

Title (en)  
LOAD BREAK SWITCH FOR THE MIDDLE VOLTAGE RANGE

Publication  
**EP 0214083 B1 19900613 (DE)**

Application  
**EP 86730115 A 19860722**

Priority  
DE 3527880 A 19850801

Abstract (en)  
[origin: EP0214083A1] 1. Load-isolating switch (1) for the medium-high voltage range comprising separable main contacts (8, 13) and an expulsion tube (19) consisting of plastics material, which comprises a movable contact member (11), with an arcing ring (27), and a fixed contact member (17) to which an arcing contact (30) is connected, which parts form a current path parallel to the main contacts (8, 13), the movable contact member (11) comprising a contact rod (20) having a locking head (10) and a ring-shaped peripheral flange (25) situated on that side of the contact rod (20) which is further from the locking head (10), the said flange being connected to the arcing ring (27) and terminating a piston-like quenching member (24) consisting of gas-emitting insulating material, which defines with the expulsion tube (19) a narrow gap (26), characterised in that the arcing ring (27) is slotted, forms at least one turn (39, 40) and, adjacent to the slot (41), is unilaterally connected to the peripheral flange (25) by means of a contact bridge (28), and in that the arcing contact (30) connected to the fixed contact member (17) is also formed as a slotted ring which, adjacent to the slot (31), is unilaterally connected to the rim (33) of the fixed contact member (17) by means of a contact bridge (32), the space between the rim (25; 33) of the fixed contact member (11) and/or the movable contact member (17) and the arcing contact (30) and/or the arcing ring (27), as well as the slot (31; 41) of the arcing ring (27) and/or of the arcing contact (30), being filled with insulating material.

IPC 1-7  
**H01H 33/12; H01H 33/18**

IPC 8 full level  
**H01H 33/12** (2006.01); **H01H 33/18** (2006.01)

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