

ABSTRACTEXOTHERMIC DEVICE FOR DIFFERENT ELECTRIC SOURCES

A positive temperature coefficient thermistor is prepared from a sintered body of a ceramic material composition which has as a substrate BaTiO_3 with metallic oxide and has, in a predetermined voltage range, a voltage-current characteristic defined by the following equation:

$$V_x + I_y = \underline{a}$$

wherein $\underline{a}$ is a constant value, V_x is a voltage on an axis of abscissa and I_y is a current on an axis of ordinate in a cartesian coordinate, said voltage range extending from a predetermined value to a value at least twice as much as the predetermined value so that when a voltage in said voltage range is applied to the sintered body, the sintered body provides heat at a substantially constant value. Thus, when the present invention is used in countries or areas in which commercial voltages of 110 V and 220 V are used, almost certain temperature can be obtained without changing voltage by a transformer.

(Fig. 2)

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