

Title (en)

NARROW-BAND INTERFERENCE REJECTING SPREAD SPECTRUM RADIO SYSTEM AND METHOD

Title (de)

VERFAHREN UND SYSTEM ZUR UNTERDRÜCKUNG VON SCHMALBANDINTERFERENZ IN EINEM SPREIZSPEKTRUM SYSTEM

Title (fr)

SYSTEME RADIO A ETALEMENT DU SPECTRE A REJET DES BRUITS BANDE ETROITE ET METHODE AFFERENTE

Publication

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Application

EP 99938699 A 19990714

Priority

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Abstract (en)

[origin: WO0004657A1] A spread spectrum receiver and method having narrow-band interference rejection of narrow-band jamming signals using digital signal processing frequency domain techniques. The method performed in the receiver includes transforming the received signal to a frequency domain signal and identifying narrow-band interference components in the frequency domain signal; suppressing the identified narrow-band interference components by excising the identified narrow-band interference components from the frequency domain signal to produce an interference excised signal in the frequency domain, and storing in a memory frequencies corresponding to the identified narrow-band interference components; synchronizing a receiver code to a transmitter code in the frequency domain using the interference excised signal; generating coefficients for a time domain filter that includes notches at the frequencies corresponding to the excised narrow-band interference components and that jointly despreads and rejects narrow-band interference from the excised frequencies; applying the coefficients generated in the preceding step to the time domain filter; and despreads and filtering in real time in the time domain the received signal using the applied coefficients.

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CPC (source: EP)

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- No further relevant documents disclosed
- See references of WO 0004657A1

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