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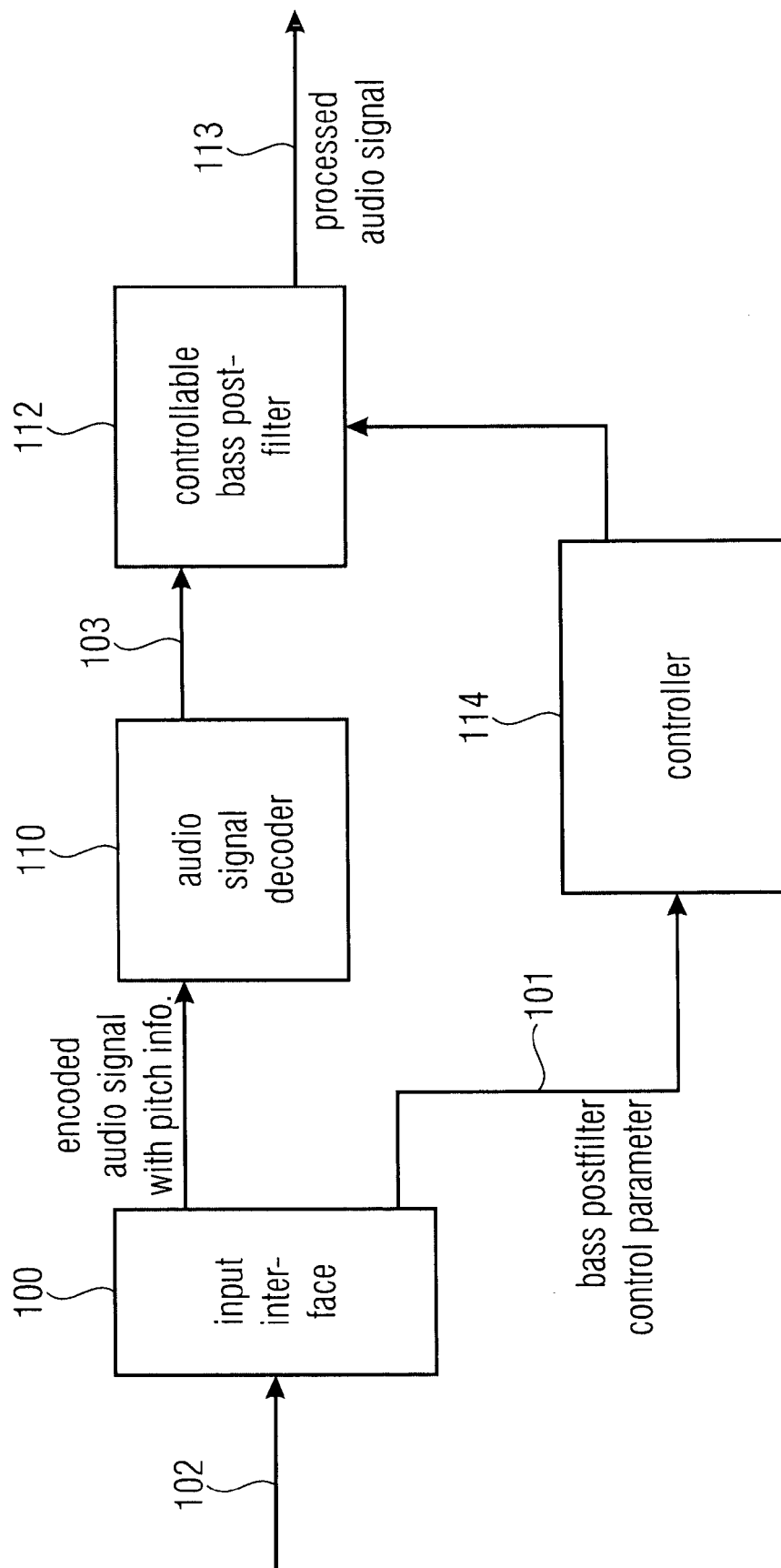


