

Title (en)  
ELECTRICAL CONNECTOR

Title (de)  
ELEKTRISCHER STECKVERBINDER

Title (fr)  
CONNECTEUR ÉLECTRIQUE

Publication  
**EP 3410540 A1 20181205 (EN)**

Application  
**EP 17173210 A 20170529**

Priority  
EP 17173210 A 20170529

Abstract (en)

An electrical connector (10) for connecting to a counter connector(500) along a mating axis (X), the electrical connector (10) comprising a first connector housing (100) comprising a terminal cavity (102), a second connector housing (200) comprising a connector cavity (202) adapted to receive the first connector housing(100), a component position assurance device (300) that locks the first connector housing to the second connector housing and a terminal (400) carried in the terminal cavity in a fully assembled position (A), wherein the first connector housing (100), the terminal cavity (102) and the second connector housing (200) are aligned along the mating axis (X), wherein the electrical connector comprises a preassembled state (P), wherein the first connector housing and the second connector housing are separated and wherein the component position assurance device is assembled to and hold at the first connector housing in a pre-locked position (PL), whereby the component position assurance device is prevented from being pulled off the first connector housing by fifth locking means, provided on the component position assurance device, cooperating with first locking means provided on the first connector housing and whereby the component position assurance device is prevented from being moved in the fully assembled position (A) by second blocking means provided on the component position assurance device, cooperating with first blocking means provided on the first connector housing, whereby the second blocking means are released by first releasing means attached in the connector cavity, when the first connector housing is inserted into the second connector housing, allowing the component position assurance device to move to the fully assembled position (A).

IPC 8 full level  
**H01R 13/514** (2006.01); **H01R 13/422** (2006.01); **H01R 13/506** (2006.01); **H01R 13/642** (2006.01); **H01R 13/641** (2006.01)

CPC (source: EP)  
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Citation (search report)

- [I] WO 2014060229 A1 20140424 - TYCO ELECTRONICS AMP ITALIA SRL [IT]
- [X] US 8016606 B1 20110913 - KWAN MENG SANG [SG], et al
- [A] WO 2008069895 A1 20080612 - J S T CORP [US], et al
- [A] US 2009053917 A1 20090226 - SASAKI YASUHIRO [JP], et al

Cited by  
US2021098930A1; US11515660B2; US11888254B2

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

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