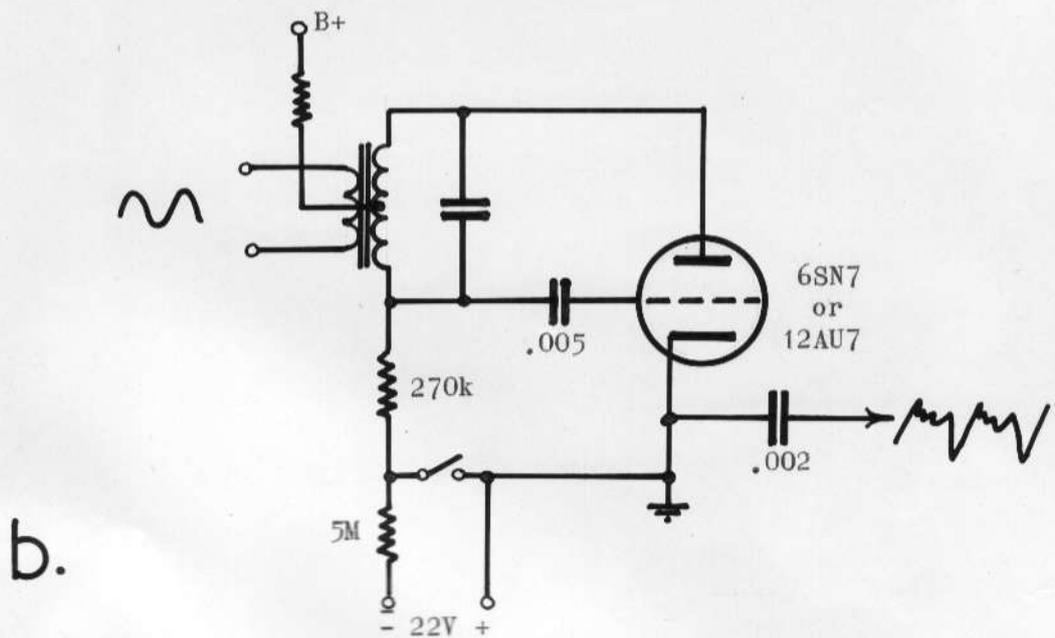
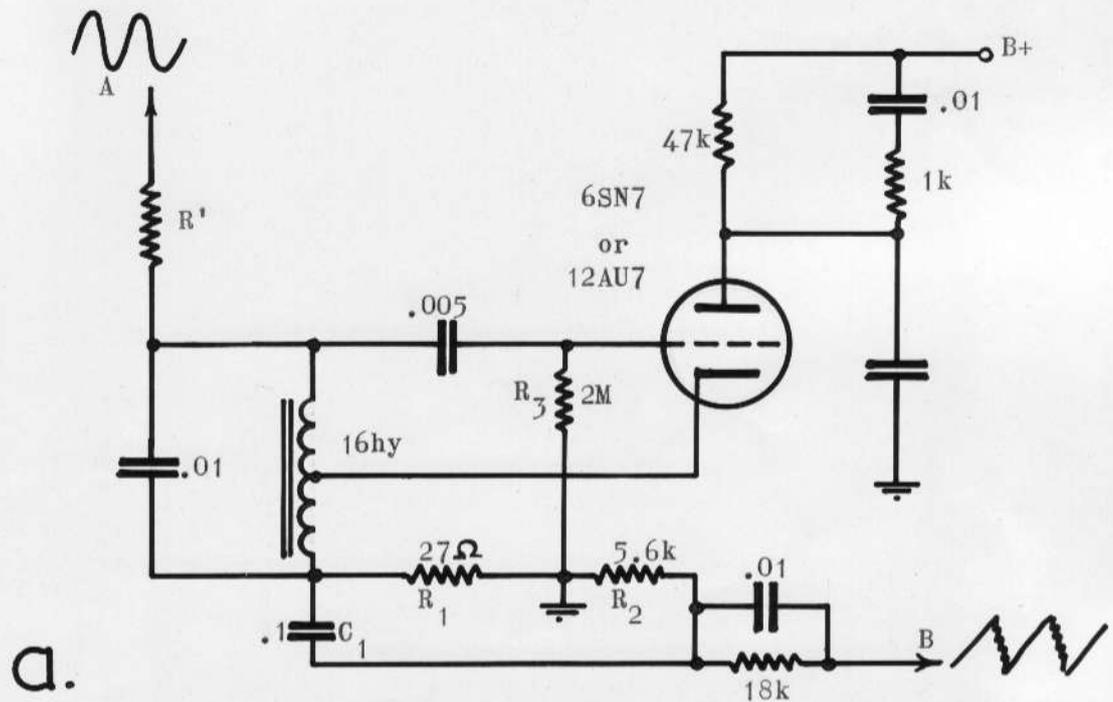


