

US00D486749S

(12) United States Design Patent (10) Patent No.:

Kurata et al.

US D486,749 S

** Feb. 17, 2004 (45) Date of Patent:

HUMAN BODY DETECTOR

Inventors: Mataichi Kurata, Otsu (JP); Osamu

Imanishi, Otsu (JP)

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

14 Years Term:

Aug. 30, 2002

Appl. No.: 29/176,683

Filed: Feb. 25, 2003

Foreign Application Priority Data (30)

(51)	LOC (7) Cl	10-05
(52)	U.S. Cl	D10/104
(50)	Field of Coards	D10/104 106.

(JP) 2002-023341

340/541, 545.3, 545.4, 551, 552, 561, 565, 566, 567, 573.1

References Cited (56)

U.S. PATENT DOCUMENTS

4,679,043	A	*	7/1987	Morokawa
4,800,368	A	*	1/1989	Wisner 340/567
D320,760	S	*	10/1991	Gnuechtel D10/121
5,371,719	A	*	12/1994	Burn et al 367/173
5,812,058	A	*	9/1998	Sugimoto et al 340/556
D435,798	\mathbf{S}	*	1/2001	Aiello et al D10/104
D439,853	\mathbf{S}	*	4/2001	Aiello et al
6,278,367	B 1	*	8/2001	Baglin 340/546
D452,452	\mathbf{S}	*	12/2001	Masuda
D472,486	S	*	4/2003	Eckel et al D10/104

^{*} cited by examiner

Primary Examiner—Nelson C. Holtje

CLAIM (57)

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

DESCRIPTION

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

FIG. 2 is a rear elevational view thereof;

FIG. 3 is a right side elevational view thereof;

FIG. 4 is a left side elevational view thereof;

FIG. 5 is a top plan view thereof;

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

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

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.

