

Title (en)
Screwless connecting terminal

Title (de)
Schraubenlose Anschlussklemme

Title (fr)
Borne de connexion sans vis

Publication
EP 2442403 B1 20140611 (DE)

Application
EP 10013544 A 20101012

Priority
EP 10013544 A 20101012

Abstract (en)
[origin: EP2442403A1] A screwless connection terminal comprises contact element (1) to which conductor is to be electrically connected, and clamp spring (5) which conductor is to be clamped to contact surface (4) of the contact element. Clamp spring has clamping leg (7), abutting leg and tensioning leg (9). Clamp opening is formed in clamping leg, through which clamp opening, conductor is to be led. Abutting leg of clamp spring abuts on contact element. Tensioning leg of clamp spring connects abutting leg to clamping leg. Clamping leg further comprises conductor clamp extension. Screwless connection terminal comprises contact element (1) to which conductor is to be electrically connected, and clamp spring (5) which conductor is to be clamped to contact surface (4) of the contact element. Clamp spring has clamping leg (7), abutting leg and tensioning leg (9). Clamp opening is formed in clamping leg, through which clamp opening, conductor is to be led. Abutting leg of clamp spring abuts on contact element. Tensioning leg of clamp spring connects abutting leg to clamping leg. Clamping leg further comprises conductor clamp extension with clamping face which is aligned substantially parallel to contact surface of contact element. Conductor to be connected is to be clamped between surface section of clamping face of conductor clamp extension and contact surface of the contact element. Contact element comprises connecting section and contact surface. An independent claim is included for producing the screwless connection terminal.

IPC 8 full level
H01R 13/05 (2006.01); **H01R 4/48** (2006.01); **H01R 13/11** (2006.01)

CPC (source: EP US)
H01R 4/4816 (2023.08 - EP); **H01R 4/48455** (2023.08 - US); **H01R 13/111** (2013.01 - EP US); **H01R 4/4833** (2023.08 - EP); **H01R 4/484** (2023.08 - EP); **Y10T 29/49117** (2015.01 - EP US)

Cited by
DE102018127284A1; WO2013168816A1; DE102016100755A1; WO2017125441A1; WO2020089277A1; US11336035B2; EP3405997B1

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)
EP 2442403 A1 20120418; **EP 2442403 B1 20140611**; BR PI1106772 A2 20130528; BR PI1106772 B1 20210323; CN 102447182 A 20120509; CN 102447182 B 20150311; ES 2473892 T3 20140708; PL 2442403 T3 20141128; US 2012088415 A1 20120412; US 8328588 B2 20121211

DOCDB simple family (application)
EP 10013544 A 20101012; BR PI1106772 A 20111013; CN 201110308377 A 20111012; ES 10013544 T 20101012; PL 10013544 T 20101012; US 201113270483 A 20111011