

Title (en)

DEVICE AND METHOD FOR DISCHARGING AN INTERMEDIATE CIRCUIT CAPACITOR, POWER CONVERTER, AND VEHICLE

Title (de)

VORRICHTUNG UND VERFAHREN ZUM ENTLADEN EINES ZWISCHENKREISKONDENSATORS, STROMRICHTER UND FAHRZEUG

Title (fr)

DISPOSITIF ET PROCÉDÉ DE DÉCHARGE D'UN CONDENSATEUR DE CIRCUIT INTERMÉDIAIRE, CONVERTISSEUR DE COURANT ET VÉHICULE

Publication

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Application

EP 19786561 A 20191009

Priority

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Abstract (en)

[origin: WO2020074575A1] The invention relates to a device (1) for discharging an intermediate circuit capacitor (2), comprising: - a discharge device (8) which is connected parallel to the intermediate circuit capacitor (2) and by means of which a current flow (I) can be generated upon obtaining a discharge signal (9) requesting the discharge, said current flow having a lower current strength in the event of a first signal state of a control signal (11) than in the event of a second signal state of the control signal (11), - a voltage detection device (13), by means of which a voltage signal (14) that describes a capacitor voltage (7) drop across the intermediate circuit capacitor (2) can be generated, - a controller (19) comprising - a signal generating unit (22) which is designed to generate a reference signal (24), the value of which depends on the voltage signal (14) at the point in time the discharge signal (9) is obtained and compared to which the voltage signal (14) is reduced, and - a comparison unit (23) which is designed to compare the voltage signal (14) with the reference signal (24), to provide the control signal (11) for the first signal state when the discharge signal (9) is obtained, and for providing the control signal for the second signal state when the value of the voltage signal (14) reaches or falls below the value of the reference signal (24).

IPC 8 full level

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CPC (source: EP KR US)

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