

Title (en)

QUICK-ACTION CIRCUIT BREAKER

Publication

**EP 0516640 B1 19931013 (FR)**

Application

**EP 91903322 A 19910218**

Priority

EP 90870030 A 19900223

Abstract (en)

[origin: WO9113452A1] A quick-action circuit breaker assisted by a semiconductor control circuit comprising a repulsion coil, a repulsion disk (37) linked to a contact bridge (39) which carries movable contacts (41), said repulsion disk (37) co-operating with said repulsion coil (35), a device for keeping the contacts closed and acting on a tail attached to the repulsion disk (37), and a damping device (97) comprising a plunger rod (95) which is fastened to the repulsion disk (37) and a chamber (99) containing a fluid for absorbing the kinetic energy of the repulsion disk (37) - tail (43) - plunger rod (95) assembly when repulsed by the repulsion coil (35), by adapting the shapes of the plunger rod (95) and the chamber (99) to each other to form fluid discharge sections which vary according to the travel of the plunger rod (95), said travel having two strokes, one during acceleration wherein a large passage section is formed and one during braking wherein a gradually diminishing passage section is formed.

IPC 1-7

**H01H 3/22**; **H01H 3/60**; **H01H 33/28**

IPC 8 full level

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CPC (source: EP US)

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**WO 9113452 A1 19910905**; AU 653329 B2 19940929; AU 7210591 A 19910918; BR 9106069 A 19930202; CA 2076675 A1 19910824; CA 2076675 C 19990914; CS 9100464 A2 19911015; CZ 279386 B6 19950412; DE 69100511 D1 19931118; DE 69100511 T2 19940310; EP 0516640 A1 19921209; EP 0516640 B1 19931013; ES 2044724 T3 19940101; HU 208590 B 19931129; HU T61127 A 19921130; JP H05504229 A 19930701; JP H071659 B2 19950111; KR 0183451 B1 19990515; PL 167473 B1 19950930; SK 278078 B6 19951206; US 5521569 A 19960528; ZA 911157 B 19920226

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