

Title (en)

HIGH FREQUENCY INDUCTION HEATING DEVICE, AND INDUCTION OVEN EQUIPPED WITH SUCH DEVICE

Title (de)

HOCHFREQUENZINDUKTIONSHHEIZGERÄT UND MIT EINER SOLCHEN VORRICHTUNG AUSGERÜSTETER INDUKTIONSHHERD

Title (fr)

DISPOSITIF DE CHAUFFAGE PAR INDUCTION À HAUTE FRÉQUENCE, ET FOUR À INDUCTION ÉQUIPÉ D'UN TEL DISPOSITIF

Publication

**EP 2027754 B1 20091209 (FR)**

Application

**EP 07788840 A 20070606**

Priority

- FR 2007000932 W 20070606
- FR 0605134 A 20060609

Abstract (en)

[origin: WO2007141422A1] The induction heating device includes: a high frequency electric supply; an suitable inductor (3) for encircling, at least partially, an induced element (4) for heating, this inductor having an inductance of determined value (L) for the desired heating power; and a capacitive mounting used to connect the supply and the inductor, designed to increase the voltage in the inductor terminals in comparison with the voltage supplied. The inductor consists of at least two distinct elementary inductive sections (3a, 3b, 3c) inter-connected in series by at least one condenser (2, 2a, 2b), the voltage which appears between the connection points of the elementary inductive parts being reduced in comparison with the voltage required for the inductor to function for the desired heating power.

IPC 8 full level

**H05B 6/04** (2006.01); **H05B 6/02** (2006.01)

CPC (source: EP)

**H05B 6/104** (2013.01)

Cited by

FR3130109A1; WO2023104911A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2007141422 A1 20071213**; AT E451816 T1 20091215; DE 602007003719 D1 20100121; EP 2027754 A1 20090225; EP 2027754 B1 20091209; EP 2027754 B2 20140625; ES 2338182 T3 20100504; ES 2338182 T5 20140922; FR 2902274 A1 20071214; FR 2902274 B1 20080808

DOCDB simple family (application)

**FR 2007000932 W 20070606**; AT 07788840 T 20070606; DE 602007003719 T 20070606; EP 07788840 A 20070606; ES 07788840 T 20070606; FR 0605134 A 20060609