

Title (en)
Antenna array with radiating slots

Title (de)
Schlitzstrahler-Gruppenantenne

Title (fr)
Antenne reseau à fentes rayonnantes

Publication
EP 0884797 A1 19981216 (FR)

Application
EP 98401444 A 19980612

Priority
FR 9707354 A 19970613

Abstract (en)
The aerial array with radiating slots is formed from a sandwich structure of integrated circuits. It includes a radiating plate (2) made of a microwave transparent printed circuit. On its upper face (20) this includes a metallised plane (21) in which there are etched radiation slot alignments (22). Above this metallised plane there are channels (1) made of plastic material, with an internal metallised wall facing the radiating plate (2). These are soldered by their edges (12) to the metallised plane (21), above and parallel to the alignments of radiating slots (22) in order to form the three missing walls of a waveguide behind each radiating slot. An upper plate (3) is fitted to the backs of the channels in order to provide rigidity for the aerial assembly.

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 US)
H01Q 21/0043 (2013.01 - EP US); **H01Q 21/005** (2013.01 - EP US); **H01Q 21/0087** (2013.01 - EP US); **H01Q 21/064** (2013.01 - EP US); **Y10T 29/49016** (2015.01 - EP US)

Citation (search report)

- [A] FR 2180523 A1 19731130 - THOMSON CSF [FR]
- [A] US H680 H 19890905
- [A] US 4255752 A 19810310 - NOBLE WALTER J, et al
- [A] US 3950204 A 19760413 - WILLIAMS WARREN D
- [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 315 (E - 1099) 12 August 1991 (1991-08-12)

Cited by
US8766875B2; WO2013176778A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0884797 A1 19981216; FR 2764739 A1 19981218; FR 2764739 B1 19990917; US 5990844 A 19991123

DOCDB simple family (application)
EP 98401444 A 19980612; FR 9707354 A 19970613; US 9617898 A 19980612