

Title (en)
Coaxial connector

Title (de)
Koaxialanschluss

Title (fr)
Connecteur coaxial

Publication
EP 1858124 A1 20071121 (FR)

Application
EP 07300982 A 20070425

Priority
FR 0651730 A 20060515

Abstract (en)
A coaxial connector comprises two connector units (1, 2). The first connector unit forms a socket. The first connector unit has a first body (5), a resilient return unit, and a first central contact unit (8). The first central contact unit has first front end. The contact unit is movable against action of resilient return unit in sliding relative to first body. The second connector unit forms plug. The second connector unit is arranged to be capable of being releasably connected to first connector unit. The second connector comprises second body and second central contact unit. A coaxial connector comprises two connector units. The first connector unit forms a socket. The first connector unit has a first body, a resilient return unit, and a first central contact unit. The first central contact unit has first front end. The contact unit is movable against the action of a resilient return unit in sliding relative to the first body. The second connector unit forms a plug. The second connector unit is arranged to be capable of being releasably connected to the first connector unit. The second connector comprises second body and a second central contact unit. The second central contact unit has second front end. The two central contact units are arranged in such a manner that when the two connector units are connected together. The contact units bear one against the other via their front ends. The first connector unit includes a guide pin for guiding the first contact unit. The first contact unit includes a recess in which the pin engages. The first contact unit and the resilient return unit are arranged in such a manner that the resilient return unit exerts on the first contact unit a force that is not collinear with the longitudinal axis of the guide pin, making it possible in particular to tilt the contact unit relative to the pin. The resilient return unit comprises a helical spring. The first contact unit includes a shoulder. The first contact units and the guide pin present a cross-section that is circular. The first connector unit includes an insulating insert provided with an opening in which the first central contact unit engages.

Abstract (fr)
La présente invention concerne un connecteur coaxial (3) comportant : - un premier élément de connecteur (1), formant notamment une embase, comportant un premier corps, un organe de rappel élastique (16) et un premier élément de contact central (8) ayant une première extrémité frontale (19), cet élément de contact étant mobile, au moins par coulissement par rapport au premier corps, contre l'action de l'organe de rappel élastique, - un deuxième élément de connecteur (2), formant notamment une fiche, agencé pour pouvoir être connecté de manière amovible au premier élément de connecteur, et comportant un deuxième corps (31) et un deuxième élément de contact central (41) ayant une deuxième extrémité frontale (43), caractérisé par le fait que les premier et deuxième éléments de contact centraux (8 ; 41) sont agencés de manière à ce que, lorsque les premier et deuxième éléments de connecteur sont connectés, les éléments de contact sont en appui l'un contre l'autre par leurs extrémités frontales (19 ; 43).

IPC 8 full level
H01R 13/646 (2011.01)

CPC (source: EP US)
H01R 24/46 (2013.01 - EP US); **H01R 13/2421** (2013.01 - EP US); **H01R 2103/00** (2013.01 - EP US); **H01R 2201/02** (2013.01 - EP US); **Y10S 439/944** (2013.01 - EP US)

Citation (search report)
• [YX] DE 9215031 U1 19930107
• [Y] US 6696850 B1 20040224 - SANDERS DAVID L [US]
• [YX] US 2003082942 A1 20030501 - WLOS JAMES J [US]
• [A] FR 2712433 A1 19950519 - NICOMATIC [FR]

Designated contracting state (EPC)
CH DE FR GB LI

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1858124 A1 20071121; CN 101093925 A 20071226; FR 2901066 A1 20071116; KR 20070110798 A 20071120; TW 200810283 A 20080216; US 2007264853 A1 20071115; US 7632121 B2 20091215

DOCDB simple family (application)
EP 07300982 A 20070425; CN 200710102073 A 20070514; FR 0651730 A 20060515; KR 20070046564 A 20070514; TW 96117243 A 20070515; US 79040207 A 20070425