

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

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Application

**EP 00912679 A 20000310**

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- 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

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IPC 8 full level

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