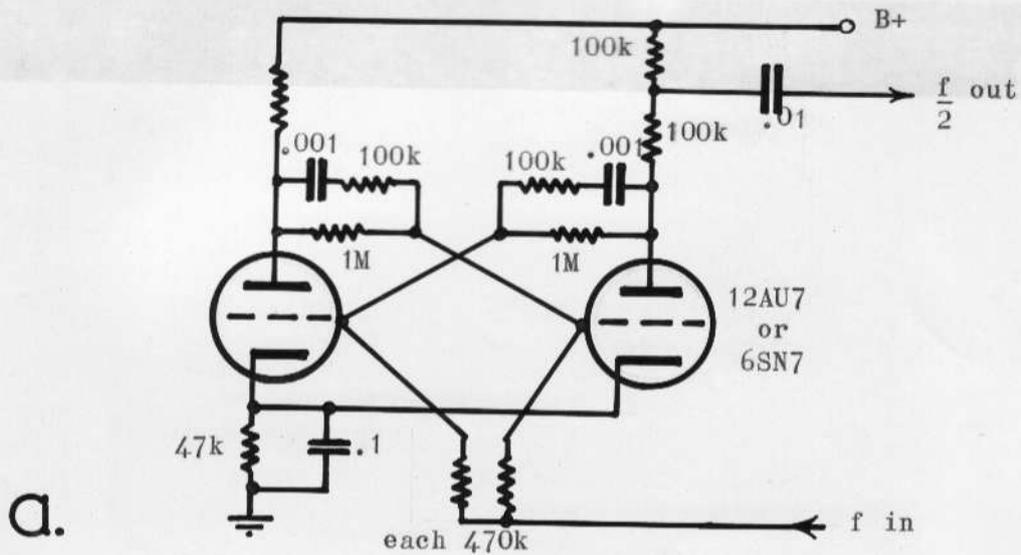
BIBLIOGRAPHY.

