Title (en)

PILOT-TONE CALIBRATION FOR TIME-INTERLEAVED ANALOG-TO-DIGITAL CONVERTERS

Title (de)

PILOTTON-KALIBRATION FÜR ZEITLICH VERSCHACHTELTE ANALOG/DIGITAL-UMSETZER

Title (fr)

CALIBRAGE DE LA TONALITE PILOTE POUR DES CONVERTISSEURS ANALOGIQUE-EN-NUMERIQUE A ENTRELACEMENT TEMPOREL

Publication

EP 1794888 A1 20070613 (EN)

Application

EP 05799763 A 20050921

Priority

- US 2005034022 W 20050921
- US 61210904 P 20040921
- US 12043905 A 20050502

Abstract (en)

[origin: WO2006034415A1] A self-calibrating analog-to-digital converter (ADC). The ADC includes multiple component ADCs to generate respective digital representations of an input signal in response to respective timing signals that are offset in phase from one another, each component ADC having a gain setting that controls a magnitude of the digital representations. The ADC further includes correction circuitry to generate a plurality of fast-Fourier transforms (FFTs) that correspond to the digital representations of the input signal and to adjust the gain settings of the component ADCs and/or phase angles of the timing signals based on gain and phase errors indicated by the FFTs.

IPC 8 full level

H03M 1/10 (2006.01)

CPC (source: EP)

H03M 1/1028 (2013.01); H03M 1/1215 (2013.01)

Citation (search report)

See references of WO 2006034415A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006034415 A1 20060330; EP 1794888 A1 20070613

DOCDB simple family (application)

US 2005034022 W 20050921; EP 05799763 A 20050921