

Title (en)
RADIO FREQUENCY NETWORK

Publication
EP 0396430 A3 19920205 (EN)

Application
EP 90304909 A 19900504

Priority
GB 8910410 A 19890505

Abstract (en)
[origin: EP0396430A2] A radio frequency network, comprises a first common node (2) connected to a common input or output port (8), a second common node (3), and at least three identical branches (1) therebetween, each branch (1) comprising a first branch node (4), to which is connected a balance load (6), and a second branch node (5) spaced therefrom and connected to a branch output or input port (7), the network being dimensioned and arranged such that an r.f. signal of a specific frequency input at the common input port (8) is divided equally between all the branch output ports (7), and a plurality of identical r.f. signals of the specific frequency applied in phase to all the branch input ports (7) appear combined at the common output port (8).

IPC 1-7
H01P 5/16; **H03H 7/48**

IPC 8 full level
H01P 5/02 (2006.01); **H01P 5/16** (2006.01); **H01P 5/19** (2006.01); **H03F 3/60** (2006.01); **H03H 7/48** (2006.01); **H04B 1/04** (2006.01); **H04N 5/38** (2006.01)

CPC (source: EP)
H01P 5/16 (2013.01)

Citation (search report)

- [X] DE 2900709 A1 19790719 - INT STANDARD ELECTRIC CORP
- [X] MICROWAVE JOURNAL. vol. 22, no. 12, December 1979, DEDHAM, US, pages 43 - 57; H.HOWE JR: 'Simplified design of high power,N-way,in-phase power divider/combiners'
- [Y] TELECOMMUNICATIONS AND RADIO ENGINEERING. vol. 36/37, no. 11, November 1982, WASHINGTON, US, pages 75 - 76; V.V.ZAYENTSEV ET AL.: 'Multichannel power divider using striplines with capacitive branching'
- [Y] NEC RESEARCH AND DEVELOPMENT. no. 47, October 1977, TOKYO, JP, pages 31 - 36; M.IWAHORI ET AL.: 'Fully transistorized 1 kW VHF TV transmitter'
- [X] IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES. vol. 31, no. 6, June 1983, NEW YORK, US, pages 491 - 495; F. ARDEMAGNI: 'An optimized L-band eight-way Gysel power divider-combiner'
- [A] NEC RESEARCH AND DEVELOPMENT. no. 59, October 1980, TOKYO, JP, pages 72 - 80; S.HIGASHI ET AL.: 'PCN-1200 series VHF television transmitters'

Cited by
EP0508662A3; WO0161780A1

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