

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)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 315 (E - 1099) 12 August 1991 (1991-08-12)

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