

Title (en)
CONDUCTOR TERMINAL AND SET OF CONDUCTOR TERMINAL AND ACTUATOR

Title (de)
LEITERANSCHLUSSKLEMME UND SET AUS LEITERANSCHLUSSKLEMME UND BETÄTIGUNGSWERKZEUG

Title (fr)
BORNE DE RACCORDEMENT DE CONDUCTEUR ET ENSEMBLE DE BORNE DE RACCORDEMENT DE CONDUCTEUR ET D'OUTIL D'ACTIONNEMENT

Publication
EP 3595091 A1 20200115 (DE)

Application
EP 19192700 A 20161123

Priority
• DE 102015121638 A 20151211
• EP 16801187 A 20161123
• EP 2016078543 W 20161123

Abstract (en)
[origin: WO2017097591A1] The invention relates to a conductor terminal (1) with an insulating material housing (2) and a spring-force terminal connection (3). The spring-force terminal connection (3) has a contact body which is shaped out of a sheet element and which comprises a base portion (8), lateral wall portions (9) that protrude from the base portion (8) and are mutually spaced, and solder connection contact tongues (4). The base portion (8) together with the lateral wall portions (9) forms a conductor receiving channel for receiving an electric conductor (27), and leaf spring tongues (11) protrude from the lateral wall portions (9) so as to face one another, each said leaf spring tongue having a clamping edge (12) for clamping an electric conductor (27) received in the conductor receiving channel. The insulating material housing (2) has a conductor insertion opening (5) which leads to the conductor receiving channel on the front face. The solder connection contact tongues (4) are bent out of the plane of the base portion (8) and define a solder connection plane which is offset to the plane of the base portion (8). The solder connection contact tongues form an indented region of the base portion (8), and a closure cover (40) is provided for latching into said indented region.

Abstract (de)
Die Erfindung betrifft eine Leiteranschlussklemme (1) mit einem Federkraftklemmanschluss (3), der einen aus einem Blechelement geformten Kontaktkörper mit einem Bodenabschnitt (8), von dem Bodenabschnitt (8) abragenden, voneinander beabstandeten Seitenwandabschnitten (9) und Lötanschluss-Kontaktzungen (4) hat, wobei der Bodenabschnitt (8) mit den Seitenwandabschnitten (9) einen Leiteraufnahmekanal zur Aufnahme eines elektrischen Leiters (27) bilden, wobei von den Seitenwandabschnitten (9) zumindest eine Blattfederzunge (11) abragt, die eine Klemmkante (12) zum Anklemmen eines in den Leiteraufnahmekanal aufgenommenen elektrischen Leiters (27) hat, wobei der Bodenabschnitt (8) und/oder die Lötanschluss-Kontaktzungen (4) eine Lageröffnung (17) und/oder Rastnasen (57) hat.

IPC 8 full level
H01R 4/48 (2006.01); **H01R 12/51** (2011.01); **H01R 12/53** (2011.01); **H01R 12/57** (2011.01); **H01R 13/506** (2006.01)

CPC (source: CN EP KR US)
H01R 4/48 (2013.01 - KR); **H01R 4/48365** (2023.08 - CN EP US); **H01R 12/515** (2013.01 - CN EP KR US); **H01R 12/53** (2013.01 - CN EP KR US); **H01R 12/57** (2013.01 - CN EP KR US); **H01R 13/506** (2013.01 - CN EP KR US)

Citation (applicant)
• DE 102010014144 B4 20150416 - WAGO VERWALTUNGS GMBH [DE]
• WO 2013176859 A1 20131128 - TYCO ELECTRONICS CORP [US]
• KR 20140122904 A 20141021 - MOLEX INC [US]

Citation (search report)
• [XDY] DE 102010014144 B4 20150416 - WAGO VERWALTUNGS GMBH [DE]
• [X] US 2013029529 A1 20130131 - OSAGIE OSENAGA JERRY [US], et al
• [Y] WO 2015131215 A1 20150911 - TRIDONIC GMBH & CO KG [AT]
• [AD] WO 2013176859 A1 20131128 - TYCO ELECTRONICS CORP [US]
• [A] US 6287130 B1 20010911 - TORII CHIEKO [JP]

Cited by
DE202022106498U1; DE102022130746A1

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)
DE 202016106552 U1 20170315; CN 108352630 A 20180731; CN 108352630 B 20200204; CN 110571543 A 20191213; CN 110571543 B 20210813; CN 111092309 A 20200501; CN 111092309 B 20220510; DE 102015121638 A1 20170614; DE 102015121638 B4 20171005; EP 3387709 A1 20181017; EP 3387709 B1 20200610; EP 3595091 A1 20200115; EP 3595091 B1 20211020; JP 2019502234 A 20190124; JP 6932699 B2 20210908; KR 102042370 B1 20191107; KR 20180088641 A 20180806; PL 3387709 T3 20201116; PL 3595091 T3 20220328; TW 201728016 A 20170801; TW I710172 B 20201111; US 10389049 B2 20190820; US 11121486 B2 20210914; US 11600934 B2 20230307; US 2018294584 A1 20181011; US 2019393628 A1 20191226; US 2022013936 A1 20220113; WO 2017097591 A1 20170615

DOCDB simple family (application)
DE 202016106552 U 20161123; CN 201680066199 A 20161123; CN 201910876137 A 20161123; CN 202010004507 A 20161123; DE 102015121638 A 20151211; EP 16801187 A 20161123; EP 19192700 A 20161123; EP 2016078543 W 20161123; JP 2018530137 A 20161123; KR 20187012267 A 20161123; PL 16801187 T 20161123; PL 19192700 T 20161123; TW 105140319 A 20161207; US 201816004841 A 20180611; US 201916542896 A 20190816; US 202117399828 A 20210811