

Title (en)

Circuit breaker device for bidirectional direct current and installation with photovoltaic cells provided with such a device

Title (de)

Ausschaltvorrichtung für Zweirichtungsgleichstrom und photovoltaische Zellenanordnung mit einer solchen Vorrichtung

Title (fr)

Dispositif de coupure pour couper un courant continu bidirectionnel et installation à cellules photovoltaïques équipée d'un tel dispositif

Publication

**EP 2189996 B1 20110413 (FR)**

Application

**EP 09354041 A 20091019**

Priority

FR 0806541 A 20081121

Abstract (en)

[origin: EP2189996A1] The device (1) has a predefined even number of separable contacts (11, 12) comprising two contacts electrically connected to connection terminals. Arc chutes (14, 15) are provided with respective arc formation chambers (41, 42). Tripping mechanisms are associated with respective pairs of separable contacts to separate the separable contacts of the pairs in response to electric faults in an electric line. The tripping mechanisms are connected to each other by a mechanical link permitting simultaneous opening of separable contacts. An independent claim is also included for a photovoltaic cell installation comprising a panel.

IPC 8 full level

**H01H 9/40** (2006.01); **H01H 9/44** (2006.01)

CPC (source: EP US)

**H01H 9/40** (2013.01 - EP US); **H01H 9/443** (2013.01 - EP US); **H01H 71/1045** (2013.01 - EP US); **H01H 9/302** (2013.01 - EP US)

Cited by

DE102017212033A1; EP2461345A3; AU2011253735B2; EP2590193A1; CN103093987A; US8743531B2; US8502102B2; US9076606B2; WO2011147458A1; WO2013176940A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 2189996 A1 20100526; EP 2189996 B1 20110413**; AT E505802 T1 20110415; BR PI0904572 A2 20110208; BR PI0904572 B1 20200825; CN 101740274 A 20100616; CN 101740274 B 20140625; DE 602009001084 D1 20110526; DK 2189996 T3 20110627; ES 2360922 T3 20110610; FR 2938969 A1 20100528; RU 2009143071 A 20110527; RU 2510673 C2 20140410; US 2010126966 A1 20100527; US 8742278 B2 20140603

DOCDB simple family (application)

**EP 09354041 A 20091019**; AT 09354041 T 20091019; BR PI0904572 A 20091119; CN 200910226449 A 20091120; DE 602009001084 T 20091019; DK 09354041 T 20091019; ES 09354041 T 20091019; FR 0806541 A 20081121; RU 2009143071 A 20091120; US 59119209 A 20091112