

Title (en)

INDUCTION COOKER, METHOD OF OPERATION AND COMPUTER PROGRAM

Title (de)

INDUKTIONSKOCHER, VERFAHREN ZUM BETRIEB UND COMPUTERPROGRAMM

Title (fr)

APPAREIL DE CUISSON À INDUCTION, PROCÉDÉ DE FONCTIONNEMENT ET PROGRAMME INFORMATIQUE

Publication

**EP 3432683 B1 20200513 (EN)**

Application

**EP 17182438 A 20170720**

Priority

EP 17182438 A 20170720

Abstract (en)

[origin: EP3432683A1] An induction cooker is provided having an induction coil (12) within a resonant converter circuit (12, 14), a switching arrangement comprising one or more semiconductor switches (22) linked to a current source (16, 18, 20, 21) and a switch controller (24) arranged to control the switching arrangement to supply a varying electric current at a selected frequency to the induction coil (12). The switch controller (24) is arranged selectively to receive measurements of induction coil inductance, induction coil current and semiconductor conduction time from respective measurement means and to determine, by comparison of the measurements with respective predetermined threshold operating values, whether the induction coil (12) has reached magnetic saturation and, if so, to terminate the supply of current to the induction coil (12).

IPC 8 full level

**H05B 6/06** (2006.01)

CPC (source: EP)

**H05B 6/062** (2013.01)

Designated contracting state (EPC)

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DOCDB simple family (publication)

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