

Title (en)

ENERGY SAVING POWER SUPPLY DEVICE

Title (de)

ENERGIESPARENDE STROMVERSORGUNGSVORRICHTUNG

Title (fr)

DISPOSITIF D'ALIMENTATION EN ÉNERGIE À ÉCONOMIE D'ÉNERGIE

Publication

EP 4362608 A1 20240501 (EN)

Application

EP 22425051 A 20221024

Priority

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Abstract (en)

The present invention relates to a power supply device (1) for a resistive inductive load (30) characterised in that it comprises an electrical generator (20) able to generate a radio frequency electromagnetic wave and a logic control unit that can be coupled to said resistive inductive load. The logic control unit (U) is adapted to perform (120) a frequency scan to determine a specific resonance frequency for said resistive inductive load (30), and to send (140) a command to said electrical generator (20) to power said resistive inductive load (30) with an electromagnetic wave at said specific resonance frequency for said resistive inductive load (30). Furthermore, the present invention also relates to a heating system (R), a method (100) for operating said power supply device, its use and an Internet of Things computer network.

IPC 8 full level

H05B 6/06 (2006.01)

CPC (source: EP)

H05B 6/062 (2013.01)

Citation (search report)

- [XYI] US 2006118550 A1 20060608 - DE ROOIJ MICHAEL A [US], et al
- [XYI] KR 101832211 B1 20180226 - AMICORN CO LTD [KR], et al
- [Y] US 2011290787 A1 20111201 - BASSILL NICHOLAS [US], et al
- [Y] WO 2022182066 A1 20220901 - SAMSUNG ELECTRONICS CO LTD [KR]

Designated contracting state (EPC)

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