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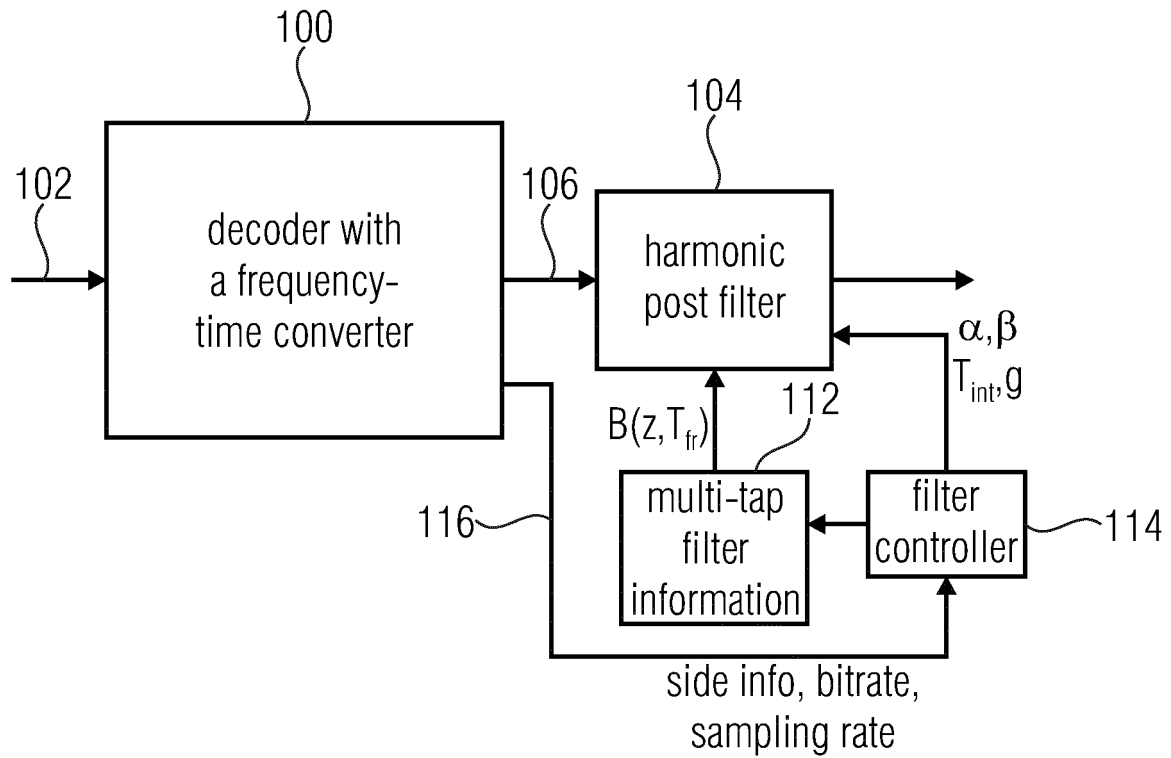


FIG 1

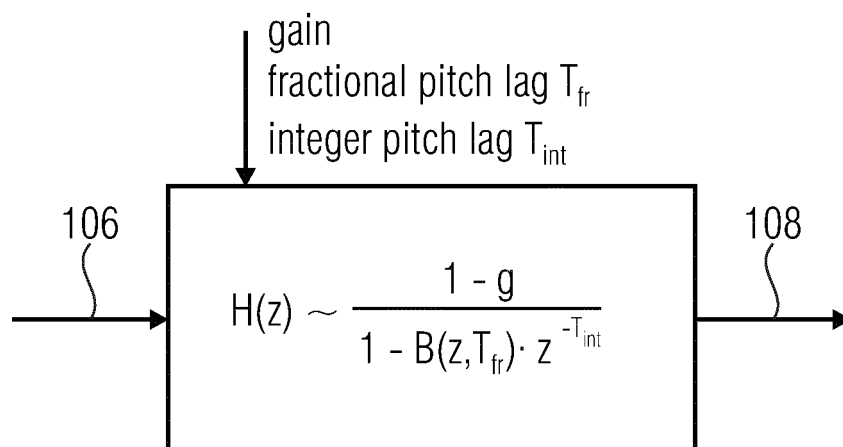


FIG 2

$$H(z) = \frac{1 - \alpha\beta g B(z, 0)}{1 - \beta g B(z, T_{fr}) z^{-T_{int}}}$$

