

Title (en)

BEAM FORMING NETWORK FOR A BUTLER MATRIX FED CIRCULAR ARRAY

Publication

EP 0227910 A3 19871202 (EN)

Application

EP 86115004 A 19861029

Priority

US 80291785 A 19851129

Abstract (en)

[origin: EP0227910A2] A beam forming network is described for generating a difference beam in a first direction with an omnidirectional sidelobe in other directions incorporating a plurality of hybrid circuits and a plurality of directional couplers coupled together. The invention overcomes the problem of requiring a more complex circuit for generating a difference beam with an omnidirectional sidelobe.

IPC 1-7

H01Q 3/40; **H01Q 25/02**

IPC 8 full level

G01S 13/74 (2006.01); **H01P 5/18** (2006.01); **H01Q 3/24** (2006.01); **H01Q 3/40** (2006.01); **H01Q 21/20** (2006.01); **H01Q 21/22** (2006.01); **H01Q 21/29** (2006.01); **H01Q 25/02** (2006.01)

CPC (source: EP)

H01P 5/222 (2013.01); **H01Q 3/40** (2013.01); **H01Q 25/02** (2013.01)

Citation (search report)

- [A] US 4196436 A 19800401 - WESTERMAN CHARLES W [US]
- [A] US 3713167 A 19730123 - DAVID S
- [A] US 4101892 A 19780718 - ALFORD ANDREW
- [A] PROCEEDINGS OF THE IEEE 1979 NATIONAL AEROSPACE AND ELECTRONICS CONFERENCE, NAECON 1979, Dayton, 15th-17th May 1979, vol. 1, pages 44-49, IEEE; J.A. ACORACI: "Small lightweight electronically steerable cylindrical antenna successfully utilized in an air traffic management system"

Cited by

EP1178567A3; US7031719B2; US11002846B2; WO2016146666A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0227910 A2 19870708; **EP 0227910 A3 19871202**; IL 80457 A0 19870130; JP S62132403 A 19870615

DOCDB simple family (application)

EP 86115004 A 19861029; IL 8045786 A 19861030; JP 27989386 A 19861126