

Title (en)

CHARGING CIRCUIT FOR AN ELECTRICAL ENERGY ACCUMULATOR, ELECTRICAL DRIVE SYSTEM AND METHOD FOR OPERATING A CHARGING CIRCUIT

Title (de)

LADESCHALTUNG FÜR EINEN ELEKTRISCHEN ENERGIESPEICHER, ELEKTRISCHES ANTRIEBSSYSTEM UND VERFAHREN ZUM BETREIBEN EINER LADESCHALTUNG

Title (fr)

CIRCUIT DE CHARGE POUR UN ACCUMULATEUR D'ÉNERGIE ÉLECTRIQUE, SYSTÈME D'ENTRAÎNEMENT ÉLECTRIQUE ET PROCÉDÉ POUR FAIRE FONCTIONNER UN CIRCUIT DE CHARGE

Publication

EP 3201037 A1 20170809 (DE)

Application

EP 15749772 A 20150805

Priority

- DE 102014219909 A 20141001
- EP 2015068018 W 20150805

Abstract (en)

[origin: WO2016050392A1] The present invention relates to a charging circuit for an electrical energy accumulator and a method for operating a charging circuit. Common components are used for charging and discharging the electrical energy accumulator. According to the invention, a charging circuit comprises step-up and step-down functionalities and combines them with rectifier and/or inverter functionalities. In this way, a circuit arrangement is created which allows a flexible circuit design with a small number of components.

IPC 8 full level

B60L 11/18 (2006.01)

CPC (source: EP US)

B60L 15/007 (2013.01 - EP); **B60L 50/60** (2019.01 - EP US); **B60L 53/12** (2019.01 - EP US); **B60L 53/14** (2019.01 - EP US);
B60L 53/22 (2019.01 - EP US); **B60L 53/24** (2019.01 - EP US); **H02M 1/10** (2013.01 - EP US); **H02M 3/1582** (2013.01 - EP US);
H02M 7/5387 (2013.01 - EP US); **Y02T 10/70** (2013.01 - EP US); **Y02T 10/7072** (2013.01 - EP US); **Y02T 90/12** (2013.01 - US);
Y02T 90/14 (2013.01 - EP US)

Citation (search report)

See references of WO 2016050392A1

Citation (examination)

- US 2009200970 A1 20090813 - KIMURA TOMONORI [JP]
- US 2005218876 A1 20051006 - NINO SHINICHI [JP]
- US 2012032633 A1 20120209 - CORDES RALF [DE], et al

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)

DE 102014219909 A1 20160407; EP 3201037 A1 20170809; JP 2017536793 A 20171207; JP 6333475 B2 20180530;
US 10286786 B2 20190514; US 2017305278 A1 20171026; WO 2016050392 A1 20160407

DOCDB simple family (application)

DE 102014219909 A 20141001; EP 15749772 A 20150805; EP 2015068018 W 20150805; JP 2017517729 A 20150805;
US 201515516180 A 20150805