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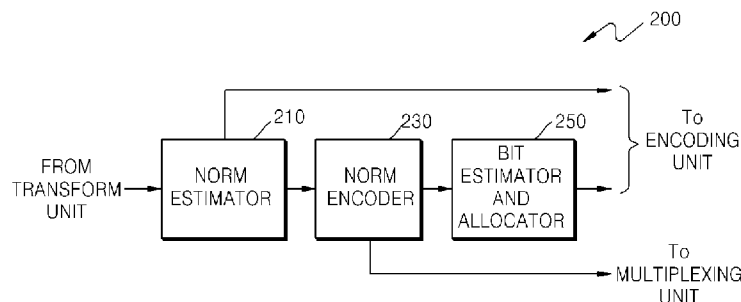
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(54) **Title:** BIT ALLOCATING, AUDIO ENCODING AND DECODING

[Fig. 2]



(57) **Abstract:** A bit allocating method is provided that includes determining the allocated number of bits in decimal point units based on each frequency band so that a Signal-to-Noise Ratio (SNR) of a spectrum existing in a predetermined frequency band is maximized within a range of the allowable number of bits for a given frame; and adjusting the allocated number of bits based on each frequency band.