

Title (en)
SPRING-LOADED CLAMPING ELEMENT AND CONNECTING TERMINAL

Title (de)
FEDERKRAFTKLEMMELEMENT UND VERBINDUNGSKLEMME

Title (fr)
ÉLÉMENT DE SERRAGE À RESSORT ET BORNE DE JONCTION

Publication
EP 2956990 A1 20151223 (DE)

Application
EP 14703879 A 20140212

Priority
• DE 102013101408 A 20130213
• EP 2014052716 W 20140212

Abstract (en)
[origin: WO2014124959A1] A spring-loaded clamping element (1) is described having a bus bar (2) and a clamping spring (3) that has a contact limb (4), a spring arc (5) adjoining said contact limb (4) and a clamping limb (6) adjoining said spring arc (5), said clamping limb having a main portion (8) that extends from the spring arc (5) and a clamping portion (7) oriented in the direction of the bus bar (2). The clamping portion (7) has a clamping edge (11) at a free end of the clamping portion (7) for forming a clamping point between the clamping edge (11) and the bus bar (2) for clamping an electrical conductor. The clamping portion (7) has a first portion (9) which is bent from the main portion (8) in the direction of the bus bar (2) and a second portion (10) which has the clamping edge (11), adjoins the first portion (9) and is bent again back in the direction of extension of the main portion (8). When the clamping spring (3) is in a resting position in which there is no electrical conductor inserted and the clamping edge (11) rests on the bus bar (2), the first portion (9), viewed in the direction of extension (FR) of the clamping spring (3) starting from the spring arc (5), is at an obtuse angle α to the bus bar (2) and the second portion (10) is at an acute angle β to the bus bar (2).

IPC 8 full level
H01R 4/48 (2006.01)

CPC (source: CN EP RU US)
H01R 4/48185 (2023.08 - US); **H01R 4/4821** (2023.08 - CN EP RU); **H01R 4/48365** (2023.08 - US); **H01R 13/50** (2013.01 - US); **H01R 4/48** (2013.01 - RU); **H01R 4/483** (2023.08 - CN EP RU); **H01R 4/485** (2023.08 - CN EP RU)

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)
WO 2014124959 A1 20140821; CN 104995797 A 20151021; CN 104995797 B 20170912; DE 102013101408 A1 20140828; DE 102013101408 B4 20210114; EP 2956990 A1 20151223; EP 2956990 B1 20180711; JP 2016507145 A 20160307; KR 102145878 B1 20200820; KR 20150116852 A 20151016; RU 2609597 C1 20170202; US 2015380837 A1 20151231; US 9525217 B2 20161220

DOCDB simple family (application)
EP 2014052716 W 20140212; CN 201480008363 A 20140212; DE 102013101408 A 20130213; EP 14703879 A 20140212; JP 2015557407 A 20140212; KR 20157021750 A 20140212; RU 2015138954 A 20140212; US 201414767510 A 20140212