

Title (en)

An electronic circuit for simulating sound from a rotary loudspeaker.

Title (de)

Elektronische Schaltung zum Nachbilden des Klangs eines rotierenden Lautsprechers.

Title (fr)

Circuit électronique pour la simulation du son d'un haut-parleur tournant.

Publication

EP 0031692 A2 19810708 (EN)

Application

EP 80304625 A 19801219

Priority

- US 10720379 A 19791226
- US 10722079 A 19791226

Abstract (en)

A device for electronically simulating vibrato and tremulant effects and the radiation effects produced by a rotary loudspeaker with the aid of two loudspeakers, (34, 50), in which a musical tone signal (20) is applied to a variable delay device (22) associated with one of the loudspeakers (34). The frequency modulated signal (B) produced by the variable delay device is also subjected to amplitude modulation in a modulator (40) controlled in synchronism with the variable delay device, and the resulting composite signal applied to the other loudspeaker (50). Additionally, the high frequency components of the frequency modulated signal from the variable delay device may be summed in an amplifier (46), in an out of phase relationship, with the composite amplitude modulated signal (C) to simulate the effect of a rotating high frequency horn radiator. The sub-audio modulating signal, which may be for example at 1Hz for a <<chorus>> effect, or 7Hz for a <<tremulant>> effect, is produced by an oscillator (26), and the degree of amplitude- and/or frequency-modulation may be dependant on this sub-audio frequency.

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