

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; WO2010097143A3; WO2020229336A1; US9012820B2; EP3151632A1; US9392648B2; EP3151631A1; WO2009129889A1; WO2018116050A1; US10129935B2; US10182472B2; EP4250873A1; DE102022202805A1

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Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
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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