

Title (en)

A MULTI-PORT SLOT ANTENNA WITH GROUND CONTINUITY

Title (de)

MEHRPORT-SCHLITZANTENNE MIT ERDUNGSKONTINUITÄT

Title (fr)

ANTENNE À FENTE MULTI-PORTS COMPORTANT UNE MISE À LA MASSE

Publication

EP 3576219 A1 20191204 (EN)

Application

EP 18305667 A 20180531

Priority

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Abstract (en)

When a multi-port slot antenna exhibits disjoint ground planes for the different ports due to the arrangements of the slots, a salient idea is to use high impedance lines loaded by discrete RF inductors for connecting the different grounds related to the different ports of the multi-port slot antenna. The inductor exhibits a very low impedance from a Direct Current (DC) point of view and very high impedance (several hundreds to few kilos of Ohms) at the operating Radio Frequency (RF). Hence, this will achieve a continuous DC ground without affecting the RF performance of the antenna.

IPC 8 full level

H01Q 1/22 (2006.01); **H01Q 13/10** (2006.01); **H01Q 21/28** (2006.01)

CPC (source: EP)

H01Q 1/2291 (2013.01); **H01Q 13/106** (2013.01); **H01Q 21/28** (2013.01)

Citation (search report)

- [XYI] US 4721962 A 19880126 - GORZEL HERIBERT [DE]
- [A] JP S51101447 A 19760907 - TOKYO SHIBAURA ELECTRIC CO, et al
- [A] JP H02168703 A 19900628 - TOSHIBA CORP
- [Y] JIANG XIAOLEI ET AL: "Planar dual-polarized UWB antenna with common aperture and high isolation", 2013 IEEE ANTENNAS AND PROPAGATION SOCIETY INTERNATIONAL SYMPOSIUM (APSURSI), IEEE, 7 July 2013 (2013-07-07), pages 21 - 22, XP032556459, ISSN: 1522-3965, ISBN: 978-1-4799-3538-3, [retrieved on 20140113], DOI: 10.1109/APS.2013.6710671

Designated contracting state (EPC)

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Designated extension state (EPC)

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