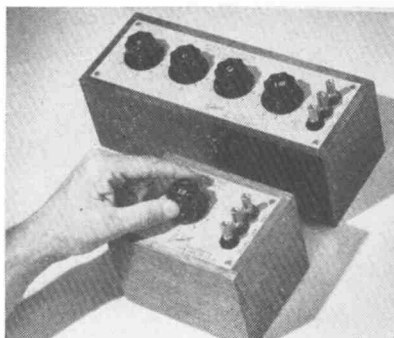
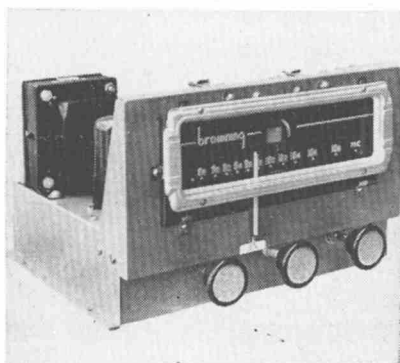


variations of  $\pm 10$  percent. Modifications can be made for use on other power frequencies and for other voltage and power requirements.



### Decade Inductors

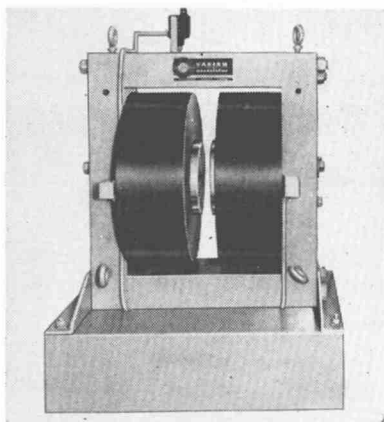
LENKURT ELECTRIC Co., 1113 County Road, San Carlos, Calif. Decade inductors are now available with inductance values guaranteed to within one percent. Four individual units cover the ranges from 1 to 10 mh, 10 to 100 mh, 100 mh to 1 h and 1 to 10 h. All four units are also available as a single unit to cover the complete range from 1 mh to 10 h. Design and construction details make these decades ideal for laboratory use. Moisture-resistant impregnated inductors are wound on molybdenum permalloy toroidal cores for high Q and low external pickup. Each decade has complete electrostatic shielding. Full rotary switches for selecting inductance values have low contact resistance, laminated self-wiping contacts and positive detents.



### F-M Tuner

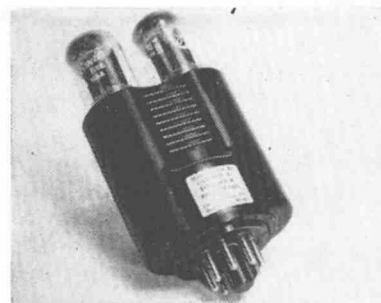
BROWNING LABORATORIES, INC., 750 Main St., Winchester, Mass. Model RV-31 f-m tuner features an all

triode r-f section and follows the Armstrong receiving method with dual cascade limiters for most effective noise quieting. Input signals of 3  $\mu$ v will produce 20 db of quieting. The afc locks the local oscillator into correct tuning and may be switched off if desired. A selector switch permits f-m, phono, tv or recorder playback to be fed through the tuner volume control to the main amplifier. Full 15 kc audio output is fed through a cathode follower output stage at very low distortion; less than 0.25 percent at 25 kc modulation swings. Long cable runs are possible at the low impedance output without affecting high-frequency response.



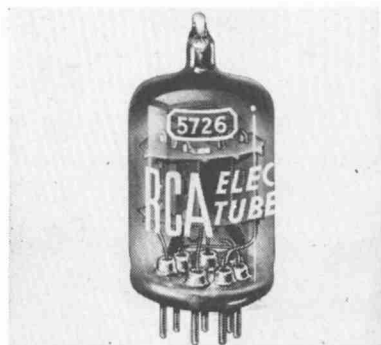
### Research Magnet

VARIAN ASSOCIATES, 905 Varian St., San Carlos, Calif. Magnetic fields as high as 40,000 gauss, or lower fields with extremely high uniformity are provided by the model V-4012 research magnet. Applications include nuclear and paramagnetic-resonance work, Zeeman studies, and other research projects where relatively high volumes of high-homogeneity magnetic field are required. Under the standard arrangement with pole caps of 12-in. diameter and air gap of  $1\frac{1}{4}$  in. a magnetic field is produced which is uniform to one part in 50,000 throughout a cu in. volume of air gap. Maximum air gap of  $5\frac{1}{4}$  in. is possible. For high-field studies tapered pole caps are substituted for the conventional flat ones. Having dimensions  $41\frac{1}{2} \times 36 \times 52\frac{1}{2}$  in. high, the magnet weighs approximately 5,600 lb.



### High-Gain D-C Amplifier

GEORGE A. PHILBRICK RESEARCHES, INC., 230 Congress St., Boston 10, Mass. Model K2-W is a general-purpose high-gain d-c amplifier of modular construction, offering stability and fidelity for operational service in feedback computing systems of every speed. A low output impedance is automatically maintained whether or not feedback is applied. The inputs are high-impedance and differential, permitting gains of either sign up to 15,000. The power requirements are unusually low; 5 ma at  $\pm 300$  v d-c, and heater power for a pair of 12AX7 double triodes.



### Twin Diode

RADIO CORP. OF AMERICA, Harrison, N. J. The 5726 is a high-perveance, miniature twin diode especially useful as a detector in circuits utilizing wide-band amplifiers. Constructed to give dependable performance under shock and vibration, it is particularly suited for use in mobile and aircraft equipment. The two, sturdy, coiled heaters used in the tube are internally connected in series to provide fail-safe operation in applications which require that burnout of either heater will make the heaters of both units simultaneously inoperative. These heaters employ pure tungsten