

Title (en)

JOINT DEMODULATION FILTER FOR CO-CHANNEL INTERFERENCE REDUCTION AND RELATED METHODS

Title (de)

VERBUND-DEMODULATIONSFILTER ZUR COKANAL-STÖRUNGSREDUKTION UND DIESBEZÜGLICHE VERFAHREN

Title (fr)

FILTRE DE DEMODULATION COMMUN POUR LA REDUCTION DE BROUILLAGE DANS LE MEME CANAL, ET PROCEDES CONNEXES

Publication

EP 1925092 A1 20080528 (EN)

Application

EP 06790562 A 20060823

Priority

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- CA 2516910 A 20050823

Abstract (en)

[origin: WO2007022626A1] A wireless communications device may include a housing and a wireless transmitter and a wireless receiver carried by the housing. The wireless receiver may include a joint demodulation filter for reducing co-channel interference between a desired signal and a co-channel interfering signal which may include an input receiving samples of the desired signal and the co-channel interfering signal, a Viterbi decoder, and a first signal path between the input and the Viterbi decoder comprising a first filter. The joint demodulation filter may further include a second signal path between the input and the Viterbi decoder and comprising a linear finite impulse response (FIR) modeler for generating a channel impulse response estimate for the co-channel interfering signal. Additionally, a third signal path may be between the input and the Viterbi decoder and include a whitened matched filter for generating a channel impulse response estimate for the desired signal.

IPC 8 full level

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CPC (source: EP KR)

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Designated extension state (EPC)

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