

Title (en)

Electrical connector for a coaxial cable and method of fitting said connector with a coaxial cable.

Title (de)

Elektrischer Stecker für ein Koaxialkabel und Verfahren zum Verbinden dieses Steckers mit einem Koaxialkabel.

Title (fr)

Connecteur électrique pour un câble coaxial et méthode pour assembler ce connecteur à un câble coaxial.

Publication

EP 0020188 A2 19801210 (EN)

Application

EP 80400458 A 19800404

Priority

US 4166779 A 19790523

Abstract (en)

Electrical connector for a coaxial cable (10) of the type having a central conductor (12) separated from a braid conductor (14) by an insulation layer (16), and with a jacket (18) around the braid conductor (14), said connector (100) comprising a rear nut (400), a forward body (200), and a medial clamp member (300), the clamp member (300) having a central aperture extending therethrough from front to rear for receiving the insulation layer (16) and central conductor (14) therein, a frusto-conical portion of a smaller diameter at the rear of the clamp member, and a helical groove which is machined into the frusto-conical portion to provide a series of undercuts, and said connector (100) being assembled over the coaxial cable (10) with the nut (400) slipped over the cable (10), the clamp member (300) inserted between the braid conductor (14) and the insulation layer (16) and then rotated in the direction of the helical groove to progressively draw the clamp member (300) within the braid conductor (14) until the entire frusto-conical portion is within the braid conductor (14), such that an edge of each undercut provides a corner surface which engages the braid conductor (14), securing it and providing a resistance to undesirable axial movement of the clamp member (300) away from the cable (10), and with the nut (400) secured to the body (200) by means of interfitting threads (420, 240) to complete the electrical contact and captivate the clamp member (300) therebetween in proper position.

IPC 1-7

H01R 17/12

IPC 8 full level

H01R 13/646 (2011.01)

CPC (source: EP)

H01R 24/40 (2013.01); **H01R 2103/00** (2013.01)

Cited by

EP0140185A3; FR2671434A1; RU210673U1; US4744775A; DE102005010340B4; EP0041419A1; US4825021A; CN114678717A; GB2253045B; CN115332893A; AU737412B2; EP0479684A1; FR2667731A1; US6497587B2; WO9824155A1; WO8805610A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0020188 A2 19801210; **EP 0020188 A3 19810114**; **EP 0020188 B1 19830209**; CA 1141834 A 19830222; DE 3061857 D1 19830317; JP S55159579 A 19801211

DOCDB simple family (application)

EP 80400458 A 19800404; CA 343890 A 19800117; DE 3061857 T 19800404; JP 6879380 A 19800523