g : gain value

T_{fr} : fractional part of pitch lag

T_{int} : integer part of pitch lag

$B(z, T_{fr})$: multi-tap FIR filter
depending on fractional part

$B(z, 0)$: multi-tap FIR filter
for a zero fractional part

α : first scalar value $0.6 \leq \alpha < 1.0$

β : second scalar value $0.1 \leq \beta \leq 0.5$

FIG 3

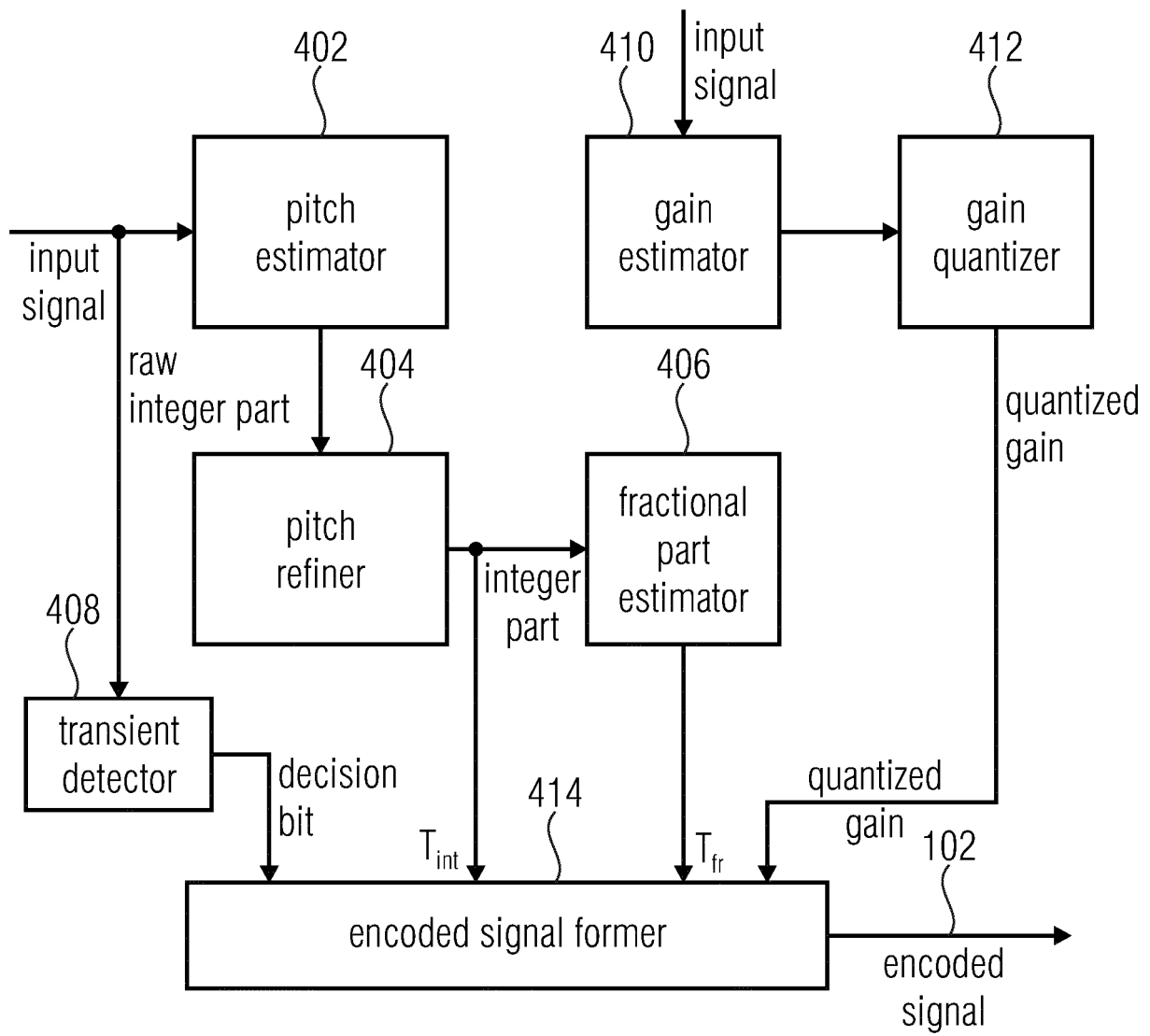


FIG 4

