Title (en)

POWER CONTACT FAULT CLEARING DEVICE

Title (de)

BESEITIGUNGSVORRICHTUNG FÜR ELEKTRISCHE KONTAKTFEHLER

Title (fr)

DISPOSITIF DE SUPPRESSION DE DÉFAUT DE CONTACT D'ALIMENTATION

Publication

EP 4029045 A1 20220720 (EN)

Application

EP 20785616 A 20200909

Priority

- US 201962898783 P 20190911
- US 2020049812 W 20200909

Abstract (en)

[origin: WO2021050459A1] A power contact fault clearing device includes a first pair of terminals adapted to be connected across a first set of switchable contacts, and a second pair of terminals adapted to be connected across a second set of switchable contacts. The second set of switchable contacts coupled to an arc suppressor. A current sensor is adapted to be connected between a power load and the second set of switchable contacts. The current sensor is configured to measure a power load current associated with the power load. A controller circuit is operatively coupled to the current sensor and the first and second pairs of terminals. The controller circuit is configured to detect a fault condition based at least on the power load current, and sequence deactivation of the first set of switchable contacts and the second set of switchable contacts based on the detected fault condition.

IPC 8 full level

H01H 47/00 (2006.01)

CPC (source: CN EP KR)

H02H 1/0007 (2013.01 - CN); **H02H 1/0061** (2013.01 - CN); **H02H 3/021** (2013.01 - EP KR); **H02H 3/05** (2013.01 - EP KR); **H02H 3/08** (2013.01 - EP KR); **H02H 7/262** (2013.01 - CN); **H02J 13/00001** (2020.01 - CN); **H02J 13/00016** (2020.01 - CN); **H02J 13/00026** (2020.01 - CN); **H02J 13/00028** (2020.01 - CN)

Citation (search report)

See references of WO 2021050459A1

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)

WO 2021050459 A1 20210318; CN 114600330 A 20220607; EP 4029045 A1 20220720; JP 2022547315 A 20221111; KR 20220106958 A 20220801

DOCDB simple family (application)

US 2020049812 W 20200909; CN 202080074774 A 20200909; EP 20785616 A 20200909; JP 2022515950 A 20200909; KR 20227011919 A 20200909