

Title (en)
DEVICE FOR INDUCTIVELY HEATING A HEATING ELEMENT

Title (de)
VORRICHTUNG ZUR INDUKTIVEN ERWÄRMUNG EINES HEIZKÖRPERS

Title (fr)
DISPOSITIF DE CHAUFFE PAR INDUCTION D'UN CORPS DE CHAUFFE

Publication
EP 2848088 A2 20150318 (DE)

Application
EP 13721750 A 20130508

Priority

- DE 102012207847 A 20120510
- EP 2013059640 W 20130508

Abstract (en)
[origin: CN104272863A] The invention relates to a device for inductive heating of a heating element (4), in particular by means of the magnetic field generated (1) by an induction coil (2), the device is provided with an induction coil (2) which is connected to a resonant circuit (3), wherein the resonant circuit (3) includes at least one first capacitor (6) and at least a first power supply (9), and the induction coil (2) has a specific inductance (8) and a resistor (7) and the material of the heating element (4) has constant permeability at least in the local area of temperature.

IPC 8 full level
H05B 6/06 (2006.01); **H05B 6/10** (2006.01)

CPC (source: EP KR US)
G01K 7/36 (2013.01 - EP); **G01K 7/38** (2013.01 - EP); **H05B 6/06** (2013.01 - EP KR US); **H05B 6/105** (2013.01 - EP KR US); **H05B 2213/07** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2013167686A2

Citation (examination)

- DE 102009047185 A1 20110601 - EGO ELEKTRO GERAETEBAU GMBH [DE]
- JP H10183326 A 19980714 - KAWASAKI STEEL CO
- JP 2003339166 A 20031128 - MATSUSHITA ELECTRIC IND CO LTD
- DE 102005050038 A1 20070524 - EGO ELEKTRO GERAETEBAU GMBH [DE]
- DE 19714701 A1 19981015 - INNOVAT GES FUER SONDERMASCHIN [DE]
- DE 19540408 A1 19970507 - HERCHENBACH WOLFGANG [DE]
- WO 2008003872 A2 20080110 - SEB SA [FR], et al
- EP 2437573 A1 20120404 - MITSUBISHI ELECTRIC CORP [JP], et al
- US 5783806 A 19980721 - HAYASAKI MINORU [JP]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2013167686 A2 20131114; CA 2870241 A1 20131114; CN 104272863 A 20150107; DE 102012207847 A1 20131114; DE 112013002397 A5 20150122; EP 2848088 A2 20150318; JP 2015517715 A 20150622; JP 6218809 B2 20171025; KR 20150011827 A 20150202; US 2015060439 A1 20150305; US 9615407 B2 20170404

DOCDB simple family (application)
EP 2013059640 W 20130508; CA 2870241 A 20130508; CN 201380023681 A 20130508; DE 102012207847 A 20120510; DE 112013002397 T 20130508; EP 13721750 A 20130508; JP 2015510819 A 20130508; KR 20147034727 A 20130508; US 201414536081 A 20141107