

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 B1 19951108 (EN)

Application

EP 90116272 A 19900824

Priority

JP 21948889 A 19890825

Abstract (en)

[origin: EP0414266A1] 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 21/06; **H01Q 21/00**

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)

Cited by

EP0468413A3; US5278569A; CN107543969A; CN115425394A

Designated contracting state (EPC)

DE FR GB NL SE

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EP 0414266 A1 19910227; **EP 0414266 B1 19951108**; DE 69023427 D1 19951214; DE 69023427 T2 19960404; JP 2898659 B2 19990602; JP H0382205 A 19910408; KR 0142567 B1 19980801; KR 910005515 A 19910330

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