

**PYROELECTRIC INFRARED SENSOR DEVICE****ABSTRACT**

The invention provides a pyroelectric infrared sensor device (10), comprising a substrate (12) of a pyroelectric material having one principal plane and a remaining principal plane, the one principal plane receiving rays of infrared light, a comb-shaped electrode (14) on the one principal plane of said substrate, and the substrate (12) being polarized by the comb-shaped electrode (14), characterized in that an electrode (16) is formed on the remaining principal plane of said substrate (12), and said electrode (16) has a portion opposing said comb-shaped electrode (14). The pyroelectric infrared sensor device is capable of further improving the sensitivity and relative detection rate while reducing manufacturing costs.

FIG. 1