

Title (en)

Switching mechanism for air circuit breaker and toggle links thereof

Title (de)

Schaltmechanismus für einen Druckluftschalter und Umschaltverknüpfungen dafür

Title (fr)

Mécanisme de commutation pour un disjoncteur à air et bielles de guidage correspondantes

Publication

EP 1939903 A1 20080702 (EN)

Application

EP 07023461 A 20071204

Priority

KR 20060033041 U 20061229

Abstract (en)

Disclosed are a switching mechanism for an air circuit breaker, and toggle links thereof capable of preventing interference or collision therebetween while the air circuit breaker performs a closing operation and an opening operation. The toggle links comprise: a first link (29) configured to be rotatable; a second link (34) having one end connected to the first link, rotatable by a discharging elastic energy of a closing spring, and having one pair of extension portions (55) extended towards the first link so as to prevent interference with the first link by interposing the first link therebetween; and a third link (35) having one end connected to the second link, and rotated together with the second link, for moving the movable contactor to the closing position.

IPC 8 full level

H01H 3/46 (2006.01)

CPC (source: EP KR)

H01H 3/3052 (2013.01 - KR); **H01H 3/46** (2013.01 - EP KR); **H01H 33/40** (2013.01 - KR); **H01H 71/528** (2013.01 - KR);
H01H 3/3052 (2013.01 - EP); **H01H 2003/3089** (2013.01 - KR)

Citation (applicant)

- US 5224590 A 19930706 - MILIANOWICZ STANISLAW A [US], et al
- EP 1130615 A2 20010905 - SIEMENS AG [DE]

Citation (search report)

- [Y] US 5224590 A 19930706 - MILIANOWICZ STANISLAW A [US], et al
- [Y] EP 1130615 A2 20010905 - SIEMENS AG [DE]

Cited by

US8119942B2; US9484161B2

Designated contracting state (EPC)

DE ES FR GB IT

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1939903 A1 20080702; **EP 1939903 B1 20100512**; CN 101211720 A 20080702; CN 101211720 B 20110601;
DE 602007006405 D1 20100624; ES 2345362 T3 20100921; KR 200442291 Y1 20081027; KR 20080002431 U 20080703;
MY 153222 A 20150129; RU 2007149529 A 20090710; RU 2376670 C2 20091220

DOCDB simple family (application)

EP 07023461 A 20071204; CN 200710305739 A 20071228; DE 602007006405 T 20071204; ES 07023461 T 20071204;
KR 20060033041 U 20061229; MY PI20072181 A 20071206; RU 2007149529 A 20071227