

Title (en)  
Screwless connection frame clamp

Title (de)  
Schraubenlose Anschlussrahmenklemme

Title (fr)  
Bone de contact à cage sans vis

Publication  
**EP 1744402 A1 20070117 (DE)**

Application  
**EP 06002211 A 20060203**

Priority  
DE 202005010991 U 20050711

Abstract (en)  
A screwless connection terminal comprises a contact part to which a conductor is electrically connected; a clamping spring (10); a metallic frame (20) surrounding the spring and to insert into insulating housing (31, 33); and an actuating element (40) for the clamping spring. A blocking device (42) in a blocking position holds the frame in a position in which the clamping spring is prestressed, and the actuating element is in the form of a release device (41), which is capable of releasing the blocking position for the frame to bring the part or clamping spring end (11) into action. A screwless connection terminal comprises a contact part (3) having a contact section and a connection section (4) to which a conductor is electrically connected; a clamping spring (10); a metallic frame (20) surrounding the clamping spring and designed to be inserted into insulating housing (31, 33) of an electrical apparatus, and also at least partially accommodating the connection section; and an actuating element (40) for the clamping spring, where the clamping spring has a part or clamping spring end (11) for the purpose of moving the frame in relation to and in a direction transverse to the connection section to clamp the conductor between the frame and the connection section, where a blocking device (42) in a blocking position holds the frame in a position in which the clamping spring is prestressed, and where the actuating element is in the form of a release device (41), which is capable of releasing the blocking position for the frame to bring the part or clamping spring end (11) into action. An independent claim is included for an electrical plugging apparatus comprising the screwless connection terminal.

IPC 8 full level  
**H01R 4/52** (2006.01)

CPC (source: EP)  
**H01R 4/4821** (2023.08); **H01R 4/4835** (2023.08); **H01R 4/52** (2013.01); **H01R 4/483** (2023.08); **H01R 4/4833** (2023.08); **H01R 4/4842** (2023.08); **H01R 4/4846** (2023.08); **H01R 4/5075** (2013.01)

Citation (applicant)  
• EP 1555723 A1 20050720 - BALS ELEKTROTECHNIK GMBH & CO KG [DE]  
• DE 20308863 U1 20030821 - RIA BTR PROD GMBH [DE]

Citation (search report)  
• [XY] DE 1065507 B  
• [Y] DE 3402870 A1 19850801 - SIEMENS AG [DE]  
• [Y] EP 0871243 A1 19981014 - WEIDMUELLER INTERFACE [DE]  
• [A] DE 8029790 U1 19830331

Cited by  
EP2416451A1; CN102437449A; ITTO20100677A1; US8651890B2; WO2019185789A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
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DOCDB simple family (application)  
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