

Title (en)
Connector with retention feature

Title (de)
Verbinder mit Haltemitteln

Title (fr)
Connecteur avec dispositif de rétention

Publication
EP 0546673 B1 19961227 (EN)

Application
EP 92309772 A 19921026

Priority
US 80826791 A 19911213

Abstract (en)
[origin: EP0546673A2] An electrical connector (8) has a body (12) and a plurality of posts (20) extending out of one side of the connector body (12) for mounting to a printed circuit board (59). The posts (20), each enter a respective hole (65) in the printed circuit board (59) and are retained there by a retention feature formed in selective posts. The retention feature includes a Z shaped section (45) of the post which constitutes first, second, and third beams. The third beam (45) includes a kink consisting of a bent portion (80) extending from the longitudinal axis of the beam out to an apex (82) and then another bent portion (84) from the apex back to the axis and terminating in a free end (78). The width of the kink (80) is larger than the diameter of the hole (65) into which it is inserted. The three beams are configured so that, once in the hole (65), the apex (82) is in pressing engagement with the wall on one side of the hole (65) and the free end (78) is urged into secure engagement with a lower corner of the hole on the opposite side. A feature thereof is that the posts (20) are formed of a hardened, spring metal having a predetermined elastic limit, and that the bent portions (80,84) are elastically deformed by an amount below said elastic limit when the connector (8) is inserted in said printed circuit board (59).
<IMAGE> <IMAGE>

IPC 1-7
H01R 9/09; H01R 23/68

IPC 8 full level
H01R 12/50 (2011.01); **H01R 12/58** (2011.01); **H01R 13/03** (2006.01)

CPC (source: EP)
H01R 13/658 (2013.01); **H01R 12/58** (2013.01); **H01R 13/03** (2013.01)

Cited by
CN100334780C; GB2394841B; EP1263091A3; CN109586061A; FR2763751A1; GB2417371A; GB2417371B; DE10152439A1; DE10152439B4; US7247050B1

Designated contracting state (EPC)
DE FR GB IT NL SE

DOCDB simple family (publication)
EP 0546673 A2 19930616; EP 0546673 A3 19931208; EP 0546673 B1 19961227; DE 69216212 D1 19970206; DE 69216212 T2 19970507; JP 2969314 B2 19991102; JP H05251119 A 19930928

DOCDB simple family (application)
EP 92309772 A 19921026; DE 69216212 T 19921026; JP 35219392 A 19921210