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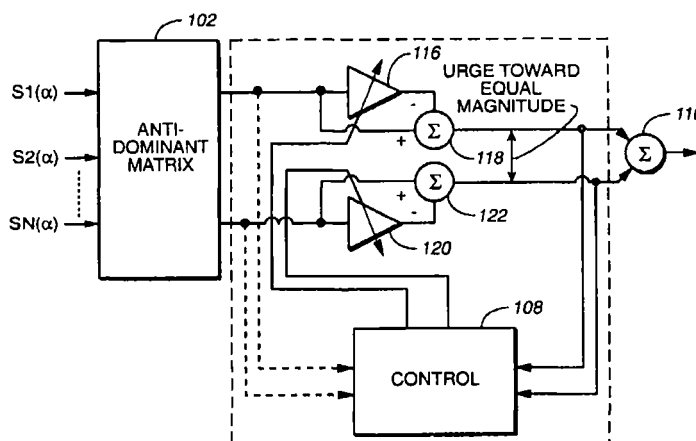
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(54) Title: METHOD AND APPARATUS FOR DERIVING AT LEAST ONE AUDIO SIGNAL FROM TWO OR MORE INPUT AUDIO SIGNALS



(57) Abstract: A multidirectional audio decoder using an "adaptive" audio matrix derives at least one of a plurality of output audio signals from two or more directionally-encoded audio input signal streams $S1(\alpha)$, $S2(\alpha)$, ..., $SN(\alpha)$, wherein α is the encoded angle of a source audio signal. Each output signal is associated with a principal direction β . In order to generate each output signal, a pair of intermediate signals ("antidominant" signals) are generated, constituting the antidominant signal for each of the two adjacent principal output directions of the decoder. The antidominant signal for any arbitrary principal (or "dominant") direction is the combination of input signals having coefficients such that the combination goes to zero for that dominant direction. Amplitude control is applied to the two antidominant signals to deliver a pair of signals having substantially equal magnitudes that are additively or subtractively combined to provide the output audio signal associated with a principal direction.

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ACTION

— Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

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