

Title (en)

Dual-polarized, multiple strip-loop antenna and associated methodology, for radio device

Title (de)

Dualpolarisierte multiple Band-Schleifenantenne und entsprechendes Verfahren für ein Funkgerät

Title (fr)

Antenne à bande-boucle multiple, à polarisation double, et méthodologie associée, pour dispositif radio

Publication

EP 1983606 A1 20081022 (EN)

Application

EP 07106265 A 20070416

Priority

EP 07106265 A 20070416

Abstract (en)

A dual-polarized antenna, and an associated methodology, is provided for a radio device, such as a mobile station. The antenna is formed of a plurality of loop strips disposed upon a substrate. The loop strips are configured into a pair of L-cornered loops, with the loops sharing a shared set of loop strips. A loop strip of the shared set provides a single feed connection, positioned to permit symmetrical excitation of the antenna.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 1/38** (2006.01); **H01Q 7/00** (2006.01); **H01Q 9/26** (2006.01)

CPC (source: EP KR)

H01Q 1/243 (2013.01 - EP KR); **H01Q 1/38** (2013.01 - EP KR); **H01Q 7/00** (2013.01 - EP KR); **H01Q 7/04** (2013.01 - KR); **H01Q 9/26** (2013.01 - EP KR)

Citation (applicant)

- EP 1679763 A2 20060712 - DX ANTENNA [JP]
- H. NAKANO ET AL.: "Mesh Antennas for Dual Polarization", May 2001, I.E.E.E. PUBLICATION, article "Transactions on Antennas and Propagation.", pages: 715 - 723

Citation (search report)

- [X] EP 1679763 A2 20060712 - DX ANTENNA [JP]
- [A] EP 1434300 A2 20040630 - HUBER+SUHNER AG [CH]
- [A] WO 2006011008 A1 20060202 - NOKIA CORP [FI], et al
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- [A] ROTHAMMEL K: "Antennenbuch, PASSAGE", ANTENNENBUCH, XX, XX, 1991, pages 70 - 71,423,452, XP002388127
- [A] NAKANO H ET AL: "Loop and spiral line antennas at microstrip substrate surface", SIXTH INTERNATIONAL CONFERENCE ON ANTENNAS AND PROPAGATION (ICAP 89), 4 April 1989 (1989-04-04) - 7 April 1989 (1989-04-07), Coventry, UK, pages 196 - 200, XP006517779

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Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 07106265 A 20070416; BR PI0803648 A 20080415; CA 2629178 A 20080415; CN 200810109282 A 20080414; EP 10194345 A 20070416; KR 20080034840 A 20080415; MX 2008004911 A 20080414; TW 97113691 A 20080415