



Espacenet

Bibliographic data: WO 2011106819 (A1)

A METHOD FOR CHANNEL EQUALIZATION USING A BASIS EXPANSION MODEL

Publication date: 2011-09-09

Inventor(s): HRYCAK TOMASZ [AT]; DAS SAPTARSHI [AT]; FEICHTINGER HANS GEORG [AT]; MATZ GERALD [AT] +

Applicant(s): UNIV WIEN [AT]; UNIV WIEN TECH [AT]; HRYCAK TOMASZ [AT]; DAS SAPTARSHI [AT]; FEICHTINGER HANS GEORG [AT]; MATZ GERALD [AT] +

Classification:
 - **international:** **H04L25/03; H04L27/26**
 - **European:** H04L25/03B1N; H04L27/26M5

Application number: WO2011AT00110 20110304

Priority number(s): EP20100450034 20100304

Also published as:

- EP 2363986 (A1)

Abstract of WO 2011106819 (A1)

A method of equalizing a signal received over a transmission channel defined by BEM coefficients of a basis expansion model of its channel taps, comprising the step of approximately solving the relation (1) for $x[n]$ by an iterative method, n being the index of time, $y[n]$ being the received signal, $x[n]$ being the equalized signal, $B_m[n]$ being the m th basis function of the basis expansion model, M being the model order of the basis expansion model, and b_{lm} being the BEM coefficient of the m th basis function of the l th channel tap, and $w[n]$ being optional noise.

Last updated: 26.04.2011 Worldwide Database 5.7.23.1; 93p