

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  
**EP 1382049 A1 20040121 (DE)**

Application  
**EP 02732358 A 20020326**

Priority  
• DE 0201156 W 20020326  
• DE 10120783 A 20010423

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.

IPC 1-7  
**H01H 3/30**

IPC 8 full level  
**H01H 33/42** (2006.01); **H01H 3/30** (2006.01); **H01H 33/40** (2006.01)

CPC (source: EP US)  
**H01H 3/3031** (2013.01 - EP US)

Citation (search report)  
See references of WO 02086926A1

Cited by  
DE102008008032A1; DE102010011997A1; DE102010011997B4

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 02086926 A1 20021031**; CN 1252759 C 20060419; CN 1503979 A 20040609; DE 10120783 C1 20021114; DE 50205348 D1 20060126; EP 1382049 A1 20040121; EP 1382049 B1 20051221; HK 1061920 A1 20041008; JP 2004527083 A 20040902; US 2004144629 A1 20040729; US 6870113 B2 20050322

DOCDB simple family (application)  
**DE 0201156 W 20020326**; CN 02808694 A 20020326; DE 10120783 A 20010423; DE 50205348 T 20020326; EP 02732358 A 20020326; HK 04104925 A 20040707; JP 2002584350 A 20020326; US 47560904 A 20040331