

Title (en)

WIDEBAND MEANDER LINE LOADED ANTENNA

Title (de)

MIT BREITBAND-MEANDERLEITUNG BELASTETE ANTENNE

Title (fr)

ANTENNE LARGE BANDE CHARGEE PAR UNE LIGNE EN MEANDRES

Publication

EP 1295359 A4 20050105 (EN)

Application

EP 01941621 A 20010524

Priority

- US 0116959 W 20010524
- US 20692600 P 20000524
- US 20692200 P 20000524

Abstract (en)

[origin: WO0191227A2] A meander line loaded antenna provides a wide instantaneous bandwidth with a first planar conductor extending orthogonally from a ground plane, a second planar conductor substantially parallel to the ground plane and separated from the first planar conductor by a gap, a meander line interconnecting the first and second planar conductors across the gap, and a third conductor connecting the second planar conductor to ground. A fourth conductor provides enhanced capacitance between the first and second planar conductors. The antenna may be arranged in opposed pairs, and also as two orthogonally opposed pairs for enabling circular polarization. Applications include communications systems requiring wide instantaneous bandwidth and multimode capability.

[origin: WO0191227A2] A meander line loaded antenna (200) provides a wide instantaneous bandwidth with a first planar conductor (204) extending orthogonally from a ground plane (201), a second planar conductor (202) substantially parallel to the ground plane (201) and separated from the first planar conductor (204) by a gap (206), a meander line interconnecting the first and second planar conductors across the gap (206), and third conductor (212) connecting the second planar conductor to ground. A fourth conductor (210) provides enhanced capacitance between the first and second planar conductors. The antenna may be arranged in opposed pairs, and also as two orthogonally opposed pairs for enabling circular polarization. Applications include communications systems requiring wide instantaneous bandwidth and multimode capability.

IPC 1-7

H01Q 13/10; **H01Q 11/04**; **H01Q 15/24**; **H01Q 11/14**; **H01Q 7/00**; **H01Q 13/20**

IPC 8 full level

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CPC (source: EP KR)

H01Q 1/36 (2013.01 - EP); **H01Q 7/00** (2013.01 - EP KR); **H01Q 11/14** (2013.01 - EP)

Citation (search report)

- [DXA] US 5790080 A 19980804 - APOSTOLOS JOHN T [US]
- See references of WO 0191227A2

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