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

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(54) **HUMAN BODY DETECTOR**

Primary Examiner—Nelson C. Holtje

(75) Inventors: **Mataichi Kurata**, Otsu (JP); **Osamu Imanishi**, Otsu (JP)

(57) **CLAIM**

The ornamental design for human body detector, as shown and described.

(73) Assignee: **Optex Co., Ltd.**, Shiga (JP)

(**) Term: **14 Years**

DESCRIPTION

(21) Appl. No.: **29/176,683**

FIG. 1 is a front elevational view of human body detector showing our new design;

(22) Filed: **Feb. 25, 2003**

FIG. 2 is a rear elevational view thereof;

(30) **Foreign Application Priority Data**

FIG. 3 is a right side elevational view thereof;

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FIG. 4 is a left side elevational view thereof;

(51) **LOC (7) Cl.** **10-05**

FIG. 5 is a top plan view thereof;

(52) **U.S. Cl.** **D10/104**

FIG. 6 is a bottom plan view thereof; and,

(58) **Field of Search** D10/104, 106;
340/541, 545.3, 545.4, 551, 552, 561, 565,
566, 567, 573.1

FIG. 7 is a cross sectional view along the line A—A in FIG. 1 with internal mechanisms removed.

(56) **References Cited**

The human body detector sought to be patented is a human body detector for use in, for example, an automatic door system to detect access of a human to the automatic door. As shown in FIG. 7 showing a cross-section take along the line A—A, the human body detector includes a body 1 having a microwave transmitting and receiving antenna 2 disposed on a front side thereof. The body has a receptacle 3 defined therein for accommodating electronic component parts forming microwave transmitter and receiver circuits, which receptacle 3 is closed by a cover 4. The receptacle 3 has at least one printed circuit board 5 accommodated therein, and the antenna 2 is fixedly mounted at one end thereof on the printed circuit board 5.