1 Claim, 2 Drawing Sheets

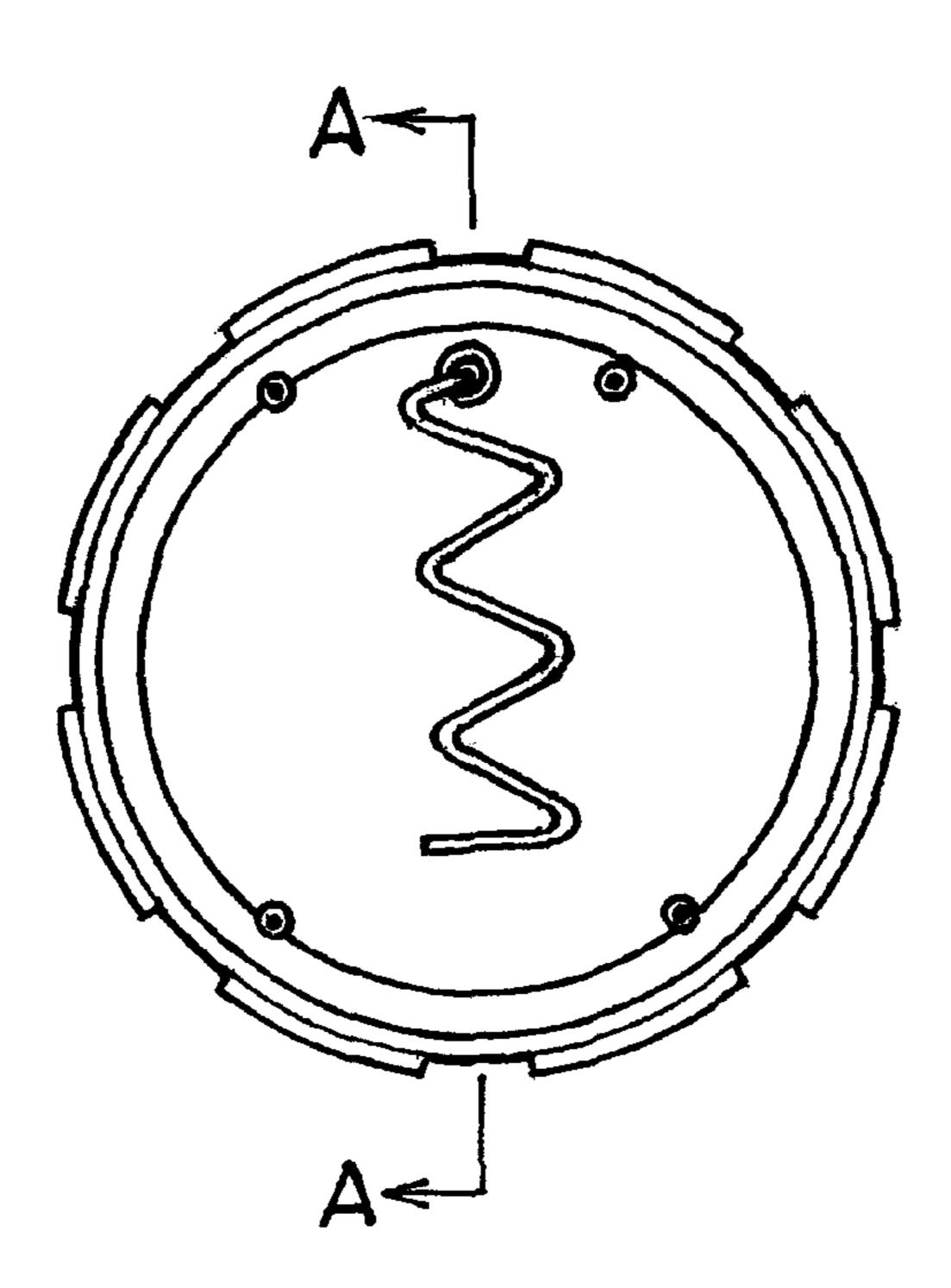


Fig. 1

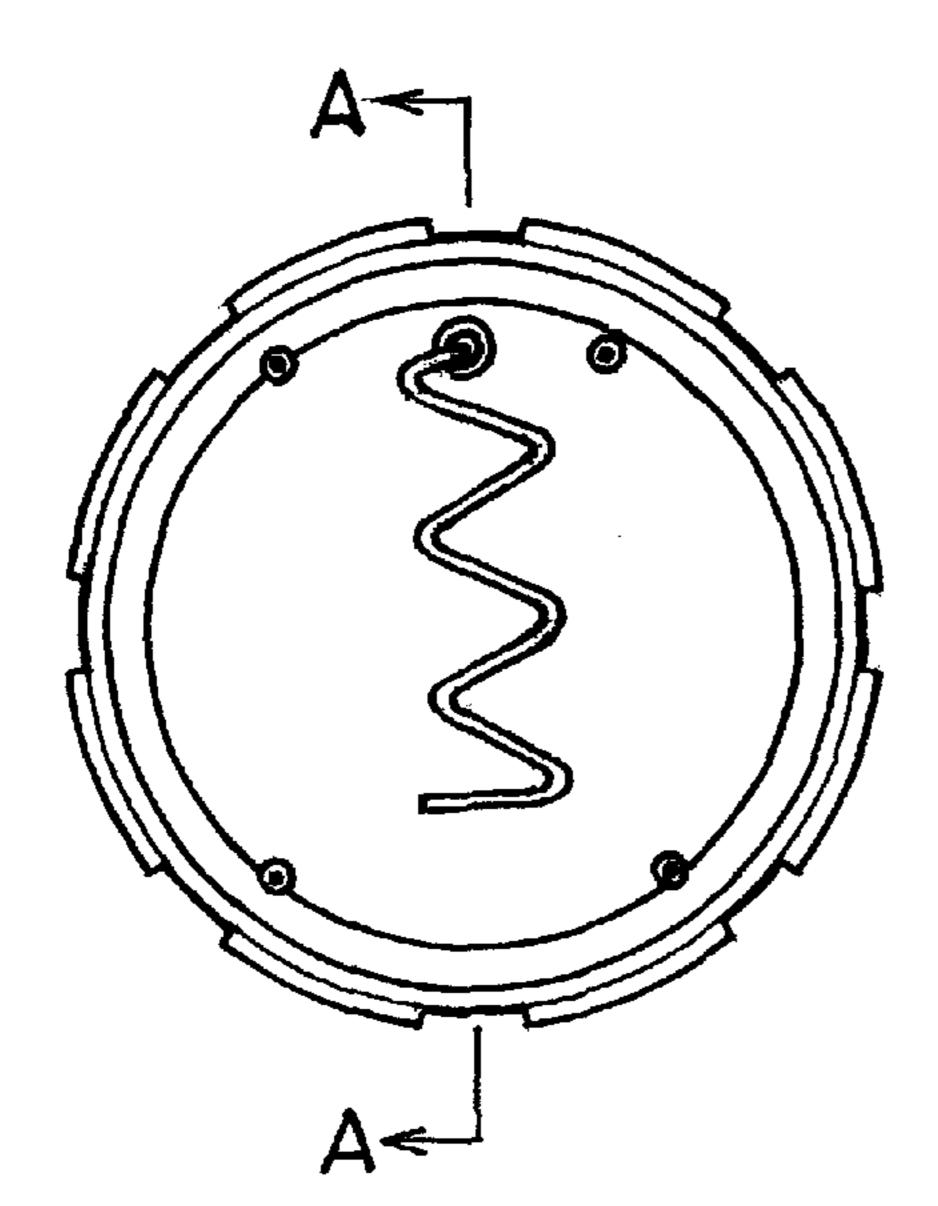


Fig. 2

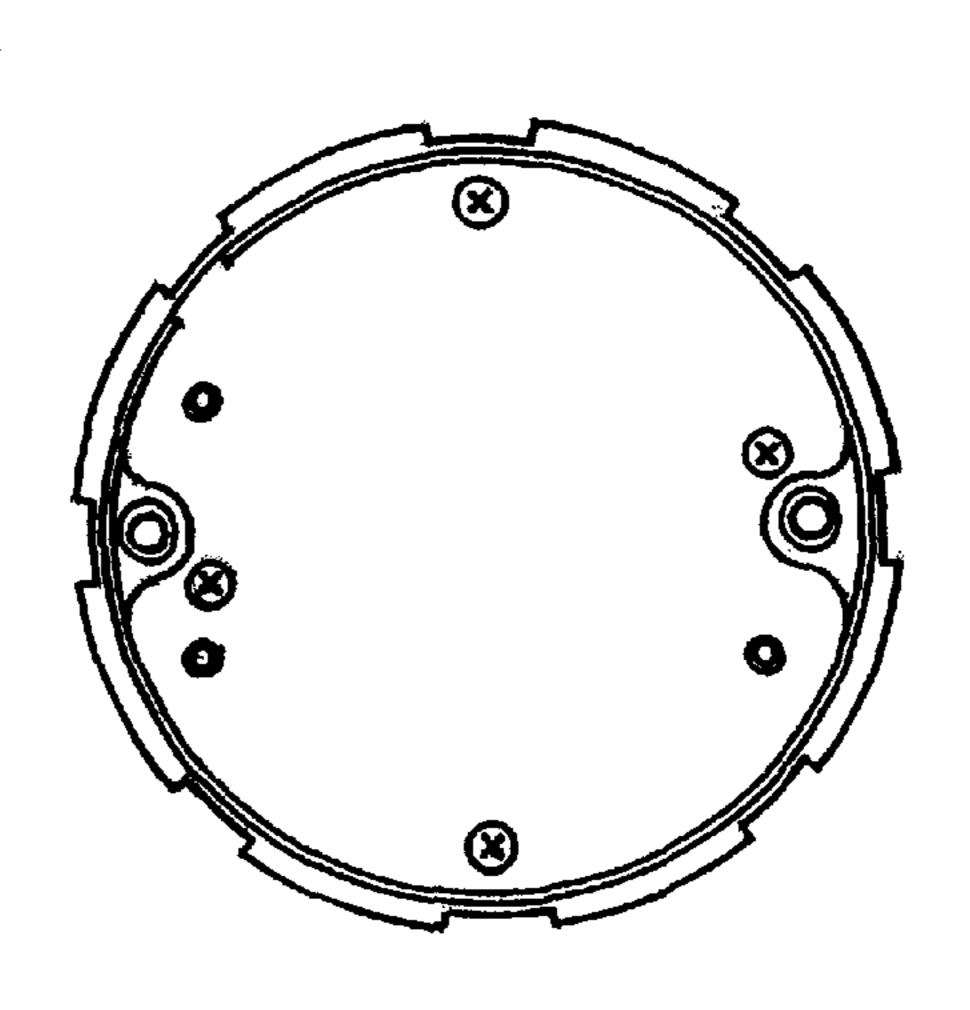


