

Title (en)

QUASI-RESONANT INDUCTION HEATER HAVING COOKWARE POSITION SENSING CIRCUIT

Title (de)

QUASIRESONANTES INDUKTIONSHEIZELEMENT MIT KOCHGESCHIRR-POSITIONSERFASSUNGSSCHALTUNG

Title (fr)

DISPOSITIF DE CHAUFFAGE À INDUCTION COMPRENANT UN CIRCUIT DE DÉTECTION DE POSITION D'USTENSILE DE CUISINE

Publication

EP 3042541 B1 20170621 (EN)

Application

EP 13756895 A 20130903

Priority

EP 2013068191 W 20130903

Abstract (en)

[origin: WO2015032422A1] The present invention relates to an induction heating cooker (1) comprising a full-wave rectifier (7) rectifying the alternative signal, a filter inductance (2) and a filter capacitor (3) at the output of the full-wave rectifier (7), a parallel resonant circuit (8) having a resonant inductor (5) and a resonant capacitor (6) disposed in parallel, a power switching device (4) in parallel with a reverse-biased freewheeling diode (8), said device operating such that the resonant inductor (5) and the resonant capacitor (6) involve in energy exchange, the power switching device (4) being connected to a collector node (10) whereon a resonant voltage (Vce) is generated, the induction heating cooker (1) further comprising a control unit regulating the operation of the power switching device (4) and a drive circuit that drives the same.

IPC 8 full level

H05B 6/06 (2006.01)

CPC (source: EP)

H05B 6/062 (2013.01); **H05B 2213/03** (2013.01); **H05B 2213/05** (2013.01)

Cited by

EP3694296A1; FR3092464A1; US10893579B2; US11140751B2; US11622422B2; US10993292B2; US11212880B2; US10605464B2; US11655984B2; EP3700297B1

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