

DIGITAL ECHO CIRCUIT

ABSTRACT OF THE DISCLOSURE

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 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 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 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. (Figure 1)

This Sheet Has Been Replaced

