

Title (en)
METHOD AND APPARATUS FOR FILTERING SIGNALS IN A SUBSYSTEM INCLUDING A POWER AMPLIFIER UTILIZING A BANK OF VIBRATING MICROMECHANICAL APPARATUS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR FILTERUNG VON SIGNALEN IN EINEM UNTERSISTEM MIT EINEM LEISTUNGSVERSTÄRKER UNTER VERWENDUNG DER BANK EINES VIBRIERENDEN MIKROMECHANISCHEN GERÄT

Title (fr)
PROCEDE ET APPAREIL DE FILTRAGE DE SIGNAUX DANS UN SOUS-SYSTEME COMPRENANT UN AMPLIFICATEUR DE PUISSANCE COMPORTANT UN GROUPE D'APPAREILS MICROMECHANIQUES VIBRANTS

Publication
EP 1275201 A2 20030115 (EN)

Application
EP 01929082 A 20010420

Priority

- US 0140566 W 20010420
- US 19906300 P 20000420

Abstract (en)
[origin: WO0182479A2] Several MEMS-based methods and architectures which utilize vibrating micromechanical resonators in circuits to implement filtering, mixing, frequency reference and amplifying functions are provided. Apparatus is provided for selecting at least one desired passband or channel in an RF transmitter subsystem utilizing a bank of vibrating micromechanical devices. One of the primary benefits of the use of such architectures is a savings in power consumption by trading power for high selectivity (i.e, high Q). Consequently, the present invention relies on the use of a large number of micromechanical links in SSI networks to implement signal processing functions with basically zero DC power consumption.

IPC 1-7
H03H 1/00

IPC 8 full level
B81B 3/00 (2006.01); **H03B 5/30** (2006.01); **H03H 5/12** (2006.01); **H03H 7/12** (2006.01); **H03H 9/00** (2006.01); **H03H 9/02** (2006.01); **H03H 9/24** (2006.01); **H03H 9/46** (2006.01); **H03H 9/50** (2006.01); **H03H 11/04** (2006.01); **H04B 1/04** (2006.01); **H04B 1/18** (2006.01); **H04B 1/40** (2006.01); **H01H 59/00** (2006.01)

CPC (source: EP)
H03H 9/02409 (2013.01); **H03H 9/462** (2013.01); **H03H 9/465** (2013.01); **H03H 9/467** (2013.01); **H03H 9/505** (2013.01); **H01H 59/0009** (2013.01); **H03H 2009/02511** (2013.01); **H03H 2009/02519** (2013.01); **H03H 2009/02527** (2013.01)

Citation (search report)
See references of WO 0182479A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0182479 A2 20011101; **WO 0182479 A3 20020411**; AU 5586501 A 20011107; AU 5586601 A 20011107; AU 5586701 A 20011107; AU 5586801 A 20011107; AU 5761201 A 20011107; AU 6103601 A 20011107; CA 2406176 A1 20011101; CA 2406223 A1 20011101; CA 2406518 A1 20011101; CA 2406543 A1 20011101; EP 1275201 A2 20030115; EP 1277277 A2 20030122; EP 1285491 A2 20030226; EP 1290788 A2 20030312; JP 2003532320 A 20031028; JP 2003532322 A 20031028; JP 2003532323 A 20031028; JP 2004515089 A 20040520; WO 0182467 A2 20011101; WO 0182467 A3 20020411; WO 0182475 A2 20011101; WO 0182475 A3 20020221; WO 0182476 A2 20011101; WO 0182476 A3 20020815; WO 0182477 A2 20011101; WO 0182477 A3 20020411; WO 0182478 A2 20011101; WO 0182478 A3 20020411

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US 0140566 W 20010420; AU 5586501 A 20010420; AU 5586601 A 20010420; AU 5586701 A 20010420; AU 5586801 A 20010420; AU 5761201 A 20010420; AU 6103601 A 20010420; CA 2406176 A 20010420; CA 2406223 A 20010420; CA 2406518 A 20010420; CA 2406543 A 20010420; EP 01929079 A 20010420; EP 01929080 A 20010420; EP 01929082 A 20010420; EP 01931148 A 20010420; JP 2001579439 A 20010420; JP 2001579448 A 20010420; JP 2001579450 A 20010420; JP 2001579451 A 20010420; US 0112806 W 20010420; US 0140562 W 20010420; US 0140563 W 20010420; US 0140564 W 20010420; US 0140565 W 20010420