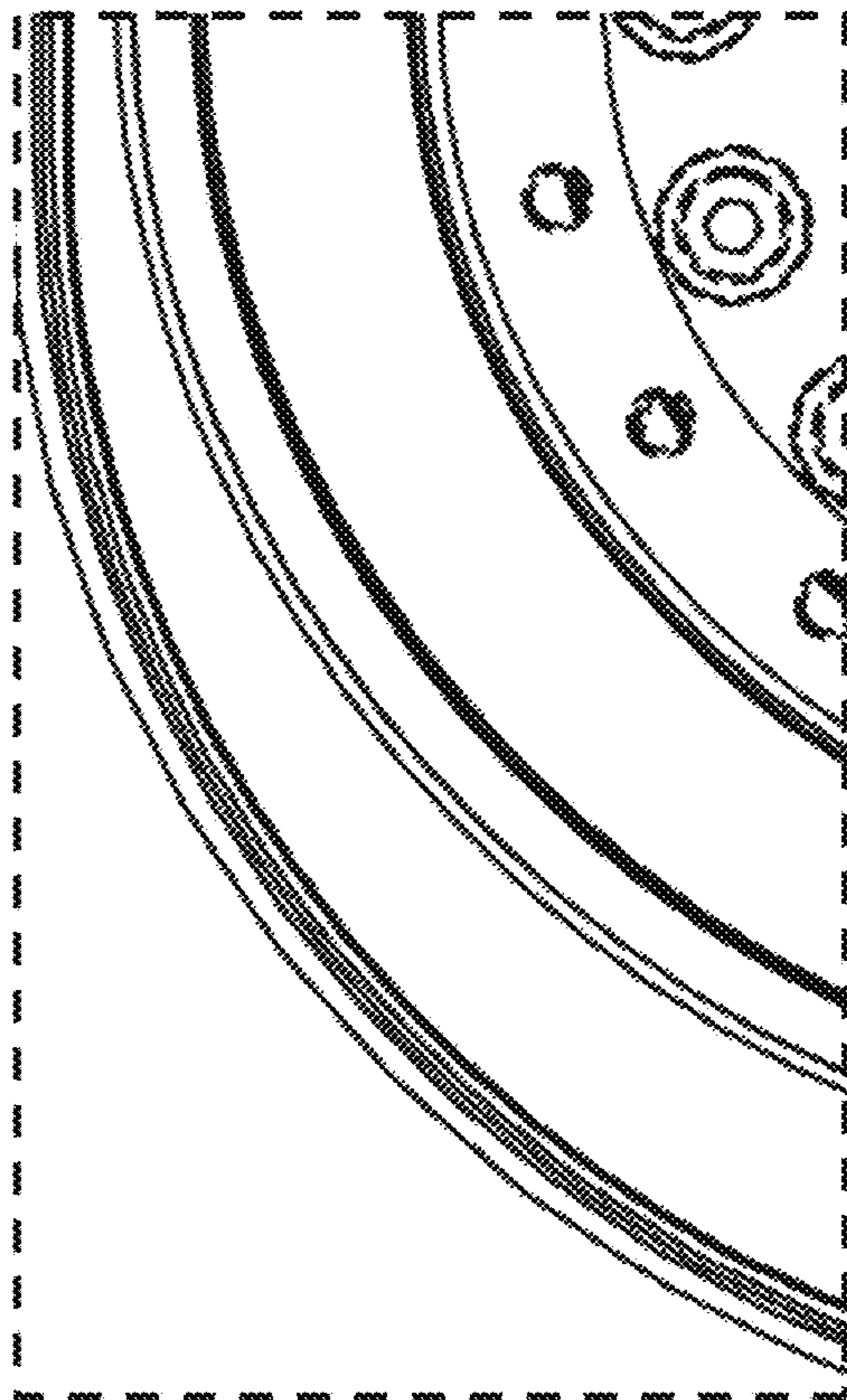


FIGURE 7

