

Title (en)
DIRECT-CURRENT INTERRUPTION DEVICE

Title (de)
GLEICHSTROMUNTERBRECHUNGSVORRICHTUNG

Title (fr)
DISPOSITIF D'INTERRUPTION DE COURANT CONTINU

Publication
EP 3267460 A4 20180801 (EN)

Application
EP 16758816 A 20160224

Priority
• JP 2015043243 A 20150305
• JP 2016055395 W 20160224

Abstract (en)
[origin: EP3267460A1] A DC breaker 1 includes a mechanical disconnection switch 2 provided at a power transmission line 100, a mechanical circuit breaker 20 connected in series to the mechanical disconnection switch 2, and a parallel circuit 3 connected in parallel with the mechanical disconnection switch 2 and the mechanical circuit breaker 20. The parallel circuit 3 includes a semiconductor circuit breaker 4 that changes a supply or a breaking of the current from the power transmission line 100 to the parallel circuit 3, and a reactor 55 connected in series to the semiconductor circuit breaker 4. An H-bridge circuit 5 which connects one point between the mechanical disconnection switch 2 and the mechanical circuit breaker 20 to one point between the semiconductor circuit breaker 4 and the reactor 55 is provided. The H-bridge circuit 5 includes an H-bridge unit 50 including a plurality of switching elements 51 and a capacitor 53. The H-bridge circuit 5 controls the current flowing through the mechanical circuit breaker 20 by an output voltage control.

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 33/59** (2013.01)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2016140122A1

Cited by
CN114365374A; US11705714B2; US11574777B2; CN110739167A; EP4016574A1; EP4016575A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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