

Title (en)  
AN INDUCTION HEATING COOKTOP

Title (de)  
KOCHFELD FÜR INDUKTIONSHERD

Title (fr)  
SURFACE DE CUISSON À CHAUFFAGE PAR INDUCTION

Publication  
**EP 2932794 A1 20151021 (EN)**

Application  
**EP 13826925 A 20131211**

Priority  
• TR 201214455 A 20121211  
• EP 2013076198 W 20131211

Abstract (en)  
[origin: WO2014090864A1] 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 freewheeling diode (8) connected in parallel to the power switch (7), a collector node (9) whereon resonance voltage (Vce) is generated during the non-conduction (turn-on) times of the power switch (7), a drive circuit (10) 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 (10), and wherein the presence of the vessel (K) placed on the induction coil (4) and appropriate position thereof is determined under variable mains voltage and temperature conditions.

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)

Citation (search report)  
See references of WO 2014090864A1

Cited by  
EP3474629A1; US11064576B2

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