

Title (en)
HEAT DISSIPATION SUBSTRATE AND SEAL TYPE PTC THERMISTOR HEATER

Title (de)
WÄRMEABLEITUNGSSUBSTRAT UND DICHTUNGS-PTC-THERMISTORELEMENT

Title (fr)
SUBSTRAT DE DISSIPATION DE CHALEUR ET DISPOSITIF DE CHAUFFAGE À THERMISTANCE À COEFFICIENT DE TEMPÉRATURE
POSITIF DU TYPE À JOINT D'ÉTANCHÉITÉ

Publication
EP 3154311 A1 20170412 (EN)

Application
EP 16732215 A 20160513

Priority
• CN 201510482014 A 20150803
• CN 2016081996 W 20160513

Abstract (en)
Disclosed is a radiating matrix and a sealed PTC thermister heater. The radiating matrix includes a cavity body with a containing cavity, a plurality of radiating fins are fixed in the middle of the external surface of the top and the external surface of the bottom of the cavity body; a first positioning rib extending along a length direction of the cavity body is arranged at the upper part and the lower part of the inner wall of the left side of the cavity body in the containing cavity respectively, correspondingly, a second positioning rib extending along a length direction of the cavity body is arranged at the upper part and the lower part of the inner wall of the right side of the cavity body in the containing cavity respectively, the internal surface of the left side of the containing cavity between the two first positioning ribs is an outwards convex arc surface, the internal surface of the right side of the containing cavity between the two second positioning ribs is also an outwards convex arc surface, and the outer wall of the left side and the outer wall of the right side of the cavity body are of a slot-shaped structure extending along the length direction of the cavity body; and an interval between the first positioning ribs and an interval between the two second positioning ribs are both smaller than the thickness of the PTC heating component, an interval between the first positioning rib and the second positioning rib at the upper part and an interval between the first positioning rib and the second positioning rib at the lower part are both smaller than the length of the radiating ribs. The sealed PTC thermister heater according to the embodiments can work for a long term without electrical safety hidden danger.

IPC 8 full level
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Cited by
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Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 3154311 A1 20170412; **EP 3154311 A4 20171129**; **EP 3154311 B1 20191211**; CN 105025596 A 20151104; CN 105025596 B 20220524;
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