

Title (en)  
ELECTRICAL CONNECTORS

Publication  
**EP 0207842 B1 19890614 (FR)**

Application  
**EP 86401314 A 19860617**

Priority  
FR 8510219 A 19850704

Abstract (en)  
[origin: ES295332U] An electrical connector including a first box element and a second box element, each box element receiving an electrical contact and the other box element when one of the box elements is inverted head-to-tail upside down with respect to the other box element. Each element includes male and female portions. The male portion includes a locking lug having an elastic portion and a stiff rounded portion. The female portion includes a joggle. The joggle of each element is adapted to engage the locking lug of the other element during assembly of the first and second elements along an insertion axis. When this occurs the joggle will climb up the stiff rounded portion of the locking lug thereby displacing the first and second elements in opposite directions perpendicular to the insertion axis. Further displacement along the insertion axis displaces the joggle into contact with the elastic portion which bends, so as to displace the two elements closer to each other perpendicular to the insertion axis. The initial displacement perpendicular to the insertion axis of the first and second elements away from each other ensures that the electrical contacts in each box element are initially separated from each other so that there is no damage to these elements. These two electrical contacts are then brought together for engagement with each other to form an electrical connection when the first and second elements are displaced toward each other as the joggle contacts the elastic portion of the locking lug.

IPC 1-7  
**H01R 23/27**

IPC 8 full level  
**H01R 13/42** (2006.01); **H01R 13/46** (2006.01); **H01R 13/514** (2006.01); **H01R 24/18** (2006.01); **H01R 24/84** (2011.01); **H01R 13/28** (2006.01); **H01R 13/627** (2006.01); **H01R 13/629** (2006.01); **H01R 13/631** (2006.01)

CPC (source: EP US)  
**H01R 24/84** (2013.01 - EP US); **H01R 13/28** (2013.01 - EP US); **H01R 13/627** (2013.01 - EP US); **H01R 13/629** (2013.01 - EP US); **H01R 13/631** (2013.01 - EP US)

Cited by  
US5888101A; GB2316548A; GB2316548B; USD865678S; WO2019125926A1

Designated contracting state (EPC)  
BE DE GB IT SE

DOCDB simple family (publication)  
**EP 0207842 A1 19870107**; **EP 0207842 B1 19890614**; DE 3664025 D1 19890720; ES 295332 U 19861101; ES 295332 Y 19870716; FR 2590085 A1 19870515; FR 2590085 B1 19871211; JP H0782888 B2 19950906; JP S6264079 A 19870320; US 4734052 A 19880329

DOCDB simple family (application)  
**EP 86401314 A 19860617**; DE 3664025 T 19860617; ES 295332 U 19860625; FR 8510219 A 19850704; JP 15589686 A 19860702; US 88088886 A 19860701