

Title (en)
Bandstop filter for interfering signals

Title (de)
Bandstopfilter für Störsignale

Title (fr)
Filtre coupe-bande pour interférence de signaux

Publication
EP 2731192 A1 20140514 (EN)

Application
EP 12382438 A 20121108

Priority
EP 12382438 A 20121108

Abstract (en)
A bandstop filter comprising: a signal input (10, 20); a signal output (11, 21); connecting means (12, 22) for connecting said signal input (10, 20) and said signal output (11, 21); at least one resonator (13 1 , 23 1) connected to said connecting means (12, 22), said at least one resonator (13 1 , 23 1) having a resonant frequency with a corresponding wavelength, said at least one resonator (13 1 , 23 1) comprising a helical transmission line (17 1 , 27 1). The helical transmission line (17 1 , 27 1) of said at least one resonator (13 1 , 23 1) has an electrical length of n times one-quarter wavelength of the resonant frequency, n being an odd number different from 1.

IPC 8 full level
H01P 1/205 (2006.01)

CPC (source: EP)
H01P 1/2053 (2013.01)

Citation (applicant)
US 5932522 A 19990803 - BELL H CLARK [US], et al

Citation (search report)

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- [XYI] MING YU ET AL: "High performance helical resonator filters", MICROWAVE CONFERENCE, 2004. 34TH EUROPEAN AMSTERDAM, THE NETHERLANDS 13 OCT. 2004, PISCATAWAY, NJ, USA,IEEE, 14 October 2004 (2004-10-14), pages 989 - 992, XP031996385, ISBN: 978-1-58053-992-0

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