

Title (en)

METHOD FOR OPERATING A DRIVE SYSTEM, AND DRIVE SYSTEM COMPRISING A PLURALITY OF INVERTERS

Title (de)

VERFAHREN ZUM BETREIBEN EINES ANTRIEBSSYSTEMS UND ANTRIEBSSYSTEM, AUFWEISEND MEHRERE WECHSELRICHTER

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UN SYSTÈME D'ENTRAÎNEMENT, ET SYSTÈME D'ENTRAÎNEMENT COMPRENANT UNE PLURALITÉ D'ONDULEURS

Publication

**EP 4360208 A1 20240501 (DE)**

Application

**EP 22733290 A 20220601**

Priority

- DE 102021003174 A 20210622
- EP 2022025258 W 20220601

Abstract (en)

[origin: WO2022268358A1] The invention relates to a method for operating a drive system, comprising a plurality of inverters, wherein a respective electric motor is fed from the AC-voltage-side terminal of the respective inverter, wherein the DC-voltage-side terminals of the respective inverters are connected in parallel with one another and said parallel circuit is connected to the DC-voltage-side terminal of a rectifier, the respective inverter having respective semiconductor switches which are driven in accordance with a respective pulse width modulation, the inverters being designed as bus subscribers in a data bus to which a module designed as a master, is also connected. In a first method step, a respective bus address is allocated to each inverter and then, in a second method step, a time offset of the first switching edge, that is to say a starting time ( $t_i$ ), of its pulse-width modulation, which time offset is related to a synchronization signal, is allocated to each inverter.

IPC 8 full level

**H02P 5/74** (2006.01); **H02M 1/44** (2007.01)

CPC (source: EP)

**H02M 1/44** (2013.01); **H02M 7/5395** (2013.01); **H02P 5/74** (2013.01)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**DE 102022001917 A1 20221222**; EP 4360208 A1 20240501; WO 2022268358 A1 20221229

DOCDB simple family (application)

**DE 102022001917 A 20220601**; EP 2022025258 W 20220601; EP 22733290 A 20220601