

Title (en)

Ceramic heating element, its manufacturing method and its uses

Title (de)

Keramische Heizeinrichtung, Verfahren zu deren Herstellung und deren Verwendung

Title (fr)

Élément chauffant en céramique, sa méthode de fabrication et ses applications

Publication

**EP 0720416 B1 20040324 (DE)**

Application

**EP 95120498 A 19951222**

Priority

- DE 4447074 A 19941229
- DE 19547373 A 19951219

Abstract (en)

[origin: EP0720416A2] The heating device has an electric heating element (13) embedded between a pair of ceramic carrier foils (11,12), provided by a resistance heating conductor (15) and a pair of end leads (16,17). The electric heating element can be stamped out in one piece from an electrically-conductive ceramics foil, which is then laminated with the carrier foils, or alternatively the resistance heating conductor is formed via a thick-film technique, before combining it with stamped out low-ohmic leads.

IPC 1-7

**H05B 3/14**; **F23Q 7/22**

IPC 8 full level

**F23Q 7/22** (2006.01); **H05B 3/14** (2006.01)

CPC (source: EP)

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Citation (examination)

DE 3924777 A1 19900208 - NGK SPARK PLUG CO [JP]

Cited by

EP1133214A4; EP1972878A4; WO2009012239A3; WO2007080909A1; US8411723B2; US6452137B1; US8061402B2; US8070899B2; US8089337B2; US8557082B2; US9486988B2

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