

Title (en)

CONVERSION BETWEEN SUBBAND FIELD REPRESENTATIONS FOR TIME-DEPENDENT FILTER BANKS

Title (de)

UMWANDLUNG ZWISCHEN SUBBANDFELDDARSTELLUNGEN FÜR ZEITABHÄNGIGE FILTERBANKEN

Title (fr)

CONVERSION ENTRE REPRESENTATIONS EN DOMAINES DE SOUS-BANDES POUR DES BANCS DE FILTRES VARIANT DANS LE TEMPS

Publication

**EP 2022046 A1 20090211 (FR)**

Application

**EP 07766042 A 20070514**

Priority

- FR 2007051266 W 20070514
- FR 0604507 A 20060519

Abstract (en)

[origin: WO2007135319A1] Conversion between sub-band field representations for time-dependent filter banks. The invention relates to a transcoding processing operation between different sub-band fields, aiming to compact the application of a first vector representing the signal in a first sub-band field to a synthesis filter bank, and then to an analysis filter bank, in order to obtain a second vector representing the signal in a second sub-band field. In particular, the synthesis bank and /or the analysis bank are time-dependent. Within the scope of the invention, matrix filtering of the first vector is anticipated in order to directly obtain the second vector, this matrix filtering being represented by a global conversion matrix comprising pre-calculated sub-blocks of matrices ( $A_{i0}$ ,  $A_{ip2-1}$ ) taking into consideration possible time-dependent variations in the filter banks, then stored into memory. The global conversion matrix is then constructed by calls to the memory in order to obtain the sub-blocks at pre-calculated successive instants.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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