

Title (en)

CONTROL DEVICE AND METHOD FOR CHARGING AN ELECTRICAL ENERGY STORE

Title (de)

ANSTEUERVORRICHTUNG UND VERFAHREN ZUM LADEN EINES ELEKTRISCHEN ENERGIESPEICHERS

Title (fr)

DISPOSITIF DE COMMANDE ET PROCÉDÉ POUR CHARGER UN ACCUMULATEUR D'ÉNERGIE ÉLECTRIQUE

Publication

EP 2872357 A1 20150520 (DE)

Application

EP 13737567 A 20130704

Priority

- DE 102012212262 A 20120713
- EP 2013064160 W 20130704

Abstract (en)

[origin: WO2014009254A1] The invention relates to a control device (100) for charging an electrical energy store (T5), comprising: a network filter device (T1), which is designed to limit electrical interferences of an input AC voltage (U1); a power rectifier circuit device (T2), which is coupled to the network filter device (T1) and is designed to convert the input AC voltage (U1) into a rectified input voltage (U2); a full bridge device (T3) which is coupled to the power rectifier circuit device (T2) and is designed to convert the rectified input voltage (U2) into a high-frequency AC voltage (U3); a transformer device (TRF1), which is coupled to the full bridge device (T3) and is designed to convert the high-frequency AC voltage (U3) into a transformed AC voltage (U4); a rectifier circuit device (T4) which is coupled to the transformer device (TRF1) and is designed to convert the transformed AC voltage (U4) into a rectified output voltage (U5); and an output choke (DL1) which is coupled to the rectifier circuit device (T4) and is designed to filter the rectified output voltage (U5) in order, thereby, to charge the electrical energy store (T5).

IPC 8 full level

B60L 11/18 (2006.01); **H02J 7/02** (2006.01)

CPC (source: EP US)

H02J 5/00 (2013.01 - US); **H02J 7/02** (2013.01 - EP US); **H02M 3/33507** (2013.01 - US); **H02M 7/4835** (2021.05 - EP US); **H02P 27/14** (2013.01 - EP US)

Citation (search report)

See references of WO 2014009254A1

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)

WO 2014009254 A1 20140116; DE 102012212262 A1 20140116; EP 2872357 A1 20150520; JP 2015523845 A 20150813; US 2015180344 A1 20150625

DOCDB simple family (application)

EP 2013064160 W 20130704; DE 102012212262 A 20120713; EP 13737567 A 20130704; JP 2015520919 A 20130704; US 201314413951 A 20130704