Title (en)

A substrate for a helical antenna and a method of manufacturing the same

Title (de)

Ein Substrat für eine Wendelantenne und Verfahren zur Herstellung der Antenne

Title (fr)

Substrat pour antenne hélicoidale et procédé de fabrication de celle-ci

Publication

EP 1524722 B1 20070627 (EN)

Application

EP 04078530 A 19980325

Priority

- EP 98915162 A 19980325
- US 82630997 A 19970327

Abstract (en)

[origin: WO9844590A1] An area-efficient network is configured such that a section of the feed network (1804, 1808) is disposed on a radiator portion of an antenna (1304, 1308) and the remainder of the feed network is disposed on a feed portion. Because part of the feed network is disposed on the radiator portion, the remainder of the feed network requires less area on the feed portion. As a result, the feed portion of the antenna can be smaller as compared to antennas having conventional feed networks. Preferably, the traces of the feed network that are disposed on the radiator portion are disposed opposite the ground portion of the radiators. As such, the ground portion of the radiators serves as a ground plane for this part of the feed network. The area-efficient feed network can be implemented with numerous different types of antennas of varying configurations, including single-band and multi-band helical antennas. As a result of this configuration, the overall size of the antenna and the amount of loss in the feed are reduced as compared to antennas having conventional feed networks.

IPC 8 full level

H01Q 1/38 (2006.01); **H01Q 11/08** (2006.01); **H01Q 1/36** (2006.01)

CPC (source: EP KR)

H01Q 1/362 (2013.01 - EP); **H01Q 11/08** (2013.01 - EP KR)

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WO 9844590 A1 19981008; AT E286308 T1 20050115; AT E365986 T1 20070715; AU 6941198 A 19981022; CA 2284673 A1 19981008; CN 1199320 C 20050427; CN 1263641 A 20000816; DE 69828389 D1 20050203; DE 69828389 T2 20051215; DE 69838008 D1 20070809; DE 69838008 T2 20080306; EP 0970540 A1 20000112; EP 0970540 B1 20041229; EP 1524722 A1 20050420; EP 1524722 B1 20070627; ES 2289429 T3 20080201; HK 1026306 A1 20001208; HK 1077404 A1 20080125; JP 2001518252 A 20011009; JP 2007306585 A 20071122; JP 4477145 B2 20100609; JP 4955461 B2 20120620; KR 20010005605 A 20010115; TW 428342 B 20010401

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