

Title (en)

Network for forming a beam of a compact antenna for circular or tapering antenna network

Title (de)

Strahlbildungsnetz einer Antenne mit geringem Platzbedarf für kreis- oder kegelstumpfförmiges Antennennetz

Title (fr)

Réseau de formation de faisceau d'antenne à faible encombrement pour réseau antenne circulaire ou tronc-conique

Publication

EP 2654121 B1 20140924 (FR)

Application

EP 13163734 A 20130415

Priority

FR 1201167 A 20120420

Abstract (en)

[origin: EP2654121A1] The network (600) has a set of superimposed elements (631-633), and a network of cross-couplers (601-604) comprising two opposite groups of paired entries. A set of lengths of waveguides of each of the set of superimposed elements is arranged such that a wave enters electric path. A free end of each of the set of waveguides is connected to an output (614), and constant data is provided for all superimposed elements. Each cross-coupler of the superimposed elements is turned at a predetermined angle with regard to couplers of an immediate lower superimposed element. An independent claim is also included for an antenna network.

IPC 8 full level

H01P 5/22 (2006.01); **H01P 5/18** (2006.01); **H01Q 21/20** (2006.01)

CPC (source: EP)

H01P 5/182 (2013.01); **H01P 5/227** (2013.01); **H01Q 21/205** (2013.01)

Cited by

CN115548619A; EP3379640A4; EP3422465A4; FR3130459A1; WO2023111001A1

Designated contracting state (EPC)

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