

Title (en)  
DIRECT-CURRENT INTERRUPTION DEVICE

Title (de)  
GLEICHSTROMUNTERBRECHUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF D'INTERRUPTION DE COURANT CONTINU

Publication  
**EP 3267460 B1 20190626 (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)

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

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 3267460 A1 20180110; EP 3267460 A4 20180801; EP 3267460 B1 20190626;** JP 2016162713 A 20160905; JP 6430294 B2 20181128;  
WO 2016140122 A1 20160909

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