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(54) Title: METHOD AND APPARATUS FOR GENERATING A BINAURAL AUDIO SIGNAL

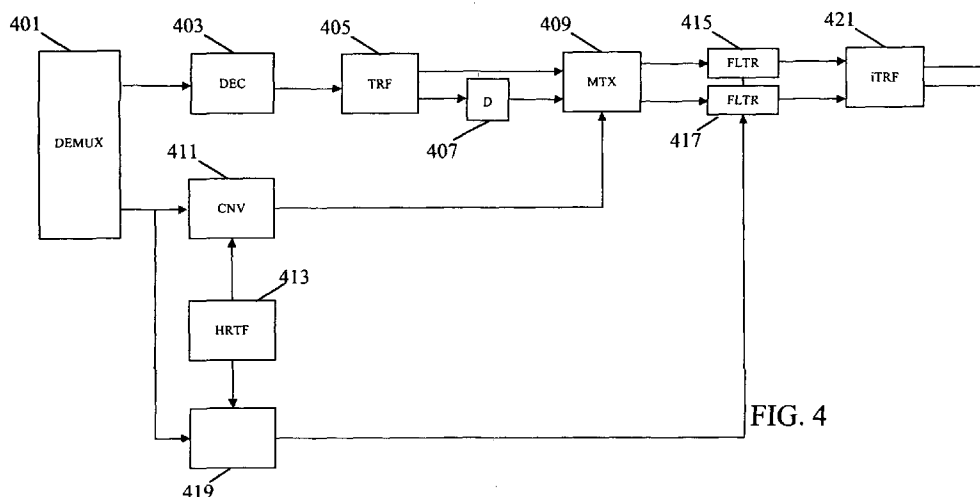


FIG. 4

(57) Abstract: An apparatus for generating a binaural audio signal comprises a demultiplexer (401) and decoder (403) which receives audio data comprising an audio M-channel audio signal which is a downmix of an N-channel audio signal and spatial parameter data for upmixing the M-channel audio signal to the N-channel audio signal. A conversion processor (411) converts spatial parameters of the spatial parameter data into first binaural parameters in response to at least one binaural perceptual transfer function. A matrix processor (409) converts the M-channel audio signal into a first stereo signal in response to the first binaural parameters. A stereo filter (415, 417) generates the binaural audio signal by filtering the first stereo signal. The filter coefficients for the stereo filter are determined in response to the at least one binaural perceptual transfer function by a coefficient processor (419). The combination of parameter conversion/ processing and filtering allows a high quality binaural signal to be generated with low complexity.