

Title (en)

Method and device for controlling the power supply of an induction heating device

Title (de)

Verfahren und Anordnung zur Leistungsvorsorge einer Induktionsheizeinrichtung

Title (fr)

Procédé et dispositif d'alimentation pour un appareil de chauffage à induction

Publication

EP 1734789 A1 20061220 (DE)

Application

EP 06011351 A 20060601

Priority

DE 102005028829 A 20050614

Abstract (en)

The method involves providing an alternating supply voltage and a frequency converter with an adjustable switching unit. The operating frequency of the switching unit and/or the frequency converter is increased from a frequency base in the course of half cycle of the voltage. The frequency is then decreased to the base, so that the frequency amounts to the base, at the zero crossing of the supply voltage. An independent claim is also included for an arrangement for power supply of an induction heating device.

IPC 8 full level

H05B 6/06 (2006.01)

CPC (source: EP)

H05B 6/062 (2013.01)

Citation (search report)

- [A] US 4085300 A 19780418 - MACKENZIE RAYMOND W, et al
- [A] US 2003205572 A1 20031106 - BASSILL NICHOLAS [US], et al
- [A] US 2004118832 A1 20040624 - RYU SEUNG HEE [KR], et al

Cited by

EP2112862A1; EP2525485A1; EP2224787A1; AU2010217458B2; EP3386270A1; EP3151632A1; WO2010097143A3; WO2020229336A1; US9392648B2; EP3151631A1; US9012820B2; WO2009129889A1; WO2018116050A1; US10129935B2; US10182472B2; EP4250873A1; DE102022202805A1

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Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1734789 A1 20061220; EP 1734789 B1 20080116; AT E384414 T1 20080215; CN 1882201 A 20061220; CN 1882201 B 20110727; DE 102005028829 A1 20070111; DE 502006000298 D1 20080306; ES 2300080 T3 20080601; JP 2006353085 A 20061228

DOCDB simple family (application)

EP 06011351 A 20060601; AT 06011351 T 20060601; CN 200610093670 A 20060614; DE 102005028829 A 20050614; DE 502006000298 T 20060601; ES 06011351 T 20060601; JP 2006159919 A 20060608