

Title (en)
HOLLOW CONDUCTOR CONNECTING MEMBER, HOLLOW CONDUCTOR SYSTEM AND METHOD FOR FORMING A HOLLOW CONDUCTOR SYSTEM

Title (de)
HOHLLEITERVERBINDUNGSELEMENT, HOHLLEITERSYSTEM UND VERFAHREN ZUR HERSTELLUNG EINES HOHLLEITERSYSTEMS

Title (fr)
ÉLÉMENT DE CONNEXION DE CONDUCTEUR CREUX, SYSTÈME DE CONDUCTEUR CREUX ET PROCÉDÉ DE FORMATION DE SYSTÈME DE CONDUCTEUR CREUX

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Abstract (en)
[origin: EP3301750A1] A hollow conductor connecting member (16) for connecting two hollow conductors (12, 14; 50, 52, 54) is described wherein the connecting member (16) comprises at least one main body (18) extending in an axial direction (A). The main body (18) is configured such that it can be inserted into the hollow conductors (12, 14; 50, 52, 54) at least partly. The area of the cross section of the main body (18) varies along the axial direction (A) of the connecting member (16). Further, a hollow conductor system (10) and a method for forming a hollow conductor system (10) are described.

IPC 8 full level
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CPC (source: EP)
H01P 1/042 (2013.01); **H01P 1/025** (2013.01); **H01P 1/027** (2013.01)

Citation (opposition)
Opponent : THALES
• WO 2014174494 A2 20141030 - SWISSTO12 SA [CH]
• US 2011133446 A1 20110609 - NAKAYAMA KENICH [JP]
• GB 1418895 A 19751224 - POST OFFICE
• US 4675633 A 19870623 - YOUNG LOCK R [US]
• US 4369413 A 19830118 - DEVAN JOSEPH M, et al
• EP 2958187 A1 20151223 - SPINNER GMBH ELEKTROTECH [DE]
• EP 110402 A
• EP 0440126 A1 19910807 - ALCATEL ESPACE [FR]
• WO 2009144763 A1 20091203 - RF MICROTCH S R L [IT], et al
• US 4916458 A 19900410 - GOTO NAOHISA [JP]
• ANONYMOUS: "Directional Broadwall Multi Hole Dual Arm", ATMMICROWAVE, 26 April 2015 (2015-04-26), pages 1 - 6, XP055879986, Retrieved from the Internet <URL:https://www.atmmicrowave.com/waveguide/coupler/directional-broadwall-multi-hole-dual-arm/> [retrieved on 20220117]
• ANONYMOUS: "Embouts et jonctions pour tubes en inox, gamme professionnelle (8) - Metalenstock", METALENSTOCK, 1 July 2016 (2016-07-01), pages 1 - 5, XP055879270, Retrieved from the Internet <URL:https://www.metalenstock.fr/80-jonctions-et-raccords-pour-tubes?controllerUri=cateaoiv&p=8> [retrieved on 20220114]
• ANONYMOUS: "Raccord droit mâle-mâle inox 316 brossé tube carré 30 x 30 mm", METALENSTOCK, 1 July 2016 (2016-07-01), pages 1 - 2, XP055879276, Retrieved from the Internet <URL:https://www.metalenstock.fr/jonctions-et-raccords-pour-tubes/1359-raccord-droit-male-male-inox-316-brosse-tube-carre-30-x-30-mm.html> [retrieved on 20220114]
• ANONYMOUS: "Raccord droit de main courante inox 304 brossé 33,7 mm", METALENSTOCK, 1 July 2016 (2016-07-01), pages 1 - 2, XP055879274, Retrieved from the Internet <URL:https://www.metalenstock.fr/jonctions-et-raccords-pour-tubes/423-raccord-droit-de-main-courante-inox-304-brosse-337-mm.html> [retrieved on 20220114]
• ANONYMOUS: "Waveguides Impedance Matching", RADARTUTORIAL, 1 August 2016 (2016-08-01), pages 1 - 1, XP055879280, Retrieved from the Internet <URL:https://www.radartutorial.eu/03.linetheory/tl16.en.html> [retrieved on 20220114]
• CHU QING-XIN ET AL: "An In-Phase Output kappa-Band Traveling-Wave Power Divider/Combiner Using Double Ridge-Waveguide Couplers", IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, IEEE, USA, vol. 61, no. 9, 1 September 2013 (2013-09-01), USA, pages 3247 - 3253, XP011525390, ISSN: 0018-9480, DOI: 10.1109/TMTT.2013.2273764
• KANDASAMY PIRAPAHARAN, ET AL: "A Multiport Representation of the Step Junction of Two Circular Dielectric Waveguides and its Application to the Stepwise Approximation of a Tapered Dielectric Waveguide", T IEE JAPAN, vol. 122, no. 1, 1 January 2002 (2002-01-01), pages 13 - 19, XP055879289

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