

Title (en)

Radiative heating body for cooking apparatuses.

Title (de)

Strahlheizkörper für Kochgeräte.

Title (fr)

Élément chauffant à rayonnement pour appareils de cuisson.

Publication

**EP 0176063 A1 19860402 (DE)**

Application

**EP 85111989 A 19850921**

Priority

- DE 3434839 A 19840922
- DE 3503648 A 19850204

Abstract (en)

[origin: ES8701360A1] A radiant heater for cooking appliances with a glass ceramic plate has both bright light-radiating heating elements such as high temperature halogen lamps emitting substantial radiation in the visible range, and also darker glowing radiating elements operable at lower temperatures and radiating emitted light primarily in the infrared region. The bright visible light radiating element and the darker infrared glowing elements are connected in series with one another, whereby the series resistance of the dark or infrared radiator limits initial current loading, and after the radiant elements reach operating temperatures, the infrared radiant element assumes a reduced portion of the total resistance. The visible light and glowing infrared series-connected elements can be interleaved or the visible element can define a boundary for a cooking element. The bright visible and darker glowing elements can be defined by a plurality of elements connectable in parallel and series combinations by a seven-mode switching control, and can be embodied in a variety of configurations in which the visible light and infrared glowing elements are operable or are selectably operable.

Abstract (de)

Ein Strahlheizkörper (11) zur Beheizung einer Glaskeramik-Kochplatte enthält als elektrische Heizung Hellstrahler (20) mit hoher Strahlungstemperatur im sichtbaren Bereich, die durch gerade Halogen-Glühlampen-Stäbe gebildet werden. Mehrere dieser Glühlampen sind in Mehreck-Anordnung im Randbereich des runden Strahlheizkörpers angeordnet.

IPC 1-7

**H05B 3/74**; **F24C 7/00**; **H05B 3/68**

IPC 8 full level

**F24C 7/04** (2006.01); **F24C 7/06** (2006.01); **H05B 3/68** (2006.01); **H05B 3/74** (2006.01); **H05B 3/76** (2006.01)

CPC (source: EP US)

**H05B 3/742** (2013.01 - EP US); **H05B 3/744** (2013.01 - EP US)

Citation (search report)

- GB 2132060 A 19840627 - THORN EMI DOMESTIC APPLIANCES
- GB 1273023 A 19720503 - ELECTRICITY COUNCIL [GB]
- US 3355574 A 19671128 - BASSETT JR ARTHUR T
- GB 1282656 A 19720719 - THERMO ELECTRON CORP [US]

Cited by

FR2642602A1; FR2613464A1; EP0300548B1

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0176063 A1 19860402**; **EP 0176063 B1 19900530**; AU 4764185 A 19860327; AU 584356 B2 19890525; EP 0176027 A1 19860402; EP 0176027 B1 19890201; ES 547144 A0 19861116; ES 8701360 A1 19861116; JP H081826 B2 19960110; JP S6180788 A 19860424; US 4700051 A 19871013; US 4808798 A 19890228; YU 148385 A 19880229

DOCDB simple family (application)

**EP 85111989 A 19850921**; AU 4764185 A 19850920; EP 85111791 A 19850918; ES 547144 A 19850920; JP 20673685 A 19850920; US 77736585 A 19850918; US 8534187 A 19870924; YU 148385 A 19850919