

Abstract

"Tone Waveform Generating Method and Apparatus Based on Software"

Plural tone waveform samples are generated collectively
5 in advance of predetermined reproduction timing, and the
generated tone waveform samples are temporarily stored in a
buffer. The buffer is capable of writing and reading,
independently of each other, in accordance with respective
pointers. The write pointer advance is controlled so that
10 the tone waveform samples are sequentially written into the
buffer from the beginning of the buffer and, upon arrival at
the end of the buffer, the write pointer gets back to the
beginning of the buffer. Arithmetic operations for
collectively generating the tone waveform samples based on
15 automatic performance information and real-time performance
information can be carried out independently of each other.
An image control program, music control program and general
control program are incorporated in single application
software, and image display and music performance are
20 executed in parallel and in correlation to each other.

(Figure 2D)