

Title (en)

Closing spring assembly of switching mechanism for air circuit breaker

Title (de)

Schliessfederanordnung eines Schaltmechanismus für einen Luftunterbrecherschalter

Title (fr)

Ensemble de ressort de fermeture d'un mécanisme de commutation pour un disjoncteur à air

Publication

EP 1914771 A3 20090916 (EN)

Application

EP 07019929 A 20071011

Priority

KR 20060101054 A 20061017

Abstract (en)

[origin: EP1914771A2] Disclosed is a closing spring assembly of a switching mechanism (1) for an air circuit breaker which is capable of being produced with low cost by a general pressing process, and of supporting a load caused by an elastic energy of the closing spring, comprising: a closing spring (3), a first spring seat member (7), a second spring seat plate (6), a spring guide pin (5) having both end portions connected to the first spring seat member (7) and the second spring seat plate (6), and installed to penetrate the closing spring so as to guide and support the closing spring, and a supporting bracket (4) for supporting the second spring seat plate (6) of the closing spring (3) to be rotatable within a limited angle.

IPC 8 full level

H01H 3/30 (2006.01)

CPC (source: EP KR)

H01H 3/30 (2013.01 - EP KR); **H01H 31/02** (2013.01 - KR); **H01H 69/00** (2013.01 - KR); **H01H 71/10** (2013.01 - KR)

Citation (search report)

- [A] US 5856643 A 19990105 - GRESS JR DANIEL D [US], et al
- [A] US 4713508 A 19871215 - BAGINSKI PIERRE [FR], et al
- [E] EP 1975954 A2 20081001 - EATON CORP [US]

Cited by

CN104021996A

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1914771 A2 20080423; **EP 1914771 A3 20090916**; **EP 1914771 B1 20120613**; CN 101165833 A 20080423; CN 101165833 B 20120111; ES 2389508 T3 20121026; KR 100798339 B1 20080128; MY 153162 A 20150129; RU 2358350 C1 20090610

DOCDB simple family (application)

EP 07019929 A 20071011; CN 200710182324 A 20071017; ES 07019929 T 20071011; KR 20060101054 A 20061017; MY PI20071785 A 20071016; RU 2007138408 A 20071016