

Title (en)

AN ARC EXTINGUISHING NOZZLE AND A LOAD SWITCH WITH THE ARC EXTINGUISHING NOZZLE

Title (de)

LICHTBOGENLÖSCHDÜSE UND LASTSCHALTER MIT DER LICHTBOGENLÖSCHDÜSE

Title (fr)

BUSE D'EXTINCTION D'ARC ET COMMUTATEUR DE CHARGE COMPORTANT LA BUSE D'EXTINCTION D'ARC

Publication

EP 3916751 A1 20211201 (EN)

Application

EP 21176393 A 20210527

Priority

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Abstract (en)

The present invention relates to an arc extinguishing nozzle and a load switch having the same. The arc extinguishing nozzle is used for a rotary pressure-operated load switch. The load switch comprises an insulating housing filled with an arc extinguishing gas and a rotary blade capable of pivotally rotating with respect to the insulating housing. The load switch is capable of being in at least an on state and an isolated state according to rotation of the rotary blade. The arc extinguishing nozzle comprises: an opening portion, configured as an opening formed on the rotary blade and extending in a direction tangential to the rotary blade; and an arc confining portion, disposed on an inner surface and/or outer surface of the rotary blade and designed as a hollow shape protruding inward and/or outward for a certain length in the direction tangential to the rotary blade, wherein the arc confining portion and the opening portion are in communication to form a nozzle channel, such that the arc extinguishing gas compressed by the rotary blade in the insulating housing is ejected along the nozzle channel when the load switch changes from the on state to the isolated state.

IPC 8 full level

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Citation (search report)

- [XYI] EP 0281817 A1 19880914 - SACHSENWERK LICHT & KRAFT AG [DE]
- [Y] JP 2008071708 A 20080327 - CHUBU ELECTRIC POWER, et al
- [X] DE 3803117 A1 19890817 - SACHSENWERK AG [DE]

Designated contracting state (EPC)

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Designated extension state (EPC)

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