

Title (en)  
Device for connecting conductors

Title (de)  
Anschlußvorrichtung für Leiter

Title (fr)  
Dispositif de connexion pour conducteurs

Publication  
**EP 1780831 B1 20180523 (DE)**

Application  
**EP 06121235 A 20060926**

Priority  
• DE 202006009460 U 20060616  
• DE 202005016990 U 20051029

Abstract (en)  
[origin: EP1780831A2] An electrical connector comprises housing (1), bus bar (3), spring (4), retaining mechanism (14), and release mechanism (5). The housing is formed from an electrically insulating synthetic plastic material. The housing contains a chamber (1a), and a conductor opening (13) communicating with chamber. The conductor opening is operable to receive a bare end portion (11) of insulated conductor. The bus bar is mounted in chamber. The bus bar has a first portion (3a) arranged adjacent the conductor opening. The spring is arranged in the chamber for biasing the conductor bare end portion into engagement with the bus bar first portion. The spring includes stationary base portion (4a) fixed within the housing chamber, and a movable first leg portion (4b) connected with one end of the base portion for movement between extended and retracted positions adjacent and spaced from the bus bar first portion, respectively. The first leg portion is normally biased towards the extended position. The retaining mechanism retains the spring movable portion in the retracted position to permit the insertion of the bare cable end into the housing chamber. The release mechanism operates the retaining mechanism to release the spring movable portion. The bare conductor end is biased by the spring first leg portion toward electrical engagement with the bus bar first portion. The spring includes connecting portion. The bus bar includes second portion orthogonally relative to the bus bar first portion. The connector includes cage, reset mechanism, and return mechanism. The retaining mechanism comprises ledge portion integral with release mechanism.

IPC 8 full level  
**H01R 4/48** (2006.01)

CPC (source: EP US)  
**H01R 4/48365** (2023.08 - EP US)

Citation (examination)  
DE 3019149 A1 19811126 - PHOENIX ELEKT [DE]

Cited by  
CN102354831A; EP2768079B1

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

DOCDB simple family (publication)  
**DE 202006009460 U1 20070315**; EP 1780831 A2 20070502; EP 1780831 A3 20140416; EP 1780831 B1 20180523;  
US 2007099479 A1 20070503; US 7287999 B2 20071030

DOCDB simple family (application)  
**DE 202006009460 U 20060616**; EP 06121235 A 20060926; US 58470206 A 20061020