

Title (en)
ENERGY SAVING ELECTRIC HEATING FAN AND THE MAKING METHOD OF ITS ELECTRIC HEATING ELEMENT

Title (de)
STROMSPARENDER ELEKTRISCHER HEIZLÜFTER UND HERSTELLUNGSVERFAHREN FÜR DESSEN ELEKTROHEIZELEMENT

Title (fr)
VENTILATEUR DE DISPOSITIF DE CHAUFFAGE ÉLECTRIQUE ÉCONOMISANT DE L'ÉNERGIE ET PROCÉDÉ DE FABRICATION DE CET ÉLÉMENT DE CHAUFFAGE ÉLECTRIQUE

Publication
EP 2161511 A1 20100310 (EN)

Application
EP 07816436 A 20070926

Priority
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Abstract (en)
An energy-saving electrothermal blower and a method for manufacturing the electrothermal element of the energy-saving electrothermal blower. The energy-saving electrothermal blower is composed of: a fan and a motor for driving it fixed in the shell (1); an insulating plate with the electrothermal element in the shell, and a connecting circuit for connection of the electrothermal element with a power supply. Mica is used as the basic material of the said electrothermal element (2) and is coated or screen printed with a thin layer of high temperature resistant strong glue and heating film and electrode. The main raw material of the slurry of the heating film is one or more of silicon oxide, alumina, silicon carbide, calcium, and potassium; the slurry is made by said main raw material, which is sintered at a high temperature and then broken into pieces and screened to powder and then mixed with a high temperature resistant organic glue slurry having the same expansion coefficient as the mica. The energy-saving electrothermal blower has some advantages such as: high exothermic efficiency, low noise and energy-saving and the like, and can be used as an electric blower in hairdressing and as an air heater used for household warming.

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