Title (en)

INDUCTION HEATING COOKER

Title (de)

INDUKTIONSHERD

Title (fr)

CUISEUR À CHAUFFAGE PAR INDUCTION

Publication

EP 2760251 A4 20150909 (EN)

Application

EP 12834381 A 20120412

Priority

- JP 2011204220 A 20110920
- JP 2012002527 W 20120412

Abstract (en)

[origin: EP2760251A1] A plurality of inverter circuits 6a to 6e that supply high-frequency power to a plurality of heating coils 16a to 16e, power detecting means 14a to 14e for detecting power output from the inverter circuits 6a to 6e to the heating coils 16a to 16e or power input to the inverter circuits 6a to 6e, output current detecting means 12a to 12e that detect output currents of the inverter circuits 6a to 6e, and load resistance detecting means 20 that perform load detection using results of detection of the power detecting means 14a to 14e and the output current detecting means 14a to 14e are provided. Every time heating power setting is changed, control means 19 performs, by the load resistance detecting means 20, load detection by separately and individually allowing the heating coils or inverter circuits to be in an individual conduction states. The control means 19 sets power distribution for each of the heating coils 16a to 16e or each of the inverter circuits 6a to 6e, on the basis of the result of load detection.

IPC 8 full level

H05B 6/06 (2006.01)

CPC (source: EP)

H05B 6/062 (2013.01); H05B 2213/05 (2013.01)

Citation (search report)

- [I] FR 2863039 A1 20050603 - BRANDT IND [FR]
- [I] EP 0716560 A1 19960612 - CIDELCEM IND [FR]
- [I] WO 2010128720 A1 20101111 - LG ELECTRONICS INC [KR], et al & EP 2428733 A1 20120314 - LG ELECTRONICS INC [KR]
- [I] JP 2009158225 A 20090716 - MITSUBISHI ELECTRIC CORP
- [I] EP 2059091 A2 20090513 - SAMSUNG ELECTRONICS CO LTD [KR]
- See references of WO 2013042288A1

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EP3527892A4; US11229092B2

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

DOCDB simple family (publication)

EP 2760251 A1 20140730; **EP 2760251 A4 20150909**; **EP 2760251 B1 20181114**; JP 2015128078 A 20150709; JP 2015144130 A 20150806; JP 5711379 B2 20150430; JP 6005197 B2 20161012; JP 6005198 B2 20161012; JP WO2013042288 A1 20150326; WO 2013042288 A1 20130328

DOCDB simple family (application)

EP 12834381 A 20120412; JP 2012002527 W 20120412; JP 2013534569 A 20120412; JP 2015043772 A 20150305; JP 2015043773 A 20150305