

Title (en)

OVERCURRENT TRIP DEVICE, AND CIRCUIT BREAKER USING SAME

Title (de)

ÜBERSTROMAUSLÖSEVORRICHTUNG UND SCHUTZSCHALTER DAMIT

Title (fr)

DISPOSITIF DE DÉCLENCHEMENT PAR SURINTENSITÉ ET DISJONCTEUR L'UTILISANT

Publication

EP 4266343 A4 20240306 (EN)

Application

EP 20965940 A 20201217

Priority

JP 2020047083 W 20201217

Abstract (en)

[origin: EP4266343A1] To obtain an overcurrent trip device which can realize a reduction in the size of the device and a circuit breaker using the same. An overcurrent trip device (100) includes a conductor (3) connected to a main circuit of a circuit breaker (200); a stationary core (1) which is formed so as to enclose the conductor (3) and one portion of which is opened; and a moving core (2) which is disposed in the opened position of the stationary core (1) with a magnetic gap (4) interposed between the moving core and the stationary core (1), is disposed so as to be movable by an electromagnetic force of when an overcurrent flows through the conductor (3), wherein the stationary core (1) is disposed in abutment with the conductor (3), and the moving core (2) is in contact with the conductor (3) when no overcurrent flows through the conductor (3) before in operation.

IPC 8 full level

H01H 73/36 (2006.01); **H01H 71/24** (2006.01)

CPC (source: EP)

H01H 71/2409 (2013.01); **H01H 71/2454** (2013.01); **H01H 71/2463** (2013.01); **H01H 73/36** (2013.01); **H01H 2071/249** (2013.01)

Citation (search report)

- [XY] EP 3312865 A1 20180425 - MITSUBISHI ELECTRIC CORP [JP]
- [YA] WO 2020230684 A1 20201119 - MITSUBISHI ELECTRIC CORP [JP]
- [A] DE 29723307 U1 19980806 - AEG NIEDERSPANNUNGSTECH GMBH [DE]
- See also references of WO 2022130552A1

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)

EP 4266343 A1 20231025; **EP 4266343 A4 20240306**; JP 7412600 B2 20240112; JP WO2022130552 A1 20220623;
WO 2022130552 A1 20220623

DOCDB simple family (application)

EP 20965940 A 20201217; JP 2020047083 W 20201217; JP 2022569411 A 20201217