

Title (en)

An industrial electric connector with push button for the fast unhooking of the complementary connector

Title (de)

Ein elektrischer industrieller Verbinder mit Drucktaste für das schnelle Aussetzen eines komplementären Verbinders

Title (fr)

Un connecteur électrique industriel avec bouton-poussoir pour le décrochage rapide d'un connecteur complémentaire

Publication

EP 2688154 A1 20140122 (EN)

Application

EP 12425127 A 20120719

Priority

EP 12425127 A 20120719

Abstract (en)

The present invention concerns an electric connector (1) that couples, in a releasable manner, to a complementary electric connector (100). The electric connector foresees an external casing (2), an electrical plug (4) arranged inside the external casing (2) in such a way so that it can connect with the complementary electric connector (100) with fast hooking means (10). The fast hooking means are suitable for engaging in a releasable manner with relative connection means (42) belonging to the complementary electric connector (100) when the complementary electric connector couples to the electric connector (1). According to the invention, the fast hooking means (10) comprise: - A slab (11) assembled slidingly with respect to the electrical plug (4); - Elastic means (16,216) arranged in such a way as to push an end (11') of the slab (11) outside the casing (2) through an opening (50) found in the casing and; - An engaging element (41) arranged in the slab so that it can engage in contrast against a complementary element (42) belonging to the complementary electric connector (100) when the complementary electric connector (100) is inserted in the electrical plug (4), and it can disengage from said complementary tooth (42) when the slab (11) is made to slide with respect to the electrical plug (4) through a crushing exerted on the end of the slab exiting from the casing (2).

IPC 8 full level

H01R 13/627 (2006.01); **H01R 13/635** (2006.01)

CPC (source: EP)

H01R 13/6275 (2013.01); **H01R 13/635** (2013.01)

Citation (search report)

- [XYI] EP 0942495 A1 19990915 - FRAMATOME CONNECTORS INT [FR]
- [X] GB 2436900 A 20071010 - KINGFISHER PLC [GB]
- [X] EP 2400601 A1 20111228 - SUMITOMO WIRING SYSTEMS [JP]
- [X] EP 0026703 A1 19810408 - SOCAPEX [FR]
- [X] US 7077683 B1 20060718 - ROSS NICKY CHARLES [US]
- [Y] US 2007232152 A1 20071004 - HONG FAN SHIN [SG]

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 2688154 A1 20140122; EP 2688154 B1 20171206

DOCDB simple family (application)

EP 12425127 A 20120719