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(54) **Title:** MULTI-CHANNEL AUDIO DECODER, MULTI-CHANNEL AUDIO ENCODER, METHODS AND COMPUTER PROGRAM USING A RESIDUAL-SIGNAL-BASED ADJUSTMENT OF A CONTRIBUTION OF A DECORRELATED SIGNAL

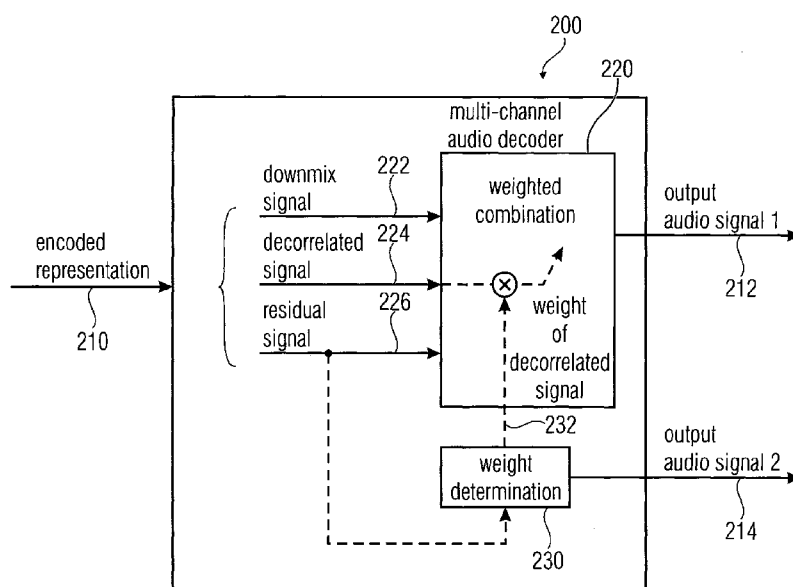


FIG 2

(57) **Abstract:** A multi-channel audio decoder for providing at least two output audio signals on the basis of an encoded representation is configured to perform a weighted combination of a downmix signal, a decorrelated signal and a residual signal, to obtain one of the output audio signals. The multi-channel audio decoder is configured to determine a weight describing a contribution of the decorrelated signal in the weighted combination in dependence on the residual signal. A multi-channel audio encoder for providing an encoded representation of a multi-channel audio signal is configured to obtain a downmix signal on the basis of the multi-channel audio signal, to provide parameters describing dependencies between the channels of the multi-channel audio signal, and to provide a residual signal. The multi-channel audio encoder is configured to vary an amount of residual signal included into the encoded representation in dependence on the multi-channel audio signal.