

The price of the "1954 Monarch" is £16 10s 3d (including tax), and the makers are Birmingham Sound Reproducers, Claremont Street, Old Hill, Staffs.

### New Loudspeaker Enclosure

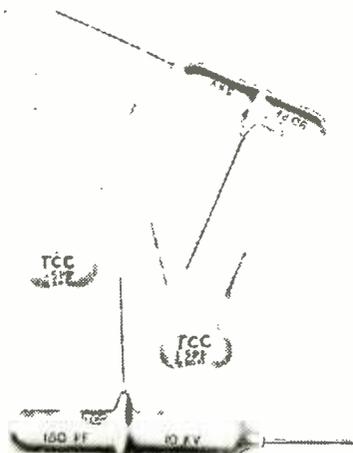
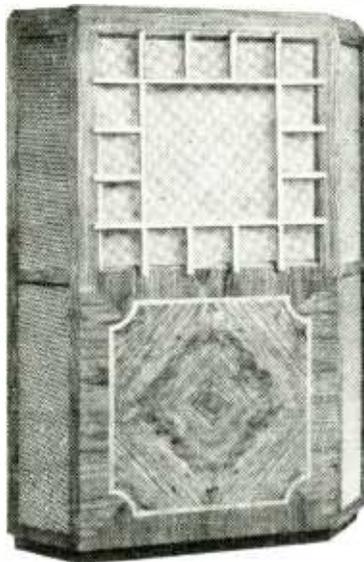
IN order that the full potentialities of the Dual Concentric loudspeaker unit may be realized, Tannoy have recently developed a new enclosure which provides horn loading throughout the frequency range. Hitherto the horn principle has been applied only above 1,000 c/s, but now the front of the large cone is loaded by a short horn with a flare efficient down to 200 c/s, while the back of the diaphragm is coupled to a larger folded horn covering frequencies from 200 c/s downwards. Radiation above 200 c/s from this larger horn is deliberately restricted by absorption at the discontinuities in the direction of the emerging sound.

The result is twofold: there is a noticeably "tight" control of transients and freedom from excitation of cavity resonances, often apparent in vented enclosures; and there is an effect of spaciousness consequent on the increase of source area. Since frequencies above 200 c/s are radiated from the single central source, there is no incongruity when speech or solo voices are being reproduced.

A 15-inch Dual Concentric unit is used, and this has now been re-designed for ease of dismantling and is fitted with a new phenolic-resin impregnated corrugated centring device. Plug-in connections are provided for the cross-over filter unit.

The makers are Tannoy Products, Norwood Road, West Norwood, London, S.E.27.

Tannoy "expanding source" enclosure for the Dual Concentric loudspeaker.



T.C.C. high-voltage tubular and small capacitance tubular capacitors, both are ceramic types.

receivers. These are tubular ceramics also but with one axial wire and one centrally wrapped connecting wire.

Working voltages range from 1 kV to 10 kV and capacitances from 50 pF to 620 pF according to type and voltage rating. The largest capacitance for 10-kV working is 180 pF and for 1-kV 620 pF. They are quite small considering the high working voltages, a 250-pF, 3.5-kV capacitor, for example, measuring 1 in long and  $\frac{1}{8}$  in diameter.

### Redesigned Record Changer

WHILE retaining the essentially simple and reliable design of the earlier mechanism, and its quick-changing characteristics, the latest version of the "Monarch" three-speed changer has been given a more attractive appearance. The pickup pivot and corner trip mechanisms are now housed in a single "streamlined" moulding, and an ivory finish is standardized.

More important from the technical point of view, the record release arm has been reshaped and is now made in Perspex instead of metal to give more silent operation. The pickup arm has also been reshaped to give better accessibility to the centralized control knob.

Redesigned "Monarch" three-speed record changer.



# SOUND

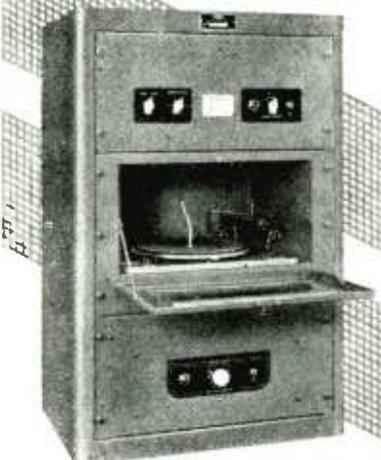
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