

Title (en)

HEATING CONTROL CIRCUIT FOR INDUCTION COOKING APPLIANCE, AND INDUCTION COOKING APPLIANCE

Title (de)

HEIZSTEUERSCHALTUNG FÜR INDUKTIONSKOCHGERÄT UND INDUKTIONSKOCHGERÄT

Title (fr)

CIRCUIT DE COMMANDE DE CHAUFFAGE POUR APPAREIL DE CUISSON À INDUCTION, ET APPAREIL DE CUISSON À INDUCTION

Publication

EP 3678454 A4 20201118 (EN)

Application

EP 18885968 A 20180428

Priority

- CN 201711297137 A 20171208
- CN 2018085002 W 20180428

Abstract (en)

[origin: EP3678454A1] Embodiments of the present invention provide a heating control circuit for an induction cooking appliance, and an induction cooking appliance, pertaining to the field of electronic appliances. The heating control circuit comprises two or more control circuits, wherein one of the two or more control circuits comprises two or more coil plates, while each of the other control circuits, excluding the aforementioned one control circuit, each comprise one or more coil plates, and each of the control circuits respectively comprises a voltage source, a power switch transistor, and a capacitor; one or more switches connected within the two or more control circuits and between the two or more control circuits; and a controller configured to control the power switch transistor and the one or more switches in each of the control circuits, so as to provide heating using a series-connected combination consisting of any two or more of the coil plates in the two or more control circuits. The invention achieves precision control of different heating positions in the same region.

IPC 8 full level

H05B 6/06 (2006.01)

CPC (source: CN EP)

H05B 1/0202 (2013.01 - CN); **H05B 1/0261** (2013.01 - CN); **H05B 6/065** (2013.01 - CN EP); **H05B 6/44** (2013.01 - CN)

Citation (search report)

- [XYI] EP 1868417 A1 20071219 - BRANDT IND [FR]
- [XYI] EP 2515608 A2 20121024 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- [Y] JP H0333993 U 19910403
- [Y] WO 2015150967 A1 20151008 - BSH HAUSGERAETE GMBH [DE]
- See references of WO 2019109586A1

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

DOCDB simple family (publication)

EP 3678454 A1 20200708; **EP 3678454 A4 20201118**; CN 108156684 A 20180612; CN 108156684 B 20190705; WO 2019109586 A1 20190613

DOCDB simple family (application)

EP 18885968 A 20180428; CN 201711297137 A 20171208; CN 2018085002 W 20180428