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1 Claim, 2 Drawing Sheets

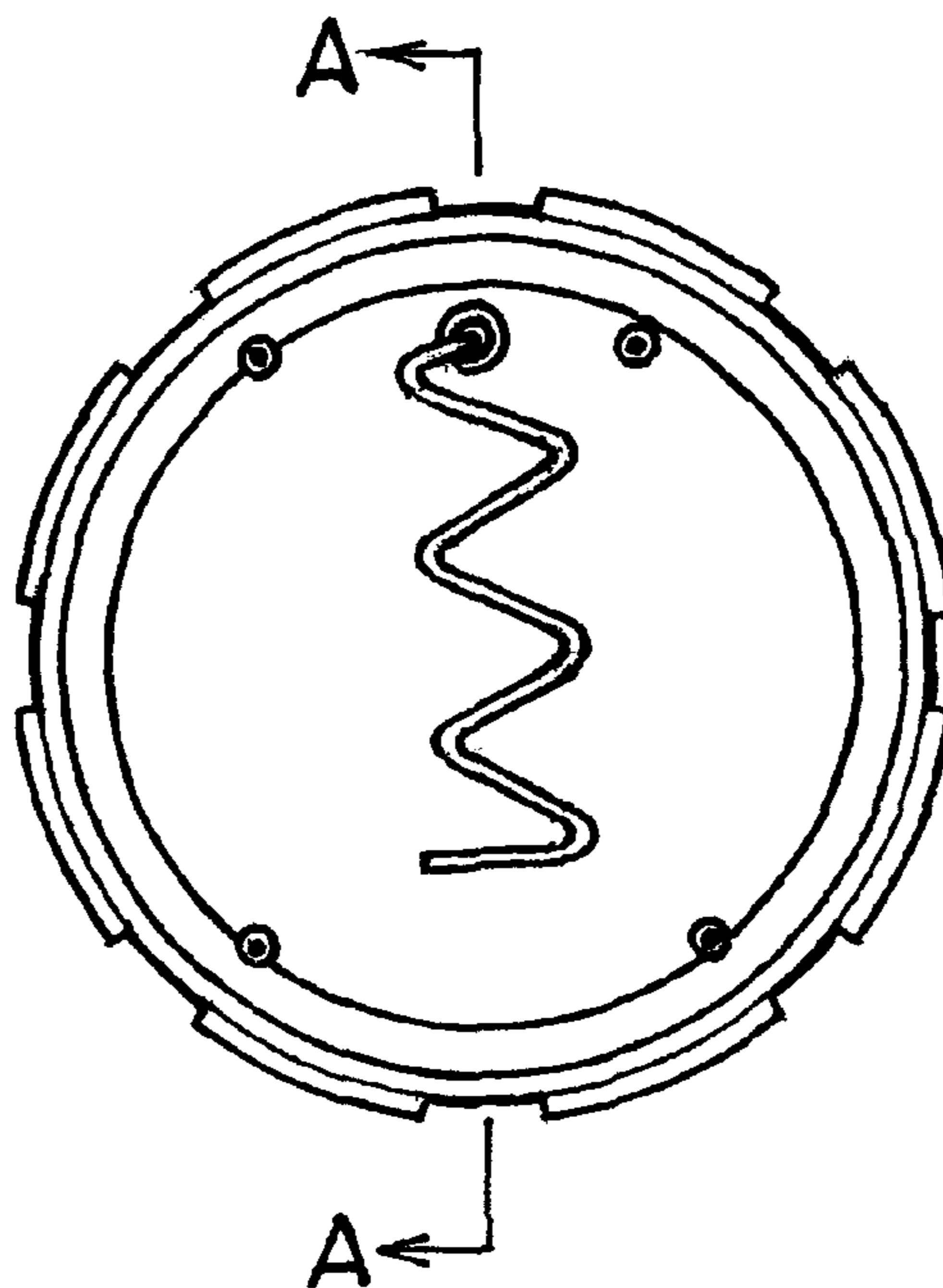


Fig. 1

