

Title (en)

Method for generating arbitrary passive beam forming networks

Title (de)

Verfahren zur Erzeugung eines passiven Netzwerk zur Strahlformung

Title (fr)

Procédé pour générer un réseau passif de formation de faisceau

Publication

EP 1398849 A1 20040317 (EN)

Application

EP 03255682 A 20030911

Priority

US 24231102 A 20020911

Abstract (en)

The power division branching network having several branching nodes connected to output nodes (120a-120p), is determined, such that the ratio of power distributed to branches at branching nodes is minimized throughout the branching network. The optimal physical layout configuration of the branching network is determined. Microstrip lines are used in a tree structure. Independent claims are also included for the following: (1) method for providing passive beam forming network; and (2) system for generating passive beam forming network.

IPC 1-7

H01Q 21/00; **H01Q 21/06**

IPC 8 full level

H01Q 21/00 (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP)

H01Q 21/0075 (2013.01); **H01Q 21/061** (2013.01)

Citation (search report)

- [X] EP 0504552 A1 19920923 - SELENIA SPAZIO SPA [IT]
- [X] GB 2367188 A 20020327 - OGIER ELECTRONICS LTD [GB]
- [X] US 6246364 B1 20010612 - RAO SUDHAKAR K [US], et al
- [X] RODIONOV A M: "A METHOD OF DESIGNING THE PATTERN-SHAPING NETWORK OF AN ADAPTIVE ANTENNA ARRAY", TELECOMMUNICATIONS AND RADIO ENGINEERING, BEGELL HOUSE, INC., NEW YORK, NY, US, vol. 47, no. 10, 1 October 1992 (1992-10-01), pages 50 - 54, XP000426100, ISSN: 0040-2508

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