

Title (en)

Reverberation generation method and device for analoquous tone signals.

Title (de)

Vorrichtung zur Erzeugung von Hall für analoge Tonsignale und Verfahren zu deren Betrieb.

Title (fr)

Dispositif et procédé pour générer la réverbération des signaux tonales analogues.

Publication

EP 0101895 A2 19840307 (DE)

Application

EP 83107156 A 19830721

Priority

DE 3231925 A 19820827

Abstract (en)

1. Device for generating reverberation for analog audio signals, comprising an A/D converter for converting the analog audio signals into digital audio signals, a processing unit for processing the digital audio data, a D/A converter for reconvertng the processed digital audio data and a microprocessor controlling the device, the processing unit exhibiting an audio data store and a 16-bit computer for additions and multiplications, which are connected to lines for the digital audio data, characterized in that the converters (AD, DA) are designed for processing 12- or 14-bit audio data and in that the controlling microprocessor (MP) is connected to the lines (4) for the digital audio data, designed for internal 16-bit processing and used as computer for all-pass calculations, which executes multiplications which are limited to particular values which result from very few steps such as 0.5, 0.625, 0.75, 0.875 by shifting and, if necessary, adding digital values.

Abstract (de)

Bei einer Vorrichtung zur Erzeugung von Hall für analoge Tonsignale gibt es einen A/D-Wandler (AD) zur Umwandlung der analogen Tonsignale in digitale Tondaten, eine Verarbeitungseinheit (2) zur Behandlung der digitalen Tondaten und einen D/A-Wandler (DA) zur Rückwandlung der behandelten digitalen Tondaten. Ein Mikroprozessor (MP) ist mit Leitungen (4) für die digitalen Tondaten verbunden und wird als Rechner verwendet, der Multiplikationen durch Verschieben und gegebenenfalls Addieren von Digitalwerten ausführt.

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