Title (en)

CONTROL DEVICE FOR A DC CONVERTER, DC CONVERTER, AND METHOD FOR CONTROLLING A DC CONVERTER

Title (de)

REGELVORRICHTUNG FÜR EINEN GLEICHSPANNUNGSKONVERTER, GLEICHSPANNUNGS-KONVERTER UND VERFAHREN ZUR REGELUNG EINES GLEICHSPANNUNGSKONVERTERS

Title (fr)

DISPOSITIF DE COMMANDE POUR UN CONVERTISSEUR CONTINU/CONTINU, CONVERTISSEUR CONTINU/CONTINU ET PROCÉDÉ DE COMMANDE D'UN CONVERTISSEUR CONTINU/CONTINU

Publication

EP 4022757 A1 20220706 (DE)

Application

EP 20754718 A 20200810

Priority
- DE 102019213076 A 20190830
- EP 2020072392 W 20200810

Abstract (en)

[origin: WO2021037544A1] The present invention relates to a control of a DC converter (10) comprising a plurality of DC converter modules (4-1, 4-2). For this purpose, a central control variable is generated for all DC converter modules for a voltage-controlled control of the DC converter. Moreover, a current-based control variable can additionally be generated for each DC converter module. The output power, in particular the output current of each DC converter module can be individually adjusted by combining the voltage-based control variable and the current-based control variable. An overload of the DC converter modules can thus be prevented.

IPC 8 full level

H02M 3/158 (2006.01); **H02M 1/00** (2006.01); **H02M 1/32** (2007.01)

CPC (source: EP US)

H02M 1/0022 (2021.05 - US); **H02M 1/0025** (2021.05 - US); **H02M 1/32** (2013.01 - EP); **H02M 3/1584** (2013.01 - EP US); H02M 1/0022 (2021.05 - EP); H02M 3/1582 (2013.01 - US)

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 2021037544 A1 20210304; CN 114270683 A 20220401; DE 102019213076 A1 20210304; EP 4022757 A1 20220706; US 2022329145 A1 20221013

DOCDB simple family (application)

EP 2020072392 W 20200810; CN 202080060455 A 20200810; DE 102019213076 A 20190830; EP 20754718 A 20200810; US 202017639058 A 20200810