FIG 1

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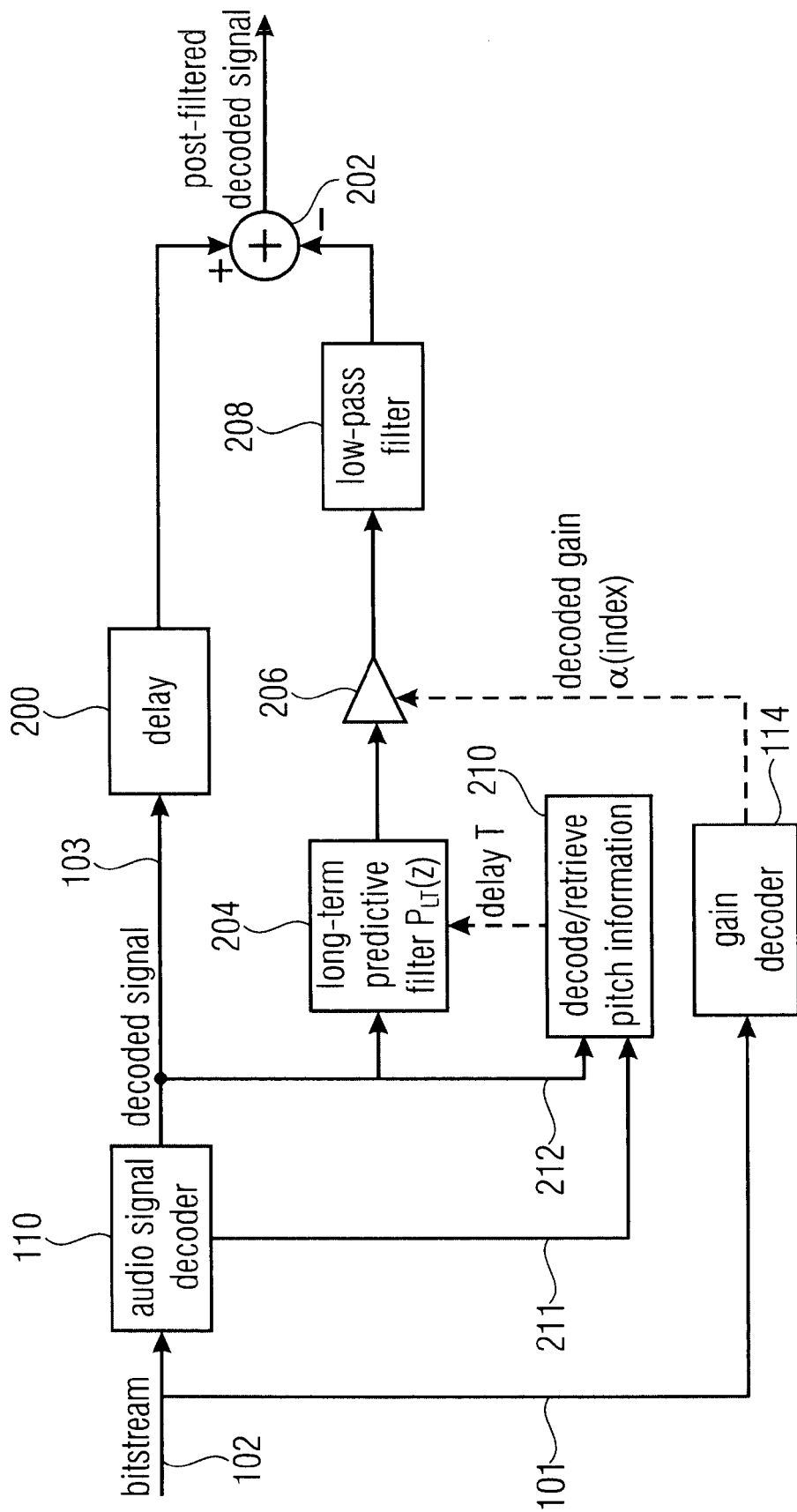