1. "The Physics of Music", A. Wood, 5th Ed. (Methuen)
2. "Science and Music", Sir.J. Jeans (Cambridge U.P., 1938)
3. "Elements of Acoustic Engineering", H.F. Olson (Van Nostrand, 1948)
4. "Electronic Musical Instruments", B.F. Meissner, Proc.I.R.E.,24, 11, Nov. '36, p.1427.
5. "Electronic Music Synthesizer", Harry F. Olson and Herbert Belar, Jour. Acoustical Soc. America, 27, 3, May '55, p.595.
6. "Synthetic Music", Alan Douglas, Electronic Engineering, May '56, p.208.
7. Stevens, Jour. Acoust. Soc. Amer., 6, p. 150 (1935).
8. "The Oxford Companion to Music", ed. by Percy A. Scholes, 9th Ed. (Oxford U.P., 1956)
9. "On the Sensations of Tone", Helmholtz, English translation by Bosanquet, p.479 (Longmans, Green and Co., 1895).
10. "A Design for a Keyboard Instrument in Just Intonation", C. Williamson, Jour. Acoust. Soc. Amer., 11, p.216, (1939)
11. "The Theory of Sound in its Relation to Music", P. Blaserna, (King, London 1876)
12. "Sound Waves - Their Shape and Speed", Dayton C. Miller (Macmillan, 1937)
13. "The Electrical Synthesis of Musical Tones" (3 parts), Alan Douglas, Electronic Engineering 25, (1953): Pt. I p.278 (July); Pt. II p.336 (Aug.); Pt. III p.370 (Sept.)
14. "Electronic Musical Instruments", Richard H. Dorf, 2nd Ed. (Audio Library No.6)
15. "New Horizons in Music", Leopold Stokowski, Jour. Acoust. Soc. Amer., 4, Pt. I. p.11 July 1932.
16. "The Production of Galvanic Music", C.G. Page, Amer. Jour. Science, 32, (1837), p.396.
17. "Sur de Nouvelles Expériences sur le Production de Tons Musicaux", C.E.J. Delzenne, Bibliothèque Universelle de Genève, 16, (1838) p.406.
18. "The Development of an Electronic Organ to Simulate Pipe Organ Tones", J.W. Reimer, Elec. Eng. Graduation Thesis, U.N.S.W. Jan.'61.
19. "The Electrical Production of Music", Alan Douglas, (Macdonald,1957)
20. "The Sounds and Music of the R.C.A. Electronic Music Synthesizer", R.C.A. Experimental 12" 33 $\frac{1}{2}$ r.p.m. LP 16101 (1955).
21. "Noise Measurement Techniques": Notes on Applied Science No.10, 1955,p.36.
22. "You Want to Build an Organ?", R.A.B. Tarrant, Radio Television and Hobbies, August 1955, p.75.
23. "Electronic Music Synthesis", H. F. Olson, H. Belar, and J. Timmens, Jour. Acoustical Soc. Amer., 32, 3, Mar. '60, p. 311.
24. "Rapid Variations of the Current through the D.C. Arc", W. Duddell, Jour. Institution Electrical Engineers, 30, (1900).

