

Title (en)

QUADRATURE RECEIVER, COMMUNICATION SYSTEM, SIGNAL PROCESSOR, METHOD OF CALCULATING DIRECT CURRENT OFFSET, AND METHOD OF OPERATING A QUADRATURE RECEIVER

Title (de)

QUADRATUREMPFÄNGER, KOMMUNIKATIONSSYSTEM, SIGNALPROZESSOR, VERFAHREN ZUM BERECHNEN DES GLEICHSTROM-OFFSETS, UND VERFAHREN ZUM BETRIEB EINES QUADRATUREMPFÄNGERS

Title (fr)

RECEPTEUR EN QUADRATURE, SYSTEME DE COMMUNICATION, PROCESSEUR DE SIGNAUX, CALCUL DU DECALAGE DE COURANT CONTINU, ET MODE DE FONCTIONNEMENT DUDIT RECEPTEUR

Publication

**EP 1062781 A1 20001227 (EN)**

Application

**EP 99968953 A 19991222**

Priority

- US 9930803 W 19991222
- US 21923598 A 19981222

Abstract (en)

[origin: WO0038385A1] A quadrature receiver (10) including a downconverter (22) configured to convert a wireless communication signal into a baseband signal; and an I/Q offset processor (40) coupled with the downconverter (22) and configured to sample the baseband signal to provide plural sampled vectors, to generate a difference vector from the sampled vectors, to generate a scaled vector from the difference vector, and to sum the difference vector, the scaled vector and one of the sampled vectors to provide a direct current offset signal. A method of calculating direct current offset including receiving a wireless communication signal; downconverting the wireless communication signal following the receiving; sampling the wireless communication signal providing plural sampled vectors; calculating a difference vector from the sampled vectors; calculating a scaled vector from the difference vector; and summing the difference vector, the scaled vector and one of the sampled vectors to provide a direct current offset signal.

IPC 1-7

**H04L 25/06**; **H04L 27/152**

IPC 8 full level

**H04L 27/14** (2006.01); **H03D 3/00** (2006.01); **H04B 1/16** (2006.01); **H04B 1/30** (2006.01); **H04L 25/06** (2006.01); **H04L 27/22** (2006.01)

CPC (source: EP)

**H03D 3/008** (2013.01); **H04L 25/063** (2013.01)

Citation (search report)

See references of WO 0038385A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**WO 0038385 A1 20000629**; EP 1062781 A1 20001227; JP 2002533999 A 20021008

DOCDB simple family (application)

**US 9930803 W 19991222**; EP 99968953 A 19991222; JP 2000590352 A 19991222