Title (en)
DRIVE METHOD FOR A DC-DC VOLTAGE CONVERTER, AND DC-DC VOLTAGE CONVERTER

Title (de)
ANSTEUERVERFAHREN FÜR EINEN GLEICHSPANNUNGSWANDLER UND GLEICHSPANNUNGSWANDLER

Title (fr)
PROCÉDÉ DE COMMANDE D'UN CONVERTISSEUR CONTINU-CONTINU ET CONVERTISSEUR CONTINU-CONTINU

Publication
EP 4022759 A1 20220706 (DE)

Application
EP 20754242 A 20200810

Priority
• DE 102019212887 A 20190828
• EP 2020072368 W 20200810

Abstract (en)
[origin: WO2021037537A1] The present invention relates to the driving of a DC-DC voltage converter (1), such as for example a phase-shifted full-bridge DC-DC voltage converter, it being possible to switch between two predefined switching sequences. It is thereby possible to achieve even loading of the switching elements (M1-M4) of a primary-side full bridge (10) of the DC-DC voltage converter (1). Thus, by way of example, in the first switching sequence (S1), the switching elements (M1, M3) of a first half bridge of the primary-side full bridge (10) may be hard-switched, whereas, in the second switching sequence (S2), the switching elements (M2, M4) of a second half bridge of the primary-side full bridge (10) may be hard-switched.

IPC 8 full level
H02M 3/335 (2006.01); **H02M 1/00** (2006.01)

CPC (source: EP US)
H02M 1/0058 (2021.05 - US); **H02M 3/33573** (2021.05 - US); **H02M 3/33576** (2013.01 - US); **H02M 3/33584** (2013.01 - EP); H02M 1/0058 (2021.05 - EP)

Citation (search report)
See references of WO 2021037537A1

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 2021037537 A1 20210304; CN 114270687 A 20220401; DE 102019212887 A1 20210304; EP 4022759 A1 20220706; US 2022278623 A1 20220901

DOCDB simple family (application)
EP 2020072368 W 20200810; CN 202080060330 A 20200810; DE 102019212887 A 20190828; EP 20754242 A 20200810; US 202017637663 A 20200810