Title (en)

ELECTRIC CIRCUIT FOR CHARGING AT LEAST ONE ELECTRICAL ENERGY STORAGE UNIT BY MEANS OF AN ELECTRICAL NETWORK

Title (de)

ELEKTRISCHE SCHALTUNG ZUM BELADEN MINDESTENS EINER STROMSPEICHERANORDNUNG MITTELS EINES STROMNETZWERKS

Title (fr)

CIRCUIT ELECTRIQUE POUR LA CHARGE PAR UN RESEAU ELECTRIQUE D'AU MOINS UNE UNITE DE STOCKAGE D'ENERGIE ELECTRIQUE

Publication

EP 2820739 A1 20150107 (FR)

Application

EP 13712852 A 20130227

Priority

- FR 1251738 A 20120227
- FR 2013050392 W 20130227

Abstract (en)

[origin: WO2013128111A1] An electric circuit (5) for charging at least one electrical energy storage unit (4) by means of an electrical network, the circuit (5) comprising: an inductive cell (6) configured to interact with an inductive cell of the electrical network to exchange energy by electromagnetic induction, a rectifier (13) disposed downstream from the inductive cell (6) and whereof the positive output terminal (17) and the negative output terminal (20) are each connected to a conductor (18, 21) of a DC bus (19), a capacitor (22) mounted between the two conductors (18, 21) of the DC bus (19), a power stage (25) whereof the positive input terminal (26) and the negative input terminal (27) are respectively connected to one of the conductors (18, 21) of the DC bus (19), and which is configured to adapt the value of the DC voltage between the positive input terminal (26) thereof and the negative input terminal (27) thereof to the electrical energy storage unit (4), the power stage comprising, at most, two voltage converters, and the electrical energy storage unit (4).

IPC 8 full level

H02J 7/02 (2006.01); **B60L 11/18** (2006.01); **H02J 5/00** (2006.01); **H02J 7/00** (2006.01)

CPC (source: EP KR US)

B60L 1/04 (2013.01 - EP KR US); **B60L 3/003** (2013.01 - EP KR US); **B60L 3/0061** (2013.01 - EP KR US); **B60L 50/40** (2019.01 - EP KR US); **B60L 50/66** (2019.01 - EP KR US); **B60L 53/12** (2019.01 - US); **B60L 53/122** (2019.01 - EP KR US); **B60L 53/126** (2019.01 - EP KR US); **B60L 53/22** (2019.01 - KR); **B60L 53/36** (2019.01 - EP KR US); **B60L 53/68** (2019.01 - EP US); **H02J 7/00** (2013.01 - US); **H02J 7/02** (2013.01 - EP US); **H02J 50/12** (2016.02 - EP KR US); **H02J 50/80** (2016.02 - EP KR US); B60L 53/00 (2019.01 - EP US); B60L 53/20 (2019.01 - EP US); B60L 53/22 (2019.01 - EP US); B60L 2210/14 (2013.01 - EP KR US); B60L 2210/30 (2013.01 - EP KR US); B60L 2210/40 (2013.01 - EP KR US); B60L 2240/34 (2013.01 - EP KR US); B60L 2240/36 (2013.01 - EP KR US); H02J 50/90 (2016.02 - EP KR US); H02J 2207/40 (2020.01 - EP KR US); Y02T 10/70 (2013.01 - EP KR US); Y02T 10/7072 (2013.01 - EP KR US); Y02T 10/72 (2013.01 - EP KR US); Y02T 90/12 (2013.01 - EP KR US); Y02T 90/14 (2013.01 - EP KR US); Y02T 90/16 (2013.01 - EP)

Citation (search report)

See references of WO 2013128111A1

Citation (examination)

BILL JOHNS: "An introduction to the Wireless Power Consortium standard and TI?s compliant solutions", TEXAS INSTRUMENTS, 1 January 2011 (2011-01-01), pages 1 - 5, XP007921031

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)

FR 2987513 A1 20130830; **FR 2987513 B1 20150424**; CN 104205560 A 20141210; EP 2820739 A1 20150107; JP 2015513886 A 20150514; KR 20140130204 A 20141107; US 2015042273 A1 20150212; US 9744868 B2 20170829; WO 2013128111 A1 20130906

DOCDB simple family (application)

FR 1251738 A 20120227; CN 201380016451 A 20130227; EP 13712852 A 20130227; FR 2013050392 W 20130227; JP 2014558190 A 20130227; KR 20147026818 A 20130227; US 201314380813 A 20130227