

Title (en)

METHOD FOR PRECHARGING A NETWORK SECTION

Title (de)

VERFAHREN ZUM VORLADEN EINES NETZABSCHNITTS

Title (fr)

PROCÉDÉ DESTINÉ À PRÉCHARGER UNE SECTION DE RÉSEAU

Publication

**EP 3891858 A1 20211013 (DE)**

Application

**EP 19729680 A 20190603**

Priority

- EP 19154722 A 20190131
- EP 2019064312 W 20190603

Abstract (en)

[origin: WO2020156689A1] The invention relates to a method for precharging a second network section (31i) with electrical energy from a first network section (31a) of a DC network (100). In an initial state (t<sub>0</sub>), an initial voltage (U<sub>2\_t0</sub>) prevailing in the second network section (31i) is lower than a DC voltage (UDC) prevailing in the first network section (31a). At a first point in time (t), the two network sections (31a, 31i) are connected via a resistor current path (2) having a precharging resistor (6). At a subsequent second point in time (t<sub>2</sub>), as soon as the voltage (U<sub>2</sub>) in the second network section (31i) is between the initial voltage (U<sub>2\_t0</sub>) and the DC voltage (UDC), the two network sections (31a, 31i) are connected via a semiconductor switch (1) which is situated parallel to the resistor current path (2) and is operated in a clocked mode or in a linear mode as a controllable resistor.

IPC 8 full level

**H02J 1/06** (2006.01); **H02H 9/00** (2006.01)

CPC (source: EP US)

**H02H 9/001** (2013.01 - EP); **H02J 1/06** (2013.01 - EP US); **H02J 7/0068** (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 2020156689 A1 20200806**; CN 113383475 A 20210910; EP 3891858 A1 20211013; US 11942811 B2 20240326;  
US 2022094188 A1 20220324

DOCDB simple family (application)

**EP 2019064312 W 20190603**; CN 201980090821 A 20190603; EP 19729680 A 20190603; US 201917426225 A 20190603