

Title (en)

Spring connector having a plug-in abutment element

Title (de)

Zugfederanschluss mit einsteckbarem Anschlagelement

Title (fr)

Connecteur à ressort ayant un élément de butée enfichable

Publication

EP 0806811 A3 19980930 (DE)

Application

EP 97106419 A 19970418

Priority

DE 29608178 U 19960506

Abstract (en)

[origin: US5879204A] A resilient connector for maintaining an electrical conductor in side-by-side conductive engagement with a bus bar includes a generally loop- or O-shaped resilient contact body having a first end portion, an intermediate portion arranged generally normal to the intermediate portion, and a second end portion that is normally arranged at an acute angle relative to the contact intermediate portion, the contact first end portion containing a window opening having first and second opposed edges remote from and adjacent the intermediate portion, respectively, the second contact end portion being displaceable from a normal first position adjacent the first window edge toward a second position adjacent the second window edge, whereby when the second contact end is displaced to its second position and a conductor and a bus bar are introduced in side-by-side electrically conductive relation within the window, release of the second end portion causes the conductor and the bus bar to be clamped in tight electrical contact by the cooperation between the second contact end portion and by the first window edge. In order to prevent permanent distortion of the contact body, a stop member is mounted within the contact cavity for limiting movement of the second contact end beyond the second position. Consequently, the stop member permits the use of the contact arrangement in fixed pole applications where the bus bar and the compression spring are to be installed from above or below a housing within which the electrical components are contained.

IPC 1-7

H01R 4/48

IPC 8 full level

H01R 4/48 (2006.01)

CPC (source: EP US)

H01R 4/484 (2023.08 - EP US); **H01R 4/4816** (2023.08 - EP US)

Citation (search report)

- [DA] DE 29514509 U1 19951026 - WEIDMUELLER INTERFACE [DE]
- [A] DE 9420097 U1 19960118 - WECO WESTER EBBINGHAUS & CO [DE]
- [E] DE 19629563 A1 19980122 - WAGO VERWALTUNGS GMBH [DE]
- [E] DE 19727900 A1 19980226 - WEIDMUELLER INTERFACE [DE]

Cited by

US6155890A; CN102971913A; EP1158614A1; FR2809536A1; ES2157819A1; FR2782848A1; DE19939572B4; FR2795562A1; DE19817925A1; DE19817925B4; US6595808B2; EP1750330A2

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI

DOCDB simple family (publication)

US 5879204 A 19990309; AT E220824 T1 20020815; DE 29608178 U1 19960725; DE 59707708 D1 20020822; EP 0806811 A2 19971112; EP 0806811 A3 19980930; EP 0806811 B1 20020717; ES 2177856 T3 20021216

DOCDB simple family (application)

US 84180897 A 19970505; AT 97106419 T 19970418; DE 29608178 U 19960506; DE 59707708 T 19970418; EP 97106419 A 19970418; ES 97106419 T 19970418