

Title (en)

METHOD FOR ENLARGING THE BANDWIDTH OF A NARROW-BAND FILTERED SPEECH SIGNAL

Title (de)

VERFAHREN ZUR ERWEITERUNG DER BANDBREITE EINES SCHMALBANDIG GEFILTERTEN SPRACHSIGNALS

Title (fr)

PROCEDE POUR ELARGIR LA BANDE PASSANTE D'UN SIGNAL VOCAL FILTRE SUR UNE BANDE ETROITE

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Application

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Abstract (en)

[origin: WO2004044894A1] The narrow-band filtered speech signal is evaluated in relation to the frequency components above a threshold frequency such that a spectral structure is calculated from the narrow-band speech signal time sections, each narrow band voice signal time section is classified as a voiced and/or unvoiced sound, first supplements exhibiting a spectral structure are produced in order to enlarge the narrow-band voice signal in relation to the above sound-type classification thus performed, second additions exhibiting a spectral structure are combined in order to enlarge the narrow-band voice signal based on generally known methods in order to evaluate the statistic properties of the narrow-band voice signal, the two additions and the narrow band spectral structure are combined in such a way that an enlarged spectral structure respectively occurs and a broadband expanded voice signal time section is produced on the basis thereof before a broadband enlarged voice signal is produced from the individual broadband enlarged voice signal time sections.

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