

Title (en)
DC HIGH-SPEED CIRCUIT BREAKER

Title (de)
GLEICHSTROM-HOCHGESCHWINDIGKEITSSCHUTZSCHALTER

Title (fr)
DISJONCTEUR CC GRANDE VITESSE

Publication
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Application
EP 15865768 A 20151119

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Abstract (en)
The present invention is to provide a DC high-speed circuit breaker in which a high interruption performance can be obtained even from a large current to a small current. The arc chute includes: first insulation side plates which are arranged so as to sandwich the fixed main contact and the movable main contact from both sides, and form a first arc gas flow passage through which arc gas generated at the fixed main contact and the movable main contact is led to the outside of the arc chute; a plurality of grids which are arranged on the upper side of the fixed main contact and the movable main contact, and form a second arc gas flow passage, the second arc gas flow passage being configured to be a larger width than the space between the first insulation side plates, being communicated to the first arc gas flow passage, and having a larger sectional area than the sectional area of the first arc gas flow passage; and second insulation side plates which are arranged so as to sandwich the grids from both sides, and forms a third arc gas flow passage on the upper side of the grids, the third arc gas flow passage being communicated to the second arc gas flow passage and having a larger sectional area than the sectional area of the second arc gas flow passage.

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