

Title (en)
ELECTRICAL DEVICES COMPRISING PTC ELEMENTS

Publication
EP 0144187 B1 19920311 (EN)

Application
EP 84307984 A 19841116

Priority
US 55264983 A 19831117

Abstract (en)
[origin: EP0144187A1] A laminar electrical heater in which at least one of the electrodes is in the form of an elongate element forming part of a fabric and which comprises a PTC element, e.g. of a conductive polymer, to render the heater self-regulating. Preferably the heater is prepared by weaving together (a) a first elongate element comprising a first electrode (1) and a layer (11) of PTC conductive polymer surrounding that electrode, and (b) a second elongate element comprising a second electrode (2). The resulting fabric can if desired be laminated to a sheet of a ZTC (3) conductive polymer. A shrinkable fabric heater can be made by incorporating a heat-shrinkable non-conductive filament (4) into the fabric, perpendicular to both electrodes, and is useful for example for enclosing splices in telephone cables.

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IPC 8 full level
H05B 3/14 (2006.01); **H05B 3/20** (2006.01); **H05B 3/34** (2006.01)

CPC (source: EP)
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Cited by
EP0202896A3; EP0223404A1; US4689475A; US4800253A; US9918356B2; EP3154313A1; ITUB20154266A1; WO2013072338A3

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