

Title (en)
SPRING TERMINAL FOR A CONDUCTOR

Title (de)
FEDERKRAFTKLEMME FÜR LEITER

Title (fr)
BORNE À RESSORT POUR CONDUCTEUR

Publication
EP 3465828 B1 20220928 (DE)

Application
EP 17725955 A 20170526

Priority

- DE 202016102850 U 20160530
- DE 202016105824 U 20161018
- EP 2016080558 W 20161212
- DE 202017101670 U 20170322
- EP 2017062749 W 20170526

Abstract (en)
[origin: WO2017207429A2] Disclosed is a spring terminal (1), more particularly a direct clamp terminal, for connecting a conductor (10) that can be in the form of a flexible stranded conductor, the spring terminal having at least the following features: a. a housing (3, 30, 40) with a chamber (4) and an insertion passage (5) for inserting the conductor into the chamber (4), b. a bus bar (8) or a clamping cage (13), c. a clamping spring (7) which is located in the chamber (4) and which acts as a compression spring, for securing the electrical conductor (10) to the bus bar (8) or the clamping cage (13) in the region of a clamping point (K), d. wherein the clamping spring (7) has a clamping limb (7a) that can be pivoted about a pivoting axis and that can be shifted from a detent mode (R), in which it is locked in a detent position, into a clamping mode (K), in which it is released from the detent mode and presses the electrical conductor (10) against the bus bar (8) or the clamping cage (13), and wherein e. the clamping limb (7c) can be released from the detent mode (R) using two different shifting means.

IPC 8 full level
H01R 4/48 (2006.01)

CPC (source: EP US)
H01R 4/48275 (2023.08 - EP US); **H01R 4/48365** (2023.08 - EP US)

Citation (examination)
EP 0899818 B1 20021127 - PHOENIX CONTACT GMBH & CO [DE]

Citation (opposition)
Opponent : Phoenix Contact GmbH & Co. KG,

- DE 102004001202 A1 20040722 - BALS ELEKTROTECHNIK GMBH & CO KG [DE]
- DE 102008039232 A1 20100225 - PHOENIX CONTACT GMBH & CO [DE]
- DE 1213024 B 19660324 - SIEMENS AG
- EP 2768079 A1 20140820 - WEIDMUELLER INTERFACE GMBH & CO KG [DE]
- DE 102007051697 A1 20090430 - PHOENIX CONTACT GMBH & CO [DE]

Cited by
WO2021028263A1

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)
WO 2017207429 A2 20171207; WO 2017207429 A3 20180125; CN 109314324 A 20190205; CN 109314324 B 20210330;
EP 3465828 A2 20190410; EP 3465828 B1 20220928; JP 2019517716 A 20190624; JP 6864700 B2 20210428; US 10658766 B2 20200519;
US 2019319374 A1 20191017

DOCDB simple family (application)
EP 2017062749 W 20170526; CN 201780032914 A 20170526; EP 17725955 A 20170526; JP 2018562558 A 20170526;
US 201716305953 A 20170526