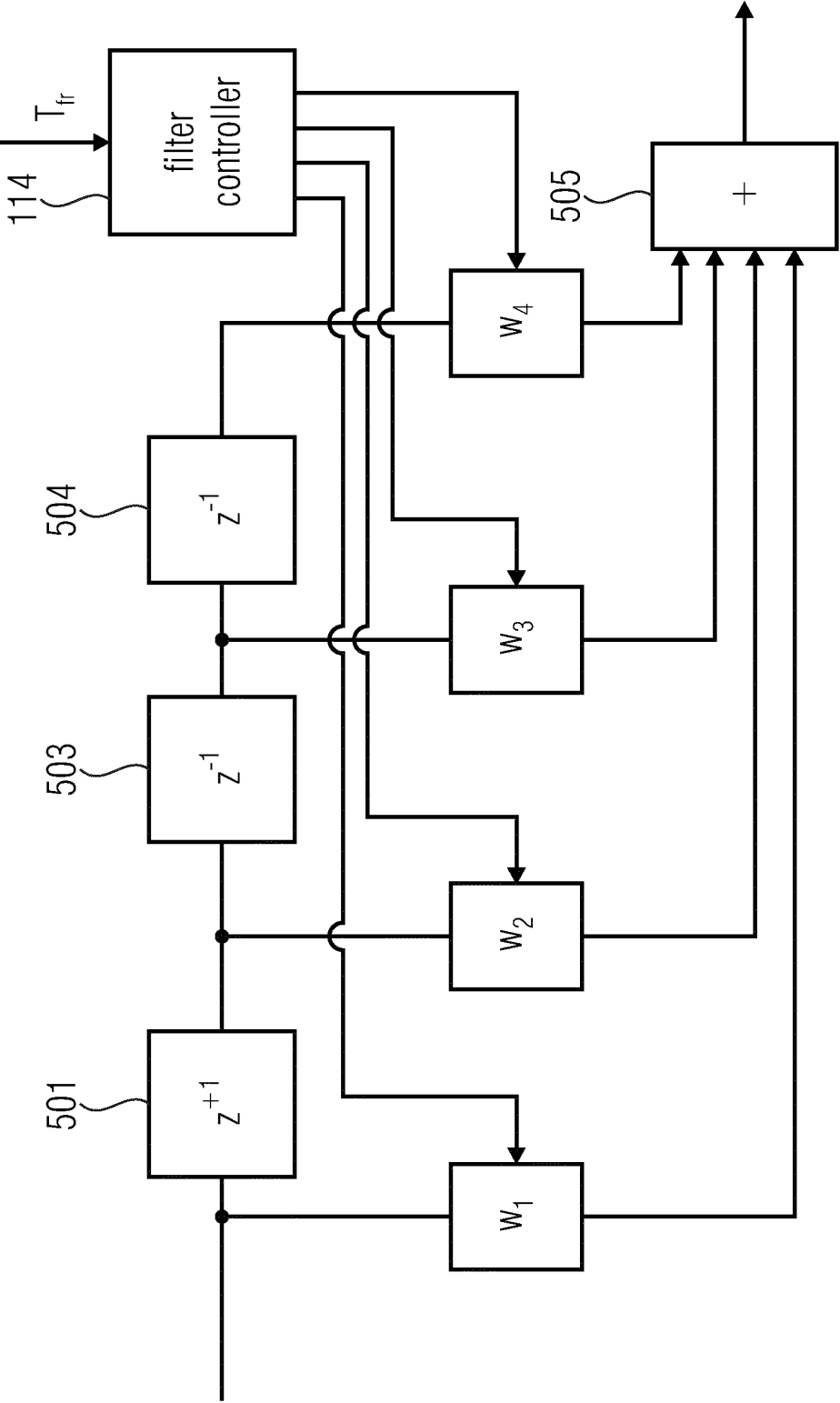


FIG 5

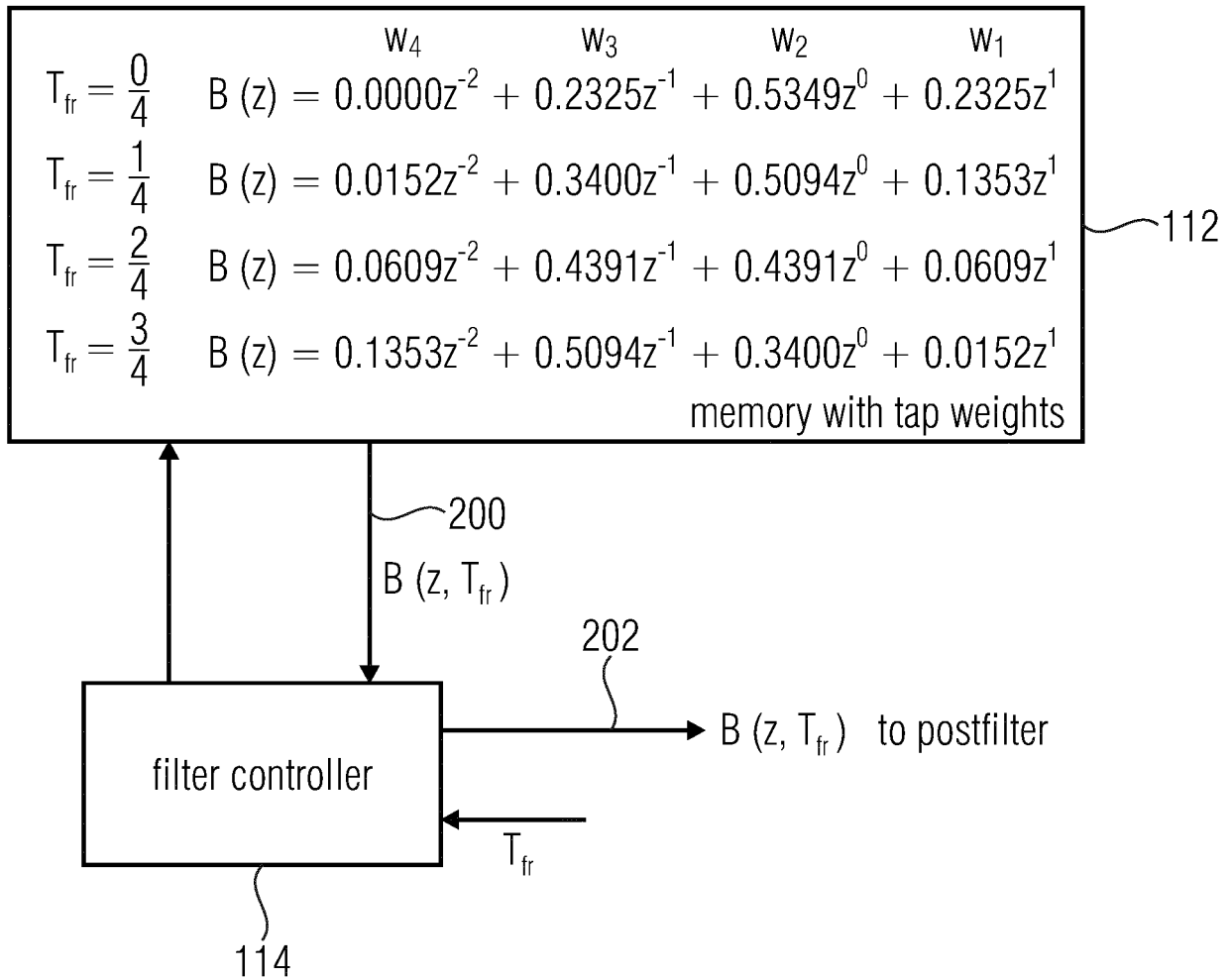


FIG 6

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$$g=1; \beta=0.4; T_{fr}=1/4; T_{int}=60$$

