

Title (en)
LATCHING MECHANISM FOR LOCKING A SPRING ENERGY STORE

Title (de)
SCHALTSCHLOSS ZUM VERKLINKEN EINES FEDERSPEICHERS

Title (fr)
MECANISME DE VERROUILLAGE DESTINE AU VERROUILLAGE D'UN ACCUMULATEUR A RESSORTS

Publication
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Application
EP 02732358 A 20020326

Priority
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Abstract (en)
[origin: WO02086926A1] The invention relates to a latching mechanism for locking a spring energy store (1) of an electric switching device, said store being tensioned by a rotary drive (10 and 11) and an extensible lever system (2, 3 and 4). In said latching mechanism, the extensible lever system is locked with the spring energy store under tension by means of a support element (12), an auxiliary lock (14) and a primary lock (16), in addition to a stop (17) that is allocated to the primary lock (16), whereby the auxiliary lock (14) can be pivoted by the extension of the lever system and the position of the primary lock (16) during the pivoting of the auxiliary lock (14) can be influenced by working surfaces that are allocated to one another. To configure the locking mechanism for pivoting the primary lock (16) in a manner which obviates the use of a return spring that acts on said primary lock, the auxiliary lock (14) and the primary lock (16) respectively have at least two working surfaces (24, 25 and 26, 27). In a first pivoting phase of the auxiliary lock, the respective first surfaces of the two sets of working surfaces (24 and 26) lie adjacent to one another and in a second pivoting phase of the auxiliary lock, the second working surfaces (25 and 27) lie adjacent to one another, intermeshing in the manner of a toothed gear.

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Cited by
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