

Title (en)

ROTARY SHAFT DEVICE OF CIRCUIT BREAKER

Title (de)

DREHWELLENVORRICHTUNG EINES LEISTUNGSSCHALTERS

Title (fr)

DISPOSITIF D'ARBRE ROTATIF DE DISJONCTEUR

Publication

EP 3428945 A4 20191204 (EN)

Application

EP 16893272 A 20161024

Priority

- CN 201610127244 A 20160307
- CN 2016103022 W 20161024

Abstract (en)

[origin: EP3428945A1] A rotating shaft device of a circuit breaker comprises a plurality of contact supports provided with movable contacts, and a rotating shaft being in linkage with the plurality of contact supports. An operating mechanism drives the plurality of contact supports to rotate synchronously to drive the movable contacts to be in contact with and separated from static contacts, thereby realizing switching-on and switching-off of the circuit breaker. The rotating shaft has a parallelogram radial section. Each contact support is provided with a shaft groove having a V-shaped structure in which the rotating shaft is mounted. The rotating shaft device further comprises a clamping plate provided with a fixing groove having a V-shaped structure. The fixing groove having the V-shaped structure corresponds to the shaft groove having the V-shaped structure. The contact supports are fixedly connected to the clamping plate. The rotating shaft is fixed in a space defined by the shaft groove and the fixing groove. The shaft groove is matched with two adjacent sides of the rotating shaft, and the fixing groove is matched with another two adjacent sides of the rotating shaft, such that the plurality of contact supports are in stable and firm linkage by means of the rotating shaft.

IPC 8 full level

H01H 71/02 (2006.01); **H01H 71/10** (2006.01); **H01H 73/04** (2006.01)

CPC (source: CN EP RU)

H01H 71/02 (2013.01 - EP RU); **H01H 71/0207** (2013.01 - CN); **H01H 71/10** (2013.01 - EP); **H01H 73/04** (2013.01 - EP); **H01H 1/226** (2013.01 - EP); **H01H 71/0207** (2013.01 - EP)

Citation (search report)

- [A] WO 2010079524 A1 20100715 - BTICINO SPA [IT], et al
- See references of WO 2017152627A1

Designated contracting state (EPC)

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