

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)

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Cited by

EP3582586A1; WO2019238447A1; US11825585B2; EP2999307B1

Designated contracting state (EPC)

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