

Title (en)

Bearing assembly of switching mechanism for air circuit breaker and fabrication method thereof

Title (de)

Lageranordnung für einen Schaltmechanismus eines Luftleistungsschalters und Herstellungsverfahren dafür

Title (fr)

Ensemble de palier de support d'un mécanisme de commutation pour disjoncteur à air et son procédé de fabrication

Publication

EP 1914776 A1 20080423 (EN)

Application

EP 07019933 A 20071011

Priority

KR 20060101053 A 20061017

Abstract (en)

A bearing assembly of a switching mechanism for an air circuit breaker having multiple rotational shafts, that includes: a trust bearing (3); and a trust bearing support member (4) that includes an axial hole wall (4d), an inner diameter part (4c) contacting with the trust bearing, a flange part (4a) extending from the inner diameter part, a rounded part (4b) formed between the inner diameter part (4c) and the flange part (4a), and an annular recess portion (4e) formed at a lower portion of the flange part by pressing to lengthen the inner diameter part and shorten the length of the rounded part to thus increase the area contacting with the trust bearing. Because the contact area between the trust bearing and the bearing support member is increased, deformation of the bearing support member due to an axial load can be minimized.

IPC 8 full level

H01H 3/32 (2006.01)

CPC (source: EP KR)

H01H 3/3015 (2013.01 - KR); **H01H 3/32** (2013.01 - EP KR); **H01H 31/02** (2013.01 - KR); **H01H 71/10** (2013.01 - KR);
H01H 3/3015 (2013.01 - EP); **H01H 2003/326** (2013.01 - EP KR)

Citation (search report)

- [A] US 3600540 A 19710817 - BOULD FRED
- [A] US 4336516 A 19820622 - BRATKOWSKI WALTER V, et al
- [A] US 5704717 A 19980106 - COCHIMIN JIMMY [US]
- [A] US 1923892 A 19330822 - NEWTON SKILLMAN

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1914776 A1 20080423; **EP 1914776 B1 20100331**; CN 101183621 A 20080521; CN 101183621 B 20101110;
DE 602007005572 D1 20100512; ES 2343753 T3 20100809; KR 100807542 B1 20080229; MY 153158 A 20150129; RU 2346348 C1 20090210

DOCDB simple family (application)

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KR 20060101053 A 20061017; MY PI20071798 A 20071017; RU 2007138410 A 20071016