Title (en)

MULTI-OUTPUT POWER CONVERTER WITH PHASE-SHIFT CONTROL

Title (de)

LEISTUNGSWANDLER MIT MEHREREN AUSGÄNGEN UND PHASENREGELUNG

Title (fr)

CONVERTISSEUR D'ENERGIE MULTI-SORTIES A COMMANDE PAR DEPHASAGE

Publication

EP 3090482 A2 20161109 (FR)

Application

EP 14820897 A 20141229

Priority

- FR 1303118 A 20131231
- EP 2014079361 W 20141229

Abstract (en)

[origin: WO2015101594A2] The invention relates to a multi-output power conversion circuit with phase-shift control, receiving a direct voltage as input and supplying a plurality of controllable direct voltages as output. The circuit comprises a transformer (12) including one input and a plurality of outputs, said input being connected to an inverter (11) comprising at least two switches and configured to convert a direct voltage into an alternating voltage and each output being connected to a controlled rectifier (13) configured to convert an alternating voltage into a direct voltage. Each controlled rectifier (13) comprises a magnetic storage inductor (L1, L2,..., LN) connected to an AC/DC converter (13) comprising at least two switches. The energy conversion circuit also comprises a control module (25) configured to generate phase-shifted control signals arranged to control the switching of the switches of the inverter (11) and controlled rectifiers (13).

IPC 8 full level

H02M 3/335 (2006.01); **H02M 3/158** (2006.01)

CPC (source: EP US)

H02M 3/335 (2013.01 - EP US); **H02M 3/33523** (2013.01 - EP US); **H02M 3/33561** (2013.01 - EP US); **H02M 3/33584** (2013.01 - EP US); H02M 3/1586 (2021.05 - EP US)

Citation (search report)

See references of WO 2015101594A2

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DOCDB simple family (publication)

FR 3016096 A1 20150703; **FR 3016096 B1 20230616**; EP 3090482 A2 20161109; US 10044279 B2 20180807; US 2017005584 A1 20170105; WO 2015101594 A2 20150709; WO 2015101594 A3 20150827

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