

Title (en)

Electrically tunable bandpass filters

Title (de)

Elektrisch abstimmbare Bandpassfilter

Title (fr)

Filtres passe-bande syntonisables par voie électronique

Publication

EP 2309586 A1 20110413 (EN)

Application

EP 10185327 A 20020927

Priority

- EP 09177702 A 20020927
- EP 02778409 A 20020927
- US 32570101 P 20010927
- US 41300902 P 20020923

Abstract (en)

There is described a tuneable bandpass filter with a passband. The filter comprises: at least one stripline resonator (600) having a reactance with a characteristic resonant frequency, the stripline resonator (600) comprises a central conductor (602), a dielectric substrate (606) and a pair of grounded outer conductors (604) formed on opposite sides of the dielectric substrate (606) and, wherein, the central conductor (602) is sandwiched between a pair of ferro-electric films (608) and each ferro-electric film (608) is mounted between the central conductor (602) and the dielectric substrate (606), each ferro-electric film (608) having a dielectric constant with a value that changes with an applied electric field so that the reactance of the resonator (600) and therefore the resonant frequency of the resonator (600) and the passband of the filter depend on the dielectric constant of the ferro-electric films (608).

IPC 8 full level

H01P 1/00 (2006.01); **H01P 1/203** (2006.01)

CPC (source: EP KR)

H01P 1/203 (2013.01 - EP KR); **H01P 1/20336** (2013.01 - EP)

Citation (applicant)

- US 325701 P
- ELECTRICALLY TUNABLE BANDPASS FILTERS, 9270120

Citation (search report)

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- [I] WO 9428592 A1 19941208 - DU PONT [US]
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WO 03028146 A1 20030403; AT E473528 T1 20100715; BR 0212843 A 20050628; CA 2461886 A1 20030403; CN 1592985 A 20050309; DE 60236947 D1 20100819; EP 1433219 A1 20040630; EP 1433219 B1 20100707; EP 2164129 A1 20100317; EP 2164129 B1 20130717; EP 2309586 A1 20110413; EP 2309586 B1 20140101; IL 161064 A0 20040831; JP 2006503445 A 20060126; JP 4071712 B2 20080402; KR 101036117 B1 20110523; KR 101250060 B1 20130403; KR 20040037175 A 20040504; KR 20090074274 A 20090706; MX PA04002907 A 20040705; NO 20041903 L 20040615; RU 2004112757 A 20050327

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