

Title (en)

EMERGENCY PUSH SWITCH WITH CORRECT ASSEMBLY REPORTING MEANS

Title (de)

DRUCKBETÄTIGBARER SICHERHEITSSCHALTER MIT ÜBERWACHUNGSFUNKTION

Title (fr)

BOUTTON-POUSOIR DE SECURITE AVEC DISPOSITIF DE DETECTION L'ASSEMBLAGE CORRECT

Publication

EP 3011576 A1 20160427 (DE)

Application

EP 14732155 A 20140618

Priority

- DE 102013106472 A 20130620
- EP 2014062805 W 20140618

Abstract (en)

[origin: WO2014202654A1] Disclosed is a security switch, which has a switch head (comprising actuation means and a button top), wherein the security switch is mounted in a housing wall 31 in a mounting opening by means of fixing means (screw ring 34). The actuation means (plunger 12) is designed so as to actuate contact elements of a switch module 18 upon actuation into the switch position. In security switches, the problem is known that a defective assembly of switch top and switch module or an unreliable separation between switch top and switch module cannot be identified from the outside, and the desired security shutdown does not function. The switch module 18 is therefore extended by a signalling switch block 20 that contains contact elements located in the signalling flow path, wherein, in the assembly state of the security switch, the signalling switch block is subjected to an actuation pin 46 that is rigidly arranged thereon. If the assembly state is undone or changed, the actuation pin disengages from the signalling switch block 20 and the signalling flow path 42 opens. The actuation pin and the signalling switch block are located outside the actuation region 100 of the actuation means (plunger 12) of the security switch.

IPC 8 full level

H01H 3/02 (2006.01); **H01H 13/50** (2006.01); **H01H 13/52** (2006.01); **H01H 13/62** (2006.01)

CPC (source: EP US)

H01H 3/022 (2013.01 - EP US); **H01H 13/50** (2013.01 - EP US); **H01H 13/52** (2013.01 - EP US); **H01H 13/62** (2013.01 - EP US)

Citation (search report)

See references of WO 2014202654A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014202654 A1 20141224; CA 2916124 A1 20141224; CA 2916124 C 20180206; CN 105340040 A 20160217; CN 105340040 B 20170714; EP 3011576 A1 20160427; EP 3011576 B1 20180221; EP 3011576 B8 20180411; PL 3011576 T3 20180928; US 2016196933 A1 20160707; US 9589741 B2 20170307

DOCDB simple family (application)

EP 2014062805 W 20140618; CA 2916124 A 20140618; CN 201480035011 A 20140618; EP 14732155 A 20140618; PL 14732155 T 20140618; US 201414898774 A 20140618