

Title (en)
Rotary switch-disconnector

Title (de)
Drehbarer Lasttrennschalter

Title (fr)
Interrupteur-sectionneur rotatif

Publication
EP 2312603 A1 20110420 (EN)

Application
EP 09460044 A 20091015

Priority
EP 09460044 A 20091015

Abstract (en)
The subject of the invention is a rotary switch-disconnector with a double, serial clearance during the disconnection of electric contacts. A rotary switch-disconnector comprises a rotary shaft (1) with at least one bushing (2) with main movable contacts (12) and movable arcing contacts (13), located at the ends of the body (10) of the bushing (2). The frame (3) has attached to it at least one pair of piston insulators (6) containing main fixed contacts (14) placed on the line of revolution of the main movable contacts (12), and fixed arcing contacts (16). Each piston insulator (6) contains a cylinder (7) with a piston (8) which through a tension member (9) is connected in an articulated way with the body (10) of the bushing (2) in a way ensuring a simultaneous movement of the pistons (8) in the cylinders (7) with the revolution of the shaft (1). The inventive switch-disconnector is characterized in that the piston insulator (6) has attached to it a blow-out nozzle (17) comprising a blending chamber (19), a central channel (20) and at least one side channel (22) used to supply and swirl air in the blending chamber (19) when the switch-disconnector is being opened, which chamber is so situated in relation to the piston insulator (6) that the inlet(s) (W1) of the sides channels (22) is(are) connected with the outlet(s) (W3) of internal channels (23) which are connected with the inner surface of the cylinder (7) and are located outside the limits of the inlet (W4) of the movable arcing contact receiving channel (18) which is made in the piston insulator (6).

IPC 8 full level
H01H 33/12 (2006.01); **H01H 33/70** (2006.01); **H01H 33/91** (2006.01); **H01H 31/16** (2006.01); **H01H 33/77** (2006.01)

CPC (source: EP)
H01H 33/121 (2013.01); **H01H 33/703** (2013.01); **H01H 33/91** (2013.01); **H01H 31/16** (2013.01); **H01H 33/77** (2013.01); **H01H 2033/906** (2013.01)

Citation (applicant)
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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2312603 A1 20110420; WO 2011044983 A1 20110421

DOCDB simple family (application)
EP 09460044 A 20091015; EP 2010005692 W 20100914