Title (en)

Method for processing an audio signal with modelling of the overall response of the electro-dynamic loudspeaker

Title (de)

Verfahren zur Audiosignalverarbeitung mit Modellierung der globalen Antwort des elektrodynamischen Lautsprechers

Title (fr)

Procédé de traitement d'un signal audio avec modélisation de la réponse globale du haut-parleur électrodynamique

Publication

EP 2717599 B1 20150916 (FR)

Application

EP 13174690 A 20130702

Priority

FR 1258116 A 20120830

Abstract (en)

[origin: EP2717599A1] The method involves determining a state vector by application of voltage and current measurements to a predictive filter estimator incorporating a representation of a dynamic model of an electrodynamic loudspeaker, where a predictive filter is an extended Kalman filter (16). The filter is adapted to operate a prediction of the vector and readjust the prediction by calculation of an estimate of a voltage (Uestn) based on the state vector, current measurement and comparison of the estimate to the voltage measurement. A processing function of the vector is applied to an audio signal.

IPC 8 full level

H04R 29/00 (2006.01); H04R 9/02 (2006.01); H04R 3/04 (2006.01)

CPC (source: EP US)

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DOCDB simple family (publication)

EP 2717599 A1 20140409; **EP 2717599 B1 20150916**; CN 103686530 A 20140326; FR 2995167 A1 20140307; FR 2995167 B1 20141114; JP 2014050106 A 20140317; US 2014064502 A1 20140306; US 9232311 B2 20160105

DOCDB simple family (application)

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