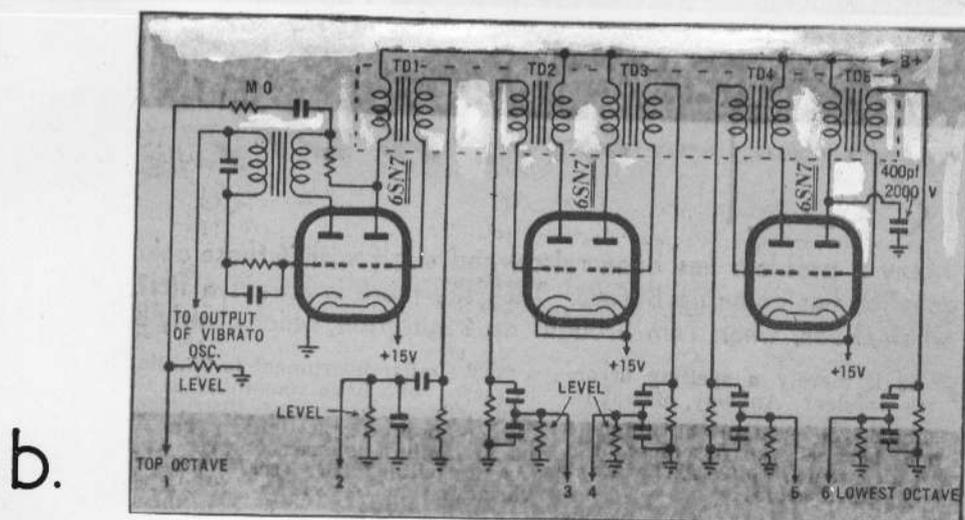


TYPICAL GENERATOR CIRCUITS

FIG. 13



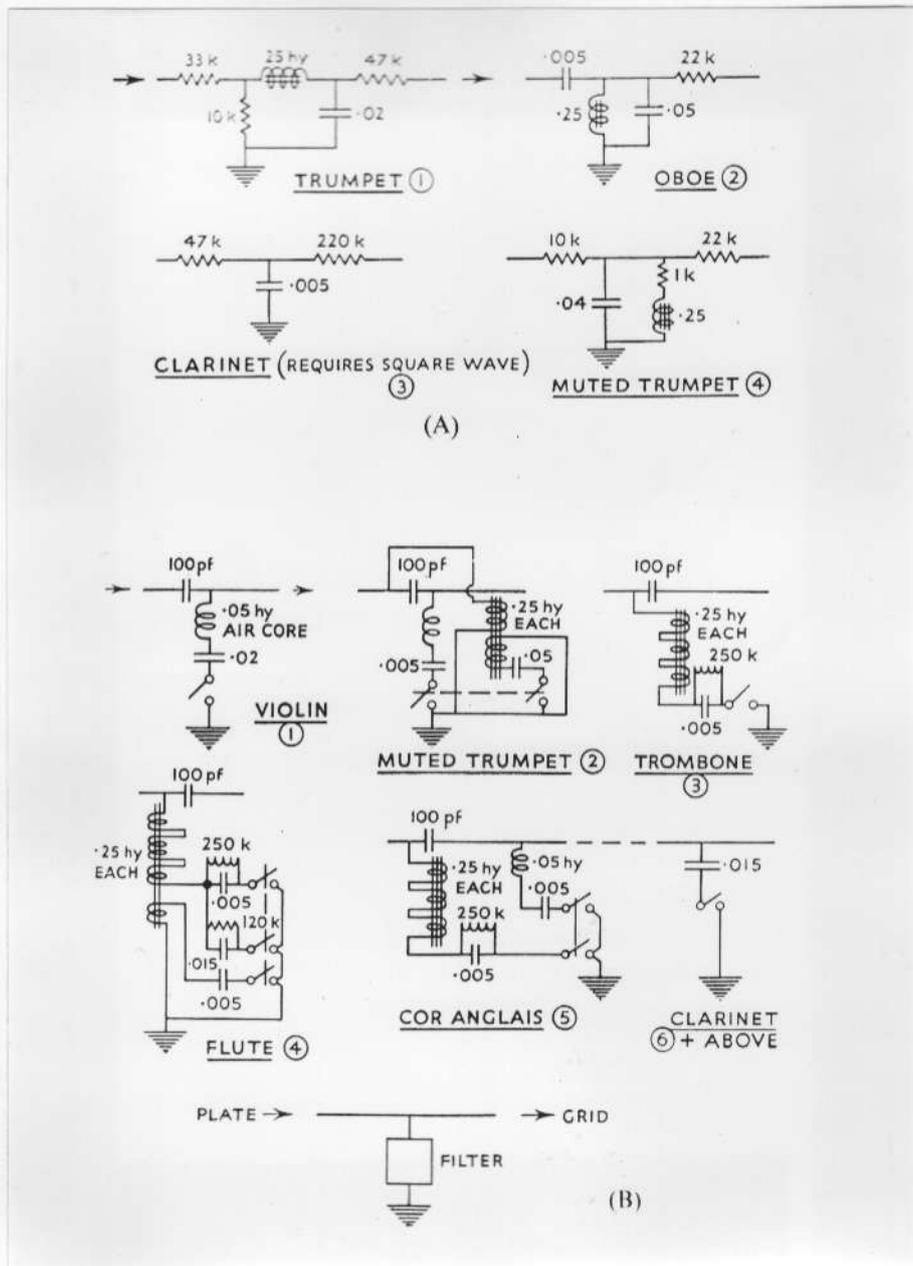
ECCLES-JORDAN FREQUENCY DIVIDER



BALDWIN GENERATOR-DIVIDER UNIT.

