PARAMETER DECODING DEVICE, PARAMETER ENCODING DEVICE, AND PARAMETER DECODING METHOD

ABSTRACT

Provided is a parameter decoding device which performs parameter compensation process so as to suppress degradation of a main observation quality in a prediction quantization. The parameter decoding device includes amplifiers (305-1 to 305-M) which multiply inputted quantization prediction residual vectors x_{n-1} to x_{n-M} by a weighting coefficient β_1 to β_M. The amplifier (306) multiplies the preceding frame decoding LSF vector y_{n-1} by the weighting coefficientβ_{-1}. The amplifier (307) multiplies the code vector x_{n+1} outputted from a codebook (301) by the weighting coefficientβ_0. An adder (308) calculates the total of the vectors outputted from the amplifiers (305-1 to 305-M), the amplifier (306), and the amplifier (307). A selector switch (309) selects the vector outputted from the adder (308) if the frame erasure coding B_n of the current frame indicates that 'the n-th frame is an erased frame' and the frame erasure coding B_{n+1} of the next frame indicates that 'the n+1-th frame is a normal frame'.

Figure 3