

Title (en)

Sensor controlled hot plate with sensor arranged below the plate

Title (de)

Sensorgesteuertes Kochfeld mit unterhalb der Kochfeldplatte angeordneter Sensoreinheit

Title (fr)

Régulateur de plaque chauffante à l'aide d'un détecteur situé en dessous de la plaque

Publication

EP 1006756 B1 20020605 (DE)

Application

EP 99123600 A 19991126

Priority

DE 19856140 A 19981204

Abstract (en)

[origin: EP1006756A1] The value of the transmission of a cooking plate (3) in a spectral measurement aperture (18) towards the infrared (IR) radiation sensor (19) is smaller than 10% approaching 0%. A reflection-layer (17) is deposited on wall of a measurement hole (15) to increase of sensitivity the measurement. Under a cooking plate (3), a measurement aperture (18) passes the heat radiation towards the IR sensor (19).

IPC 1-7

H05B 6/06; **H05B 6/08**; **H05B 6/12**; **H05B 1/02**; **H05B 3/00**; **H05B 3/68**; **G02B 6/00**

IPC 8 full level

G02B 6/00 (2006.01); **H05B 1/02** (2006.01); **H05B 3/00** (2006.01); **H05B 3/68** (2006.01); **H05B 3/74** (2006.01); **H05B 6/06** (2006.01); **H05B 6/08** (2006.01); **H05B 6/12** (2006.01)

CPC (source: EP US)

H05B 3/746 (2013.01 - EP US); **F24C 7/083** (2013.01 - EP); **F24C 15/105** (2013.01 - EP); **H05B 2213/07** (2013.01 - EP US)

Cited by

DE102013102112A1; DE102013102115A1; EP2405712A4; EP2117281A3; EP2775786A1; EP2775791A1; US8581159B2; US9414443B2; WO2008148529A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1006756 A1 20000607; **EP 1006756 B1 20020605**; **EP 1006756 B2 20100217**; DE 19856140 A1 20000608; DE 59901608 D1 20020711; ES 2178337 T3 20021216; ES 2178337 T5 20100531; US 6225607 B1 20010501

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EP 99123600 A 19991126; DE 19856140 A 19981204; DE 59901608 T 19991126; ES 99123600 T 19991126; US 45560199 A 19991206