

Title (en)

JOINT SPACE-TIME OPTIMUM FILTER (JSTOF) USING CHOLESKY AND EIGENVALUE DECOMPOSITIONS

Title (de)

VERBUND-RAUM-ZEIT-OPTIMALFILTER (JSTOF) MIT CHOLESKY- UND EIGENWERTZERLEGUNGEN

Title (fr)

FILTRE OPTIMAL ESPACE-TEMPS COMBINE (JSTOF) UTILISANT UNE DECOMPOSITION DE CHOLESKY ET UNE DECOMPOSITION EN VALEURS PROPRES

Publication

EP 1922815 A1 20080521 (EN)

Application

EP 06775103 A 20060814

Priority

- CA 2006001328 W 20060814
- CA 2515867 A 20050815

Abstract (en)

[origin: WO2007019683A1] A filter for reducing co-channel interference within a communications receiver may include a multi-channel, space-time filter circuit that filters n signal parts that have been split from a communications signal by jointly estimating space-time filter weights and multi-channel impulse responses (CIRs) based upon Cholesky and eigenvalue decompositions. The filter may further include a multi-channel, matched filter circuit that receives multi-channel signals from the multi-channel, space-time filter circuit and has a filter response that is provided by a channel impulse response estimation from the space-time filter circuit.

IPC 8 full level

H04B 1/10 (2006.01); **H04L 1/06** (2006.01); **H04L 25/02** (2006.01); **H04B 7/02** (2018.01)

CPC (source: EP KR)

H04B 1/16 (2013.01 - KR); **H04B 7/02** (2013.01 - KR); **H04L 1/0631** (2013.01 - EP); **H04L 25/0244** (2013.01 - EP); **H04L 25/0246** (2013.01 - EP); **H04L 25/0248** (2013.01 - EP); **H04L 25/03178** (2013.01 - EP)

Cited by

US8861651B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

CA 2515867 A1 20070215; BR PI0614859 A2 20110419; CN 101283511 A 20081008; CN 101283511 B 20120328; EP 1922815 A1 20080521; EP 1922815 A4 20081001; JP 2009505530 A 20090205; KR 20080036219 A 20080425; WO 2007019683 A1 20070222

DOCDB simple family (application)

CA 2515867 A 20050815; BR PI0614859 A 20060814; CA 2006001328 W 20060814; CN 200680037623 A 20060814; EP 06775103 A 20060814; JP 2008526341 A 20060814; KR 20087006282 A 20080314