

Title (en)
THERMALLY RESPONSIVE ELECTRICAL CONNECTOR

Publication
EP 0180639 B1 19890809 (EN)

Application
EP 85902790 A 19850514

Priority
US 60974784 A 19840514

Abstract (en)
[origin: WO8505500A1] A common problem in the art of connecting two electrical components is the providing of a convenient and effective zero insertion force coupling therebetween especially where a plurality of parallel conductors along one component are to be connected with a corresponding plurality along the other. The present apparatus (100) and method address this problem by providing a split tube edge along one of the two (100, 150) electrical components, the split tube (104) including a memory shape material (112) therein. When the split tube (104) is opened, the second electrical component (150) is inserted therein whereupon the split tube can be closed. Conductors (130-140) along the split tube (104) make contact with corresponding conductors (160-170) along the second component (150) when the tube (104) is closed. The memory shape material (112) in the split tube (104) acts to either open (Fig. III) the split tube or close (Fig. V) the split tube when the material (112) reaches a characteristic transition temperature.

IPC 1-7
H01R 13/20

IPC 8 full level
H01R 13/03 (2006.01); **H01R 4/01** (2006.01); **H01R 13/20** (2006.01)

CPC (source: EP)
H01R 4/01 (2013.01)

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
WO 8505500 A1 19851205; AU 4350985 A 19851213; CA 1223314 A 19870623; DE 3572265 D1 19890914; EP 0180639 A1 19860514; EP 0180639 A4 19861002; EP 0180639 B1 19890809; IL 75155 A0 19850929; JP H0732044 B2 19950410; JP S62500127 A 19870116

DOCDB simple family (application)
US 8500873 W 19850514; AU 4350985 A 19850514; CA 481517 A 19850514; DE 3572265 T 19850514; EP 85902790 A 19850514; IL 7515585 A 19850509; JP 50217285 A 19850514