string sound

This circuit can be used to give quite a natural imitation of a vibrating string. An astable multivibrator consisting of transistors T₁ and T₂ produces the fundamental tone. As long as switch is not operated, the two transistors T₃ and T₄ are conducting, and thus the and transition of the state of t

S is closed before the tone has disappeared, it is abruptly cut off because T_3 is turned on again.

With this circuit a tone can be produced whose frequency depends on the setting of P_1 and on the values of C_1 and C_2 . The values for these capacitors can be determined by experiment; they will generally be chosen in the range $1\dots 10$ n. If several of these stages are interconnected via resistors, a simple synthesizer can be built.