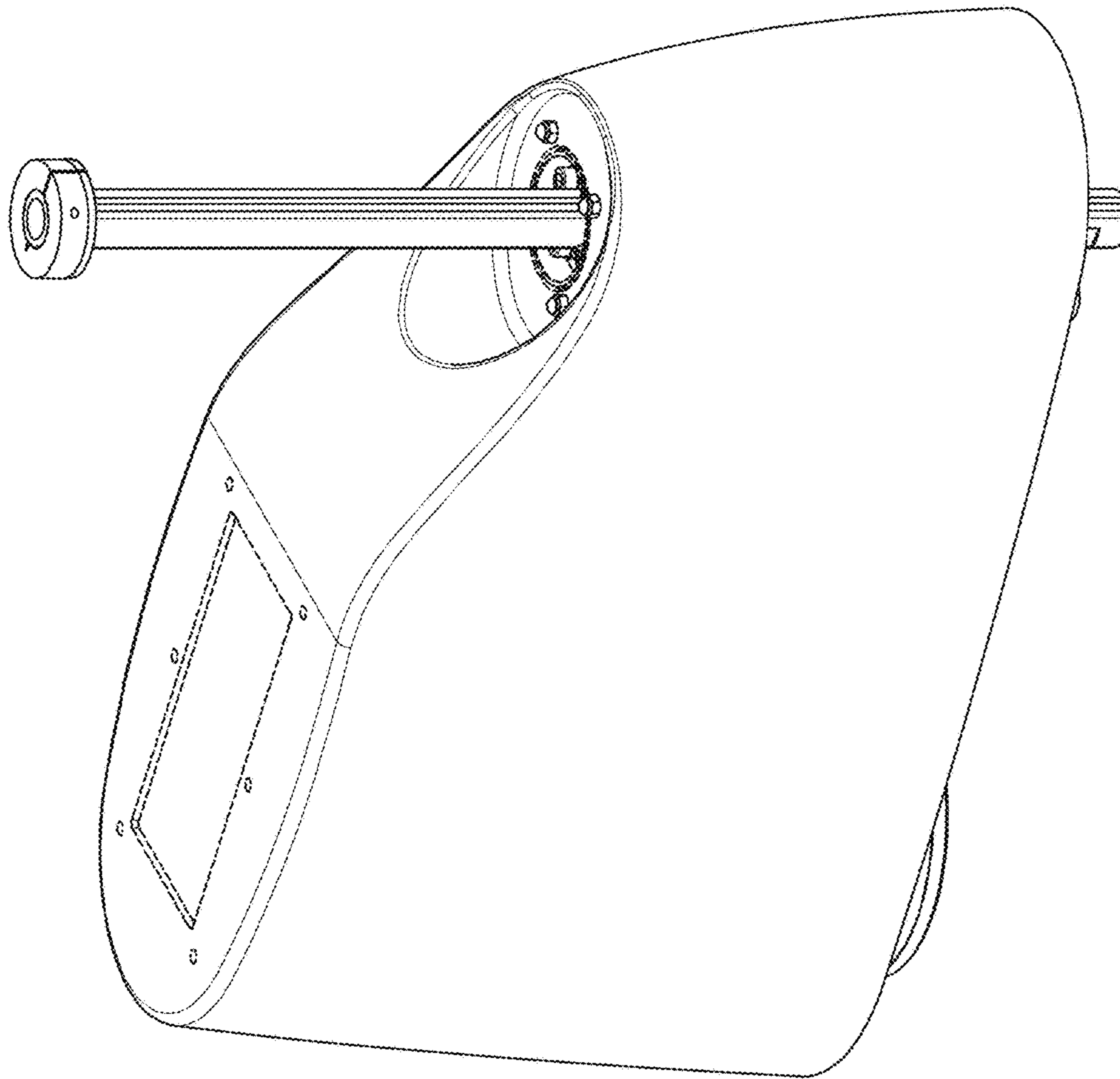


FIGURE 8