

Title (en)

DRIVE CIRCUIT, AND RELATED CIRCUIT AND DEVICE

Title (de)

ANTRIEBSSCHALTUNG, ZUGEHÖRIGE SCHALTUNG UND VORRICHTUNG

Title (fr)

CIRCUIT D'ATTAQUE, ET CIRCUIT ET DISPOSITIF ASSOCIÉS

Publication

EP 4033863 A1 20220727 (EN)

Application

EP 20901972 A 20200402

Priority

- CN 201911330642 A 20191220
- CN 2020082968 W 20200402

Abstract (en)

The invention discloses a drive circuit, a related circuit and a device. The drive circuit comprises: a load current control circuit, a rectifier module, an energy storage component and a charge-discharge generating circuit, wherein: the charge-discharge generating circuit is connected to the energy storage component and the load current control circuit; the energy storage component and the charge-discharge generating circuit are connected at both ends of the rectifier module; the charge-discharge generating circuit is configured to: form a charging loop with the energy storage component during a charging process of the energy storage component, and control a charging current of the energy storage component; and form a discharging loop with the energy storage component during a discharging process of the energy storage component. The above-mentioned drive circuit provided by the embodiment of the present disclosure can eliminate the current ripple in the circuit, ensure the stability of the controlled load, and the AC input current and the AC input voltage have a common axis of symmetry, thereby improving the PF.

CPC (source: EP)

H05B 45/355 (2020.01); **H05B 45/36** (2020.01); **H05B 45/38** (2020.01); **H05B 45/385** (2020.01); **H05B 45/392** (2020.01); **H05B 45/59** (2022.01)

Cited by

CN115021554A; US11984797B2

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)

EP 4033863 A1 20220727; **EP 4033863 A4 20221109**; CN 113015287 A 20210622; CN 113015287 B 20240206; WO 2021120445 A1 20210624

DOCDB simple family (application)

EP 20901972 A 20200402; CN 201911330642 A 20191220; CN 2020082968 W 20200402