

Title (en)
DIRECT-CURRENT CIRCUIT BREAKER

Title (de)
DIREKTSTROMSCHUTZSCHALTER

Title (fr)
DISJONCTEUR À COURANT CONTINU

Publication
EP 3896713 A4 20220727 (EN)

Application
EP 18942816 A 20181214

Priority
JP 2018046148 W 20181214

Abstract (en)
[origin: EP3896713A1] A direct-current circuit breaker according to an embodiment comprises a mechanical breaking part, an arrester, and a commutation device. The mechanical breaking part has at least one mechanical breaking unit. The at least one mechanical breaking unit has at least one unitized breaking part. Each of the at least one unitized breaking part has a mechanical contact section. All of the at least one unitized breaking part are connected in series to form a mechanical contact module. Both ends of the mechanical contact module are connected to a direct-current transmission system. The arrester is connected in parallel with the mechanical contact module. The commutation device has a commutation circuit. The commutation circuit is formed by connecting a reactor, a capacitor, and a closing device. The commutation circuit is connected in parallel with the mechanical contact module. The closing device is a high-speed closing device.

IPC 8 full level
H01H 33/59 (2006.01); **H01H 33/14** (2006.01); **H01H 33/28** (2006.01); **H01H 33/666** (2006.01); **H01T 2/02** (2006.01); **H01T 4/12** (2006.01)

CPC (source: EP)
H01H 33/008 (2013.01); **H01H 33/285** (2013.01); **H01H 33/596** (2013.01); **H01T 2/02** (2013.01); **H01T 4/12** (2013.01); **H01H 33/14** (2013.01); **H01H 33/666** (2013.01); **H01H 2009/543** (2013.01); **H01H 2033/6665** (2013.01)

Citation (search report)

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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

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