

Title (en)

METHOD FOR CONTROLLING A COOKING PROCESS ON A CERAMIC HOB, AND CERAMIC HOB FOR CARRYING OUT SAID METHOD

Title (de)

VERFAHREN ZUR STEUERUNG EINES KOCHPROZESSES BEI EINEM KOCHFELD UND KOCHFELD ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCEDE POUR COMMANDER UN PROCESSUS DE CUISSON SUR UNE TABLE DE CUISSON ET TABLE DE CUISSON PERMETTANT DE METTRE EN OEUVRE CE PROCEDE

Publication

EP 1704754 B1 20070711 (DE)

Application

EP 05700769 A 20050110

Priority

- EP 2005000122 W 20050110
- DE 102004002058 A 20040115

Abstract (en)

[origin: WO2005069693A1] The invention relates to a method for controlling a cooking process on a ceramic hob, and to a ceramic hob comprising a plate, especially consisting of glass ceramics, that has a material strength defined by a flat upper side and a flat lower side, perpendicular to the main expansion directions thereof. Said ceramic hob comprises at least one cooking area that can be heated by means of a heating device arranged beneath the plate in the assembly position thereof. Said heating device comprises an electrical control system for controlling the heating capacity of the heating device, and first and second heat sensor units arranged beneath the plate. The aim of the invention is to provide a method for controlling a cooking process on a ceramic hob, wherein the influence of the cooking pot (14) is taken into account. To this end, according to the inventive method, essentially a heat flow dissipated downwards from the plate (2) only in the cooking area (4) is detected by means of the first heat sensor unit (6.1), and essentially a heat flow dissipated downwards from the plate (2) and a cooking pot placed thereon in the cooking area (4) is detected by means of the second heat sensor unit (6.2). A comparison value is formed in the electrical control system from the output signals of the two heat sensor units (6.1, 6.2), and is compared with previously determined and stored reference values, and the heating capacity of the heating device (16) is controlled according to said comparison.

IPC 8 full level

H05B 3/74 (2006.01)

CPC (source: EP)

H05B 3/746 (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005069693 A1 20050728; AT E367074 T1 20070815; DE 102004002058 B3 20050908; DE 502005001014 D1 20070823; EP 1704754 A1 20060927; EP 1704754 B1 20070711

DOCDB simple family (application)

EP 2005000122 W 20050110; AT 05700769 T 20050110; DE 102004002058 A 20040115; DE 502005001014 T 20050110; EP 05700769 A 20050110