FIG 2

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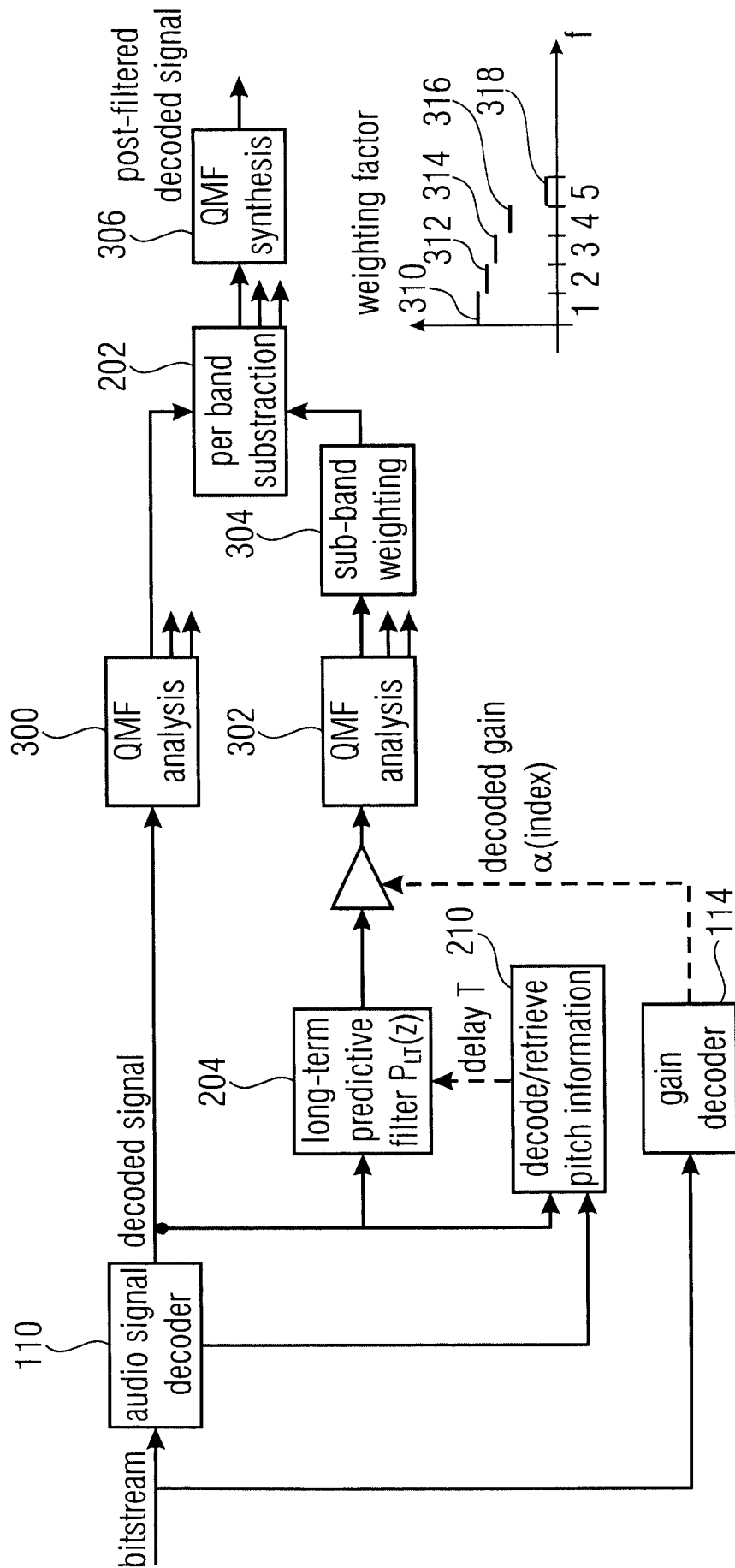
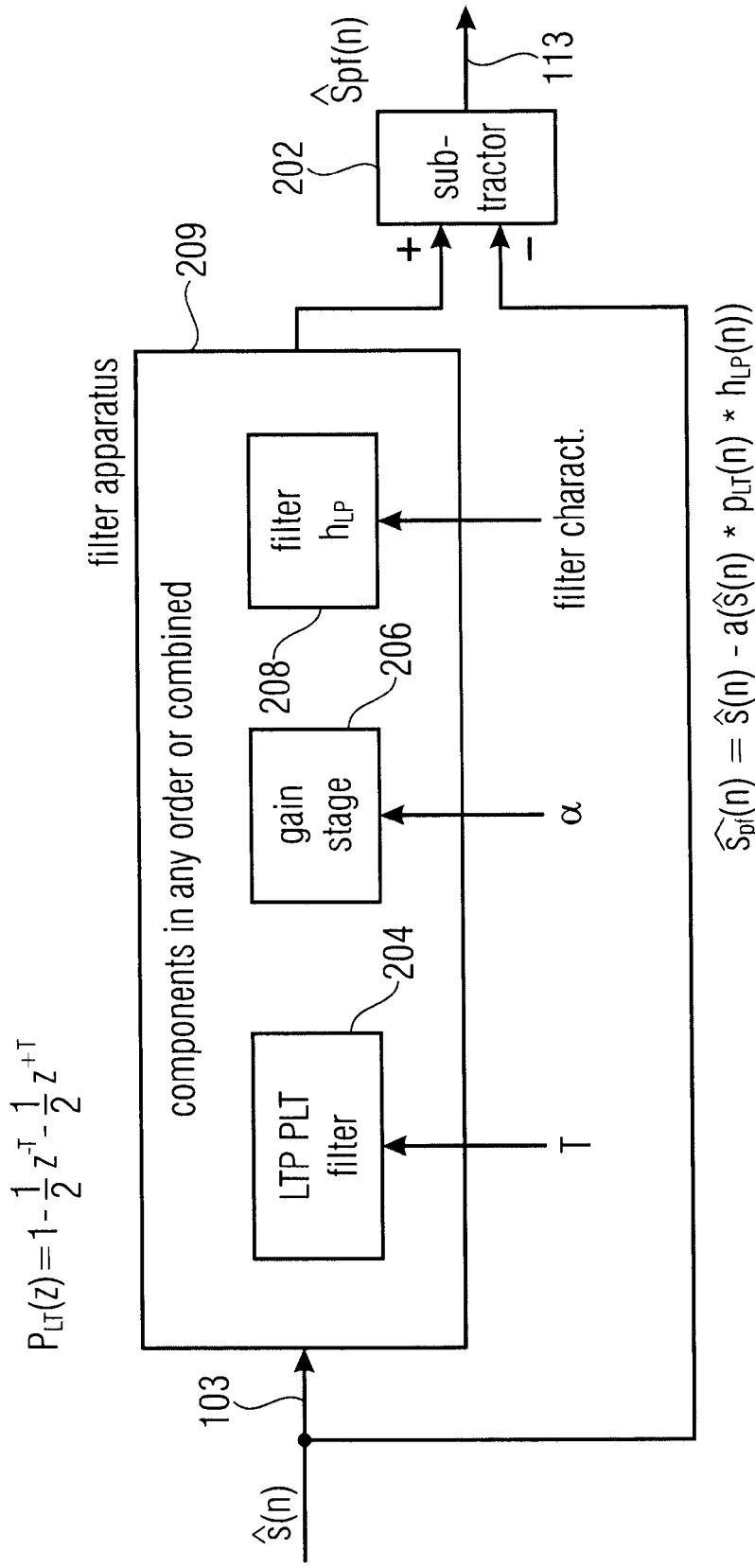


