

Title (en)
ELECTRIC HEATERS

Title (de)
HEIZUNGSWIDERSTÄNDE

Title (fr)
RESISTANCES DE CHAUFFAGE ELECTRIQUES

Publication
EP 1013148 B1 20020123 (EN)

Application
EP 98904301 A 19980217

Priority
• GB 9800488 W 19980217
• GB 9703225 A 19970217

Abstract (en)
[origin: GB2322273A] The resistive track of a thick film heater comprises at least two distinct sections connected by a bridge 11 of lower resistance material eg silver to avoid overheating at sharp bends. The width of the tracks 7a-7f may vary so as to maintain a constant temperature profile. The arrangement may define areas of differing heat levels as shown in fig 5 and the track conductivity may be varied by over/under printing with low resistance material 8. Low resistance bridges may be used to link tracks broken around obstructions such as connecting boss 13. Various terminal locations are disclosed.

IPC 1-7
H05B 3/82; **H05B 3/26**; **H05B 3/74**

IPC 8 full level
H05B 3/26 (2006.01); **H05B 3/74** (2006.01); **H05B 3/82** (2006.01)

CPC (source: EP)
H05B 3/262 (2013.01); **H05B 3/748** (2013.01); **H05B 3/82** (2013.01); **H05B 2203/013** (2013.01); **H05B 2203/017** (2013.01);
H05B 2203/037 (2013.01)

Cited by
IT202100029543A1; US11668470B2; US11253100B2; WO2023031982A1; WO2023031981A1

Designated contracting state (EPC)
DE ES FR GB IT NL

DOCDB simple family (publication)
GB 2322273 A 19980819; **GB 2322273 B 20010530**; **GB 9703225 D0 19970409**; AU 6224398 A 19980908; CN 1130108 C 20031203;
CN 1248384 A 20000322; CN 2325704 Y 19990623; DE 69803586 D1 20020314; DE 69803586 T2 20020808; EP 1013148 A1 20000628;
EP 1013148 B1 20020123; EP 1161120 A2 20011205; EP 1161120 A3 20040121; ES 2171290 T3 20020901; HK 1029484 A1 20010330;
WO 9836618 A1 19980820; ZA 981287 B 19990817

DOCDB simple family (application)
GB 9703225 A 19970217; AU 6224398 A 19980217; CN 98208819 U 19980217; CN 98802622 A 19980217; DE 69803586 T 19980217;
EP 01115655 A 19980217; EP 98904301 A 19980217; ES 98904301 T 19980217; GB 9800488 W 19980217; HK 00108266 A 20001221;
ZA 981287 A 19980217