

Title (en)
AUTOMATIC CONNECTION TERMINAL COMPRISING TWO CONTACT ZONES AND ASSOCIATED SWITCHGEAR MECHANISM

Title (de)
AUTOMATISCHE ANSCHLUSSKLEMME MIT ZWEI KONTAKTZONEN UND ZUGEHÖRIGES SCHALTWERK

Title (fr)
BORNE DE CONNEXION AUTOMATIQUE COMPRENANT DEUX ZONES DE CONTACT ET MÉCANISME D'APPAREILLAGE ÉLECTRIQUE ASSOCIÉ

Publication
EP 4381567 A1 20240612 (FR)

Application
EP 22757243 A 20220722

Priority
• FR 2108475 A 20210804
• EP 2022070654 W 20220722

Abstract (en)
[origin: WO2023011946A1] The invention relates to an automatic connection terminal (100; 200; 300) comprising a metal strip (110; 210; 310) having two portions (111, 112; 211, 212; 311, 312) connected by a bridge (113; 213; 313) and a spring leaf (120; 220; 320) which extends parallel to a first (111; 211; 311) of said two portions of the metal strip and in line with the bridge, an opening (114; 214; 314) being provided at the bridge so as to allow a conductor wire (1) to pass into an insertion location (L1; L2; L3), a portion of which is located between the spring leaf and a second (112; 212; 312) of said two portions of the metal strip, said second portion of the metal strip forming a projection (112A; 212A; 312A) at the top of which is a first electrical contact zone (Z1; Z2; Z3) between the metal strip and the conductor wire, against which contact zone said spring leaf is suitable for clamping said conductor wire when the latter is inserted through said opening into the connection terminal. According to the invention, said metal strip forms, opposite said second portion of the metal strip, a wall (130; 230; 330) which extends at least partially into the insertion location (L1; L2; L3) of the conductor wire, so as to provide a second electrical contact zone (Z4; Z5; Z6) between the metal strip and the conductor wire, which zone is separate from the first contact zone.

IPC 8 full level
H01R 4/48 (2006.01); **H01R 11/05** (2006.01); **H01R 11/09** (2006.01); **H01R 24/78** (2011.01)

CPC (source: EP KR US)
H01R 4/485 (2023.08 - EP KR US); **H01R 11/05** (2013.01 - KR); **H01R 11/09** (2013.01 - KR); **H01R 24/78** (2013.01 - KR); **H01R 4/4821** (2023.08 - EP KR US); **H01R 11/05** (2013.01 - EP); **H01R 11/09** (2013.01 - EP); **H01R 24/78** (2013.01 - EP)

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)
FR 3126072 A1 20230210; FR 3126072 B1 20231222; CN 117795779 A 20240329; EP 4381567 A1 20240612; KR 20240039035 A 20240326; WO 2023011946 A1 20230209

DOCDB simple family (application)
FR 2108475 A 20210804; CN 202280054193 A 20220722; EP 2022070654 W 20220722; EP 22757243 A 20220722; KR 20247007150 A 20220722