

Title (en)

Coupling system for electrical connector assembly

Title (de)

Kopplungssystem für elektrische Verbinderanordnung

Title (fr)

Système de couplage pour ensemble formant connecteur électrique

Publication

**EP 2822105 A1 20150107 (EN)**

Application

**EP 14250011 A 20140129**

Priority

US 201313759445 A 20130205

Abstract (en)

An electrical connector assembly that comprises a first connector member supporting a first contact and has a first interface end that defines a first tapered surface, and a second connector member supporting a second contact and has a second interface end that mates with the first interface end. The second interface end has a second tapered surface. The first and second tapered surfaces have substantially the same angle of taper and taper in opposite directions to engage one another to form a friction fit. A coupling member is mounted near one of the interface ends and has an external engagement member that is configured to engage a corresponding external engagement member. A biasing member is disposed in an annular receiving area. The coupling member is movable between an unlocked position when the external engagement members are not engaged and a locked position when the external engagement members are engaged.

IPC 8 full level

**H01R 13/625** (2006.01); **H01R 24/52** (2011.01)

CPC (source: EP)

**H01R 13/625** (2013.01); **H01R 24/52** (2013.01)

Citation (applicant)

- US 4556807 A 19851203 - YAMADA KAZUJI [JP], et al
- US 4296986 A 19811027 - HERRMANN JR HENRY O
- US 4405196 A 19830920 - FULTON ROBERT W [US]

Citation (search report)

- [XYI] US 3976352 A 19760824 - SPINNER GEORG
- [Y] WO 2012138644 A2 20121011 - BELDEN INC [US], et al
- [Y] EP 2511990 A2 20121017 - AMPHENOL CORP [US]
- [A] US 5713765 A 19980203 - NUGENT STEVEN F [US]
- [A] US 4746305 A 19880524 - NOMURA SHINJI [JP]

Citation (examination)

- US 4808127 A 19890228 - SWANIC ANTHONY [US]
- US 6955563 B1 20051018 - CROAN QUINN F [US]
- US 2010099290 A1 20100422 - GASTINEAU DOUGLAS REID [US]
- US 3920269 A 19751118 - ANDERSON FRANKLIN T

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2822105 A1 20150107**; CN 103972706 A 20140806; CN 103972706 B 20190308

DOCDB simple family (application)

**EP 14250011 A 20140129**; CN 201410044896 A 20140207