

Title (en)
DC CURRENT BREAKER DEVICE

Title (de)
GLEICHSTROMSCHUTZSCHALTER

Title (fr)
DISPOSITIF DISJONCTEUR À COURANT CONTINU

Publication
EP 3306635 A1 20180411 (EN)

Application
EP 16803332 A 20160531

Priority
• JP 2015112055 A 20150602
• JP 2016066018 W 20160531

Abstract (en)
A direct current circuit breaker is provided at a coupling point where three or more direct current power transmission lines (11 to 13) are electrically coupled in a direct current power transmission line network. The direct current circuit breaker includes three or more series circuits (2), each of the series circuit being connected to ends of two different direct current power transmission lines, and including a serial connection of two or more current disconnectors (21), and three or more wire connection circuits (3), one end of each of the wire connection circuits being connected to a middle point of the series circuit, and another end being connected to one point where other ends of the wire connection circuits are connected to, each of the wire connection circuits including a commutation circuit (31) in which a current is commutated.

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

CPC (source: EP)
H01H 9/54 (2013.01); **H01H 9/542** (2013.01); **H01H 33/596** (2013.01)

Cited by
FR3094136A1; US11798763B2; US11069502B2; WO2020193906A1; US11791617B2; US11824346B2

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)
EP 3306635 A1 20180411; **EP 3306635 A4 20190109**; **EP 3306635 B1 20191030**; JP 2016225198 A 20161228; JP 6591204 B2 20191016; WO 2016194898 A1 20161208

DOCDB simple family (application)
EP 16803332 A 20160531; JP 2015112055 A 20150602; JP 2016066018 W 20160531