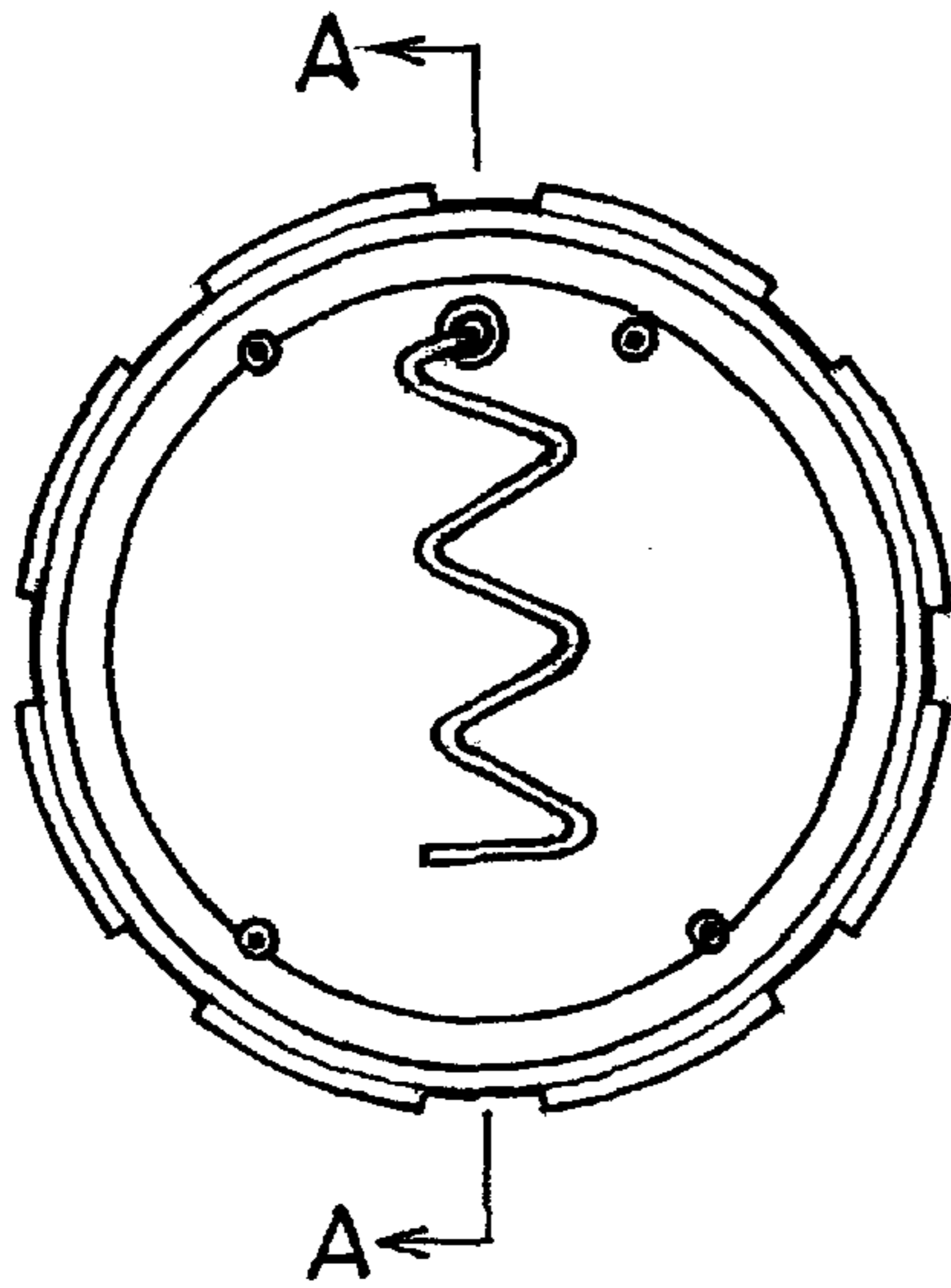


Fig. 2

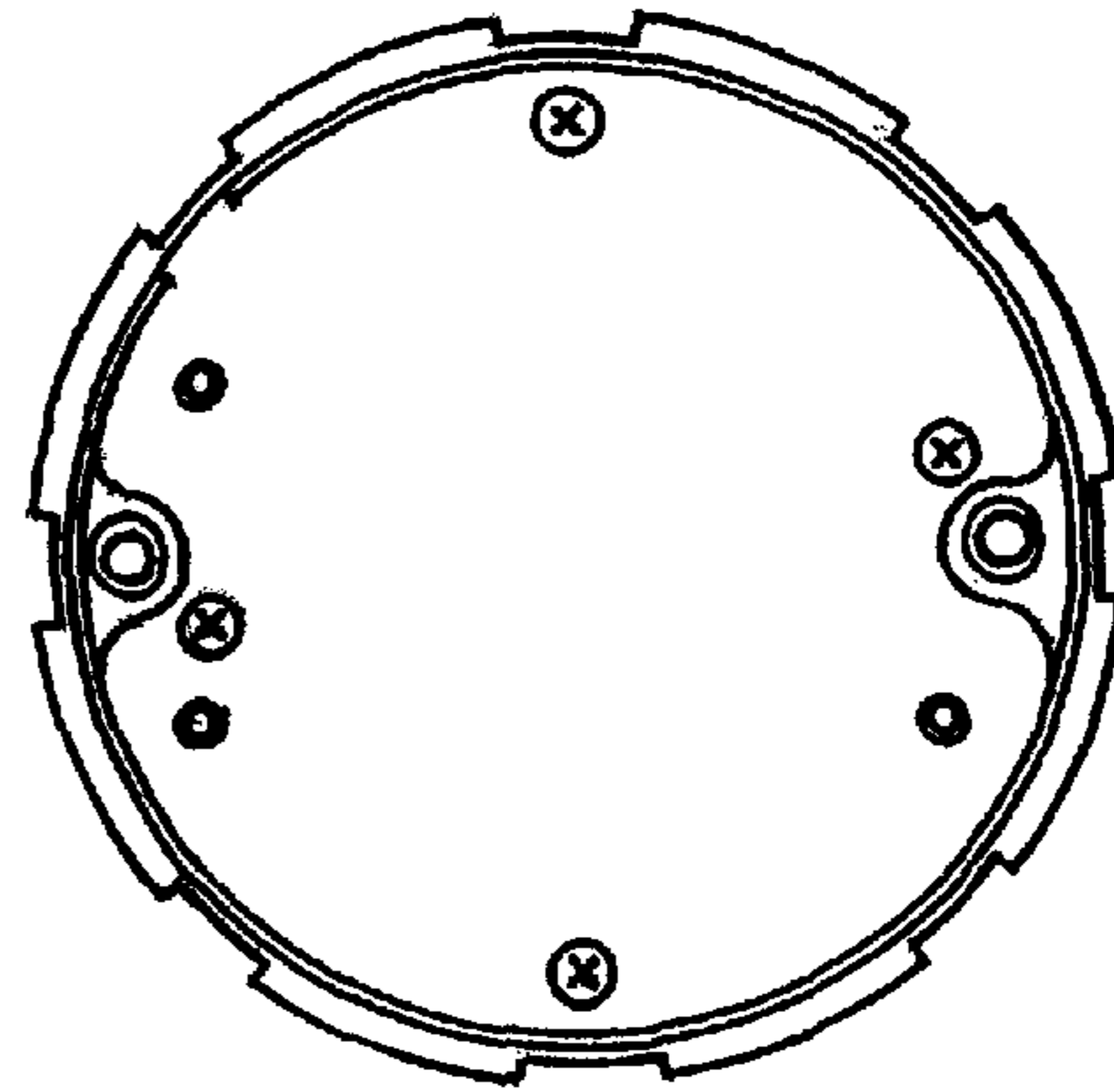