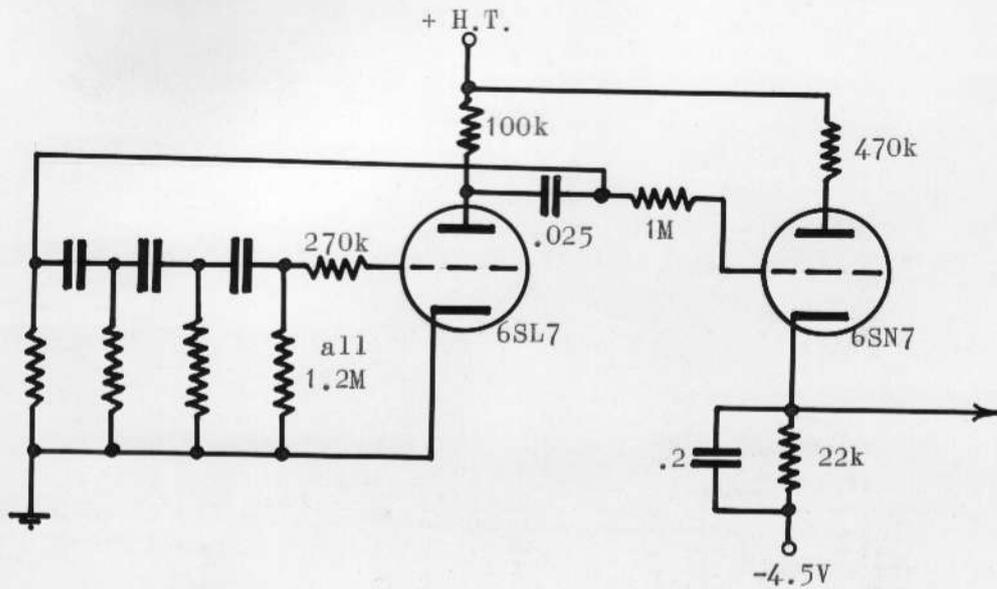
Showing the use of tuned grid blocking oscillators as frequency dividers, coupled to the master oscillator through transformer windings on a common core.

FIG. 14

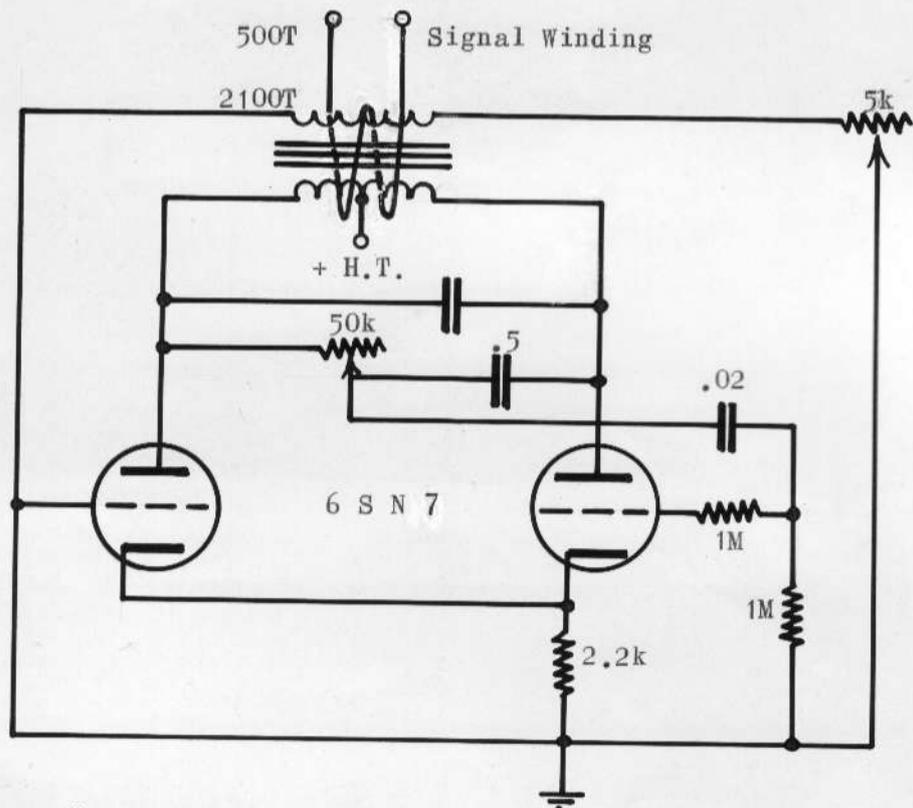


tone-forming filters

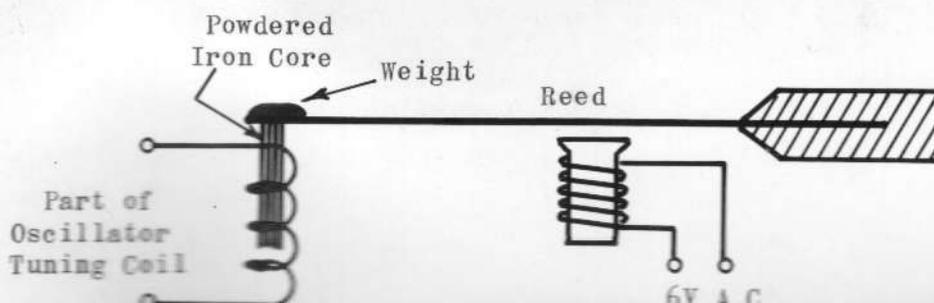
Suitable for use in Subtractive Synthesis. Filters in Group A require Square Wave input, while those in Group B require a Sawtooth Waveform.

