

Title (en)  
HIGH VOLTAGE DISCONNECTOR SWITCH

Title (de)  
HOCHSPANNUNGSTRENNSCHALTER

Title (fr)  
COMMUTATEUR DE DISJONCTEUR HAUTE TENSION

Publication  
**EP 4227971 A1 20230816 (EN)**

Application  
**EP 22155883 A 20220209**

Priority  
EP 22155883 A 20220209

Abstract (en)  
The invention relates to a high voltage disconnecter switch comprising a fixed first main contact (1) comprising at least one first contact element (4a), a fixed second main contact (2) comprising at least one second contact element (4b) and axially extending in extension of the fixed first main contact (1), a movable main contact (3) comprising an axially extending opening, arranged movably between an open position and a closed position and axially in parallel to the fixed first main contact (1) and the second main contact (2), whereby the movable main contact (3) is electrically connected in both positions via the at least one second contact element (4b) with the fixed second main contact (2) and only in the closed position via the at least one first contact element (4a) with the fixed first main contact (1), a fixed arcing contact (5) connected with a first end to the fixed first main contact (1), extending axially parallel to the movable main contact (3) and arranged for being encompassed on a second opposite end by the opening of the movable main contact (3), a movable arcing contact (6) movably arranged within the opening of the movable main contact (3), electrically connected via at least one third contact element (4c) to the movable main contact (3) and comprising a spring (8) arranged within the opening of the movable main contact (3) and configured for pushing, in the closed position, the movable arcing contact (6) onto and thereby electrically contacting the fixed arcing contact (5), and a power diode (7) arranged between the fixed first main contact (1) and the fixed arcing contact (5) and/or between the fixed arcing contact (5) and the movable arcing contact (6).

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CPC (source: EP)  
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Citation (search report)  
• [YA] US 2019198272 A1 20190627 - PETERS HAUKE [DE], et al  
• [Y] EP 2523203 A1 20121114 - ABB TECHNOLOGY AG [CH]  
• [Y] DE 1243759 B 19670706 - BBC BROWN BOVERI & CIE  
• [Y] EP 3624160 A1 20200318 - ABB SCHWEIZ AG [CH]  
• [Y] DE 1266855 B 19680425 - SPINDLER DEISSLER STARKSTROM  
• [Y] JP 2011142035 A 20110721 - TOSHIBA CORP, et al  
• [Y] EP 2728602 A1 20140507 - ABB TECHNOLOGY AG [CH]

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