

Title (en)  
Electrical connector with quick release

Title (de)  
Elektrische Steckverbindung mit Schnellentriegelung

Title (fr)  
Connecteur électrique avec déverrouillage rapide

Publication  
**EP 1777785 A2 20070425 (DE)**

Application  
**EP 06117645 A 20060721**

Priority  
DE 202005016343 U 20051019

Abstract (en)  
A quick-release plug connector arrangement comprises a female socket member (3), a plug member (2) having a portion externally threaded to define screw threads (6), a retaining mechanism including radially inwardly directed spring fingers biased inwardly toward locking engagement at their free extremities with the plug member external screw threads, and a quick-release mechanism (4) for releasing the spring fingers from locking engagement with the screw threads. A quick-release plug connector arrangement comprises a female socket member having a first end surface containing a cylindrical chamber (12) having a bottom wall; a plug member having a cylindrical first end portion inserted axially within the chamber, the plug member first end portion being externally threaded to define screw threads; a retaining mechanism normally retaining the plug member first end portion within the chamber, the retaining mechanism including radially inwardly directed spring fingers supported circumferentially within the chamber about the plug member first end portion, the spring fingers being biased inwardly toward locking engagement at their free extremities with the plug member external screw threads; and a quick-release mechanism (4) for releasing the spring fingers from locking engagement with the screw threads, thus permitting separation of the plug member from the socket member.

IPC 8 full level  
**H01R 13/627** (2006.01)

CPC (source: EP US)  
**H01R 13/6277** (2013.01 - EP US); **H01R 13/622** (2013.01 - EP US)

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Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
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