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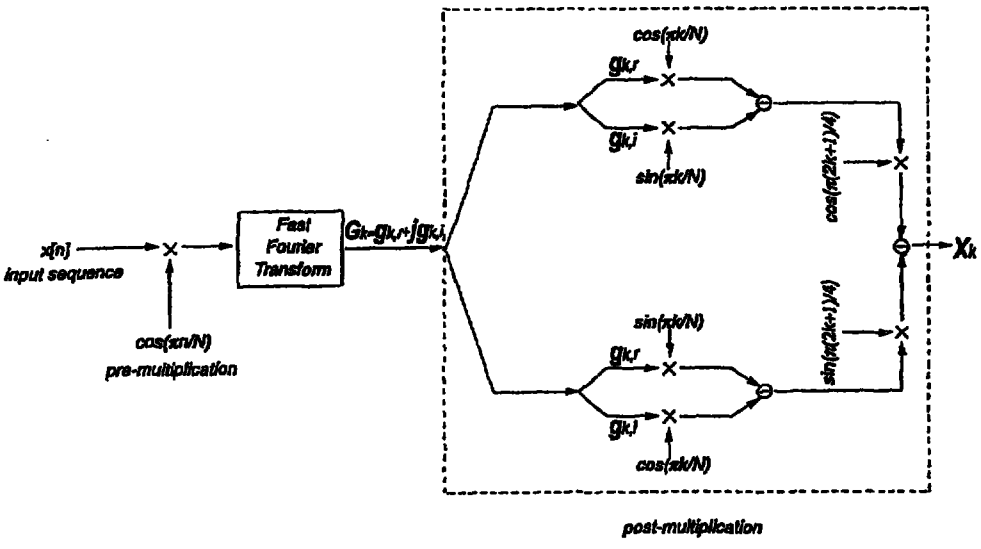
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(54) Title: FAST MODIFIED DISCRETE COSINE TRANSFORM METHOD



(57) Abstract: A technique for computationally efficient evaluation of the Modified Discrete Cosine Transform (MDCT) using the Fast Fourier Transform (FFT) method is presented. The full MDCT computation process comprises of a pre-processing block, an N-Point FFT block and finally a post-processing block. It is well known that an N/2-Point FFT can be used for computing N-Point FFT of a sequence of N real data. The input to the FFT block described above consist of a sequence of N complex numbers. This patent discusses a method by which the regularity in these complex data can be exploited to compute their N-Point FFT using an N/2-Point FFT only, thereby decreasing computation burden almost by two.

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