

Title (en)
Induction heating device

Title (de)
Induktionsheizvorrichtung

Title (fr)
Dispositif de chauffage à induction

Publication
EP 2648476 A1 20131009 (DE)

Application
EP 13160666 A 20130322

Priority
ES 201230499 A 20120402

Abstract (en)
The device (12) has a rectifier unit (30) provided for rectifying current of an electric power source (18) i.e. power supply. The rectifier unit comprises quick-recovering rectifying elements (32, 34, 36, 38) i.e. diodes. A heating frequency unit (50) applies energy over the rectifier unit in an operating mode and supplies an induction heating unit (20) i.e. cook field inductor, with a high frequency alternating current. A resonance unit (60) forms a resonance pitch circle with the induction heating unit and is connected directly with the electric power source in the operating mode. An independent claim is also included for a method for operating an induction heating device.

Abstract (de)
Die Erfindung geht aus von einer Induktionsheizvorrichtung (12), insbesondere Induktionskochfeldvorrichtung, mit zumindest einer Gleichrichtereinheit (30), die dazu vorgesehen ist, Strom einer Elektroenergiequelle (18) gleichzurichten. Um eine Hochfrequenztauglichkeit und/oder eine Effizienz zu verbessern wird vorgeschlagen, dass die Gleichrichtereinheit (30) zumindest ein schnellerholendes Gleichrichterelement (32, 34, 36, 38) aufweist.

IPC 8 full level
H05B 6/06 (2006.01); **H05B 1/02** (2006.01); **H05B 6/12** (2006.01)

CPC (source: EP)
H05B 6/062 (2013.01)

Citation (search report)
• [X] US 3814888 A 19740604 - BOWERS D, et al
• [X] EP 0561219 A1 19930922 - EGO ELEKTRO BLANC & FISCHER [DE]
• [X] US 2011147375 A1 20110623 - LOMP STEPHANE [FR]
• [X] US 2006237449 A1 20061026 - UCHIDA NAOKI [JP], et al
• [X] EP 2068598 A1 20090610 - SAMSUNG ELECTRONICS CO LTD [KR]

Cited by
US10260753B2; WO2017071938A1

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)
EP 2648476 A1 20131009; EP 2648476 B1 20160525

DOCDB simple family (application)
EP 13160666 A 20130322