

Title (en)
Key-controlled electromechanical safety switch with electromagnetic controlled blocking device

Title (de)
Elektromechanischer Schlüsselsicherheitsschalter mit elektromagnetischer Sperrvorrichtung

Title (fr)
Interrupteur électromécanique de sécurité à clé avec dispositif de verrouillage électromagnétique

Publication
EP 0977228 A3 20000920 (EN)

Application
EP 99202446 A 19990726

Priority
IT VI980141 A 19980727

Abstract (en)
[origin: EP0977228A2] A key-controlled electromechanical safety switch, in particular for machines or plants, which comprises a case (2) containing pairs of electric contacts (3,3'; 4,4') operatively coupled to a shank (10) slidable along a longitudinal axis (A), cam actuation means (6) located in an end portion or head (2'') of the case (2), interacting with the shank (10), at least one slot (8,8') on the head (2'') of said case (2) for insertion of a control key (7) adapted to interact with the actuation means (6) to control opening and closing of the contacts (3,3';4,4'), at least one blocking electromagnet (11) acting on the shank (5) to allow safe operation of the machine or installation. The electromagnet (11) comprises a core or full armature (13), distinct and separate from the shank (10), and the cam actuation means (6) include a cam (9) with at least one seat (23) adapted to interact with the key (7) to prevent its extraction when the electromagnet (11) is not excited. <IMAGE>

IPC 1-7
H01H 27/00

IPC 8 full level
H01H 27/00 (2006.01)

CPC (source: EP)
H01H 27/007 (2013.01); **H01H 2027/005** (2013.01)

Citation (search report)
[DX] WO 9518457 A1 19950706 - EJA ENG PLC [GB], et al

Cited by
JP2012221956A; DE102005015797B4; EP1876623A1; DE102005050313B4; DE102005050313B8; IT201600096401A1; CN109791856A; KR20190047729A; US7893802B2; US7345252B2; US7271355B2; WO2018055597A1; WO2007053635A1; WO2021156009A1

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