

Title (en)

A METHOD, AN APPARATUS OR A COMPUTER PROGRAM FOR ESTIMATING A SIGNAL TO NOISE RATIO

Title (de)

VERFAHREN, VORRICHTUNG ODER COMPUTERPROGRAMM ZUR BEWERTUNG EINES SIGNAL-ZU-RAUSCH-VERHÄLTNISSES

Title (fr)

PROCEDE, APPAREIL OU PROGRAMME INFORMATIQUE POUR ESTIMER UN RAPPORT SIGNAL/BRUIT

Publication

EP 1941625 A2 20080709 (EN)

Application

EP 06848629 A 20061027

Priority

- IB 2006003961 W 20061027
- GB 0521983 A 20051028

Abstract (en)

[origin: GB2431825A] The signal to interference ratio (SIR) in a mobile communications system is calculated for a signal in a wireless channel by equalising the signal using a channel estimate taken at a time preceding the time at which the signal is received. The equalised signal is used to estimate signal power and is combined with an estimated interference power. The interference power may be estimated from a signal received at a time before the signal used in estimating signal power is received. The method reduces the time delay associated with the equaliser by using a mismatched signal in equalising. This is however reliable when the channel conditions vary slowly. The invention is useful for example in a fast WCDMA power control loop.

IPC 8 full level

H04B 1/707 (2006.01); **H04B 17/00** (2006.01); **H04B 7/005** (2006.01)

CPC (source: EP GB)

H04B 17/20 (2015.01 - GB); **H04B 17/336** (2015.01 - EP); **H04W 52/08** (2013.01 - EP)

Citation (search report)

See references of WO 2007069077A2

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

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

GB 0521983 D0 20051207; **GB 2431825 A 20070502**; CN 101297496 A 20081029; EP 1941625 A2 20080709; WO 2007069077 A2 20070621; WO 2007069077 A3 20080103; WO 2007069077 B1 20080228

DOCDB simple family (application)

GB 0521983 A 20051028; CN 200680039989 A 20061027; EP 06848629 A 20061027; IB 2006003961 W 20061027