

Title (en)  
Heating apparatus.

Title (de)  
Heizapparat.

Title (fr)  
Appareil de chauffage.

Publication  
**EP 0138314 A1 19850424 (EN)**

Application  
**EP 84305327 A 19840806**

Priority  
GB 8323387 A 19830831

Abstract (en)  
Heating apparatus includes four tungsten-halogen lamps (5) mounted beneath a layer (11) of glass ceramic, which forms the top surface of a cooking hob. An electronic temperature sensing device (12), which is preferably a thermistor or thermocouple, is arranged so as to be in contact with, or closely adjacent to, the undersurface of the layer (11), so that the device (12) produces a signal (13) indicative of the operating temperature of the undersurface of the layer (11). The signal (13) is compared with a reference signal indicative of the maximum operating temperature of the glass ceramic and the lamps (5) are de-energised when the signal (13) exceeds the reference signal.

IPC 1-7  
**F24C 7/08**; H05B 1/02; H05B 3/68; H05B 3/74

IPC 8 full level  
**H05B 3/10** (2006.01); **F24C 15/10** (2006.01); **H05B 3/74** (2006.01)

CPC (source: EP)  
**F24C 15/105** (2013.01); **H05B 3/744** (2013.01); **H05B 3/746** (2013.01); **H05B 2213/04** (2013.01)

Citation (search report)  
• US 3646321 A 19720229 - SIEGLA DONALD C  
• DE 2203661 A1 19730802 - SIEMENS ELEKTROGERAETE GMBH  
• US 3355574 A 19671128 - BASSETT JR ARTHUR T  
• AT 312759 B 19740125 - ELEKTRA BREGENZ GMBH  
• DE 2608295 A1 19770908 - BBC BROWN BOVERI & CIE  
• PATENT ABSTRACTS OF JAPAN, unexamined applications, Section M, vol. 6, no. 1, January 7, 1982 THE PATENT OFFICE JAPANESE GOVERNMENT page 79 M 105 & JP-A-56-124 838 (tokyo shibaura)

Cited by  
EP0308388A1; DE10356432A1; EP0379782A3; EP0786923A3; FR2706022A1; EP0471171A3; US5352864A; GB2228732A; GB2228732B; EP0586104A1; US5425353A; US7417207B2; US7569798B2; WO9516334A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0138314 A1 19850424**; AU 3254984 A 19850307; DK 392184 A 19850302; DK 392184 D0 19840815; GB 8323387 D0 19831005; JP S6070685 A 19850422; ZA 846262 B 19850626

DOCDB simple family (application)  
**EP 84305327 A 19840806**; AU 3254984 A 19840830; DK 392184 A 19840815; GB 8323387 A 19830831; JP 17689384 A 19840827; ZA 846262 A 19840813