

Title (en)
CIRCUIT BREAKER

Title (de)
SCHUTZSCHALTER

Title (fr)
DISJONCTEUR

Publication
EP 4105958 A4 20230329 (EN)

Application
EP 20919223 A 20200210

Priority
JP 2020005081 W 20200210

Abstract (en)
[origin: EP4105958A1] The traveling contact connected to and separated from the fixed contact, the rod-shaped latch (11) that is rotatably pivotally supported in the barycentric region between one end having a latch engaging part (11a) and the other end driven by tripping, the insulating rod (6) having a latch pin (S1) at one end that engages with the latch engaging part, the input actuator (7) that drives the other end of the insulating rod, and the spring (9) for opening that drives the traveling contact in the opening direction are provided, when the other end of the latch is pulled off and driven while the traveling contact is closed to the fixed contact, the engagement between the latch engaging part and the latch pin is disengaged, and the traveling contact is driven in the opening direction by the opening spring, with the traveling contacts open, the latch pin is driven in the input direction via the insulating rod by the input actuator, the latch is driven in the input direction via the latch engaging part, and the traveling contact is driven in the opening direction with the fixed contact, it is not easily affected by vibration, and it is possible to stabilize the closing operation and the closing holding.

IPC 8 full level
H01H 3/30 (2006.01); **H01H 33/40** (2006.01); **H01H 33/42** (2006.01)

CPC (source: EP)
H01H 3/28 (2013.01); **H01H 3/3031** (2013.01); **H01H 33/40** (2013.01); **H01H 33/42** (2013.01); **H01H 33/6662** (2013.01)

Citation (search report)
• [XDY] JP 2015162402 A 20150907 - MITSUBISHI ELECTRIC CORP
• [X] US 6232569 B1 20010515 - NAKAJIMA NOBUYA [JP], et al
• [Y] US 4343030 A 19820803 - DATE K HENRY, et al
• See references of WO 2021161370A1

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 4105958 A1 20221221; **EP 4105958 A4 20230329**; JP 6858932 B1 20210414; JP WO2021161370 A1 20210819;
WO 2021161370 A1 20210819

DOCDB simple family (application)
EP 20919223 A 20200210; JP 2020005081 W 20200210; JP 2020536706 A 20200210