FIG 3



T , α , filter char. are influenced by the post-filter control parameter

FIG 4

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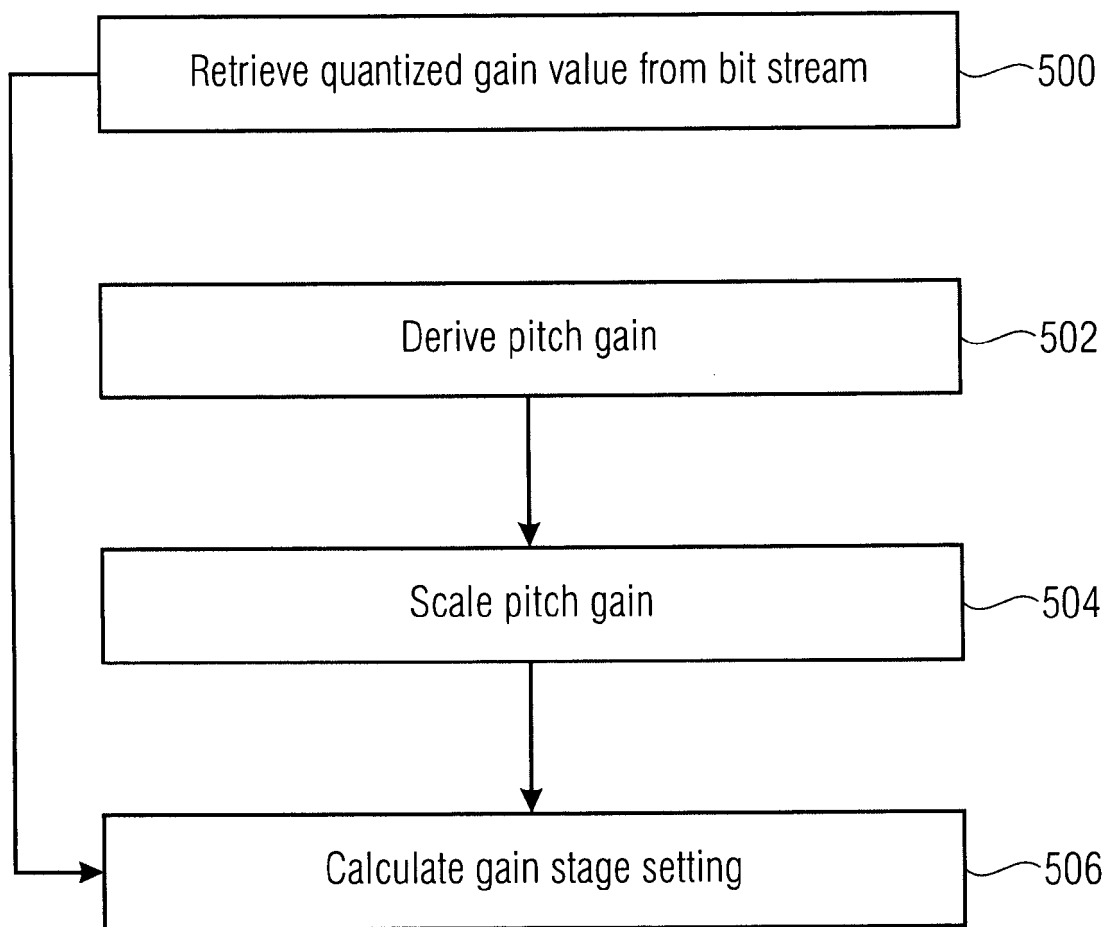


FIG 5

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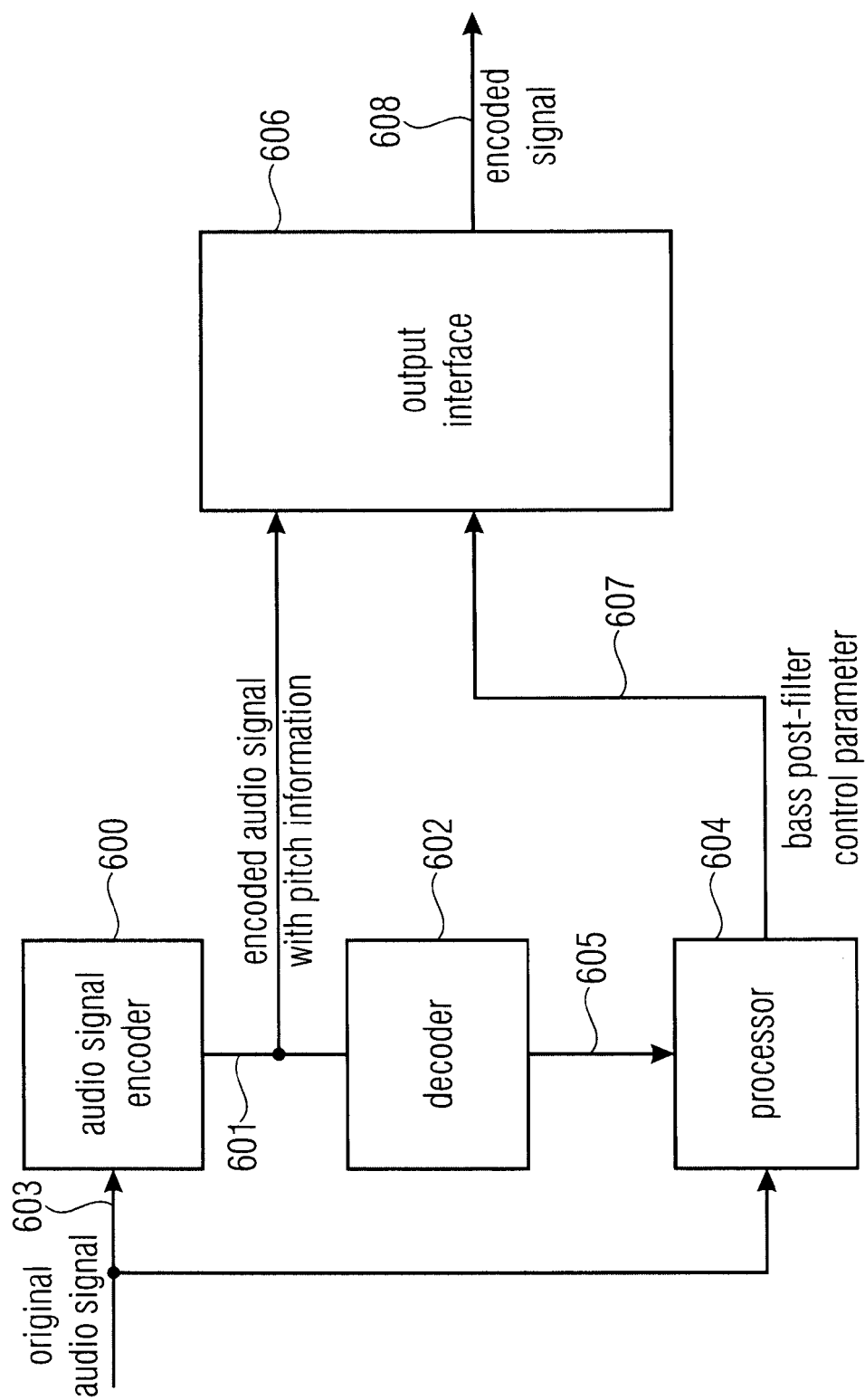


