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MUSIC SOUND SYNTHESIS WITH WAVEFORM CACHING BY PREDICTION

ABSTRACT OF THE DISCLOSURE

A method is designed for selectively transferring sound data representative of waveforms of various musical sounds from a first storage device to a second storage device. The first storage device stores the sound data accessibly at a first access rate. The second storage device caches the sound data accessibly by a processor at a second access rate faster than the first access rate for instantly providing sound data representative of a target waveform of a musical sound to be processed by the processor. The method carries out the steps of receiving timbre specification information which specifies a timbre of the musical sound, predicting sound data representative of candidate waveforms matching the specified timbre and possibly containing a target waveform, and transferring the predicted sound data from the first storage device to the second storage device for caching so that the processor can hit the target waveform among the cached candidate waveforms.

Figure 16



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