

Title (en)  
PLUG CONNECTOR

Title (de)  
STECKVERBINDER

Title (fr)  
CONNECTEUR ENFICHABLE

Publication  
**EP 3443620 A1 20190220 (DE)**

Application  
**EP 17716126 A 20170406**

Priority  
• DE 102016004708 A 20160415  
• DE 102016006597 A 20160530  
• EP 2017000432 W 20170406

Abstract (en)  
[origin: WO2017178101A1] The invention relates to a plug connector (2), in particular a high frequency plug connector, comprising a first connector (4), in particular a coaxial connector, which has a first inner conductor part (14), a first outer conductor part (28), and a first insulation part (26) for retaining the first inner conductor part (14) radially inside and coaxially to the first outer conductor part (28), and also comprising a second connector (6), in particular a coaxial connector, which is designed for axial insertion into the first connector (4) in a mating direction (F) and has a second inner conductor part (34), a second outer conductor part (38), and a second insulation part (36) for retaining the second inner conductor part (34) radially inside and coaxially to the second outer conductor part (38), wherein in an inserted state of the first and second connectors (4, 6) the first inner conductor part (14) electrically and mechanically contacts the second inner conductor part (34) and the first outer conductor part (28) electrically and mechanically contacts the second outer conductor part (38), wherein the first connector (4) has a first surface (11) and the second connector (6) has a second surface (12), between which in the inserted state a seal (8) is arranged and is compressed in the axial direction. According to the invention, the first connector (4) has at least one detent element (22) and the second connector (6) has at least one counterpart detent element (24), such that during axial insertion of the first connector (4) into the second connector (6) in an inserted state the at least one detent element (22) and the at least one counterpart detent element (24) engage in one another and the first connector (4) is locked with the second connector (6) in the inserted state, wherein the first connector (4) and the second connector (6) are pushed apart by a restoring force of the compressed seal (8) in the axial direction and contrary to the mating direction (F), in such a way that the detent element (22) is pushed without play counter to the engagement with the counterpart detent element (24).

IPC 8 full level  
**H01R 13/52** (2006.01); **H01R 13/627** (2006.01); **H01R 24/40** (2011.01)

CPC (source: EP US)  
**H01R 13/5219** (2013.01 - EP US); **H01R 13/6273** (2013.01 - US); **H01R 13/6275** (2013.01 - EP US); **H01R 24/40** (2013.01 - EP US); **H01R 2103/00** (2013.01 - EP US)

Citation (examination)  
DE 2353004 A1 19740502 - RADIALL SA

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)  
**WO 2017178101 A1 20171019**; CN 109075494 A 20181221; EP 3443620 A1 20190220; TW M551358 U 20171101; US 10141688 B2 20181127; US 2018205175 A1 20180719

DOCDB simple family (application)  
**EP 2017000432 W 20170406**; CN 201780022616 A 20170406; EP 17716126 A 20170406; TW 106205277 U 20170414; US 201715743717 A 20170406