Fig. 3

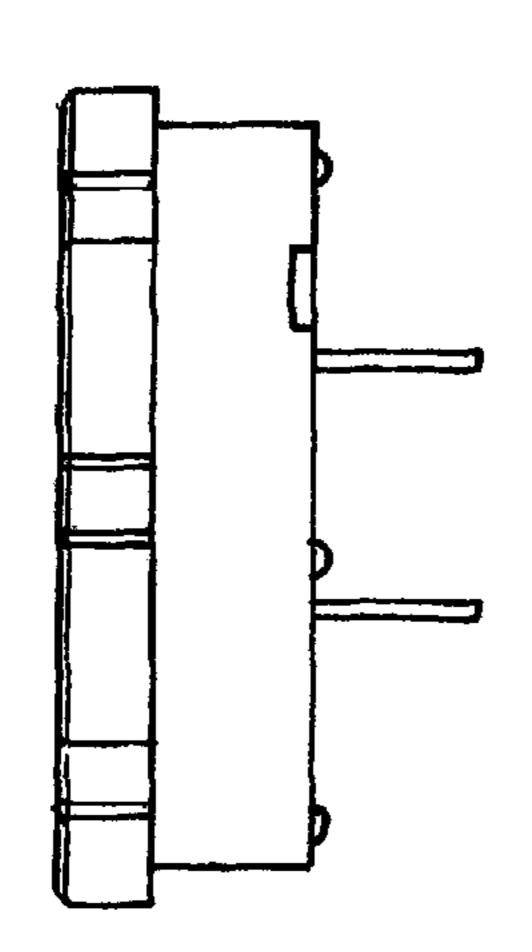
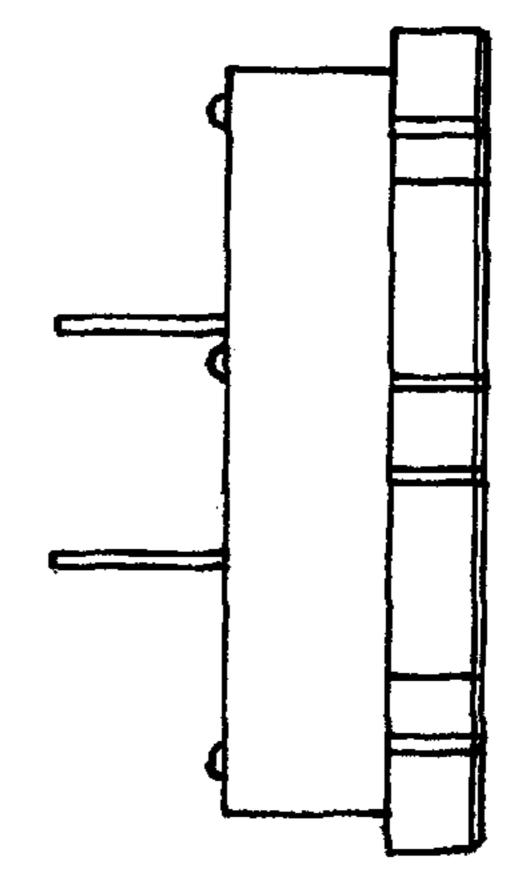


Fig. 4



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Fig. 5

