

Title (en)

Clamping contacting element, insulation displacement connector, connector terminal block and method of manufacture thereof

Title (de)

Klemmelement, Schneidklemmverbinder, Anschlussleiste und ihr Herstellungsverfahren

Title (fr)

Élément de serrage, connecteur de déplacement d'isolation, bloc de connexions et leur procédé de fabrication

Publication

**EP 1594189 A1 20051109 (EN)**

Application

**EP 04405292 A 20040507**

Priority

EP 04405292 A 20040507

Abstract (en)

The cable connector (19) for making an electrical contact with a cable conductor (2) of a cable (1) comprises two legs (190), at least one of which can make electrical contact with a cable conductor (2) inserted into the cable connector (19) into a contacting position, and the two legs (190) are capable of exerting a contacting force on a cable conductor (2) in the contacting position for holding the cable conductor (2) in the contacting position. When there is no cable (1) inserted in the cable connector (19), the legs (190) exert a non-vanishing initial force on each other. In other words, the cable connector has two prestressed legs. Ends of the legs press against each other with some force prior to the insertion of any cable into the connector. The cable connector can, e.g., be used as an insulation displacement connector and in connector terminal blocks. Methods for manufacturing such a cable connector (19) comprise methods, in which an elastic deformation in at least one section of the cable connector (19) is performed, while another section of the cable connector (19) is plastically deformed. Preferably, the cable connector is integrally made from one piece of bent sheet metal. <IMAGE>

IPC 1-7

**H01R 4/24**

IPC 8 full level

**H01R 4/00** (2006.01); **H01R 4/24** (2006.01)

CPC (source: EP US)

**H01R 4/2454** (2013.01 - EP US); **H01R 4/2433** (2013.01 - EP)

Citation (search report)

- [X] GB 2050712 A 19810107 - SOURIAU & CIE, et al
- [X] GB 1434003 A 19760428 - AMP INC
- [X] US 4346955 A 19820831 - CHESNAIS ANDRE, et al
- [X] GB 1313993 A 19730418 - RELIABLE ELECTRIC CO
- [A] US 5641302 A 19970624 - ADAMS EDWARD JOHN [GB]
- [A] GB 1237595 A 19710630 - NORTHERN ELECTRIC CO [CA]
- [A] US 4824395 A 19890425 - BLAHA WILLIAM E [US]

Cited by

US10720724B2; US11108180B2

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

**EP 1594189 A1 20051109**; CN 1694306 A 20051109; CN 1694308 B 20100428

DOCDB simple family (application)

**EP 04405292 A 20040507**; CN 200510067909 A 20050428