FIG 6

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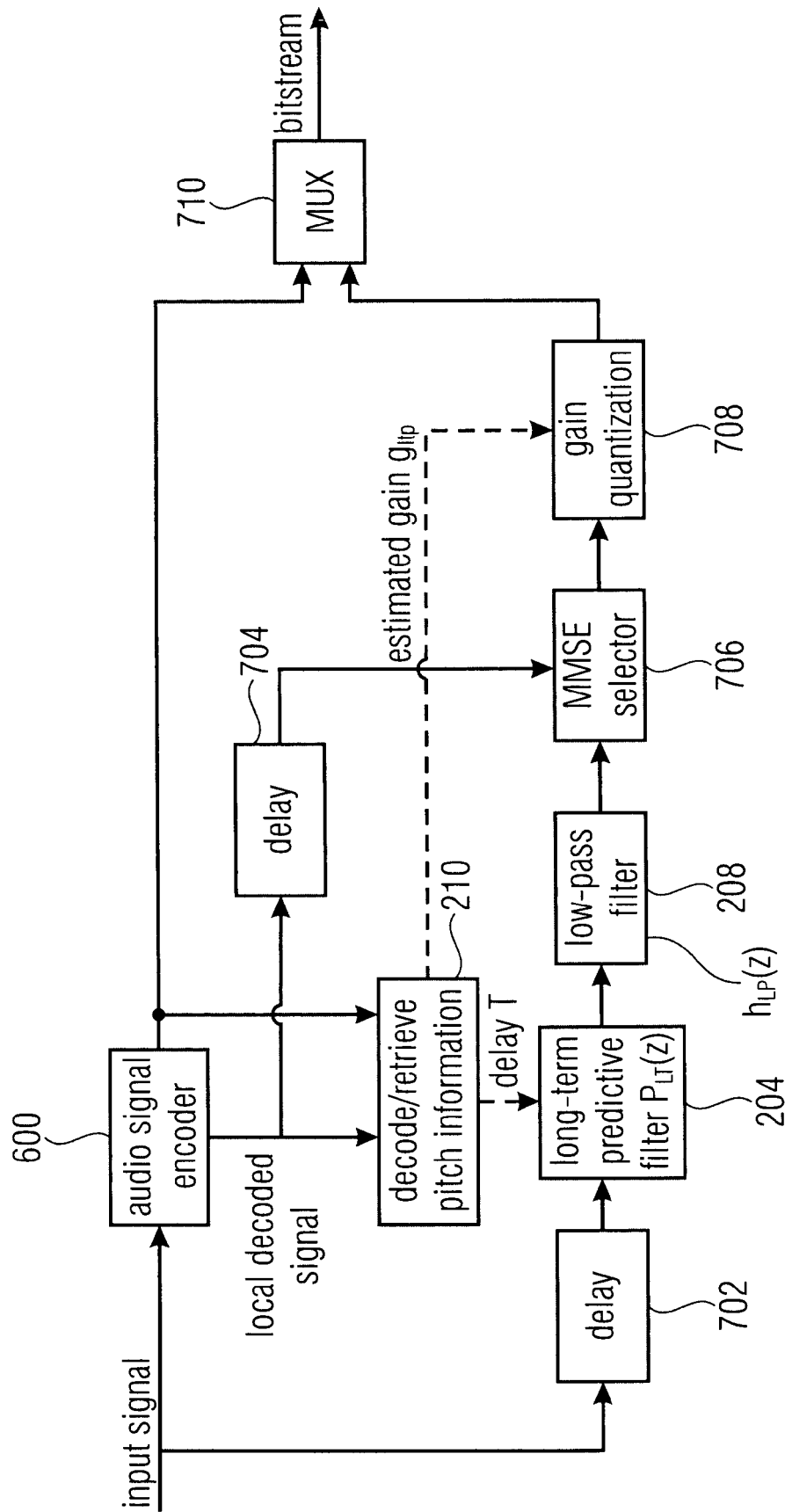


