

Title (en)

Microstrip antenna

Title (de)

Mikrostreifenleiterantenne

Title (fr)

Antenne microruban

Publication

EP 1148581 B1 20041208 (EN)

Application

EP 00304669 A 20000601

Priority

KR 20000019972 A 20000417

Abstract (en)

[origin: EP1148581A1] A microstrip antenna (100) having a ground patch (40) on which at least a feed line (30) is located, and a dielectric (50) laminated on the ground patch (40). The microstrip antenna (100) includes a left radiation patch (61) short-circuited to one end of the ground patch (40) and laminated on a left upper surface of the dielectric (50), and a right radiation patch (62) short-circuited to the other end of the ground patch (40) and laminated in an array on a right upper surface of the dielectric (50) with a radiation slot (70) arranged between the left and right radiation patches (61,62) so that capacitance is implemented between the left and right radiation patches (61,62). The ground patch (40) includes a right ground plate (41) having a triangular area extending from a feed point of a feed line (30) to both corners of a right lower surface of the dielectric (50) to which the right radiation patch (62) is short-circuited, a connection plate (42) having a narrow width (W2) and extending as long as a height (L5) of the right ground plate (41) from the feed point to the left radiation patch (61) to implement an inductance, and a left ground plate (43) connected to the connection plate (42) and covering a left lower surface of the dielectric (50). <IMAGE>

IPC 1-7

H01Q 9/04; **H01Q 19/00**

IPC 8 full level

H01Q 13/08 (2006.01); **H01Q 9/04** (2006.01); **H01Q 13/28** (2006.01); **H01Q 19/00** (2006.01)

CPC (source: EP)

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Cited by

US7688276B2; US7362283B2; US7911394B2; CN107645036A; CN113571912A; EP1837950A3; EP2088643A4; EP2477274A3; FR2841046A1; EP1376758A1; EP1363358A1; EP1859507A4; US7928915B2; US10355346B2; US9755314B2; WO03023900A1; WO2004001894A1; US7423593B2; US8026853B2; US7903037B2; US7486242B2; US9761934B2; US10056682B2; US8378892B2; US9905940B2; US8089409B2; US8581785B2; US9899727B2; US10644380B2; US11031677B2; US11349200B2; US11735810B2

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