

Title (en)

Latch mechanism for locking a switch axis and electrical switch with such a latch mechanism

Title (de)

Schalt Schloss zum Verklinden einer Schaltwelle und elektrischer Schalter mit einem derartigen Schalt Schloss

Title (fr)

Mécanisme de verrouillage pour verrouiller un axe de commutation et interrupteur électrique comprenant un tel mécanisme de verrouillage

Publication

EP 1473754 A3 20060510 (DE)

Application

EP 04090097 A 20040310

Priority

DE 10320681 A 20030430

Abstract (en)

[origin: EP1473754A2] The switch lock (17) latches the switch pin (9) of an electric switch (1) which, against the force of a spring (7) can be moved by a drive rod (15) from an OFF position to an ON position. A first lever (21) is pivotally coupled to the drive rod. This abuts against a stop (23) in a latch position. A second lever (22) is provided. This has an operating surface associated with the stop. The second lever (22) is held by a second spring (28) against the first lever in a stop position. By pivoting the second lever under the effect of an initial force, which works against the force of the second spring, the operating surface acts on the stop such that the stop is moved to a release position. The force of the two springs act on the first lever independent of each other. Independent claims also cover an electric switch including such a trigger.

IPC 8 full level

H01H 71/50 (2006.01)

CPC (source: EP US)

H01H 71/50 (2013.01 - EP US); **H01H 71/505** (2013.01 - EP US)

Citation (search report)

[AD] US 6018284 A 20000125 - RIVAL MARC [FR], et al

Cited by

CN107146747A; CN102568953A; CN104377087A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1473754 A2 20041103; EP 1473754 A3 20060510; EP 1473754 B1 20111012; DE 10320681 A1 20041202; DE 10320681 B4 20061019; US 2004263294 A1 20041230; US 7038155 B2 20060502

DOCDB simple family (application)

EP 04090097 A 20040310; DE 10320681 A 20030430; US 83490104 A 20040430