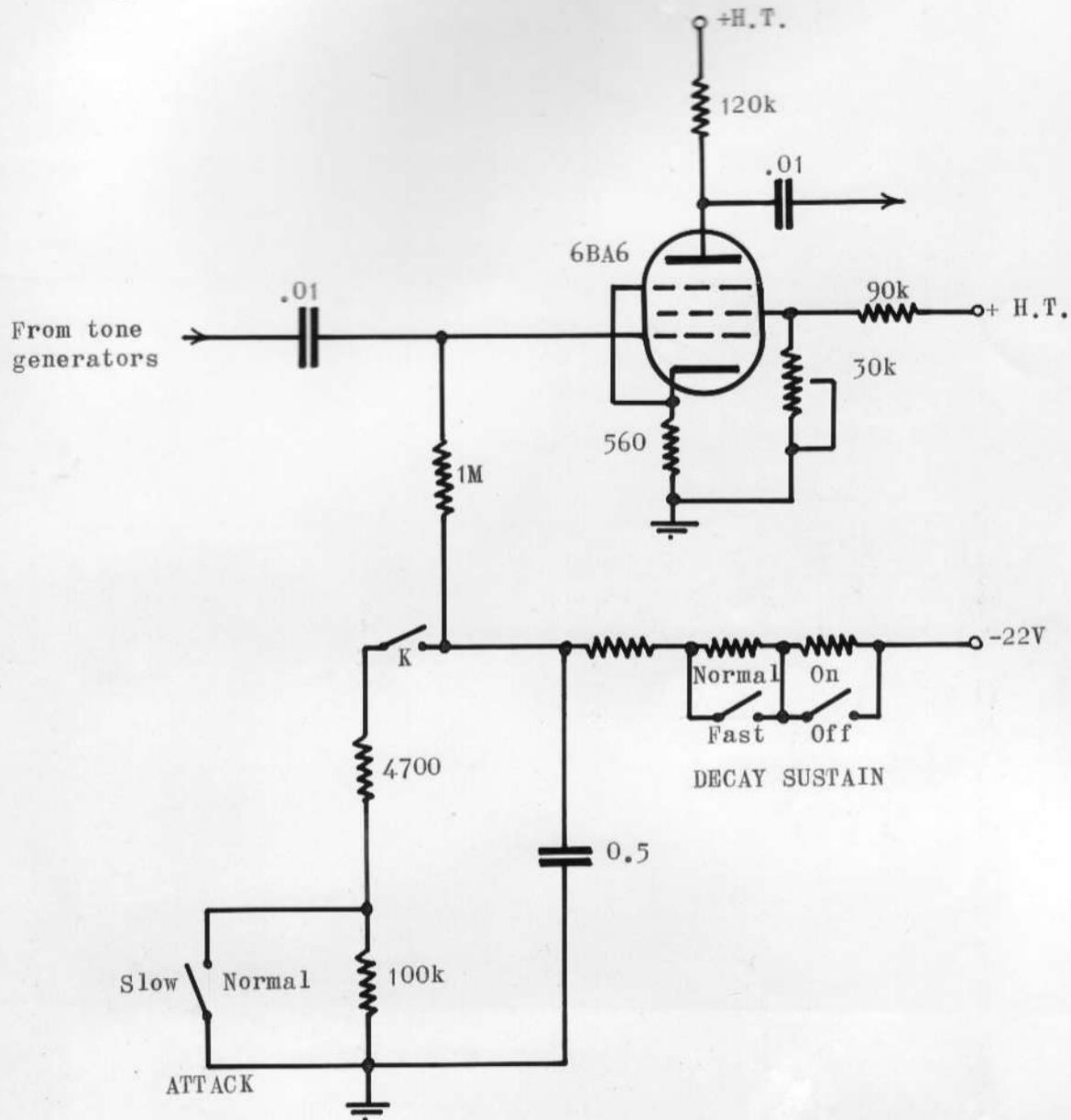


c. PHASE SHIFT VIBRATO OSCILLATOR



b. CONN TREMULANT

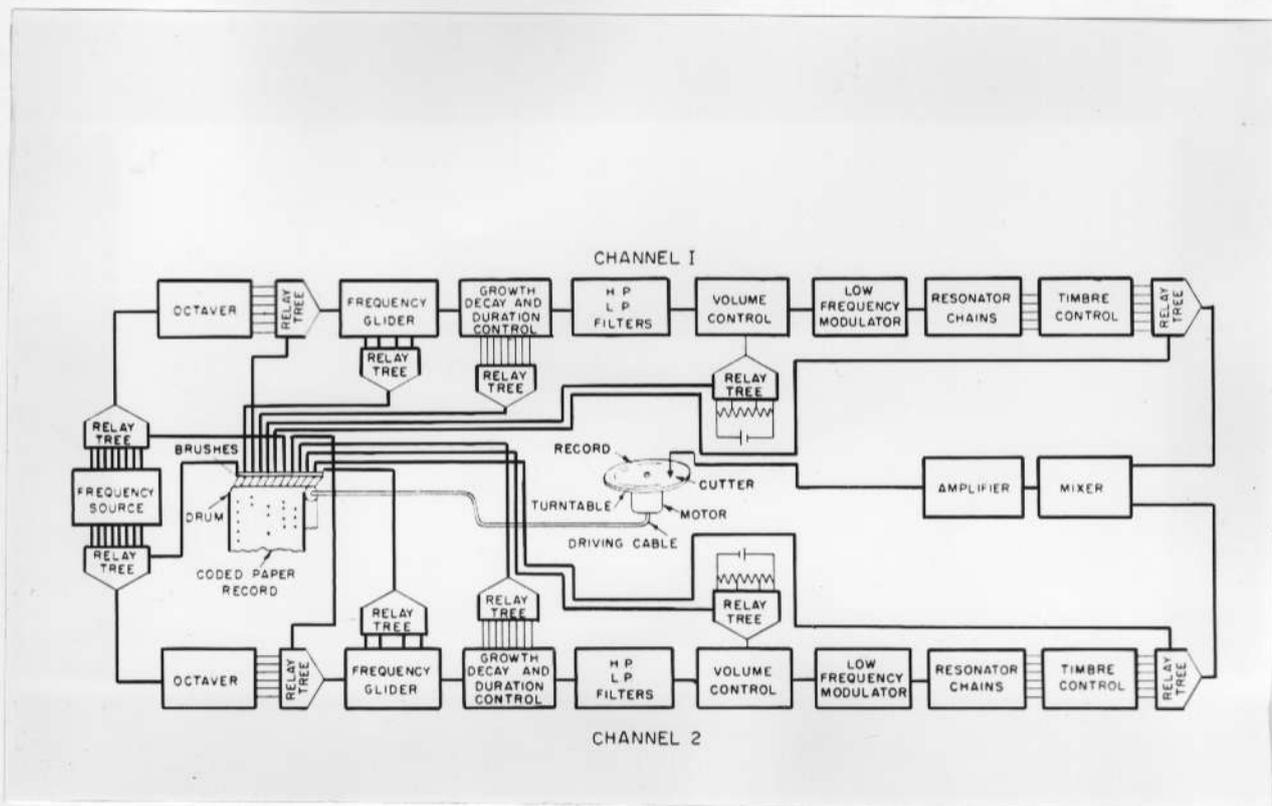




PROVISION OF PERCUSSION

for continuously sounding generators, by controlling the growth and decay of a paralysing bias on the control valve. These functions can be controlled by switches.

FIG. 18



R.C.A. SYNTHESIZER SCHEMATIC DIAGRAM

Showing how the Two Channels are supplied from One Frequency Source and controlled by a Coded Paper Record.

FIG. 19