FIG 7A

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$$\text{SNR}_c = 10.\log\left(\frac{\sum_{n=0}^{N-1} (s(n))^2}{\sum_{n=0}^{N-1} (s(n) - \hat{s}(n))^2}\right) \quad (1)$$

$$\text{SNR}_{\text{pf}}(\alpha) = 10.\log\left(\frac{\sum_{n=0}^{N-1} (s(n))^2}{\sum_{n=0}^{N-1} (s(n) - \hat{s}(n) + \alpha(\hat{s}(n) * p_{\text{LT}}(n) * h_{\text{LP}}(n)))^2}\right) \quad (2)$$

$$s_e(n) = (\hat{s}(n) * p_{\text{LT}}(n) * h_{\text{LP}}(n)) \quad (3)$$

$$\arg \max_{\alpha} \text{SNR}_{\text{pf}}(\alpha) = \arg \min_{\alpha} \sum_{n=0}^{N-1} (s(n) - \hat{s}(n) + \alpha s_e(n))^2 \quad (4)$$

$$\tilde{\alpha} = - \frac{\sum_{n=0}^{N-1} (s(n) - \hat{s}(n)).s_e(n)}{\sum_{n=0}^{N-1} (s(n) - \hat{s}(n))^2} \quad (5)$$

$$\text{index} = \min(2^k - 1, \max\left(0, \frac{2^k - 1}{\alpha_{\max} - \alpha_{\min}} \cdot \left(\frac{\tilde{\alpha}}{0.5g_{\text{ltp}}} - \alpha_{\min}\right)\right)) \quad (6)$$

$$\alpha(\text{index}) = \left(\frac{\alpha_{\max} - \alpha_{\min}}{2^k - 1} \cdot \text{index} + \alpha_{\min}\right) \cdot 0.5g_{\text{ltp}} \quad (7)$$

$$\text{index_new} = \arg \max_{\text{index}-1, \text{index}, \text{index}+1} \text{SNR}_{\text{pf}}(\alpha(\text{index})) \quad (8)$$

FIG 7B

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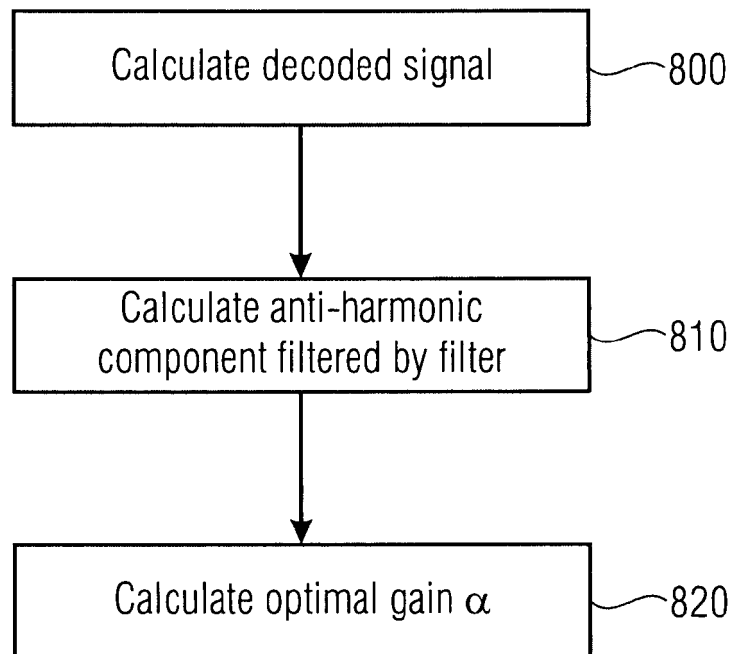


