

Title (en)
CIRCUIT BREAKER

Title (de)
SCHUTZSCHALTER

Title (fr)
DISJONCTEUR

Publication
EP 4068328 A4 20240110 (EN)

Application
EP 20894307 A 20201115

Priority
• CN 201911173492 A 20191126
• CN 2020128888 W 20201115

Abstract (en)
[origin: EP4068328A1] A circuit breaker is disclosed. The circuit breaker includes a housing assembly, and a contacting system, a leakage protection mechanism and a leakage testing mechanism arranged in the housing assembly, wherein the contacting system includes a handle, a contact head mechanism and an operating mechanism; when the circuit breaker is closed or opened, the operating mechanism is driven by the handle to close or open the contact head mechanism; the leakage testing mechanism includes a leakage testing button, and a leakage testing loop cooperating with a zero-sequence current transformer of the leakage protection mechanism; the leakage testing loop includes a first test contact point cooperating with the leakage testing button, and a second test contact point cooperating with the contacting system, wherein the second test contact point remains closed, and the contacting system breaks the second test contact point when the circuit breaker is opened; and the contacting system makes way for the second test contact point when the circuit breaker is closed, such that the second test contact point resets and remains closed without affecting contact head parameters of the contact head mechanism, thereby ensuring a contact head pressure when the contact head mechanism is closed.

IPC 8 full level
H01H 83/04 (2006.01); **H01H 71/02** (2006.01); **H01H 71/08** (2006.01); **H01H 73/04** (2006.01)

CPC (source: CN EP)
H01H 71/0271 (2013.01 - CN); **H01H 71/08** (2013.01 - CN EP); **H01H 73/04** (2013.01 - CN); **H01H 83/04** (2013.01 - CN EP); **H01H 71/0271** (2013.01 - EP); **H01H 2083/045** (2013.01 - EP)

Citation (search report)
• [XAI] WO 2014167603 A1 20141016 - PANASONIC CORP [JP]
• [X] CN 203787366 U 20140820 - ZHEJIANG CHINA ELEC APPLIANCE
• [X] EP 0231732 A2 19870812 - FELTEN & GUILLEAUME AG OESTER [AT]
• [X] WO 2019122539 A1 20190627 - HAGER ELECTRO SAS [FR]
• [X] EP 2085998 A1 20090805 - HAGER ELECTRO SAS SOC PAR ACTI [FR]
• See references of WO 2021104065A1

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

DOCDB simple family (publication)
EP 4068328 A1 20221005; EP 4068328 A4 20240110; AU 2020390079 A1 20220609; AU 2020390079 B2 20231123;
CN 112863966 A 20210528; WO 2021104065 A1 20210603

DOCDB simple family (application)
EP 20894307 A 20201115; AU 2020390079 A 20201115; CN 201911173492 A 20191126; CN 2020128888 W 20201115