

Title (en)  
Screwless connecting terminal

Title (de)  
Schraubenlose Anschlussklemme

Title (fr)  
Borne de connexion sans vis

Publication  
**EP 2442403 A1 20120418 (DE)**

Application  
**EP 10013544 A 20101012**

Priority  
EP 10013544 A 20101012

Abstract (en)

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.

Abstract (de)

Die Erfindung betrifft eine schraubenlose Anschlussklemme mit einem Kontaktelement (1), an welchem ein Leiter (2) elektrisch anzuschließen ist, mit einem Anschlussabschnitt (3) und einer Kontaktfläche (4), mit einer Klemmfeder (5), mittels welcher der Leiter (2) an die Kontaktfläche (4) des Kontaktelements (1) zu klemmen ist, wobei die Klemmfeder (5) einen Klemmschenkel (7), einen Anlageschenkel (8) und einen Spannschenkel (9) besitzt, wobei in dem Klemmschenkel (7) eine Klemmöffnung (6) ausgebildet ist, durch die der Leiter (2) zu führen ist, der Anlageschenkel (8) der Klemmfeder (5), an dem Kontaktelement (1) anliegt, der Spannschenkel (9) der Klemmfeder (5), den Anlageschenkel (8) mit dem Klemmschenkel (7) verbindet, wobei der Klemmschenkel (7) ferner einen Leiterklemmfortsatz (10) mit einer Klemmfläche (11) aufweist, welche im Wesentlichen parallel zur Kontaktfläche (4) des Kontaktelements (1) ausgerichtet ist, wobei der anzuschließende Leiter (2) zwischen einem Flächenabschnitt der Klemmfläche (11) des Leiterklemmfortsatzes (10) und der Kontaktfläche (4) des Kontaktelements (1) einzuklemmen ist.

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)

Citation (applicant)  
• EP 1072067 B1 20021218 - BALS ELEKTROTECHNIK GMBH & CO KG [DE]  
• EP 1555724 A1 20050720 - BALS ELEKTROTECHNIK GMBH & CO KG [DE]

Citation (search report)  
• [X] EP 1152271 A2 20011107 - WAGO VERWALTUNGS GMBH [DE]  
• [X] DE 102004045025 B3 20060216 - PHOENIX CONTACT GMBH & CO [DE]  
• [X] DE 3911459 A1 19901011 - WAGO VERWALTUNGS GMBH [DE]  
• [A] DE 19831851 C1 20000210 - HARTING KGAA [DE]  
• [A] FR 2936659 A1 20100402 - LEGRAND FRANCE [FR], et al

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Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2442403 A1 20120418**; **EP 2442403 B1 20140611**; BR P11106772 A2 20130528; BR P11106772 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

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**EP 10013544 A 20101012**; BR P11106772 A 20111013; CN 201110308377 A 20111012; ES 10013544 T 20101012; PL 10013544 T 20101012; US 201113270483 A 20111011