

Title (en)  
WIRELESS COMMUNICATIONS DEVICE INCLUDING A JOINT DEMODULATION FILTER FOR CO-CHANNEL INTERFERENCE REDUCTION AND RELATED METHODS

Title (de)  
DRAHTLOSES KOMMUNIKATIONSGERÄT MIT EINEM VERBUND-DEMODULATIONSFILTER ZUR COKANAL-STÖRUNGSREDUKTION UND DIESBEZÜGLICHE VERFAHREN

Title (fr)  
DISPOSITIF DE COMMUNICATIONS HERTZIENNES A FILTRE DE DEMODULATION COMMUN POUR LA REDUCTION DE BROUILLAGE DANS LE MEME CANAL, ET PROCEDES CONNEXES

Publication  
**EP 1925091 A1 20080528 (EN)**

Application  
**EP 06790561 A 20060823**

Priority  
• CA 2006001378 W 20060823  
• 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  
**H04B 1/10** (2006.01); **H03M 13/41** (2006.01); **H04B 1/16** (2006.01); **H04L 25/02** (2006.01)

CPC (source: EP KR)  
**H03D 1/00** (2013.01 - KR); **H03M 13/41** (2013.01 - KR); **H04B 1/109** (2013.01 - EP); **H04B 1/16** (2013.01 - KR); **H04L 1/0047** (2013.01 - EP); **H04L 1/0054** (2013.01 - EP); **H04L 1/20** (2013.01 - EP); **H04L 25/0204** (2013.01 - EP); **H04L 25/0212** (2013.01 - EP); **H04L 25/03292** (2013.01 - EP); **H04L 25/03305** (2013.01 - EP); **H04W 88/02** (2013.01 - KR)

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