

Title (en)
SECURITY SWITCH WITH AN UN AUTHORISED-CLOSURE PROVISION

Publication
EP 0117396 B1 19860820 (DE)

Application
EP 84100259 A 19840112

Priority
DE 3302631 A 19830127

Abstract (en)
[origin: EP0117396A1] 1. Security switch with an unauthorised-closure provision, which comprises a switch housing (3) with a switch enclosed by the latter, a plunger (20) guided by the wall of the switch housing, and a control roller (8 ; 108) which is connected in an articulated manner to the plunger via toggle levers (7 ; 107) and is arranged pivotably on a shaft (6 ; 106) in a control housing (4), and which has on its periphery a sector-like recess (28), into which an actuating bar (2 ; 102) assigned to the control housing and inserted through a slot (13, 130) in the control housing (4) can engage by means of its front free end designed as a crossmember (14 ; 114) in front of an aperture (15), in order to rotate the control roller, characterized in that the control roller (8 ; 108) has assigned to it at least one freely pivotable detent disc (21 ; 121) which, at its end projecting into the slot (13 ; 130) in the control housing (4), has a radially projecting control nose (27 ; 127) and also a cam slot (22, 24, 25 ; 122, 124, 125, 128) for receiving an axle (19 ; 119) connecting the plunger (20) of the switch to the toggle levers (7 ; 107) in an articulated manner, the cam slot comprising a shorter slot part (22 ; 122) which, in the initial position of the detent disc (21 ; 121), receives the axle (19 ; 119) and which retains it before the contacts of the switch are closed, and a longer slot part (25 ; 125) which is connected to the said shorter slot part (22 ; 12) by means of a middle guide part (24 ; 124) and, in the working position of the detent disc (21 ; 121), receives the axle (19 ; 119), and which allows it to move further under the effect of the control roller (8 ; 108) until the contacts of the switch are closed, and the actuating bar (2 ; 102) having, at its free end, a projection (10 ; 110) which is assigned to the detent disc (21 ; 121) and, when the actuating bar (2 ; 102) is introduced into the slot (13 ; 130) in the control housing (4), comes up against the control nose (27 ; 127) of the associated detent disc (21 ; 121) and, during further introduction, pivots the detent disc out of the initial position into the working position.

IPC 1-7
H01H 27/00

IPC 8 full level
H01H 27/00 (2006.01)

CPC (source: EP)
H01H 27/002 (2013.01)

Cited by
DE29609012U1; DE4029344A1; DE3819753A1; DE4031348A1; DE3943376C1; FR2655182A1; EP0175156A3; EP0707329A1; DE4436579A1; DE4039652C1; EP0869524A1; US6118087A; FR2655184A1; US6194674B1; WO9110247A1

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