

Title (en)  
Rotating switch with curved arc-runner path.

Title (de)  
Drehschalter mit gebogener Lichtbogenlaufbahn.

Title (fr)  
Interrupteur rotatif à piste courbe de migration d'une racine d'arc.

Publication  
**EP 0296915 A1 19881228 (FR)**

Application  
**EP 88401386 A 19880608**

Priority  
FR 8709009 A 19870625

Abstract (en)  
[origin: JPS6419639A] PURPOSE: To increase breaking capacity by fixing a permanent magnet to a contact containing a moving track, without mutually corresponding two hot spout with respect to two arc roots, and blowing the arc roots toward hidden positions to ensure easy arc extinguishment and current shutoff. CONSTITUTION: When a rotary switch is open with the rotation of a shaft 22, arc roots 48, 50 locked onto fixed contacts 14, 16 are blown with the action of the magnetic field of a permanent magnet 34 and moved on a cylindrical outer periphery 42 to form arc root moving tracks. Hot spots, corresponding to the arc roots 48, 50, are moved to hidden positions 52, 54 and, when arcs 44, 46 are extinguished naturally and transferred into a zero current, optimum reignition preventing conditions are obtained, so that no thermoelectric discharge occurs at the hot spots 52, 54 on the side opposite to a knife blade 28. In this way, the possibility for reigniting the arcs 44, 46 is prevented or restricted, when recovery voltage develops and breaking capacity is increased.

Abstract (fr)  
Interrupteur rotatif à enveloppe étanche (10) dans laquelle est logé un couteau rotatif (28) coopérant avec deux contacts fixes (14,16) portés par la périphérie interne de l'enveloppe (10). Un aimant permanent (34) est incorporé dans les contacts fixes (14,16) pour souffler magnétiquement les racines d'arc (48,50) sur une piste courbe de migration vers des emplacements cachés (52,54) qui ne sont pas en regard du couteau (28).L'invention est applicable à un interrupteur moyenne tension à isolement gazeux.

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

IPC 8 full level  
**H01H 9/44** (2006.01); **H01H 19/00** (2006.01); **H01H 33/12** (2006.01); **H01H 33/18** (2006.01); **H01H 33/65** (2009.01)

CPC (source: EP US)  
**H01H 1/2041** (2013.01 - EP US); **H01H 9/443** (2013.01 - EP US); **H01H 33/182** (2013.01 - EP US)

Citation (search report)

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