

Title (en)
Sensor for cooking vessel detection

Title (de)
Sensor zur Kochgefäßserkennung

Title (fr)
Capteur pour la détection d'un récipient de cuisson

Publication
EP 1379105 A3 20041103 (DE)

Application
EP 03022466 A 19970118

Priority
• DE 19603845 A 19960205
• EP 99123892 A 19970118
• EP 97100766 A 19970118

Abstract (en)
[origin: EP0788293A2] The heater (11) is provided with an inductive detector (31) which operates on the principle of detuning of an oscillatory circuit by the presence of e.g. a saucepan. One or more heating zones (18,19) are switched-on accordingly for a smaller or a larger vessel. The sensor (30) is a single turn of thick wire extending over the heating zones close to the underside of the hotplate. For a twin-circuit heater the loop has precisely shaped peripheral regions (37,38) in these zones so that the signal exhibits a stepped transition between them.

IPC 1-7
H05B 1/02; **H05B 3/74**

IPC 8 full level
H05B 3/00 (2006.01); **H05B 1/02** (2006.01); **H05B 3/68** (2006.01); **H05B 3/74** (2006.01)

CPC (source: EP US)
H05B 3/746 (2013.01 - EP US); **H05B 2213/05** (2013.01 - EP US)

Citation (search report)
• [A] EP 0469189 A2 19920205 - OSKAR LOCHER AG [CH]
• [A] DE 4235085 A1 19930422 - KLASCHKA IND ELEKTRONIK [DE]
• [A] DE 4224934 A1 19940203 - BOSCH SIEMENS HAUSGERAETE [DE]
• [A] DE 3733108 C1 19890223 - BOSCH SIEMENS HAUSGERAETE
• [A] EP 0490289 A1 19920617 - EGO ELEKTRO BLANC & FISCHER [DE]
• [A] EP 0442275 A2 19910821 - EGO ELEKTRO BLANC & FISCHER [DE]
• [A] DE 3711589 A1 19881027 - KUEPPERSBUSCH [DE]
• [A] WHITAKKER J C: "THE ELECTRONICS HANDBOOK", ELECTRONICS HANDBOOK, XX, XX, 1996, pages 1343 - 1344, XP002968664

Designated contracting state (EPC)
AT CH DE ES FR GB IT LI SE

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EP 0788293 A2 19970806; **EP 0788293 A3 19980107**; **EP 0788293 B1 20010808**; AT E204114 T1 20010815; AT E263475 T1 20040415; DE 19603845 A1 19970807; DE 19603845 B4 20100722; DE 59704217 D1 20010913; DE 59711476 D1 20040506; EP 0982973 A2 20000301; EP 0982973 A3 20000503; EP 0982973 B1 20040331; EP 0982973 B2 20090211; EP 1379105 A2 20040107; EP 1379105 A3 20041103; ES 2162136 T3 20011216; ES 2218941 T3 20041116; ES 2218941 T5 20090601; JP H09223572 A 19970826; US 5893996 A 19990413

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