

Title (en)

ELECTRICAL PROTECTION APPARATUSES AND SYSTEMS HAVING AN INTEGRATED CUT-OFF MODULE

Title (de)

ELEKTRISCHE SCHUTZVORRICHTUNGEN UND SYSTEME MIT INTEGRIERTEM ABSCHALTMODUL

Title (fr)

APPAREILS ET SYSTÈMES DE PROTECTION ÉLECTRIQUE COMPORTANT UN MODULE DE COUPURE INTÉGRÉ

Publication

EP 4341973 A1 20240327 (FR)

Application

EP 22731101 A 20220519

Priority

- FR 2105289 A 20210520
- EP 2022063617 W 20220519

Abstract (en)

[origin: WO2022243456A1] An electrical protection system (2) has a housing (4), connecting terminals (6, 8), separable electrical contacts (10), a switching mechanism (12) and at least one power switch (22) connected in series with the separable electrical contacts, wherein the system further comprises an electronic control circuit (24) coupled to the at least one power switch, the or each power switch has a metallic heat dissipation plate (86) connected to an electrode of said power switch, said heat dissipation plate being thermally connected to the body of the power switch, and wherein the or each power switch is connected in series with the separable electrical contacts between the connecting terminals via a conductive plate (90, 92) connected to the heat dissipation plate of the respective power switch.

IPC 8 full level

H01H 9/54 (2006.01); **H01H 9/52** (2006.01); **H01H 33/59** (2006.01); **H01H 71/12** (2006.01)

CPC (source: EP KR US)

H01H 9/52 (2013.01 - EP KR US); **H01H 9/548** (2013.01 - EP KR US); **H01H 33/596** (2013.01 - EP KR US); **H01H 71/123** (2013.01 - EP KR US); **H01H 2071/048** (2013.01 - EP KR US); **H01H 2071/124** (2013.01 - EP KR US)

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 2022243456 A1 20221124; CA 3220134 A1 20221124; CN 117321717 A 20231229; EP 4341973 A1 20240327; FR 3123142 A1 20221125; KR 20240008906 A 20240119; US 2024258057 A1 20240801

DOCDB simple family (application)

EP 2022063617 W 20220519; CA 3220134 A 20220519; CN 202280036108 A 20220519; EP 22731101 A 20220519; FR 2105289 A 20210520; KR 20237043182 A 20220519; US 202218290368 A 20220519