

Title (en)

Slot antenna with a combined bandpass/bandstop filter network

Title (de)

Schlitzantenne mit kombiniertem Bandpass-/Bandsperrfilternetzwerk

Title (fr)

Antenne à fente avec réseau de filtre coupe-bande/passe-bande combiné

Publication

EP 2819245 A1 20141231 (EN)

Application

EP 13174421 A 20130628

Priority

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Abstract (en)

A slot antenna with a filter network is provided. The slot antenna is connectable to an antenna feed, and configured to resonate at a first frequency when surface current from the antenna feed flows around the slot antenna, the slot antenna comprising a first side and a second side separated by a width. A filter network bridges the first side and the second side, across the width, at a given position from a surface-current-originating end of slot antenna, the filter network configured to: electrically isolate the first side from the second side at the first frequency so that a length of the slot antenna defines a resonant length of the slot antenna at the first frequency; and, electrically connect the first side to the second side at a second frequency higher than the first frequency, so that the surface current flows across the filter network at the given position.

IPC 8 full level

H01Q 13/10 (2006.01); **H01Q 5/00** (2006.01); **H01Q 9/40** (2006.01)

CPC (source: EP)

H01Q 5/321 (2015.01); **H01Q 5/328** (2015.01); **H01Q 9/40** (2013.01); **H01Q 13/103** (2013.01)

Citation (search report)

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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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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