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DIGITAL ECHO CIRCUIT

ABSTRACT OF THE DISCLOSURE

5 An input musical sound signal is converted
into a digital signal by an A/D converter (10),
and then supplied to a feed back loop (22) having
a digital delay circuit (16), so that an echo is
produced. A distortion-adding block (28) is
10 disposed in the feed back loop (22) to add
distortion components corresponding to distortion
and the like due to recording and reproducing
processes of a tape-recorder-type analog echo, to
the echo signal. The delay time of the digital
15 delay circuit (16) is modulated, so that
fluctuation components corresponding to, for
example, wow and flutter components of a tape-
recorder-type analog echo are added to the signal.
The echo produced in the feed back loop (22) is
20 returned to an analog signal by a D/A converter
(24), and then added to the original sound by an
adder (26). A result of the addition is then
output.

25 (Figure 1)