

Title (en)  
Hotplate with sensors

Title (de)  
Kochfeld mit Sensoren

Title (fr)  
Champ de cuisson doté de capteurs

Publication  
**EP 2312908 A1 20110420 (DE)**

Application  
**EP 10187083 A 20101011**

Priority  
• ES 200931011 A 20091118  
• EP 09382204 A 20091013  
• EP 10187083 A 20101011

Abstract (en)  
The hob has heating elements (12a) i.e. inductors, arranged under a cover panel (10), and sensors (16) e.g. inductive-, capacitive- and/or optical sensors, for detecting a cooking utensil that is positioned on the cover panel. The sensors are arranged in a layer (18) between the cover panel and the heating elements, where a distance between the adjacent sensors is smaller than a distance between the adjacent heating elements. The heating elements and sensors arranged in corresponding patterns, and the sensors are attached on a rear side of the cover panel.

Abstract (de)  
Die Erfindung geht aus von einem Kochfeld mit einer Abdeckplatte (10), mehreren unter der Abdeckplatte (10) angeordneten Heizelementen (12a - 12d) und mehreren Sensoren (16) zum Detektieren eines auf die Abdeckplatte (10) aufgestellten Kochgeschirrelements (14). Um ein kostengünstiges und montagefreundliches Kochfeld mit einer hochauflösenden Topfdetektion zu ermöglichen, wird vorgeschlagen, dass die Sensoren (16) in einer Schicht (18) zwischen der Abdeckplatte (10) und den Heizelementen (12a - 12d) angeordnet sind.

IPC 8 full level  
**H05B 6/06** (2006.01)

CPC (source: EP ES)  
**H05B 6/062** (2013.01 - EP ES); **H05B 2213/05** (2013.01 - EP)

Citation (search report)  
• [XY] DE 3733108 C1 19890223 - BOSCH SIEMENS HAUSGERAETE  
• [Y] DE 102006043182 A1 20070419 - BSH BOSCH SIEMENS HAUSGERAETE [DE]  
• [A] EP 1087641 A2 20010328 - CHERRY GMBH [DE]  
• [A] EP 1206164 A2 20020515 - WHIRLPOOL CO [US]

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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

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**EP 2312908 A1 20110420; EP 2312908 B1 20170802;** ES 2376566 A1 20120315; ES 2376566 B1 20130129; ES 2639022 T3 20171025

DOCDB simple family (application)  
**EP 10187083 A 20101011;** ES 10187083 T 20101011; ES 200931011 A 20091118