

Title (en)

ELECTRICAL CONTACT ASSEMBLY STRUCTURE OF TERMINAL DEVICE

Title (de)

ELEKTRISCHE KONTAKTANORDNUNGSSTRUKTUR EINER ENDGERÄTEVORRICHTUNG

Title (fr)

STRUCTURE D'ENSEMBLE DE CONTACT ÉLECTRIQUE DE DISPOSITIF TERMINAL

Publication

**EP 4346015 A1 20240403 (EN)**

Application

**EP 23198108 A 20230919**

Priority

TW 111137108 A 20220929

Abstract (en)

An electrical contact assembly structure of terminal device includes a conductive support and a metal leaf spring. A connected section is disposed on the conductive support. A curved section is formed at a middle portion of the metal leaf spring. A connection section and an abutment section are respectively disposed at two ends of the metal leaf spring. The connection section can be directly assembled with the connected section. The abutment section serves to elastically abut against a conductive wire, which extends into the conductive support from outer side, whereby the conductive wire is electrically connected with the conductive support. The manufacturing and assembling processes of the electrical contact assembly structure are facilitated. In addition, the metal leaf spring can keep securely connected with the conductive support without the location of an external plastic housing.

IPC 8 full level

**H01R 4/48** (2006.01)

CPC (source: EP)

**H01R 4/4821** (2023.08); **H01R 4/4826** (2023.08); **H01R 4/4846** (2023.08)

Citation (applicant)

- US 2014127932 A1 20140508 - HOPPMANN RALPH [DE], et al
- US 2013143433 A1 20130606 - HOPPMANN RALPH [DE]

Citation (search report)

- [X] DE 102004044889 A1 20060330 - WAGO VERWALTUNGS GMBH [DE]
- [X] US 2006063420 A1 20060323 - REIBKE HEINZ [DE], et al
- [X] EP 3206260 A1 20170816 - ABB SCHWEIZ AG [CH]
- [X] DE 20313041 U1 20031023 - PHOENIX CONTACT GMBH & CO [DE]
- [X] WO 2008043466 A2 20080417 - ABB PATENT GMBH [DE], et al

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4346015 A1 20240403**; TW 202414916 A 20240401; TW I832458 B 20240211

DOCDB simple family (application)

**EP 23198108 A 20230919**; TW 111137108 A 20220929