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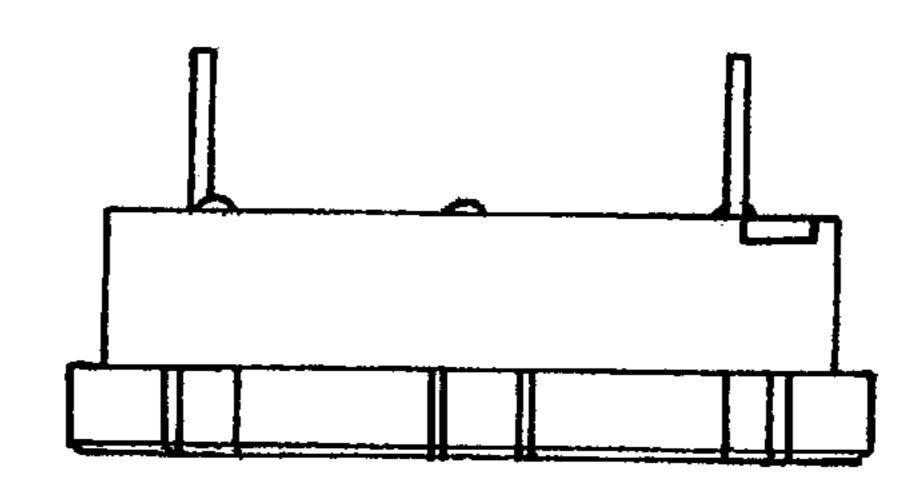


Fig. 6

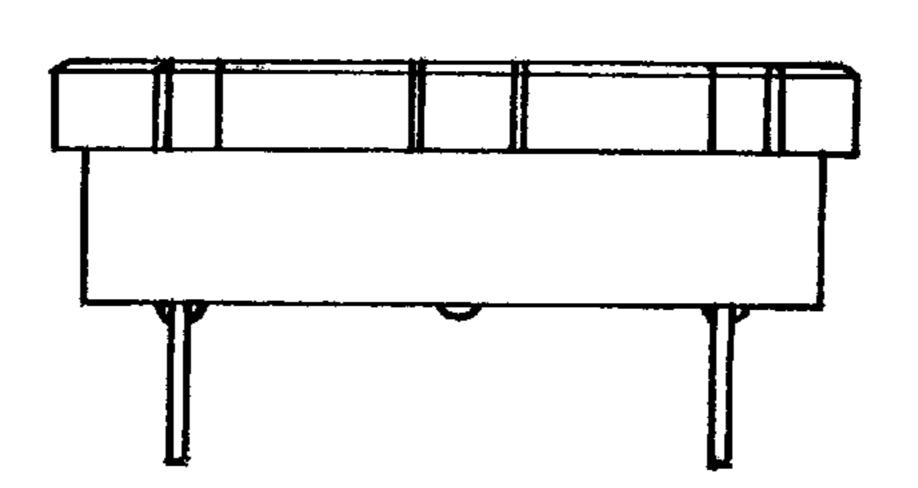


Fig. 7

