

Title (en)

MULTIPHASE DC-DC CONVERTER

Title (de)

MULTIPHASEN-GLEICHSPANNUNGSWANDLER

Title (fr)

CONVERTISSEUR CONTINU-CONTINU MULTIPHASE

Publication

EP 2191560 A2 20100602 (DE)

Application

EP 08803768 A 20080905

Priority

- EP 2008061799 W 20080905
- DE 102007043603 A 20070913

Abstract (en)

[origin: WO2009037135A2] The invention relates to a multiphase DC-DC converter comprising several parallel converter cells that are timed in a deferred manner. Said converter further comprises a magnetic measuring bridge between the outputs of two respective converter cells.

IPC 8 full level

H02M 3/158 (2006.01)

CPC (source: EP US)

H02M 3/1584 (2013.01 - EP US); **H02M 1/0009** (2021.05 - EP US)

Citation (search report)

See references of WO 2009037135A2

Citation (examination)

- US 2005068017 A1 20050331 - LIPCSEI LASZLO [US]
- DAWSON F P: "DC-DC CONVERTER INTERPHASE TRANSFORMER DESIGN CONSIDERATIONS : VOLT - SECONDS BALANCING", IEEE TRANSACTIONS ON MAGNETICS, IEEE SERVICE CENTER, NEW YORK, NY, US, vol. 26, no. 5, 1 September 1990 (1990-09-01), pages 2250 - 2252, XP000150516, ISSN: 0018-9464, DOI: 10.1109/20.104688
- XUDONG HUANG ET AL: "A DSP based controller for high-power interleaved boost converters", APEC 2003. 18TH. ANNUAL IEEE APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION. MIAMI BEACH, FL, FEB. 9 - 13, 2003; [ANNUAL APPLIED POWER ELECTRONICS CONFERENCE], NEW YORK, NY : IEEE, US, vol. 1, 9 February 2003 (2003-02-09), pages 327 - 333, XP010631530, ISBN: 978-0-7803-7768-4, DOI: 10.1109/APEC.2003.1179234

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DOCDB simple family (publication)

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DE 102007043603 A 20070913; CN 200880106881 A 20080905; EP 08803768 A 20080905; EP 2008061799 W 20080905; JP 2010524467 A 20080905; KR 20107005477 A 20080905; US 67394908 A 20080905