Fig. 3

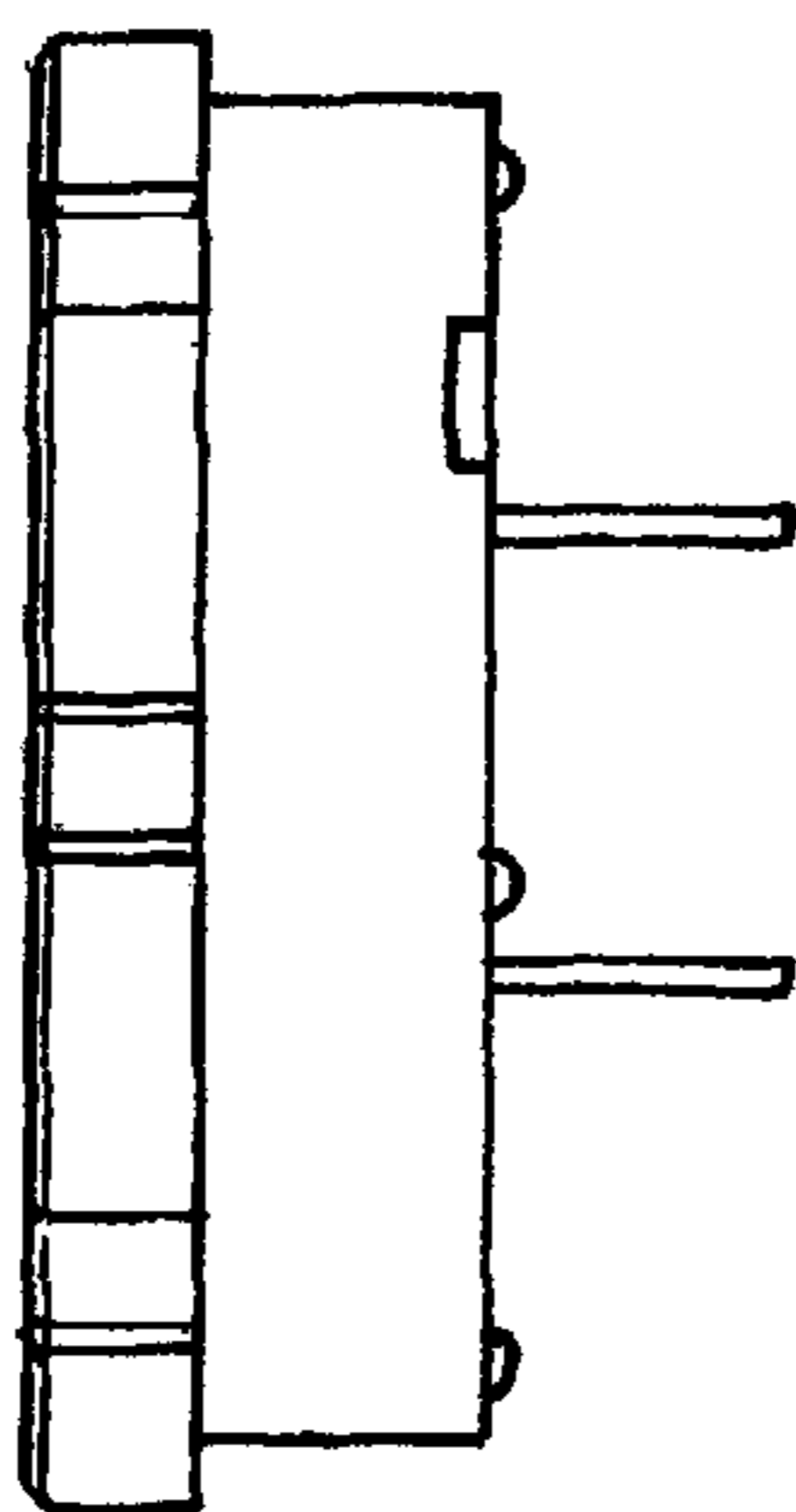


Fig. 4

