

Title (en)

DC POWER SWITCH WITH A CURRENT DIRECTION INDEPENDENT ARC EXTINGUISHING DEVICE

Title (de)

GLEICHSTROM-SCHALTER MIT EINER VORRICHTUNG ZUR STROMRICHTUNGSUNABHÄNGIGEN LICHTBOGENLÖSCHUNG

Title (fr)

CONTACTEUR DE TENSION CONTINUE AVEC MOYEN D'EXTINCTION D'ARC DE COURANT DE SENS QUELCONQUE

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Application

EP 13770454 A 20130925

Priority

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Abstract (en)

[origin: WO2014049011A1] The invention relates to a direct current switch (10) with a device for arc extinction independent of current direction, comprising at least two interconnected switch units (12, 14, 16, 18), each switch unit having at least one current path (20, 22), which has an interruption surface (24, 26), and each current path having at least two switch contact elements (28, 30) for forming the interruption surface (24), further comprising at least one arc extinction device (32, 34), which is associated with one or a plurality of current paths of the switch units, and one or a plurality of devices for magnetic field generation (36), each generated magnetic field being assigned to an interruption surface of different switch units and being oriented such that its field lines run substantially transversally to the respective interruption surface, and wherein, given a determined direction of current flow, the deflection forces of at least two generated magnetic fields act through the flow paths contrary to arcs that extend in the longitudinal direction of the respective interruption surface such that at least one arc is deflected towards the arc extinction device and a further arc is deflected away from the arc extinction device.

IPC 8 full level

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CPC (source: CN EP US)

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Citation (search report)

See references of WO 2014049011A1

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