

Title (en)

Electrical connector with terminal position assurance device

Title (de)

Elektrischer Stecker mit Vorrichtung zur Lagesicherung der Endkontakte

Title (fr)

Connecteur électrique avec dispositif pour assurer la position des terminaux

Publication

EP 0967686 B1 20080507 (EN)

Application

EP 99111409 A 19990611

Priority

IT TO980543 A 19980623

Abstract (en)

[origin: EP0967686A1] An electric connector (1) having an insulating casing (3) fittable in a longitudinal assembly direction (A) to a complementary connector and defining a number of longitudinal cavities (4) for housing respective electric terminals (5); primary retaining lances (20, 21) for retaining the terminals (5) inside the respective cavities (4) and preventing withdrawal of the terminals; and a secondary retaining device (30) having a front movable member (31) movable, in the assembly direction (A), between a preassembly position and a closed position cooperating with the primary retaining lances (20, 21) to determine correct engagement and prevent release of the terminals (5) by the primary retaining lances; the secondary retaining device (30) also has a pair of U-shaped elastic members (40) projecting from the movable member (31) and deformable, by interaction with the casing (3), between a disabling configuration in which the elastic members (40) project partially outwards of the casing (3) and prevent insertion of the connector (1) inside a receptacle of the complementary connector, and an enabling configuration reached when the movable member (31) is in the closed position, and in which the elastic members (40) are housed entirely within the outer contour of the casing (3) and permit insertion and connection of the connector (1) inside the receptacle of the complementary connector. <IMAGE> <IMAGE>

IPC 8 full level

H01R 13/436 (2006.01)

CPC (source: EP)

H01R 13/4365 (2013.01)

Cited by

EP2109189A1; GB2375440A; GB2375440B; DE102017011910A1; US8974241B2; WO2008078156A1; WO2008104838A3; DE102017011910B4; US8231409B2; US7785146B2

Designated contracting state (EPC)

AT BE DE ES FR GB SE

DOCDB simple family (publication)

EP 0967686 A1 19991229; EP 0967686 B1 20080507; AT E394815 T1 20080515; DE 69938635 D1 20080619; ES 2306490 T3 20081101; IT TO980543 A0 19980623; IT TO980543 A1 19991223

DOCDB simple family (application)

EP 99111409 A 19990611; AT 99111409 T 19990611; DE 69938635 T 19990611; ES 99111409 T 19990611; IT TO980543 A 19980623