

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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