

Title (en)  
COMBINED ANTENNA SYSTEM

Publication  
**EP 0021193 B1 19850327 (DE)**

Application  
**EP 80103160 A 19800609**

Priority  
IT 2356779 A 19790614

Abstract (en)  
[origin: ES8101819A1] An integrated radar antenna array consists of a first antenna, in which an exciter is positioned at a focal length of a double curvature reflector with different height and width dimensions to generate a first directional radiation pattern, and a second antenna comprising the reflector of the first antenna and a plurality of micro strip surfaces fitted to the double curvature of the reflector and suitably secured thereon. The radiating micro strip surface is positioned on the reflector at a distance  $d = K \lambda / 2$  where  $\lambda$  = wavelength of the exciter frequency and K can be 0,1,2,3 . . . n.

IPC 1-7  
**H01Q 21/28**

IPC 8 full level  
**H01Q 13/08** (2006.01); **G01S 7/02** (2006.01); **G01S 13/78** (2006.01); **H01Q 1/38** (2006.01); **H01Q 19/10** (2006.01); **H01Q 19/17** (2006.01); **H01Q 21/00** (2006.01); **H01Q 21/20** (2006.01); **H01Q 21/28** (2006.01); **H01Q 21/29** (2006.01); **H01Q 25/02** (2006.01)

CPC (source: EP US)  
**H01Q 1/38** (2013.01 - EP US); **H01Q 21/28** (2013.01 - EP US)

Citation (examination)

- US 3550135 A 19701222 - BODMER MAXIMILIAAN HUBERT
- Microwave, J. Okt, 1976, S. 47

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Designated contracting state (EPC)  
BE CH DE FR GB LI NL SE

DOCDB simple family (publication)  
**EP 0021193 A1 19810107; EP 0021193 B1 19850327**; BR 8003731 A 19810113; DE 3070377 D1 19850502; EG 13860 A 19830331; ES 492452 A0 19801216; ES 8101819 A1 19801216; IN 152705 B 19840317; IT 1166889 B 19870506; IT 7923567 A0 19790614; JP S5673903 A 19810619; JP S634362 B2 19880128; US 4328500 A 19820504

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