

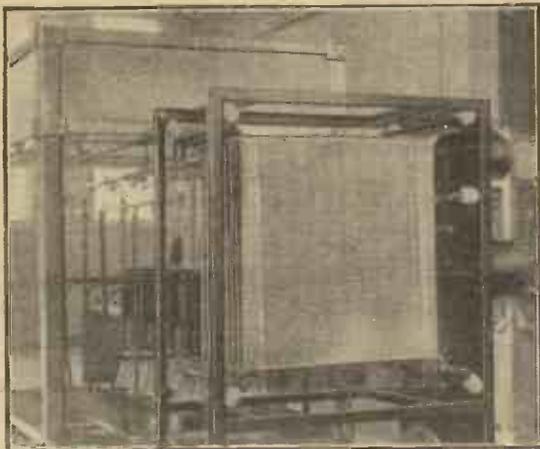
# DAVENTRY: Official Opening, July 27, 1925

NEXT Monday, Daventry, the new high-power station of the B.B.C., will be opened by Sir W. Mitchell-Thomson, the Postmaster-General. This station (which takes the place of the present 5XX at Chelmsford) will be of great importance to the amateur owing to its position and high

power, and its inauguration is looked to with very considerable interest throughout the country. Daventry, of course, appeals particularly to the crystal-set user, and it is calculated that, whereas about 78 per cent. of the population of the British Isles are now within crystal range of one station or another, the power and unique position of this newest station will bring this figure up to 90 per cent. The valve user will also benefit, especially those in remote districts, who will thus be provided with another station which will yield loud-speaker results.

instrument room, battery room, amplifier room, and two offices.

The power of the station will be 25 kilowatts to the oscillator, the wavelength 1,600 metres, and call-sign, 5XX, are the same as of Chelmsford.



High-frequency Choke.

Rapid progress is being made in the testing and final arrangements of the apparatus. The following are a few additional details to those which we have given in previous issues.

### Masts

The masts are of the triangular

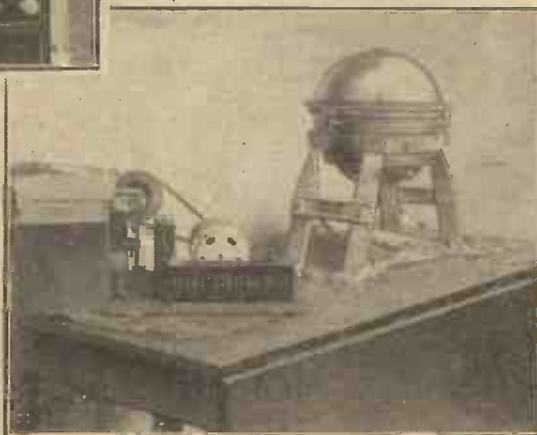
### TEMPORARY PANELS

It sometimes happens that one wishes to test the efficiency of a circuit before building up a set permanently, and as this test entails perfect insulation, nothing is available but ebonite for the panel. Ebonite panels are expensive, however, and the writer surmounts the difficulty in the following manner.

Most wireless shops cut panels to size for customers, and in the course of a few weeks accumulate a large quantity of strips which they are glad to let their customers have at a nominal price.

The writer constructs these into a panel by screwing them on to two pieces of hard wood 1/2 in. by 3/4 in. by, say, 12 in., or according to the size of the panel required, the strips being fastened across as the rungs of a ladder, being spaced according to requirements.

A firm job results if the wider pieces are fastened by two screws at each end. For the narrower ones,



Electric Lamp for Top of Mast.

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### "LOCATING FAULTS IN THE SUPER-HET" (continued from preceding page)

If the test yields no result the faulty amplifier can be found by connecting the point F to the respective grids (hence the temporary connection); note that the filaments of the amplifiers not in use during this test should be switched off.

It is a good idea to connect the wire ends at points A, B, C, D, etc., to valve legs, then the temporary connections can be made by means of lengths of flex with valve pins attached to the extremities. Suitable tests for components of a faulty unit have been described thoroughly in this journal and need no reference here.

When every fault has been eradicated the omitted connections can be made and the set tried out complete. As the settings of the variable condensers are known approximately, the reception of the local station should be accomplished with greater facility.

Values of components should not necessarily be adjusted so that each unit functions most efficiently alone. For instance, the grid leak in the first detector must be of a lower value than is required for good rectification, so that the valve is worked on the lower bend of the characteristic curve, which is necessary to produce a fundamental rich in harmonics. B. H.

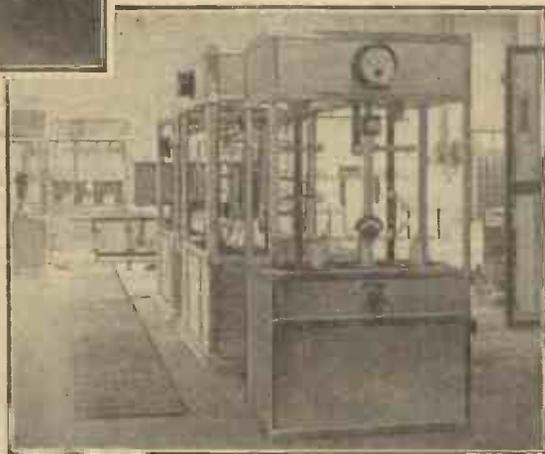
steel-latticed type and are 500 ft. high. Each mast is fitted with a warning light to aircraft at the top. The earth system consists of a ring of zinc plates, 200 ft. in diameter, with the power-house as a centre. Radial wires stretch from the power-house to these plates, and are connected to a common ring near the aerial lead-in. There is, in addition, a buried earth underneath the power-house itself, to which will be earthed the frames of the machines and the transmitting plant.

The aerial is of the T type, the top span of which is 600 ft. long, and the vertical length is approximately 450 ft. There will be six wires in the aerial, spaced by hoops 6 in. in diameter.

The power-house and offices are combined in one brick building. The wireless room is the largest room of all, and in addition there are a small test studio,

of course, one screw at each end will hold the strip quite securely in position.

C. B.



Sub-control Panel Modulator.

The Mayor of Deptford has undertaken to raise money to equip with wireless all the beds in the Miller General Hospital, which does such a great work in south-east London.