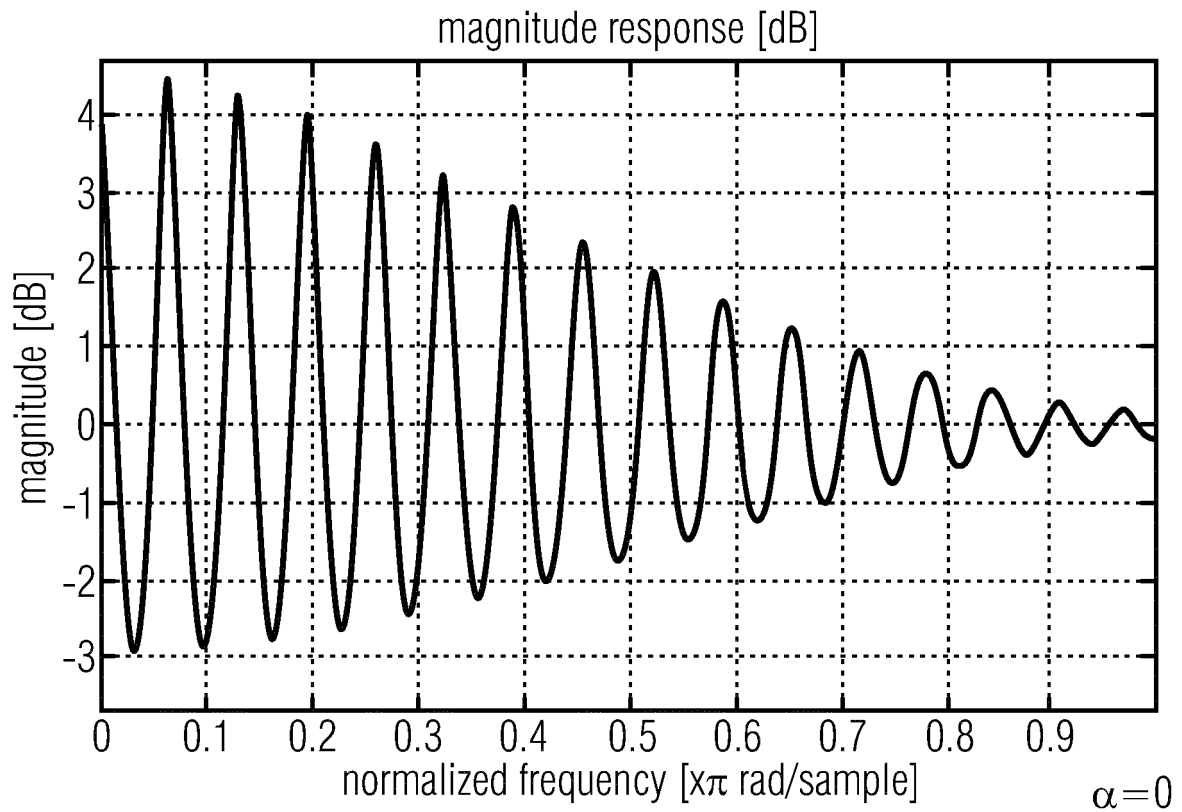


FIG 7A

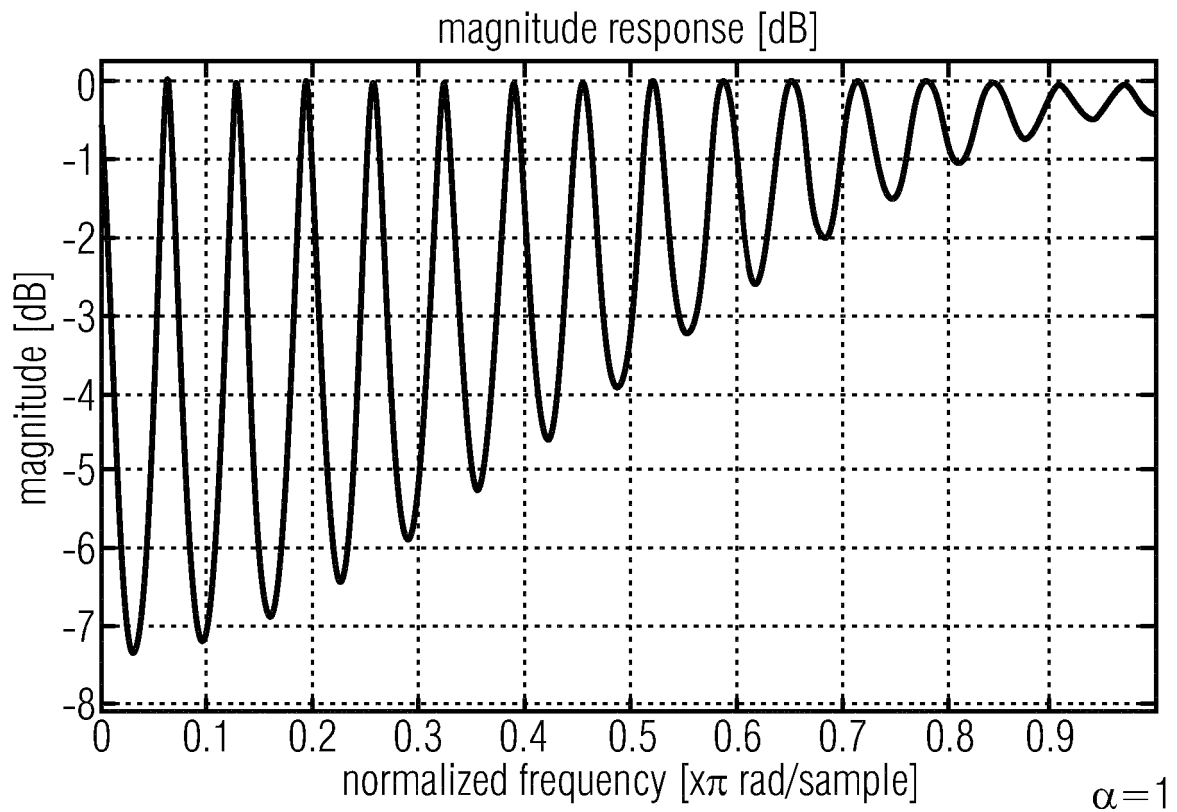