FIG 8

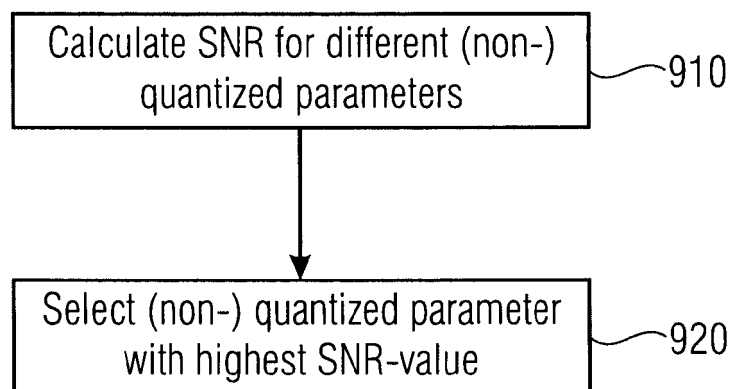


FIG 9

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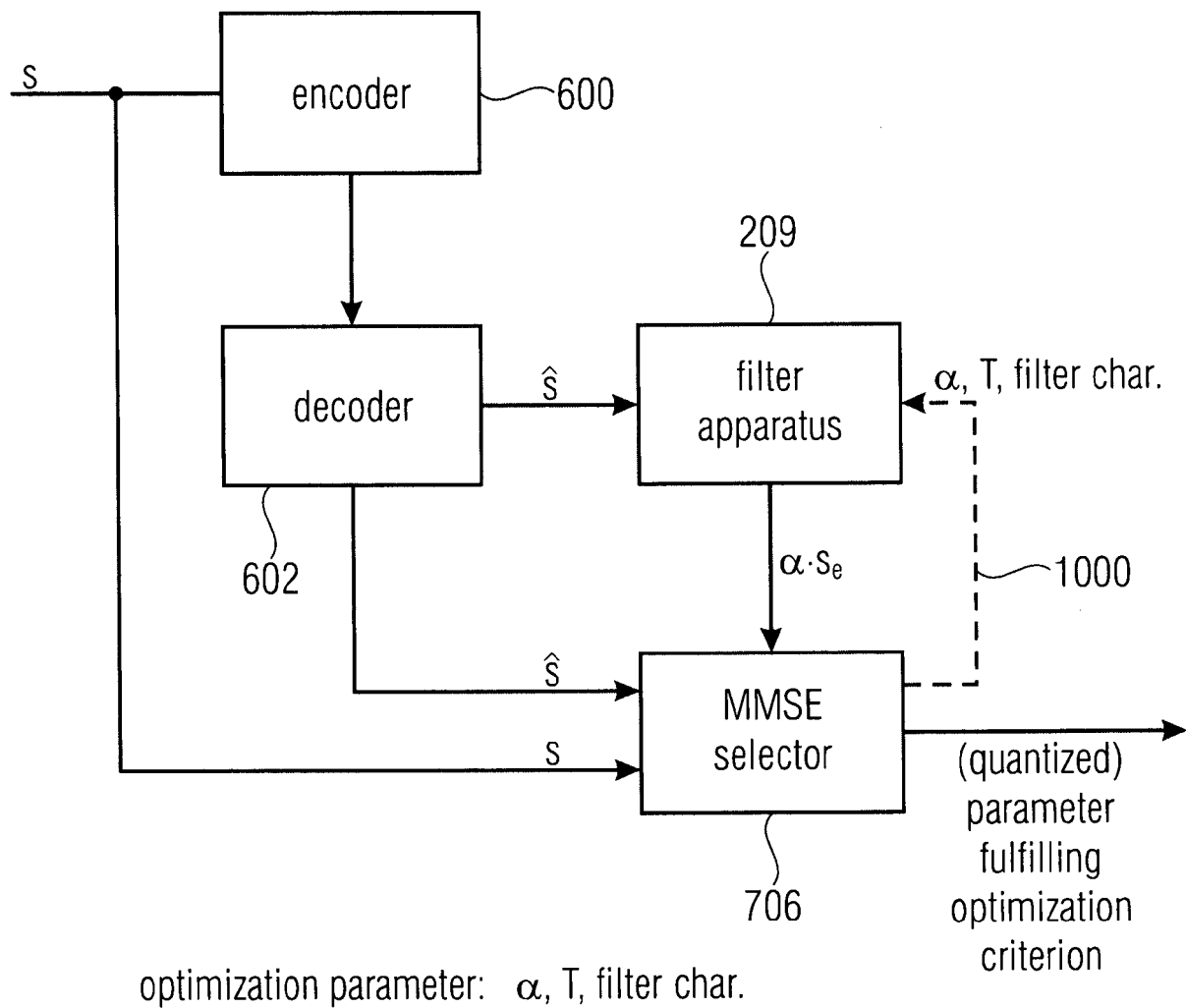
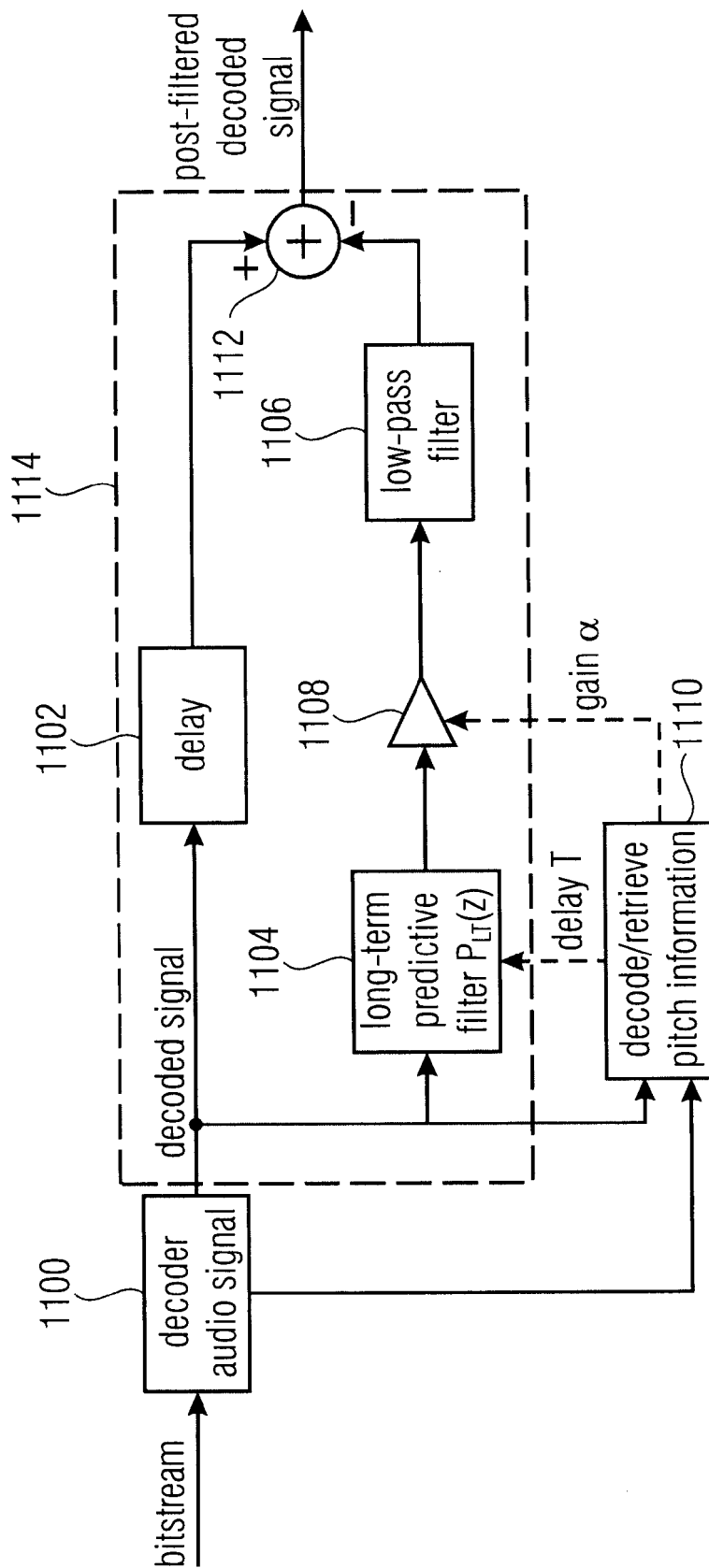
