

Increase of plate voltage always requires a suitable increase of bias voltage, which should be carefully adjusted. By shifting the point A towards the left and applying higher bias voltage, the signal alternations may have a greater amplitude, which is equivalent to more volume without causing distortion. When the alter-

Constructor's Suggestions

IN changing to parallel feed on my four-valve BD, writes Mr. Wm. Seddon, I found I could increase the primary by at least five and still maintain stability. Also the increase gives a decided increase in amplification though tuning is flattened slightly. I also found that by inserting an earthed copper screen between the aerial coil, condenser, RF valve and the RF transformer that reception was very much clearer. No doubt this is brought about by stopping any coupling between aerial coil and RF transformer. This screening I find much better than totally enclosing the separate stages in screening boxes, as these produce a serious damping or loss of signal strength.

Do you think it possible to make use of screens only between the three stages in the 2RF, BD instead of copper boxes and do away with the losses incurred by enclosing each stage? Would it be possible to maintain stability by the suggested plan?

[Most unlikely, feed-back and interaction would cause instability.—Technical Editor.]

Now a word praising the really first-class service put across by the R.B.C. I think, and I am not alone in asserting that no sane person could find fault with such a system of entertainment. It is very entertaining reading some of the "growlers" remarks in "Radio Record." It makes one wonder just how much, or what, some people really do want for their license-fee.

Burnt-out Transformers

HERE is a tip that may be of value when the primary of a transformer burns out at an inconvenient moment.

Join a wire on to each of the primary terminals "B positive" and "P," and put these in a vessel containing weak salt solution. The transformer should then act more or less satisfactorily until it can be replaced.

Home-made "B" Battery

A CONSTRUCTOR has advised us of an improvement to the home-made B battery described by "Megohm." Instead of attempting to form his own plates, he has procured plates measuring $5\frac{1}{2} \times 5$ which have been already formed. These were cut into strips each half an inch, and suspended in the test tubes as was originally described. The positive of one has been connected to the negative of another by a pure-lead telephone wire covering. On the top of each test tube he has placed a thin covering of light oil.

Peridyne Coils

A SHORT time ago, a correspondent, H.H.E., asked for details of the Peridyne coils. We have received two letters in reply, and in this connection, H.H.E. is asked to communicate with A. G. Baine, Harbour View Road, St. Heliers, Auckland, who has a set of these coils he wishes to dispose of. He will give him full particulars if he prefers to make them for himself.

In this connection another correspondent, "141" (Auckland) states that he has made a set with copper cans, the coils of which are mounted on celluloid. He adds: "Unless one has plenty of patience, I would not advise them to attempt construction. I experienced

great trouble at first, but now results are great."

Peridyne coils have been fully described in the "Radio News" Amateur Handbook, Volume 5, pages 15 and 16.

Useful Tips

GRID choking is generally due to a faulty grid leak or to a faulty connection in the grid return circuit.

THE plates of an accumulator should not be exposed to the air.

BATTERY leads should always be regarded as potentially dangerous, and should therefore be of sound wire and of adequate size and strength.

RADIO DIRECTORY

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