FIG 7B

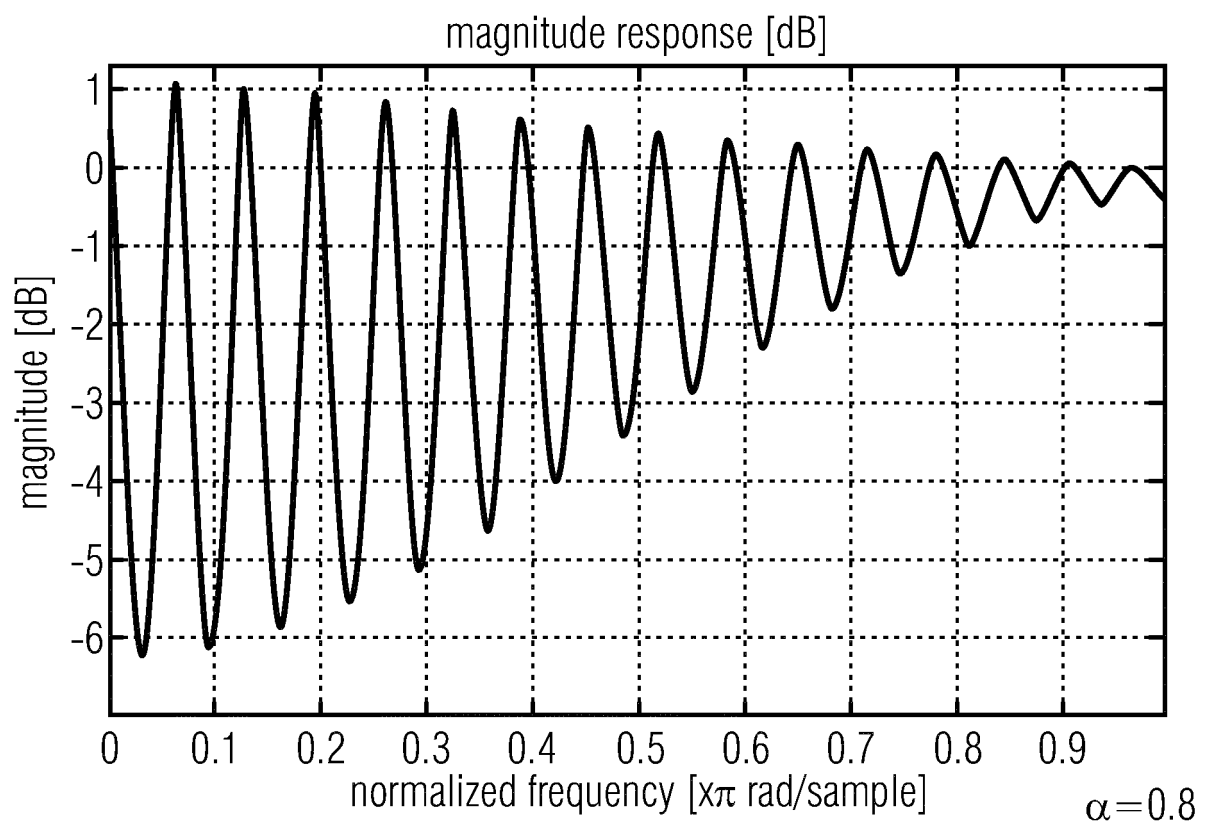


FIG 7C

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