

Title (en)

DIRECT-CURRENT INTERRUPTION APPARATUS, DIRECT-CURRENT INTERRUPTION METHOD

Title (de)

GLEICHSTROMUNTERBRECHUNGSVORRICHTUNG, GLEICHSTROMUNTERBRECHUNGSVERFAHREN

Title (fr)

APPAREIL D'INTERRUPTION DE COURANT CONTINU, PROCÉDÉ D'INTERRUPTION DE COURANT CONTINU

Publication

EP 3309809 B1 20191211 (EN)

Application

EP 16807123 A 20160608

Priority

- JP 2015118430 A 20150611
- JP 2016002782 W 20160608

Abstract (en)

[origin: EP3309809A1] A direct-current interruption apparatus of an embodiment includes a current path, a commutation element including a first semiconductor switch, a second semiconductor switch, a conductive path, and a nonlinear resistor. The current path includes a first switch and a second switch which are non-semiconductor devices and connected in series, the first switch having a first withstand voltage, and the second switch having a lower withstand voltage than the first withstand voltage. The commutation element has one end connected with a connection node of the first switch and the second switch and includes an element having a charge/discharge function and connected in series with the first semiconductor switch. The second semiconductor switch is between and connects with the other end of the commutation element and one end of the first switch which is opposite to the other end of the first switch connected with the second switch.

IPC 8 full level

H01H 9/54 (2006.01); **H01H 33/59** (2006.01); **H01H 33/66** (2006.01)

CPC (source: EP)

H01H 9/542 (2013.01); **H01H 33/596** (2013.01); **H01H 33/66** (2013.01); **H01H 2009/543** (2013.01)

Cited by

US11431160B2; WO2020253989A1; US11283258B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 3309809 A1 20180418; **EP 3309809 A4 20190306**; **EP 3309809 B1 20191211**; JP 2017004792 A 20170105; JP 6591210 B2 20191016; WO 2016199416 A1 20161215

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