

Title (en)

Switch with a trip device

Title (de)

Schalter mit Auslöseeinrichtung

Title (fr)

Interrupteur muni d'un dispositif de déclenchement

Publication

**EP 1383150 A1 20040121 (FR)**

Application

**EP 03354049 A 20030602**

Priority

FR 0209054 A 20020717

Abstract (en)

The device has a disengageable transmission drive train (54) which can be moved between an engaged state and a disengaged state. Movement transmission between a bistable sub-arrangement (22) and a movable contact (10) is ensured when the drive train is in the engaged state, so that when the sub- arrangement is in the open position, the contact is in the separation position, whilst when the sub-arrangement is in the closed position, the contact is in the contact position. The contact becomes independent from the sub-arrangement when the drive train is in the disengaged state. The disconnection mechanism comprises a support (21), a contact which is movable relative to the support between separation and contact positions and a bistable sub-arrangement cooperating with a spring accumulator (20) so that the sub-arrangement is pivoted between open and closed positions. The spring is tensioned as the sub-arrangement approaches an intermediate dead point between its open and closed positions and then relaxes as it moves away from this dead point, causing the sub-arrangement to become spring-loaded.

Abstract (fr)

Le porte contact 10 d'un appareil électrique de coupure est relié à un sous-ensemble bistable 22 coopérant avec un ressort d'accumulation 20 par l'intermédiaire d'une chaîne cinématique de transmission débrayable 54, ce qui permet d'ouvrir l'appareil rapidement et avec une faible énergie sans avoir à déplacer le sous-ensemble bistable 22 de la position stable de fermeture à la position stable d'ouverture. Une fois la chaîne cinématique 54 débrayée, le ressort d'accumulation 20 et/ou un ressort additionnel 88 entraînent le porte contact 10 vers la position de séparation. Le système comporte un verrou de déclenchement 82 libérant le ressort utilisé dans la séquence de déclenchement, le mouvement du ressort permettant de déverrouiller un verrou de débrayage 80 de la chaîne cinématique débrayable. <IMAGE>

IPC 1-7

**H01H 71/52**

IPC 8 full level

**H01H 71/52** (2006.01)

CPC (source: EP)

**H01H 71/52** (2013.01)

Citation (search report)

[A] DE 19507605 C1 19960822 - ABB PATENT GMBH [DE]

Designated contracting state (EPC)

BE DE ES GB IT PT

DOCDB simple family (publication)

**EP 1383150 A1 20040121; EP 1383150 B1 20110504; CN 1263062 C 20060705; CN 1479331 A 20040303; DE 60336964 D1 20110616; ES 2361982 T3 20110624; FR 2842645 A1 20040123; FR 2842645 B1 20040910; HU 0302180 D0 20030929; HU P0302180 A2 20040428; HU P0302180 A3 20040528; NO 20033109 D0 20030707; NO 324224 B1 20070910; PL 204998 B1 20100226; PL 361298 A1 20040126**

DOCDB simple family (application)

**EP 03354049 A 20030602; CN 03145881 A 20030717; DE 60336964 T 20030602; ES 03354049 T 20030602; FR 0209054 A 20020717; HU P0302180 A 20030711; NO 20033109 A 20030707; PL 36129803 A 20030716**