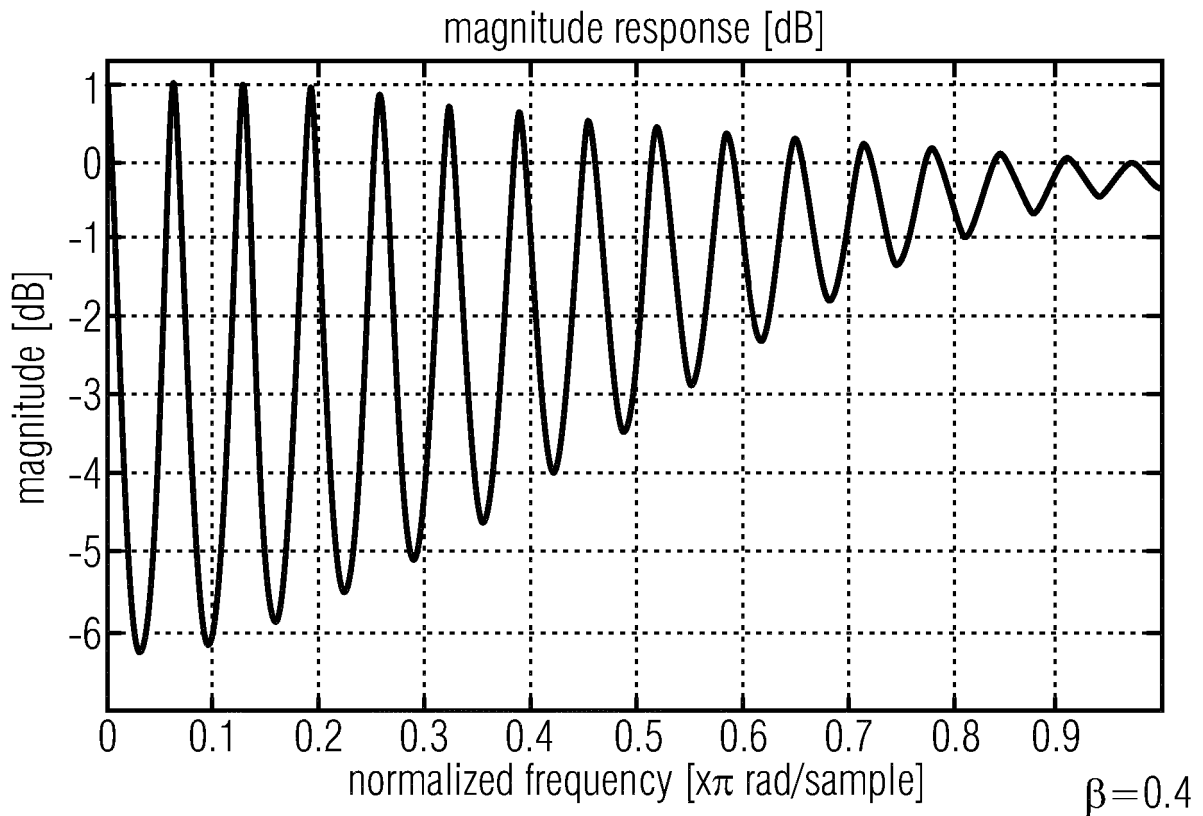
 $g=1; \alpha=0.8; T_{fr}=1/4; T_{int}=60$ 

