

Title (en)
Spring loaded clamping connection terminal

Title (de)
Federbelastete Anschlussklemme

Title (fr)
Borne de connexion de serrage à ressort

Publication
EP 2947718 A1 20151125 (EN)

Application
EP 14305770 A 20140523

Priority
EP 14305770 A 20140523

Abstract (en)
The present invention concerns a spring clamping connection terminal comprising a housing or cage for receiving the bare end portion of an electrical conductor or wire and lodging at least one clamping arrangement which comprises a spring force loaded arm automatically movable between a retracted position and an extended position in which said arm is able to come into contact under elastic constraint with the end portion of an electrical wire, wherein said clamping arrangement (5) also comprises: means (8, 9) for locking said arm (6) in its retracted position, trigger means (10) able to release the spring loaded arm (6) activatable by the end portion of said wire or conductor, a contact part (11) on said trigger means (10), to be hit or pressed on by the bare end portion, connection terminal (1) characterized in that said trigger means (10) is located and arranged after or beyond the arm (6) and the anchoring site (9), in the direction (D) of insertion of the wire or conductor, and consists of a lever arm extending in said direction (D), the contact part (11) consisting of a free end portion of said lever arm (10).

IPC 8 full level
H01R 4/48 (2006.01)

CPC (source: EP)
H01R 4/4821 (2023.08); **H01R 4/483** (2023.08); **H01R 4/4814** (2023.08); **H01R 4/4837** (2023.08); **H01R 4/485** (2023.08)

Citation (applicant)
• US 5494456 A 19960227 - KOZEL CHARLES A [US], et al
• EP 0831557 A1 19980325 - OSADA CO LTD [JP]
• US 8591271 B2 20131126 - BIES HENRYK [DE]
• US 2013072072 A1 20130321 - FEHLING STEPHAN [DE], et al
• DE 19710306 A1 19980827 - WAGO VERWALTUNGS GMBH [DE]
• DE 20300266 U1 20040519 - BALS ELEKTROTECHNIK GMBH & CO KG [DE]

Citation (search report)
• [XYI] DE 202013100740 U1 20130308 - WEIDMUELLER INTERFACE [DE]
• [XI] EP 2466689 A1 20120620 - BJB GMBH & CO KG [DE]
• [X] US 2010267292 A1 20101021 - PUESCHNER KLAUS [DE], et al
• [X] DE 3302372 A1 19840726 - WAGO VERWALTUNGS GMBH [DE]
• [Y] EP 1213791 A1 20020612 - HAGER ELECTRO [FR]

Cited by
CN106652743A; CN111064019A; CN109216953A; AT15515U1; CN109328418A; CN105914486A; AU2021292753B2; DE102018109545A1; DE102019128819A1; EP4358309A1; LU502919B1; EP4358310A1; LU502926B1; CN113316869A; CN113711445A; CN114824848A; DE202020100089U1; EP3849018A1; CN108591976A; DE102019132316A1; JP2023504116A; DE102016112321A1; WO2018007391A1; US11462847B2; DE202019105075U1; DE202020100088U1; EP3849019A1; US11509074B2; WO2017214651A1; US11881670B2; WO2020212121A1; WO2021105280A1; WO2019174982A1; US11387580B2; US11552413B2; US11916345B2; WO2020212120A1; WO2021258043A1

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)
EP 2947718 A1 20151125; **EP 2947718 B1 20171213**; DK 2947718 T3 20180319; ES 2662873 T3 20180410; PL 2947718 T3 20180629; PT 2947718 T 20180313

DOCDB simple family (application)
EP 14305770 A 20140523; DK 14305770 T 20140523; ES 14305770 T 20140523; PL 14305770 T 20140523; PT 14305770 T 20140523