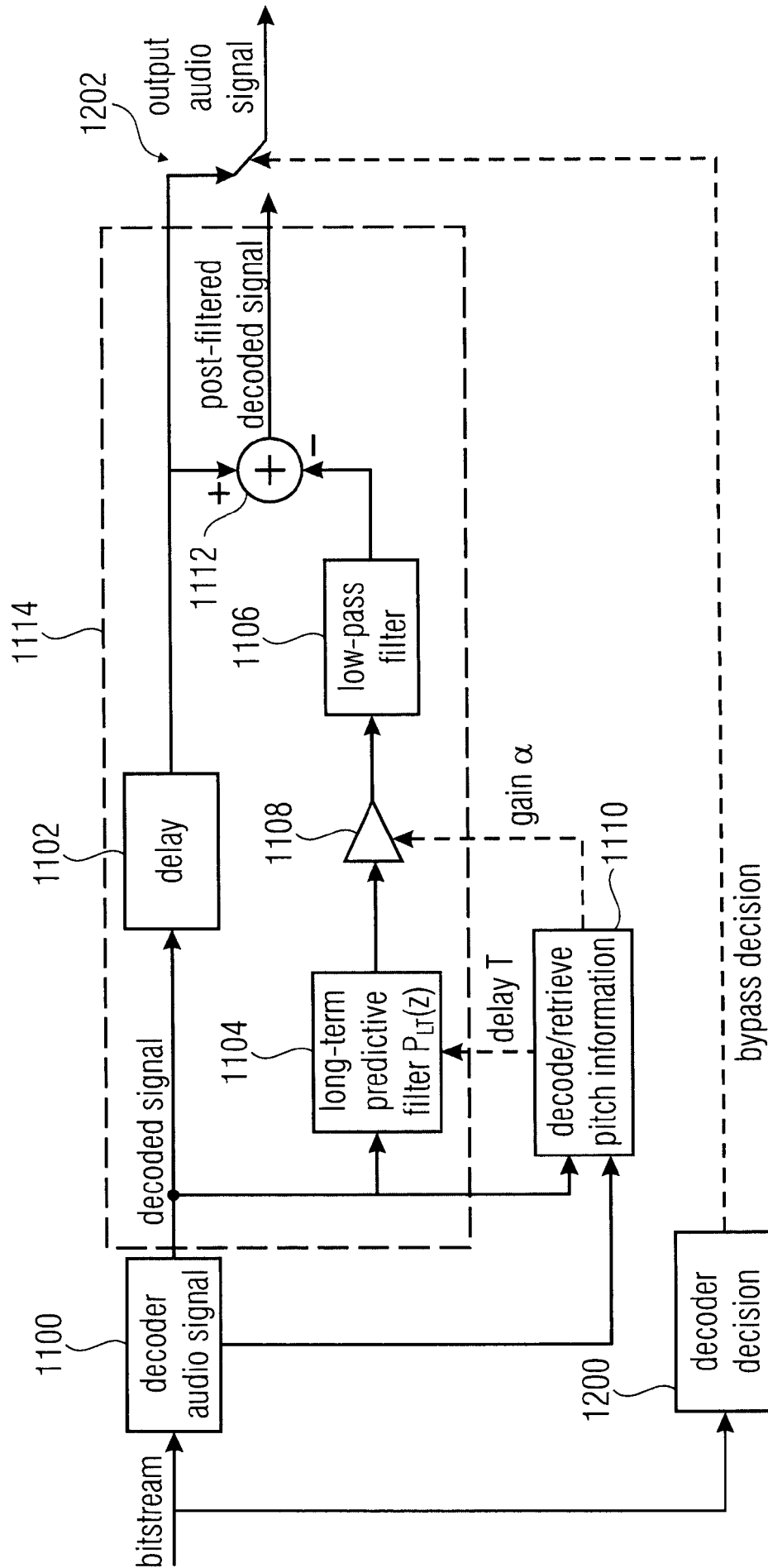


FIG 10

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FIG 11
(PRIOR ART)

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FIG 12
(PRIOR ART)