

Title (en)

Laminar Conductive polymer devices.

Title (de)

Lamellenförmige Vorrichtungen mit leitfähiger Polymermasse.

Title (fr)

Dispositifs lamellés avec polymère conducteur.

Publication

EP 0158410 A1 19851016 (EN)

Application

EP 85300415 A 19850122

Priority

- US 57309984 A 19840123
- US 62894584 A 19840710

Abstract (en)

Electrical devices, especially self-regulating flexible sheet heaters and circuit protection devices, comprise a laminar element (11) of a melt-shaped PTC conductive polymer, and a plurality of electrodes (12, 13, 14) which are positioned that the predominant direction of current flow is parallel to the faces of the laminar element (11). The electrodes (12, 13, 14) are preferably positioned on one face of the laminar element and are applied by a printing process. Preferably the ratio of the average width of the electrodes to the distance between them is at least 0.1:1.

IPC 1-7

H05B 3/10; **H05B 1/02**; **H01C 7/02**

IPC 8 full level

H01C 7/02 (2006.01); **H01C 7/13** (2006.01); **H05B 3/14** (2006.01); **H05B 3/34** (2006.01)

CPC (source: EP)

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Citation (search report)

- US 4034207 A 19770705 - TAMADA MINORU, et al
- US 4426339 A 19840117 - KAMATH HUNDI P [US], et al
- US 4037082 A 19770719 - TAMADA MINORU, et al
- DE 2946842 A1 19810521 - SIEMENS AG [DE]
- US 4177446 A 19791204 - DIAZ STEPHEN H [US]
- EP 0087884 A1 19830907 - RAYCHEM CORP [US]
- EP 0038718 A1 19811028 - RAYCHEM CORP [US]

Cited by

US6215636B1; US4801784A; DE4010743A1; AU594725B2; EP0340361A3; US5117094A; DE4009677A1; US4884163A; EP0217512A1; US4722853A; US5643480A; EP0223404A1; US4689475A; US4800253A; US11034332B2; WO9323968A1; WO2017167653A1; WO2016073144A1; WO9003257A1; EP0209224B1

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