

Title (en)

METHOD FOR OPERATING AN INDUCTION HEATING DEVICE

Title (de)

VERFAHREN ZUM BETRIEB EINER INDUKTIONSHEIZEINRICHTUNG

Title (fr)

PROCEDE POUR FAIRE FONCTIONNER UN SYSTEME DE CHAUFFAGE PAR INDUCTION

Publication

EP 1935213 A1 20080625 (DE)

Application

EP 06806263 A 20061013

Priority

- EP 2006009916 W 20061013
- DE 102005050038 A 20051014

Abstract (en)

[origin: US8415594B2] The invention relates to a method for operating an induction heating device. The induction heating device comprises an induction coil and a frequency converter for producing a control voltage for the induction coil. The frequency converter comprises a rectifier rectifying an alternating supply voltage (UN), an intermediate circuit capacitor, looped in between output terminals of the rectifier and equalizing the rectified voltage (UG), and at least one controllable switching element, looped in between the output terminals of the rectifier. According to the invention, in a predetermined discharge interval (INT) before a zero crossing (ND) of the alternating supply voltage (UN), the intermediate circuit capacitor is discharged to a threshold value by controlling the at least one switching element before the induction coil is controlled in order to produce an adjustable heating capacity.

IPC 8 full level

H05B 6/06 (2006.01)

CPC (source: EP US)

H05B 6/062 (2013.01 - EP US)

Cited by

WO2022096122A1

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007042318 A1 20070419; AT E422146 T1 20090215; CA 2625765 A1 20070419; CA 2625765 C 20150616; CN 101326857 A 20081217; CN 101326857 B 20111123; DE 102005050038 A1 20070524; DE 502006002762 D1 20090319; EP 1935213 A1 20080625; EP 1935213 B1 20090128; ES 2320594 T3 20090525; JP 2009512147 A 20090319; SI 1935213 T1 20090831; US 2008203087 A1 20080828; US 8415594 B2 20130409

DOCDB simple family (application)

EP 2006009916 W 20061013; AT 06806263 T 20061013; CA 2625765 A 20061013; CN 200680046356 A 20061013; DE 102005050038 A 20051014; DE 502006002762 T 20061013; EP 06806263 A 20061013; ES 06806263 T 20061013; JP 2008534942 A 20061013; SI 200630281 T 20061013; US 10141908 A 20080411