



ABSTRACT OF THE DISCLOSURE

A designating mechanism generates filtering designation data, which designate the contents of filtering, reverberating designation data, which designate the contents of reverberation, and characteristics data, which express the combined contents of filtering and reverberation. A parameters generating mechanism generates filtering parameters expressing filtering characteristics, and generates reverberating parameters expressing reverberation characteristics. A readout device reads out a first operating algorithm, which designates filtering designation data, and a second operating algorithm, which designates reverberating designation data, from a memory mechanism wherein a plurality of operating algorithms are stored. A computing mechanism creates a digital filter having characteristics corresponding to filtering parameters, based on the first operating algorithm, creates an operating unit having reverberation characteristics corresponding to reverberating parameters, based on the second operating algorithm, operates this digital filter and this operating unit in a time shared manner, and processes filtering and reverberation in parallel.