

METHOD AND APPARATUS FOR ALLOCATING BITS OF AUDIO SIGNAL

ABSTRACT

Embodiments of the present invention provide a method and an apparatus for allocating
5 bits of an audio signal. The method includes: dividing a frequency band of an audio signal
into multiple sub-bands, and quantizing a sub-band normalization factor of each sub-band;
classifying the multiple sub-bands into multiple groups, and acquiring a sum of intra-group
sub-band normalization factors of each group, where the sum of intra-group sub-band
normalization factors is a sum of sub-band normalization factors of all sub-bands in the group;
10 performing initial inter-group bit allocation according to the sum of intra-group sub-band
normalization factors of each group, to determine the initial number of bits of each group;
performing secondary inter-group bit allocation based on the initial number of bits of each
group, to allocate coding bits of the audio signal to at least one group, where a sum of bits
allocated to the at least one group is the number of the coding bits of the audio signal; and
15 allocating the bits of the audio signal that are allocated to the group to sub-bands in the group.
The present invention can, by means of grouping, ensure relatively stable allocation in a
previous frame and a next frame and reduce an impact of global allocation on local
discontinuity in a case of low and medium bit rates.

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Figure 1