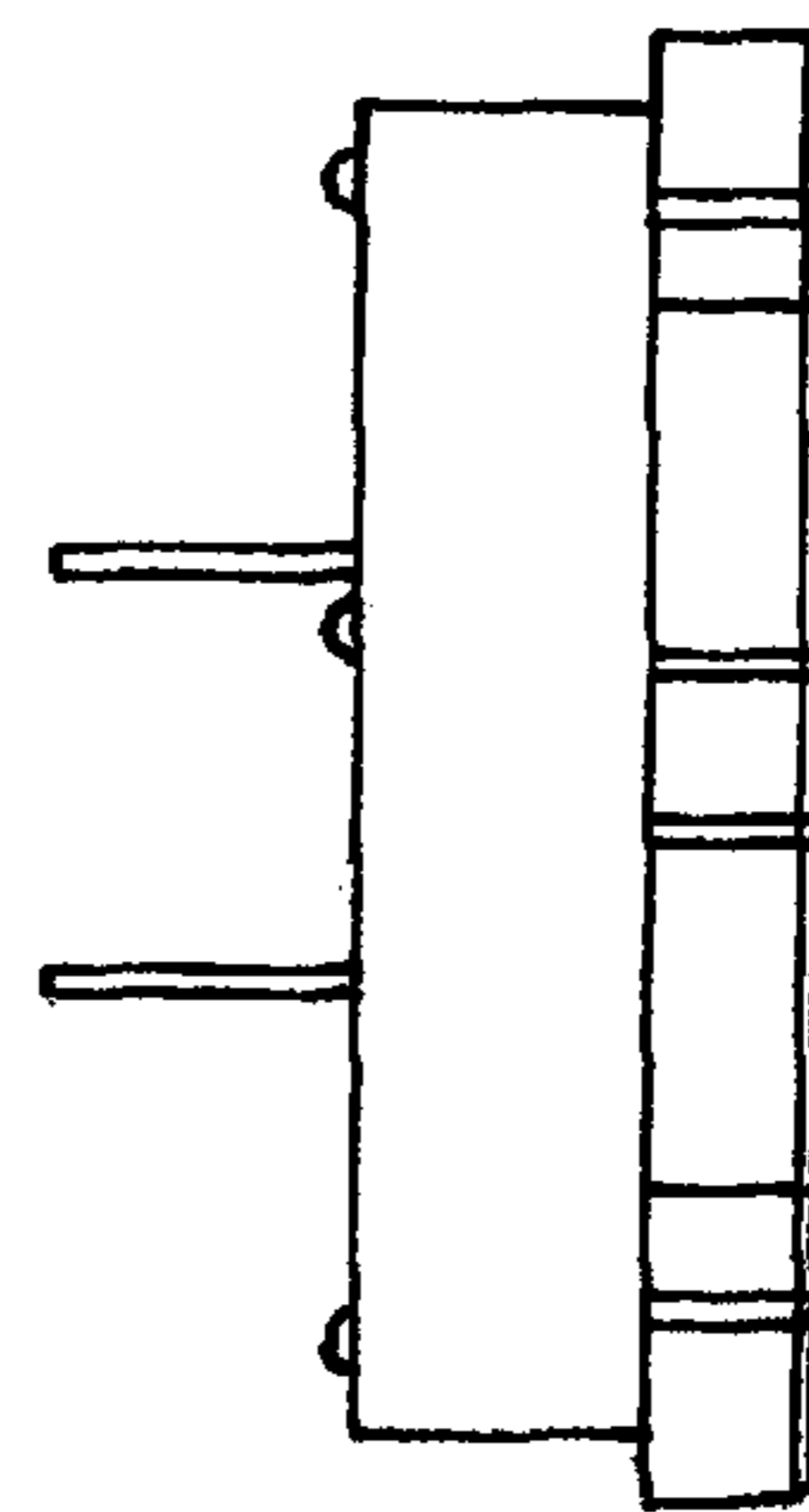


Fig. 5

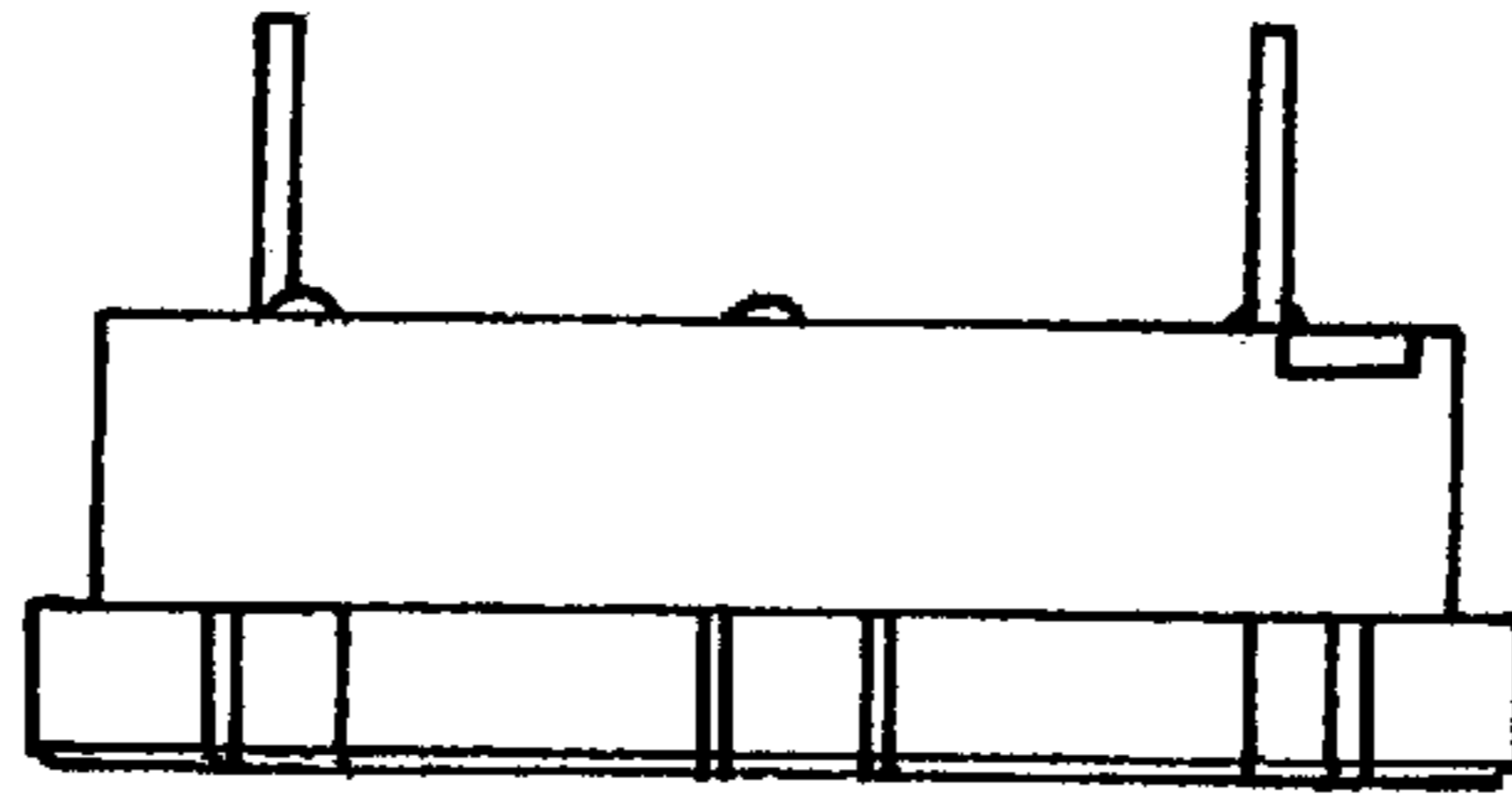


