

Title (en)

BATTERY CHARGER FOR TRACTION VEHICLE

Title (de)

BATTERIELADEVORRICHTUNG FÜR ZUGFAHRZEUGE

Title (fr)

CHARGEUR DE BATTERIE POUR VÉHICULE DE TRACTION

Publication

**EP 3577754 A1 20191211 (EN)**

Application

**EP 18707723 A 20180302**

Priority

- EP 17159148 A 20170303
- EP 2018055228 W 20180302

Abstract (en)

[origin: WO2018158453A1] A battery charger (10) for a traction vehicle comprises a first conversion stage (14) for receiving an input voltage and for converting the input voltage into an intermediate DC voltage; and a second conversion stage (16) for converting the intermediate DC voltage into a DC charging voltage; wherein the first conversion stage (14) comprises an active converter (30, 36); and wherein the second conversion stage (16) comprises a galvanically isolated resonant DC-DC converter (38) with a primary side inverter (40) connected via a transformer (68) with at least one secondary side rectifier (42).

IPC 8 full level

**H02M 3/337** (2006.01); **H02M 1/42** (2007.01)

CPC (source: EP US)

**H02M 3/01** (2021.05 - EP US); **H02M 3/33571** (2021.05 - EP US); **H02M 3/33573** (2021.05 - EP US); **H02M 1/007** (2021.05 - EP); **H02M 1/0077** (2021.05 - EP); **H02M 1/4216** (2013.01 - EP); **Y02B 70/10** (2013.01 - EP)

Citation (examination)

- EP 1710897 A2 20061011 - LINCOLN GLOBAL INC [US]
- JP H04285468 A 19921009 - FUJITSU LTD
- See also references of WO 2018158453A1

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 2018158453 A1 20180907**; EP 3577754 A1 20191211

DOCDB simple family (application)

**EP 2018055228 W 20180302**; EP 18707723 A 20180302