

Abstract

"Method and Device for Forming a Tone Waveform by
Combined Use of Different Waveform Sample Forming Resolutions"

The number of waveform samples per unit time, i.e.,
5 waveform sample forming resolution is variably set depending
on characteristics of a tone to be generated, such as
construction of harmonic components in the tone. The number
is increased for a tone or portion (e.g., attack portion) of
a tone containing a relatively great number high-order
10 harmonic components. Conversely, for a tone or portion (e.g.,
sustain portion) of a tone containing fewer high-order
harmonic components, the number is decreased. By thus
variably setting the waveform sample resolution, a process for
arithmetically forming waveform sample data can be performed
15 without involving significant waste. The waveform sample
forming resolution may be variably set independently for each
of tone generation channels. Data compression can be achieved
by storing the waveform data with the waveform sample forming
resolution variably set for each of different waveform
20 segments.

(Figure 9)