

Title (en)
BISTABLE ELECTRICAL SWITCH AND RELAY WITH A BISTABLE ELECTRICAL SWITCH

Title (de)
BISTABILER ELEKTRISCHER SCHALTER UND RELAIS MIT EINEM SOLCHEN

Title (fr)
COMMUTATEUR ELECTRIQUE BISTABLE ET RELAIS COMPORTANT UN TEL COMMUTATEUR

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Abstract (en)
[origin: WO0199135A1] The invention relates to a bistable electrical switch, comprising a spring (101) which is configured in the form of a bistable elastic spring and which supports contact elements (114, 116) on the support strip (104) of the spring; and at least one driving element consisting of shape memory material per control state, for driving the spring. The spring has a leaf (110) which is permanently clamped at one end (102) and which is subjected to a compressive strain in the direction of its longitudinal extension. Buckling causes the leaf to yield to one side, into one of two stable terminal states. The areas of the spring adopt different lateral positions in the stable terminal positions. The driving elements (118, 119) act on the free end of the leaf and cause the leaf to switch to the second stable terminal state as a result of the inclination of the free end (104).

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