

Title (en)
ULTRARAPID-RELEASE CURRENT-LIMITER ELECTRICAL SWITCH

Publication
EP 0168888 A3 19870520 (EN)

Application
EP 85201125 A 19850709

Priority
IT 2261684 U 19840718

Abstract (en)
[origin: EP0168888A2] In an ultrarapid-release current-limiter electrical switch comprising at least a support with a stationary contact, at least a movable contact borne by an arm rotatably mounted in a movable unit and submitted to the action by a spring reacting against the movable unit, and a control mechanism with a control lever, an oscillatable lever kept stopped by a release device, a toggle lever system between said movable unit and said oscillatable lever and an extension spring acting between said control lever and the hinge of said toggle lever system, said support of the stationary contact and said movable contact bearing arm defining, under contact closure conditions, two portions parallel and close to each other in the current path, wherein currents of opposite sign flow, which are suitable to produce, in case of strong current intensities due to short-circuits, repulsive electrodynamic forces; between said movable contact bearing arm and said release device for the oscillatable lever of the control mechanism mechanical means are interposed suitable to cause, on a displacement of said arm by eletrodynamic repulsion, directly the release of said oscillatable lever.

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H01H 77/10

IPC 8 full level
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CPC (source: EP)
H01H 77/104 (2013.01); **H01H 71/2418** (2013.01); **H01H 71/42** (2013.01); **H01H 71/525** (2013.01); **H01H 2071/2427** (2013.01)

Citation (search report)
• [X] US 3505622 A 19700407 - STROBEL ALBERT
• [X] GB 2033159 A 19800514 - WESTINGHOUSE ELECTRIC CORP
• [X] DE 1238994 B 19670420 - LICENTIA GMBH
• [X] FR 2305010 A1 19761015 - LICENTIA GMBH [DE]
• [X] US 4346358 A 19820824 - HEFT ELDON B
• [X] FR 1393064 A 19650319 - LICENTIA GMBH

Cited by
FR2785085A1; DE19830017B4; DE10124985A1; DE10124985B4; EP1261009A3; EP2824689A1

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