

Title (en)  
Key-controlled safety switch

Title (de)  
Schlüsselsicherheitsschalter

Title (fr)  
Interrupteur de sécurité à clé

Publication  
**EP 0871188 B2 20050810 (EN)**

Application  
**EP 97117694 A 19971013**

Priority  
IT VI970054 A 19970411

Abstract (en)  
[origin: EP0871188A1] A key-controlled safety switch includes a box-like case (2) with a longitudinal axis (L) which internally accommodates a series of fixed electric contacts (4, 5) and moving electric contacts (6, 7) which are suitable to interact in order to change the state of the switch, and an actuation head with a prism-shaped cap (3) which has, on opposite sides of an end edge (14), two slots (12, 13) for the insertion of a key-type actuator (15) along two mutually perpendicular directions (  $\alpha$  ,  $\beta$  ), wherein the head (3) supports a cam (16) for the actuation of the moving contacts (6, 7) which can rotate about a substantially transverse pin (H), and locking devices for the cam (16) which include at least one slider (39) which can slide substantially at right angles to the rotation axis of the cam. The slider (39) and the cam (16) can be actuated exclusively with the key-type actuator (15). The direction of the sliding of the slider (39) is substantially perpendicular to the rotation axis (18) of the cam and is inclined with respect to both of the insertion directions of the actuator. The slots (12, 13) for the insertion of the actuator are substantially equidistant from the end edge (14). <IMAGE>

IPC 1-7  
**H01H 27/00**

IPC 8 full level  
**H01H 27/00** (2006.01)

CPC (source: EP)  
**H01H 27/002** (2013.01); **H01H 2027/005** (2013.01)

Citation (opposition)  
Opponent :

- EP 0707329 A1 19960417 - BERNSTEIN HANS SPEZIALFABRIK [DE]
- EP 0702386 A1 19960320 - SCHMERSAL K A GMBH & CO [DE]
- US 5420385 A 19950530 - COOPER ALAN R [GB]
- US 5777284 A 19980707 - MOHTASHAM MEDI [GB]
- WO 9825284 A1 19980611 - EUCHNER GMBH & CO [DE], et al

Cited by  
CN111668042A; DE102005050313B4; DE102005050313B8; US7345252B2; WO2013077817A1

Designated contracting state (EPC)  
AT CH DE ES FR GB IT LI

DOCDB simple family (publication)  
**EP 0871188 A1 19981014; EP 0871188 B1 20000906; EP 0871188 B2 20050810**; AT E196212 T1 20000915; DE 69703026 D1 20001012; DE 69703026 T2 20010503; DE 69703026 T3 20060629; ES 2151700 T3 20010101; ES 2151700 T5 20051216; IT 1292975 B1 19990211; IT VI970054 A0 19970411; IT VI970054 A1 19981011

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