

Title (en)
VITROCERAMIC HEATING ELEMENT

Publication
EP 0319079 B1 19930929 (FR)

Application
EP 88202637 A 19881123

Priority
FR 8716255 A 19871124

Abstract (en)
[origin: EP0319079A1] Vitroceramic heating element comprising at least one flat electrical heating body arranged under a vitroceramic plate and which is capable of being brought to a temperature lying between the ambient temperature and 650 DEG approximately forming a heating source, characterised in that the electrical heating body is produced by depositing silk-screen printable layers of compounds on the so-called lower surface, opposite the work surface of the vitroceramic plate, these layers exhibiting an expansion coefficient close to that of the vitroceramic material at high temperatures and which is capable of being brought to temperatures of the order of 650 DEG C through thermal dissipation, and in that it consists, starting from this lower surface, of a first layer 21 of a material constituting an electrical insulation at high temperatures, of a second layer 22 of a conducting material to form the two input and output electrical supply lines C1 and C2 for the heating body and of a third layer 23 of a resistive material to constitute a heating resistor R, arranged between the lines C1 and C2 in the form of a circuit, and designed to distribute the heat uniformly throughout the surface of the source. <IMAGE>

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H05B 3/74

IPC 8 full level
H05B 3/84 (2006.01); **H05B 3/20** (2006.01); **H05B 3/74** (2006.01)

CPC (source: EP US)
H05B 3/748 (2013.01 - EP US); **H05B 2203/013** (2013.01 - EP US); **H05B 2203/017** (2013.01 - EP US)

Cited by
EP0967838A1; US5252809A; EP0481162A3; US5508495A; EP3614807A1; EP3614799A1; EP3439427A1; US11672376B2; US11647567B2; EP3364715A1; EP3614801A1; US10917942B2; US10904952B2; US11397007B2

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