

ABSTRACT:

MUSICAL TONE SYNTHESIZING APPARATUS

A musical tone synthesizing apparatus which synthesizes a musical tone signal in response to the wind instrument, brass instrument and the like provides an excitation circuit (102) and a resonance circuit (103). The excitation circuit simulates the operations of the reed, mouth-piece and the like, while the resonance circuit which operates as the bi-directional transmission path simulates the resonance tube. The excitation signal generated from the excitation circuit is transmitted through the resonance circuit consisting of delay circuits and junction circuits. Thereafter, the transmitted signal is reflected by the terminal portion, and the reflected signal is transmitted through the resonance circuit and then fed back to the excitation circuit. Thus, the excitation signal is circulated in the loop consisting of the excitation circuit and resonance circuit. Based on the signal picked up from this loop, it is possible to obtain the synthesized musical tone signal which simulates the wind instrument tone and the like.

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