Title (en)

SPRING FORCE TERMINAL FOR CONDUCTORS

Title (de)

FEDERKRAFTKLEMME FÜR LEITER

Title (fr)

BORNE À RESSORT POUR CONDUCTEUR

Publication

EP 3766132 A1 20210120 (DE)

Application

EP 19709466 A 20190306

Priority

- DE 202018101402 U 20180313
- EP 2019055503 W 20190306

Abstract (en)

[origin: WO2019174982A1] The invention relates to a spring force terminal (1), in particular a direct plug-in terminal, for connecting a conductor (10) which can be designed as a flexible stranded conductor, having at least the following features: a housing (3) with a chamber (4) and a plug-in channel (5) for the conductor into the chamber (4), a busbar (8) and/or a clamping cage (13), and a clamping spring (7) which is arranged in the chamber (4) and acts as a compression spring for fixing the electric conductor (10) on the busbar (8) and/or the clamping cage (13) in the region of a clamping point (K), wherein the clamping spring (7) has a clamping limb (7b) that can be pivoted about a pivot axis and can be adjusted from a latching state (R), in which the clamping limb is latched in a latching position, into a clamping state (K), in which the clamping limb is unlatched out of the latching state and pushes the electric conductor (10) against the busbar (8) or the clamping cage (13), and the latching state is produced by pressure acting on the clamping limb (11) in a conductor plug-in direction using a pusher (11). The clamping limb (7b) can be released from the latching state (R) using two differently actuatable adjustment means. The second trigger element (12) is designed to release the pusher (11) out of the latching position and thereby also release the clamping limb (7b) out of the latching state (R), said trigger element (12) being designed and arranged in the chamber (4) laterally of the pusher (11) such that the trigger element acts on the pusher perpendicularly to the conductor plug-in direction (X) or substantially perpendicularly to the conductor plug-in direction (X) in order to release the pusher out of the latching position.

IPC 8 full level

H01R 4/48 (2006.01)

CPC (source: EP US)

H01R 4/4833 (2023.08 - EP); **H01R 4/48365** (2023.08 - US); **H01R 9/2408** (2013.01 - US); **H01R 9/2416** (2013.01 - US); H01R 4/4821 (2023.08 - EP); H01R 4/4835 (2023.08 - EP); H01R 4/485 (2023.08 - EP); H01R 4/4852 (2023.08 - 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

DOCDB simple family (publication)

DE 202019101246 U1 20190614; CN 111869011 A 20201030; CN 111869011 B 20220524; EP 3766132 A1 20210120; JP 2021515972 A 20210624; JP 7316291 B2 20230727; US 11387580 B2 20220712; US 11552413 B2 20230110; US 2021057830 A1 20210225; US 2022209435 A1 20220630; WO 2019174982 A1 20190919

DOCDB simple family (application)

DE 202019101246 U 20190306; CN 201980019049 A 20190306; EP 19709466 A 20190306; EP 2019055503 W 20190306; JP 2020548810 A 20190306; US 201916977119 A 20190306; US 202217697024 A 20220317