

Title (en)

RESIDUAL CURRENT FAULT INDICATOR MECHANISM AND CIRCUIT BREAKER WITH RESIDUAL CURRENT FAULT INDICATOR MECHANISM

Title (de)

FEHLERSTROM-RESTSTROM-ANZEIGEMECHANISMUS UND SCHUTZSCHALTER MIT FEHLERSTROM-ANZEIGEMECHANISMUS

Title (fr)

MÉCANISME INDICATEUR DE DÉFAUT DE COURANT RÉSIDUEL ET DISJONCTEUR AVEC MÉCANISME INDICATEUR DE DÉFAUT DE COURANT RÉSIDUEL

Publication

EP 4173019 A1 20230503 (EN)

Application

EP 21749829 A 20210727

Priority

- CN 202010736241 A 20200728
- EP 2021071025 W 20210727

Abstract (en)

[origin: WO2022023354A1] The present invention provides a leakage fault indicator mechanism for a circuit breaker, which comprises an indicator and a driving assembly that is used for leakage fault protection. The indicator is rotatably connected to a housing, and a first reset elastic element is connected between the indicator and the housing. The driving assembly is arranged in the housing, and the driving assembly is switchable to a closed and locked state as driven by a handle. When a leakage fault occurs, the push rod of the leakage fault tripping member unlocks the driving assembly, so that as driven by the driving assembly, the action connecting rod opens the circuit breaker, and as driven by the first reset elastic element, the indicator rotates and indicates the leakage fault. A leakage fault indicator mechanism of the present invention is completely independent of the switching function of a circuit breaker, and may be used as an independent unit of a circuit breaker, having great independence and high reliability. The present invention further provides a circuit breaker with the above-described leakage fault indicator mechanism.

IPC 8 full level

H01H 71/04 (2006.01)

CPC (source: CN EP)

H01H 71/04 (2013.01 - CN EP); **H01H 71/12** (2013.01 - CN); **H01H 71/1027** (2013.01 - EP); **H01H 71/526** (2013.01 - EP); **H01H 2071/042** (2013.01 - EP)

Citation (search report)

See references of WO 2022023354A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022023354 A1 20220203; CN 114005710 A 20220201; EP 4173019 A1 20230503

DOCDB simple family (application)

EP 2021071025 W 20210727; CN 202010736241 A 20200728; EP 21749829 A 20210727