

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 2999307 B1 20181024 (EN)**

Application

**EP 15176589 A 20150714**

Priority

- EP 14185260 A 20140918
- EP 15176589 A 20150714

Abstract (en)

[origin: EP2999304A1] 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 (opposition)

Opponent : Eisenführ Speiser Patentanwälte Rechtsanwälte PartGmbB

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- GB 2108768 A 19830518 - WESTERN ELECTRIC CO
- JP 2009295392 A 20091217 - TOSHIBA HOME TECH CORP
- JP 2008204884 A 20080904 - MATSUSHITA ELECTRIC IND CO LTD
- EP 2999304 A1 20160323 - ELECTROLUX APPLIANCES AB [SE]
- EP 2747514 A1 20140625 - FAGORBRANDT SAS [FR]

Designated contracting state (EPC)

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