

Title (en)

INDUCTION HOB AND METHOD FOR OPERATING AN INDUCTION HOB

Title (de)

INDUKTIONSKOCHFELD UND VERFAHREN ZUR BEDIENUNG EINES INDUKTIONSKOCHFELDS

Title (fr)

PLAQUE DE CUISSON À INDUCTION ET PROCÉDÉ DE FONCTIONNEMENT D'UNE TELLE PLAQUE

Publication

**EP 3405004 A1 20181121 (EN)**

Application

**EP 17170974 A 20170515**

Priority

EP 17170974 A 20170515

Abstract (en)

The invention relates to an induction hob comprising a circuitry (1a) for powering at least one induction coil (6), the circuitry (1a) comprising a power circuit portion (7) with at least one switching element (4, 5) adapted to provide pulsed electric power to said induction coil (6) and an oscillating circuit portion (9), said induction coil (6) being electrically coupled with said power circuit portion (7) and said oscillating circuit (9), wherein said induction hob comprises a control entity (10), said control entity (10) being configured to receive first information correlated with a first voltage provided at said power circuit portion (7) and second information correlated with a second voltage correlated with said oscillating circuit (9), said control entity (10) being further configured to calculate information regarding a peak value and a power factor of the electric current provided through said induction coil (6) based on said received first and second information.

IPC 8 full level

**H05B 6/06** (2006.01)

CPC (source: EP)

**H05B 6/062** (2013.01)

Citation (search report)

- [A] US 2014197160 A1 20140717 - SHAN MINGWEI [US], et al
- [A] US 2009057299 A1 20090305 - PASTORE CRISTIANO [IT], et al
- [A] GB 2524102 A 20150916 - EISERGY LTD [IE]

Cited by

EP3799524A1; US11665791B2; WO2021063731A1

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 3405004 A1 20181121; EP 3405004 B1 20191204**

DOCDB simple family (application)

**EP 17170974 A 20170515**