

Title (en)
AN INDUCTION HEATING COOKTOP

Title (de)
KOCHFELD FÜR INDUKTIONSHERD

Title (fr)
SURFACE DE CUISSON À CHAUFFAGE PAR INDUCTION

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Application
EP 13818991 A 20131211

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Abstract (en)
[origin: WO2014090874A1] The present invention relates to an induction heating cooktop (1) comprising a resonant circuit (6) having an induction coil (4) and a resonant capacitor (5) connected in parallel to the induction coil (4), a power switch (7), for example an IGBT, that drives the resonant circuit (6), a collector node (8) whereon resonance voltage (Vce) is generated during the non-conduction (turn-on) times of the power switch (7), a drive circuit (9) that provides the power switch (7) to be driven, and a control unit (11) that regulates the operation of the power switch (7) by controlling the drive circuit (9), and wherein the presence of the vessel (K) placed on the induction coil (4) and appropriate position thereof is determined in different heating settings and under variable AC mains voltage and temperature conditions.

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