

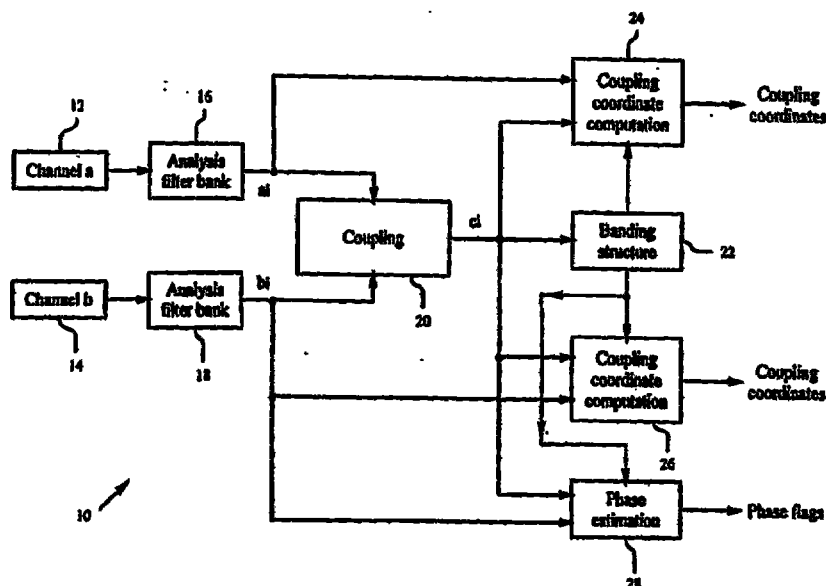
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(54) Title: METHOD AND APPARATUS FOR PHASE ESTIMATION IN A TRANSFORM CODER FOR HIGH QUALITY AUDIO



(57) Abstract

A method and apparatus for phase estimation in a dual channel audio encoder, based on a psychoacoustic model of the human auditory system, is disclosed. The method and apparatus are applicable to audio encoders which utilise a coupling channel to combine certain frequency components of the input audio signals. The method ensures at least square error between the original channel frequency coefficients at the encoder and the estimated coefficients at the decoder by determining the sign of the dot product of the coefficients for one of the channels and the coupling coefficients. No restriction is placed on the strategy utilised for generating the coupling channel coefficients or the coupling coordinates.