

Title (en)

Induction hob and method for detecting the presence of a cookware

Title (de)

Induktionskochfeld und Verfahren zur Erkennung der Präsenz eines Kochgeschirrs

Title (fr)

Plaque de cuisson à induction et procédé pour détecter la présence d'une batterie de cuisine

Publication

EP 2999302 B1 20191127 (EN)

Application

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Priority

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Abstract (en)

[origin: EP2999302A1] 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), a control unit (11) and a pot detection entity (12). The control unit (11) is adapted to provide a single electrical pulse (P) to the power stage (10) for initiating an oscillating current flow between the induction element (21) and at least one capacitor (22), said oscillating current flow leading to an oscillating voltage (Vc) at a first monitoring point (23) of the power stage (10). The pot detection entity (12) is configured to monitor the oscillating voltage (Vc) of said first monitoring point (23) and to compare the number of oscillations of the voltage (Vc) of said first monitoring point (23) initiated by the single electrical pulse (P) with a first threshold value in order to detect a piece of cookware placed above the induction element (21).

IPC 8 full level

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CPC (source: EP)

H05B 6/062 (2013.01); **H05B 2213/05** (2013.01)

Cited by

EP3598850A1; EP3651548A1; US11470694B2; EP3474630A1; WO2022013007A1; US11528782B2; US11064575B2

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