

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 pour faire fonctionner une telle plaque

Publication

**EP 2999304 A1 20160323 (EN)**

Application

**EP 14185260 A 20140918**

Priority

EP 14185260 A 20140918

Abstract (en)

The invention relates to an induction hob comprising a power stage (10) with at least one switching element (20) for enabling an alternating current flow through an induction element (21) and a control unit (11) providing enabling signal (P) comprising pulses with a variable pulse duration to the switching element (20) for enabling said current flow through said induction element (21), wherein the pulse duration (#P) is changed between a minimum value (#P min ) and a maximum value (#P max ) in order to adjust the power provided to the induction element (21). The control unit (11) is adapted to reduce the pulse duration (#P) of a set of enabling signal pulses (P) to a reduced pulse duration (#P red ) lower than minimum value (#P min ) when starting the heating process in order to reduce acoustic noise.

IPC 8 full level

**H05B 6/06** (2006.01)

CPC (source: EP)

**H05B 6/062** (2013.01)

Citation (search report)

- [X] WO 2013061595 A1 20130502 - PANASONIC CORP [JP]
- [X] GB 2108786 A 19830518 - SANYO ELECTRIC CO
- [A] JP 2009295392 A 20091217 - TOSHIBA HOME TECH CORP
- [A] JP 2008204884 A 20080904 - MATSUSHITA ELECTRIC IND CO LTD

Cited by

EP3582586A1; WO2019238447A1; US11825585B2; EP2999307B1

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)

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DOCDB simple family (application)

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