Fig. 6

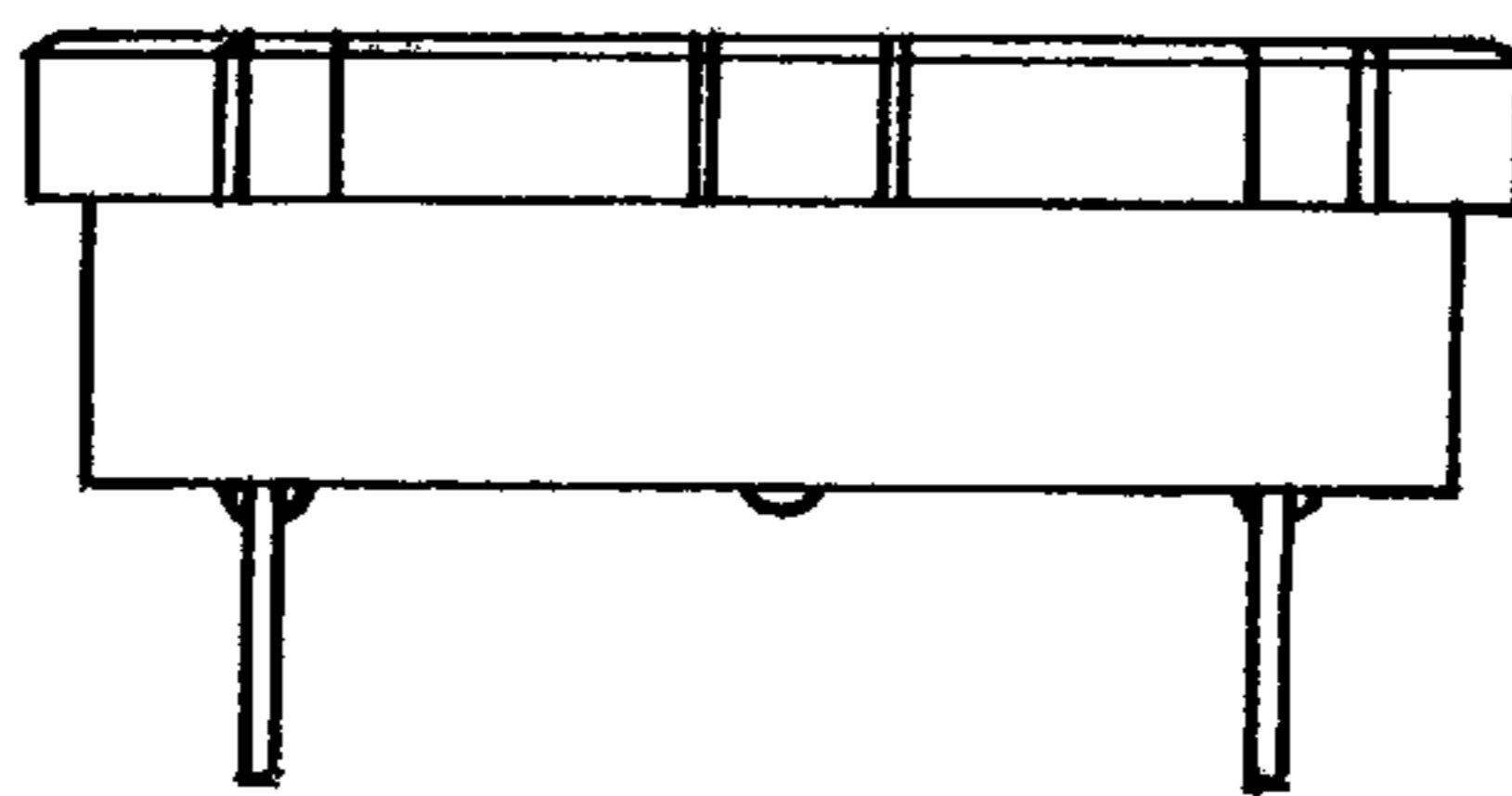


Fig. 7

