

Title (en)

CIRCULARLY POLARISED MICROWAVE ANTENNA

Publication

EP 0071069 A3 19851009 (DE)

Application

EP 82106235 A 19820713

Priority

DE 3129425 A 19810725

Abstract (en)

[origin: EP0071069A2] In a microwave antenna (1), consisting of a waveguide emitter and two exciter emitters (14), controlled by a hybrid (12) and arranged at 90 DEG with respect to each other perpendicular to the axis of the waveguide emitter, for right-hand and left-hand circularly polarised electromagnetic waves, in order to achieve a high-precision phase difference of the polarisation components with simple, cost-saving means, which are as suitable as possible for quantity production, the exciter emitters (14), the hybrid (12) and their connecting lines (13) are designed on a substrate (7) in printed technology, the part of the substrate (7) carrying the exciter emitters (14) being arranged transversely in the waveguide emitter. <IMAGE>

IPC 1-7

H01Q 25/00; H01Q 13/02; H01Q 9/06

IPC 8 full level

H01Q 1/38 (2006.01); **H01Q 13/02** (2006.01); **H01Q 21/24** (2006.01)

CPC (source: EP)

H01Q 1/38 (2013.01); **H01Q 13/0241** (2013.01); **H01Q 21/24** (2013.01)

Citation (search report)

- [X] US 4208660 A 19800617 - MCOWEN SHERWOOD A JR [US]
- [E] EP 0064313 A1 19821110 - ELECTRONIQUE & PHYSIQUE [FR], et al
- [A] US 3375474 A 19680326 - THOMPSON LEONARD W, et al
- [A] EP 0014635 A1 19800820 - THOMSON CSF [FR]

Cited by

EP1274149A3; FR2545280A1; FR2550891A1; CN103811876A; US5218374A; EP0564266A3; US5438340A; US4833482A; US5043683A; EP0073511A3; EP0933833A1; US6154183A; US5010348A; US4742354A; EP0735610A3; US4990926A; EP0215240A3; US5781161A; EP0355898A1; EP2506363A1; US8981867B2; EP0350324B1

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0071069 A2 19830209; EP 0071069 A3 19851009; DE 3129425 A1 19830210; DE 3129425 C2 19911024; FI 75239 B 19880129; FI 75239 C 19880509; FI 822598 A0 19820723; FI 822598 L 19830126

DOCDB simple family (application)

EP 82106235 A 19820713; DE 3129425 A 19810725; FI 822598 A 19820723