

Title (en)

APPARATUS FOR SWITCHING DC CURRENT

Title (de)

VORRICHTUNG ZUM SCHALTEN VON GLEICHSTRÖMEN

Title (fr)

APPAREIL POUR COMMUTER DE COURANTS CONTINUS

Publication

**EP 2810291 A1 20141210 (DE)**

Application

**EP 12711812 A 20120309**

Priority

EP 2012054145 W 20120309

Abstract (en)

[origin: WO2013131582A1] The invention relates to a device (1) for switching direct currents in a pole of a DC voltage network, comprising two connection terminals (21, 22), between which extends an operating current path (2) having a mechanical switch (4) that can be bridged by a shut-off branch (3); a power switching unit (5) which is disposed in the shut-off branch (3) and has a series circuit of two-pole submodules (10) having at least one power semiconductor switch (11) that can be switched on or off; and commutation means (6) for commutating the current from the operating current path (2) to the turn-off branch (3). The aim of the device is to reliably control fault currents in a DC voltage network, wherein at the same time low on-state losses are produced. In order to achieve said aim, the commutation means (6) are arranged in the shut-off branch (3) and are designed to produce a circuit current that flows through the bridged section of the operating current path (2) and the turn-off branch (3), said circuit current being opposite the current to be switched.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2013131582A1

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