

Abstract"Electronic Musical Instrument Having Plural
Different Tone Generators"

Two tone generators (20, 21) having different tone
5 generation systems, e.g., PCM type and an FM type, are
provided. There are tone generation modes designating
combination of tone generation in these tone generators
and one can be selected from among them. There are, for
example, a simple mixing mode, a delay mode in which
10 start of tone generation in one tone generator is
delayed from that in the other and a crossfade mode in
which a tone signal is generated first in one tone
generator and tone generation is switched to the other
tone generator and envelope levels of output tone
15 signals of the two tone generators are crossfaded during
a switching period. Delay time in the delay mode and
switching time in the crossfade mode can be variably
controlled in accordance with a key scaling and/or other
factors. A tone may be generated at a sampling frequency
20 synchronized with a pitch in one tone generator and at a
sampling frequency which is not synchronized with the
pitch in the other tone generator. A phase of one cycle
may be divided into plural sections and a complex
waveform can be generated by converting the phase
25 address signal in accordance with a function peculiar to

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each phase section and accessing a waveform memory with the converted address signal.

(Figure 1)

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