

Title (en)
HYBRID MONOPOLE SLOT ANTENNA

Title (de)
HYBRIDE MONOPOLSCHLITZANTENNE

Title (fr)
ANTENNE À FENTE MONOPÔLE HYBRIDE

Publication
EP 3512042 A1 20190717 (EN)

Application
EP 18305021 A 20180112

Priority
EP 18305021 A 20180112

Abstract (en)
A novel antenna topology is proposed. The novel antenna topology is realized for example in a printed circuit board comprising at least a first and a second layer, the first layer being essentially non-conductive, the second layer being essentially conductive. A microstrip line fed conductive surface is etched in the first layer, and a non-conductive surface is etched in the second layer, one of either the conductive surface or the non-conductive surface surrounding the other, resulting in an interval between the conductive surface and the non-conductive surface in the plane of the printed circuit board. The novel antenna called hybrid monopole slot antenna preserves some interesting properties of the known annular slot antenna while improving the operating frequency range compared to the annular slot antenna.

IPC 8 full level
H01Q 13/16 (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 1/48** (2006.01); **H01Q 9/40** (2006.01)

CPC (source: EP)
H01Q 1/24 (2013.01); **H01Q 1/38** (2013.01); **H01Q 1/48** (2013.01); **H01Q 9/40** (2013.01); **H01Q 13/16** (2013.01)

Citation (search report)
• [X] JP S51101447 A 19760907 - TOKYO SHIBAURA ELECTRIC CO, et al
• [A] JP 2002252520 A 20020906 - ASAHI GLASS CO LTD
• [A] PALAZZI VALENTINA ET AL: "Scavenging for Energy: A Rectenna Design for Wireless Energy Harvesting in UHF Mobile Telephony Bands", IEEE MICROWAVE MAGAZINE, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 18, no. 1, 12 December 2016 (2016-12-12), pages 91 - 99, XP011636501, ISSN: 1527-3342, [retrieved on 20161209], DOI: 10.1109/MMM.2016.2616189

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