

Title (en)
Antenna structure

Title (de)
Antennenstruktur

Title (fr)
Structure d'antenne

Publication
EP 2403062 A1 20120104 (EN)

Application
EP 10275068 A 20100630

Priority
EP 10275068 A 20100630

Abstract (en)
A wearable antenna assembly incorporates a coplanar waveguide feed in one of the arms of a two-arm spiral antenna. The antenna has relatively high impedance compared with the feed line from a suitable radio but the coplanar waveguide feed is simply modified to provide a quarter-wave transformer adjacent to the feed connection to the antenna and at least one further impedance transformation step on a tangential extension of the feed at the outer edge of the spiral antenna.

IPC 8 full level
H01Q 1/27 (2006.01); **H01Q 1/36** (2006.01); **H01Q 1/38** (2006.01); **H01Q 9/27** (2006.01)

CPC (source: EP)
H01Q 1/273 (2013.01); **H01Q 1/36** (2013.01); **H01Q 1/38** (2013.01); **H01Q 9/27** (2013.01)

Citation (applicant)
US 5815122 A 19980929 - NURNBERGER MICHAEL W [US], et al

Citation (search report)
• [XYI] US 2004056812 A1 20040325 - SABET KAZEM F [US], et al
• [A] DE 202007006339 U1 20070712 - SCHMIEG RAINER [DE]
• [Y] MULLER D J ET AL: "Design and Analysis of a 3-Arm Spiral Antenna", IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, IEEE SERVICE CENTER, PISCATAWAY, NJ, US LNKD- DOI:10.1109/TAP.2006.889798, vol. 55, no. 2, 1 February 2007 (2007-02-01), pages 258 - 266, XP011184027, ISSN: 0018-926X

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2403062 A1 20120104

DOCDB simple family (application)
EP 10275068 A 20100630