

Title (en)

COUPLING STRUCTURE FOR THE CROSSING OF TRANSFER LINES

Title (de)

KOPPELSTRUKTUR ZUM KREUZEN VON ÜBERTRAGUNGSLEITUNGEN

Title (fr)

STRUCTURE DE COUPLAGE POUR LE CROISEMENT DE LIGNES DE TRANSMISSION

Publication

**EP 2815455 A1 20141224 (DE)**

Application

**EP 12813791 A 20121217**

Priority

- DE 102012202097 A 20120213
- EP 2012075711 W 20121217

Abstract (en)

[origin: WO2013120561A1] A coupling structure for the crossing of three transfer lines (11; 12; 13) for millimetre-wave or centimetre-wave signals (S1; S2; S3) in a signal conductor layer (72) of a circuit substrate (70), wherein the coupling structure (10) comprises three planar cross couplers (30; 40; 50), and wherein from each of the three cross couplers (30; 40; 50), two successive input/output points (33; 34; 41; 43; 44; 53; 54) of the three cross couplers (30; 40; 50) in the clockwise direction are each connected in the plane of the cross couplers (30; 40; 50) to an input/output point (33; 34; 41; 43; 44; 53; 54) of a respective other of the three cross couplers (30; 40; 50).

IPC 8 full level

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CPC (source: EP US)

**H01P 5/02** (2013.01 - US); **H01P 5/12** (2013.01 - US); **H01P 5/227** (2013.01 - EP US)

Citation (search report)

See references of WO 2013120561A1

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BA ME

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**DE 102012202097 A1 20130814**; CN 104137330 A 20141105; CN 104137330 B 20180330; EP 2815455 A1 20141224; EP 2815455 B1 20191120; JP 2015511442 A 20150416; JP 5931221 B2 20160608; US 10062945 B2 20180828; US 2015035616 A1 20150205; WO 2013120561 A1 20130822

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