FIG 8A

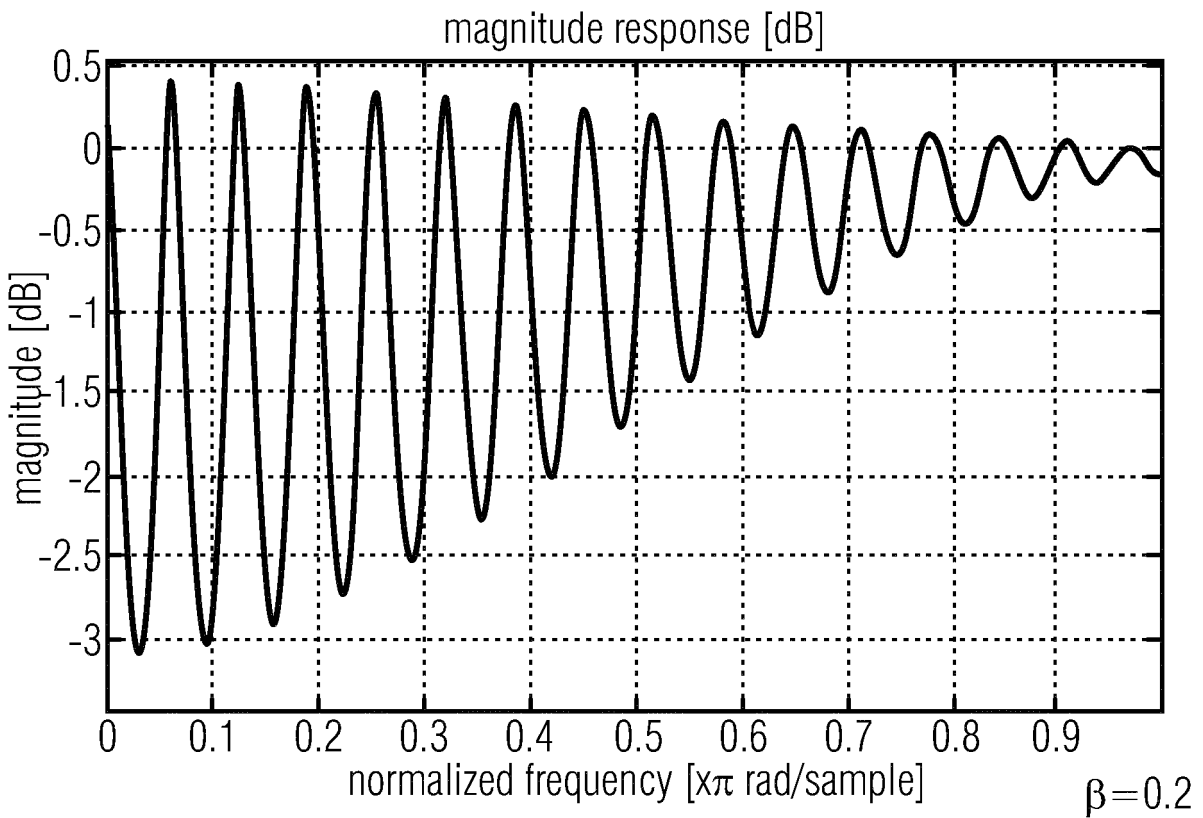


FIG 8B