

AUDIO SIGNAL CODING APPARATUS, AUDIO SIGNAL DECODING  
APPARATUS, AUDIO SIGNAL CODING METHOD, AND AUDIO SIGNAL  
DECODING METHOD

ABSTRACT

An audio signal coding apparatus (100) includes a time-frequency transformer (101) that outputs sub-band spectra from an input signal, a sub-band energy quantizer (102), a tonality calculator (103) that analyzes tonality of the sub-band spectra, a bit allocator (104) that selects a second sub-band on which quantization is performed by a second quantizer on the basis of the analysis result of the tonality and quantized sub-band energy, and determines a first number of bits to be allocated to a first sub-band on which quantization is performed by a first quantizer, the first quantizer (106) that performs coding using the first number of bits, the second quantizer (107) that performs coding using a pitch filter, and a multiplexer (108).

[FIG.1]