

Title (en)

UNSUPERVISED ADAPTIVE CHIP SEPARATION FILTER FOR CDMA TERMINAL

Title (de)

NICHTÜBERWACHTER, ANPASSBARER CHIPTRENNFILTER FÜR CDMA ENDSTATION

Title (fr)

FILTRE DE SEPARATION ADAPTATIVE ET NON DIRIGEE D'ELEMENTS DESTINE A UN TERMINAL AMRC

Publication

EP 1157474 A1 20011128 (EN)

Application

EP 00912679 A 20000310

Priority

- FI 0000192 W 20000310
- US 12360399 P 19990310
- US 51803100 A 20000303
- US 52143900 A 20000307

Abstract (en)

[origin: WO0054418A1] A receiver for use in a CDMA telecommunications system is disclosed. The receiver includes at least one antenna for receiving signals from a CDMA channel, where the received signals include a desired user signal. The receiver also includes combining circuitry, for performing chip waveform filtering and maximal ratio combining, to produce mutually correlated chip estimates of the received signals. The receiver further includes an adaptive separator, for adaptively separating the mutually correlated chip estimates, and a correlator, for despreading the output of the adaptive separator to obtain an estimate for data symbols of the desired user signal. In addition, the receiver further includes estimating circuitry, coupled to the combining circuitry, for estimating a response of the channel, where the combining circuitry utilizes the channel response estimate as a reference.

IPC 1-7

H04B 1/06

IPC 8 full level

H04B 1/707 (2011.01); **H04B 7/08** (2006.01); **H04L 25/03** (2006.01)

CPC (source: EP)

H04B 1/7097 (2013.01); **H04B 7/0857** (2013.01); **H04B 1/7093** (2013.01); **H04B 1/7103** (2013.01); **H04B 1/7115** (2013.01); **H04L 2025/03401** (2013.01); **H04L 2025/03477** (2013.01); **H04L 2025/03617** (2013.01)

Citation (search report)

See references of WO 0054418A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 0054418 A1 20000914; AU 3434200 A 20000928; CN 1348632 A 20020508; EP 1157474 A1 20011128; JP 2002539666 A 20021119

DOCDB simple family (application)

FI 0000192 W 20000310; AU 3434200 A 20000310; CN 00804820 A 20000310; EP 00912679 A 20000310; JP 2000604534 A 20000310