

Title (en)
A CIRCUIT BREAKER

Title (de)
SCHUTZSCHALTER

Title (fr)
DISJONCTEUR

Publication
EP 3716305 A1 20200930 (EN)

Application
EP 20166458 A 20200327

Priority
CN 201920409727 U 20190328

Abstract (en)
Embodiments of the present disclosure provide a circuit breaker. The circuit breaker comprises: a shaft including a first section and a second section; a movable contact assembly arranged on the shaft along an extending direction of the shaft and including a movable contact; and a driving mechanism coupled to the first section and adapted to drive the movable contact assembly to rotate with the shaft, such that the movable contact contacts with or disengages from a stationary contact of the circuit breaker, wherein the shaft further comprises an insulating layer disposed on the first section and the second section. The effective insulation protection for the shaft is achieved by the insulating layer arranged on the first section and second section, thereby avoiding the breakdown of the shaft upon the short circuit and reducing the risk of the inter-phase short circuit.

IPC 8 full level
H01H 9/48 (2006.01); **H01H 71/10** (2006.01)

CPC (source: EP KR)
H01H 3/32 (2013.01 - KR); **H01H 9/48** (2013.01 - EP); **H01H 71/1009** (2013.01 - KR); **H01H 71/1027** (2013.01 - EP); **H01H 1/2058** (2013.01 - EP); **H01H 2050/028** (2013.01 - EP); **H01H 2071/1036** (2013.01 - EP)

Citation (search report)
• [XY] DE 2507454 B1 19760513 - ELLENBERGER & POENSGEN
• [YA] CN 208077912 U 20181109 - ZHEJIANG CHINT ELECTRIC APPLIANCE CO LTD, et al
• [A] EP 3291272 A1 20180307 - LSIS CO LTD [KR]
• [A] KR 20130035742 A 20130409 - LSIS CO LTD [KR]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3716305 A1 20200930; **EP 3716305 B1 20230809**; CN 209434123 U 20190924; DK 3716305 T3 20230925; KR 102388640 B1 20220419; KR 20200115365 A 20201007; PL 3716305 T3 20240212

DOCDB simple family (application)
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