

Title (en)
CIRCUIT BREAKER

Title (de)
SCHUTZSCHALTER

Title (fr)
DISJONCTEUR

Publication
EP 3352193 A1 20180725 (EN)

Application
EP 15904074 A 20150916

Priority
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Abstract (en)

According to the present invention, a direct-current circuit breaker for a high voltage is obtained, which can reliably interrupt current ranging from a low current that is lower than or equal to 1 kA to a ground-fault current exceeding 1 kA. A circuit breaker includes: a first switching contact (1a, 1b) that opens and closes a direct-current electrical path (200); a second switching contact (2a, 2b) that is connected in series with the first switching contact (1a, 1b) and opens and closes the direct-current electrical path (200); and a semiconductor switch (4a, 4b) that is connected to both ends of the second switching contact (2a, 2b) such that the semiconductor switch (4a, 4b) is in parallel with the second switching contact (2a, 2b) and that opens and closes the direct-current electrical path (200). When a closing operation is performed, the semiconductor switch (4a, 4b) is closed after the first switching contact (1a, 1b) and the second switching contact (2a, 2b) are closed, and when an interrupting operation is performed, the semiconductor switch (4a, 4b) is opened after the first switching contact (1a, 1b) and the second switching contact (2a, 2b) are opened.

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Cited by
FR3116391A1; WO2022106527A1

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