

Title (en)

Circuit interrupter that produces snap-action connection and disconnection between electrical contacts

Title (de)

Schutzschalter, der eine Schnappanschlaltung und -abschlaltung zwischen elektrischen Kontakten erzeugt

Title (fr)

Interrupteur pour produire une connexion et une interruption brusques des contacts électriques

Publication

EP 1936645 A1 20080625 (EN)

Application

EP 06256509 A 20061221

Priority

EP 06256509 A 20061221

Abstract (en)

An apparatus and method to minimize teasing and contact welding at contact points includes a switch having a first contact movable toward a second contact from a switch-deactuated position to a switch-actuated position and movable away from the second contact from the switch-actuated position back to the switch-deactuated position. A transfer carriage is operatively engaged with the first contact and includes a flip-flop mechanism for bringing the first contact into contact with the second contact and releasing the first contact from the second contact. The flip-flop mechanism utilizes a transfer barrier to switch between the switch-actuated and switch-deactuated positions. An actuator imparts movement on the transfer carriage to overcome the transfer barrier when moving between the switch-deactuated and switch-actuated positions.

IPC 8 full level

H01H 5/04 (2006.01); **H01H 13/62** (2006.01)

CPC (source: EP)

H01H 5/045 (2013.01); **H01H 13/62** (2013.01); **H01H 9/06** (2013.01); **H01H 13/08** (2013.01)

Citation (applicant)

- DE 10217406 A1 20021024 - MARQUARDT GMBH [DE]
- US 2347874 A 19440502 - BLUEMLE ARNOLD A
- US 4154996 A 19790515 - ARNOLD JOHN E [US]
- DE 19930558 A1 20000127 - MARQUARDT GMBH [DE]
- EP 1174892 A2 20020123 - KOPP HEINRICH AG [DE]
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Citation (search report)

- [XY] DE 10217406 A1 20021024 - MARQUARDT GMBH [DE]
- [X] US 2347874 A 19440502 - BLUEMLE ARNOLD A
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- [X] US 4154996 A 19790515 - ARNOLD JOHN E [US]
- [Y] EP 1174892 A2 20020123 - KOPP HEINRICH AG [DE]

Cited by

KR20230003585A; EP3101671A3; US11742157B2; US9818558B2; WO2018168131A1; US10862230B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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