

Title (en)
DIRECT-CURRENT CIRCUIT BREAKER

Title (de)
GLEICHSTROMSCHUTZSCHALTER

Title (fr)
DISJONCTEUR À COURANT CONTINU

Publication
EP 4068326 B1 20240228 (EN)

Application
EP 19953832 A 20191129

Priority
JP 2019046772 W 20191129

Abstract (en)
[origin: EP4068326A1] This direct-current circuit breaker has a mechanical circuit breaker, a surge arrester, and a commutation circuit. The mechanical circuit breaker is connected to a first direct-current transmission line at a first end thereof and to a second direct-current transmission line at a second end thereof. The commutation circuit has a first switch, a second switch, a reactor, a capacitor, and a resistor. The commutation circuit, the surge arrester, and the mechanical circuit breaker are parallelly connected between the first direct-current transmission line and the second direct-current transmission line. The first switch, the capacitor, and the reactor are serially connected between the first direct-current transmission line and the second direct-current transmission line. The second switch and the resistor are serially connected and disposed in parallel with the first switch.

IPC 8 full level
H01H 33/59 (2006.01); **H01H 9/54** (2006.01)

CPC (source: EP)
H01H 9/542 (2013.01); **H01H 33/596** (2013.01); **H01H 33/168** (2013.01); **H01H 2009/543** (2013.01)

Cited by
EP4362053A1

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

DOCDB simple family (publication)
EP 4068326 A1 20221005; **EP 4068326 A4 20230816**; **EP 4068326 B1 20240228**; CN 114467161 A 20220510; CN 114467161 B 20240308; JP 7214893 B2 20230130; JP WO2021106191 A1 20210603; WO 2021106191 A1 20210603

DOCDB simple family (application)
EP 19953832 A 20191129; CN 201980100995 A 20191129; JP 2019046772 W 20191129; JP 2021561103 A 20191129