

Title (en)

ORTHOGONAL MODE JUNCTION COUPLER AND ASSOCIATED POLARIZATION AND FREQUENCY SEPARATOR

Title (de)

ANSCHLUSSKOPPLER MIT ORTHOGONALMODUS, UND ENTSPRECHENDER POLARISATIONS- UND FREQUENZTRENNSCHALTER

Title (fr)

COUPLEUR DE JONCTION A MODE ORTHOGONAL ET SEPARATEUR DE POLARISATIONS ET DE FREQUENCES ASSOCIE

Publication

EP 3035445 B1 20190130 (FR)

Application

EP 15200108 A 20151215

Priority

FR 1402932 A 20141219

Abstract (en)

[origin: CA2915266A1] The present invention concerns the field of spatial telecommunications and more particularly an orthogonal-mode junction coupler and an associated polarization and frequency separator. The junction coupler (10) comprises three opening slots, referred to as coupling slots (101, 102), which are made in the casing of the coupler and pass through a plane (.pi.) referred to as transverse with respect to the junction coupler (10). Two of said three coupling slots are aligned along a first axis (.DELTA.T2) referred to as transverse with respect to the junction coupler, the section of said two coupling slots (102) being of the same dimensions and of the same orientation. The two coupling slots (102) are configured to be coupled to one of the two orthogonal linear polarizations. The third coupling slot (101) is situated on a second axis (.DELTA.T1) referred to as transverse with respect to the junction coupler, said second transverse axis (.DELTA.T1) being substantially orthogonal with respect to the first transverse axis (.DELTA.T2).

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

WO 0016431 A1 20000323 - CHANNEL MASTER LLC [US]

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DOCDB simple family (publication)

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DOCDB simple family (application)

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