Title (en)

CONVERTER CIRCUIT AND METHOD FOR TRANSFERRING ELECTRICAL ENERGY

Title (de)

WANDLERSCHALTUNG UND VERFAHREN ZUM ÜBERTRAGEN VON ELEKTRISCHER ENERGIE

Title (fr)

CIRCUIT CONVERTISSEUR POUR LE TRANSFERT D'ÉNERGIE ÉLECTRIQUE

Publication

EP 2751918 A2 20140709 (DE)

Application

EP 12731358 A 20120620

Priority

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Abstract (en)

[origin: WO2013029827A2] The invention relates to a converter circuit (50) for transferring electrical energy, in particular for application in a motor vehicle wiring system (38, 42), which converter circuit comprises an electromagnetic transfer unit (60) having three electromagnetic transfer members (62, 64, 66) that can be electromagnetically coupled to each other in order to transfer electromagnetic energy, wherein the first electromagnetic transfer member (62) is connected to a first bi-directional converter circuit that comprises a first voltage connection pole pair (80) for connecting an AC voltage source and/or sink (54), wherein the second electromagnetic transfer member (64) is connected to a rectifier converter circuit that is connected on the outlet side to an electrical energy store (88), and wherein the third electromagnetic transfer member (66) is connected to a second bi-directional converter circuit that comprises a second voltage pole pair (96) for connecting a DC voltage source and/or sink (98), and a control unit (100) that is connected to the first bi-directional converter circuit, the second bi-directional converter circuit and the rectifier converter circuit, in order to control the exchange of electrical energy between the AC voltage source and/or sink (54), the DC voltage source and/or sink (98) and/or the electrical energy store (88).

IPC 8 full level

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Citation (search report)

See references of WO 2013029827A2

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DE 102011081720 A 20110829; CN 201280041885 A 20120620; EP 12731358 A 20120620; EP 2012061840 W 20120620; JP 2014527535 A 20120620; KR 20147005263 A 20120620; US 201214241124 A 20120620