

Title (en)
HEATING ARRANGEMENT USING A P.T.C. RESISTANCE HEATING ELEMENT

Publication
EP 0026457 B1 19831019 (DE)

Application
EP 80105756 A 19800924

Priority
DE 2939505 A 19790928

Abstract (en)
[origin: EP0026457A2] 1. A heating device having a plate-shaped cold conductor (ceramic PTC) heating element which is metallized on both its flat faces and is of sandwich formation, plates made of sintered aluminium oxide adjoining both flat faces of the heating element, characterised in that for a one-piece sandwich (Figure 1), the surfaces of the aluminium oxide plates (2), which are respectively located opposite the plate faces (11), are metallized so as to be solderable ; that between the plate surfaces (11) and these metallized surfaces, a layer of ductile solder is in each case provided by means of which the heating element (1) and the aluminium oxide plates (2) are soldered to one another ; and that the terminal tags (22, 23) are soldered to the aluminium oxide plates (2) by means of the solder.

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IPC 8 full level
H05B 3/06 (2006.01); **H05B 3/14** (2006.01); **H05B 3/22** (2006.01)

CPC (source: EP)
H05B 3/06 (2013.01); **H05B 3/141** (2013.01); **H05B 3/22** (2013.01)

Cited by
US2020163161A1; CN114054923A; CN114071810A; DE4405040A1; US5633978A; EP1500379A1; FR3073116A1; CN113993231A; DE102019208130A1; DE102019204665A1; CN111669847A; EP0187320A1; US4783587A; US4954696A; EP1916874A3; EP1916875A3; EP1768458A1; US7777161B2; US8395088B2; US7576305B2; US7145113B2; WO9826222A1; EP1916875A2; US11676745B2; US11721456B2; EP2637475A1; CN103313443A; EP1768457A1; EP0100715A1; FR2531595A1; CN103313444A; EP3334245A1; EP3334246A1; EP3334244A1; US10576805B2; US9839072B2; US10993287B2; US7667166B2; US10429099B2; US10724763B2; US10760822B2; EP3584808B1

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