

Title (en)
Stripline patch antenna with slot plate.

Title (de)
Mikrostreifenleiterantenne mit Schlitzplatte.

Title (fr)
Antenne à microbandes avec plaque à fente.

Publication
EP 0414266 A1 19910227 (EN)

Application
EP 90116272 A 19900824

Priority
JP 21948889 A 19890825

Abstract (en)
A stripline patch antenna (1) having a slot plate (8) which is capable of obtaining higher antenna gain, while reducing the loss due to the feed lines. The antenna (1) includes at least one radiating element (4) for transmitting and receiving radio waves; a feed line (5) for transmitting signals to and from the radiating element; a dielectric substrate (2) for supporting the radiating element means (4) and the feed line means (5); a grounding conductor (3) located below the dielectric substrate (2); and a slot plate (8) located above the dielectric substrate (2), having a plurality of slots (7) more numerous than the radiating element (4). The triplate substrate can be adapted to this antenna. A plurality of antenna units so constructed can be arranged in array such that at least one of the slots of each antenna unit is shared with a neighboring antenna unit.

IPC 1-7
H01Q 21/00; **H01Q 21/06**

IPC 8 full level
H01Q 21/20 (2006.01); **H01Q 13/08** (2006.01); **H01Q 13/10** (2006.01); **H01Q 21/00** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP KR)
H01Q 13/10 (2013.01 - KR); **H01Q 21/0081** (2013.01 - EP); **H01Q 21/064** (2013.01 - EP)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 12, no. 397 (E-672)(3244) 21 October 1988, & JP-A-63 139406 (NEC) 11 June 1988,
- [A] IEEE TRANSACTIONS ON BROADCASTING. vol. 34, no. 4, December 1988, NEW YORK US pages 457 - 464; ITO et.al.: "PLANAR ANTENNAS FOR SATELLITE RECEPTION"

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