

Title (en)
ELECTRICAL SWITCH

Title (de)
ELEKTRISCHER SCHALTER

Title (fr)
COMMUTATEUR ÉLECTRIQUE

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Application
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Abstract (en)
[origin: WO2021001012A1] The invention relates to an electrical switch (100) comprising an ON state and an OFF state for opening, closing or commutating a circuit between a first contact (110) and a second contact (120), and comprising a controllable resistor element (200) which is arranged electrically between the first contact (110) and the second contact (120), wherein the electrical switch (100) is closed in the ON state and is open in the OFF state, wherein the electrical switch (100) is transferred from the ON state into the OFF state, and vice versa, by means of a mechanical transit movement (T), wherein in order to open or commute the circuit by means of the transit movement (T), the resistance of the controllable resistor element (200) is increased, and wherein the transit movement (T) is configured such that the present drop in voltage at any point in time is smaller than the ignition voltage of an arc, and, as a result, the switch energy in the controllable resistor element (200) is dissipated in the form of electrical power loss.

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