

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

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Application

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Priority

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Abstract (en)

[origin: EP2999303A1] 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 an enabling signal (P) to the switching element (20) for enabling said current flow through said induction element (21). The induction hob further comprises a trigger generation unit (12), said trigger generation unit (12) receiving an oscillating voltage (Vc) provided at a first monitoring point (23) of the power stage (10) and a reference voltage (Vdc) provided at a second monitoring point (24) of the power stage (10), the trigger generation unit (12) being adapted to derive a trigger signal (TS) based on the oscillating voltage (Vc) and the reference voltage (Vdc). In addition, the trigger generation unit (12) is coupled with the control unit (11) for transmitting said trigger signal (TS) to the control unit (11). The control unit (11) comprises a delay unit (11.1), said delay unit (11.1) being triggered by the trigger signal (TS), wherein the delay unit (11.1) is configured to control the provision of an enabling signal (P) to the switching element (20) after elapsing of a delay time (#t).

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