

A Portable Speaker**Use with "Tramper's Two"**

OWING to the smallness of the Tramper's Two and the desirability of having a light, efficient speaker which can be used with both portable and ordinary receivers, there is a demand for a portable cabinet speaker. No doubt there are a number of enthusiasts who would rather use the small cabinet speakers, e.g., the Am-

cone speaker construction, and his remarks need little adaptation in order that the builder may construct a portable speaker. A robust cabinet is of primary necessity and the accompanying diagram shows a suitable form this may take. Reference to the section of "Megohm's" article dealing with baffle board speakers discloses the fact that the cone should be about 8 inches in diameter and should be attached to the baffle by thin chamfers or other suitable material. These remarks can be applied to the construction of a suitable cabinet speaker.

To accommodate a suitable speaker the dimensions of the case should not be less than 14 x 14 x 10½. The first task is the construction of the cone, for which a circle of 9 inches diameter should be inscribed on a piece of suitable material. Cut out the circle and cut a wedge-shaped section of 50 degrees or one-seventh of the circumference. Join with seccotine. The size of the cone will be about 7½ inches diameter, so that the opening should be about 8 inches. The front piece will be 14 x 14. The cone should be attached as described by "Megohm" in last week's article. The sides, top and bottom should now be fitted. These are respectively 14 x 10½, and the sides are made to fit, their dimensions depending on the size of timber used. Dressed ½-inch is suitable, three-ply is a little too light for portable speakers.

Assemble the front with the cone, the top and the sides. Place the back in position and find where the adjusting screw is to be placed. Remove and drill and complete the assembly. Care must be exercised to see that the inner dimension for depth is not less than 10½, otherwise the cone will not fit. These dimensions have been given for the blue spot 66K units, though others are suitable. It may be necessary in cases such as these to alter the dimensions.

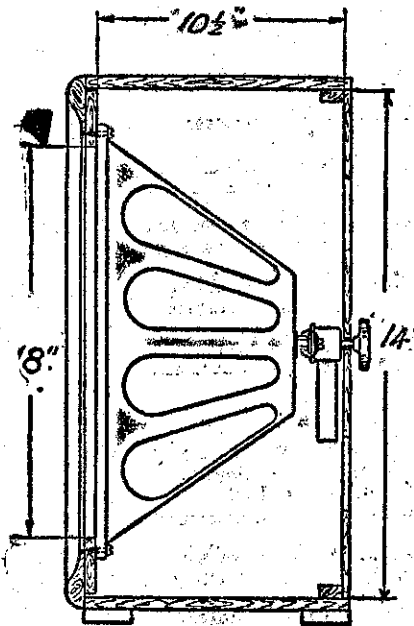


Diagram of the suggested cabinet. A chassis is depicted for it is advised that these will soon be available.

plion Cabinet, but those who wish to make only a small expenditure yet get quality will do well to construct a speaker like the one to be described.

A speaker that will accompany the tramper and the picnicker must be light but strong; it must, however, be able to take a fair amount of volume, especially if there are more than one to be amused. Dynamic cones are out of the question where there is not a car to supply the power for the field windings and as a means of transport. The speaker then must be a horn or a cone and between these the enthusiast must decide. A horn is very sensitive, but in very few cases robust, so that there is little else to choose from except the home-made and the purchased cabinet cone.

In an article in last week's issue "Megohm" outlines the essentials of

File Protection

IN the course of set construction it is often found necessary to file soft metal. It may be that aluminium vanes are being shaped for a home-made neutralising condenser, or one may be removing solder from tags or from the tips of terminals. Nothing is more damaging to a good file than to use it for this purpose, for the metal rapidly clogs it and spoils its keenness. This can be prevented if the file is first rubbed over with a piece of chalk, which partially fills the hollows and thus prevents clogging. The file may be quickly cleaned afterwards by means of a file card or a stiff wire brush.

Short-Wave

(Continued from page 32.)

week. Their carriers are nearly always to be heard at varying strength. A station on about 31.4 metres has been heard on Monday, Wednesday and Saturday mornings about 6 o'clock at good strength, but could not get a call. A correspondent says it is W2XAF.

On 34.6 metres (about) a weak foreign voice was heard on Friday morning. "Hullo, Berlin" was heard at intervals on about 21.2 metres on Thursday morning, this, with a few foreign words, was all that could be heard. At the same time (6 a.m. Thursday) an American voice was audible, about 25 per cent. readable, on about 20.3 metres.

International Broadcast**New European Relay System**

IN connection with the new Polish scheme for establishing a chain of high-powered stations throughout the country, it is interesting to learn that the contract obtained for this purpose by a well-known British radio manufacturing concern includes the provision not only of six new broadcasting installations, but also of very elaborate equipment of repeaters and correcting apparatus for landlines.

This apparatus will be installed to carry out important improvements in the scheme already in operation for the exchange of broadcast programmes between many European cities. This international exchange of programmes, which is now a regular feature of European broadcasts, has come into existence as the result of the activities of the newly-established International Commission for the Exchange of Broadcast Programmes.

Under the scheme a group of cities broadcasts simultaneously at intervals a high-class musical programme, such as a Viennese opera or philharmonic concert, provided by the members in rotation. Thus for each programme provided by one country it receives four programmes in return. By this means each country is able to spend more on its special programme than it would otherwise be able to do, and each country receives better broadcast entertainment as the result.

Record Short Wave Reception**Fifty-one Countries Received**

WITH reference to a paragraph headed "An Appeal from America" (in November 29 issue). I would like to state that I have succeeded in logging two U.S.A. amateurs on telephony on the 3500 k.c. band. The two heard were W6ABF, Pasadena, Calif., and W6BBJ, El Cerrito, Calif. The former was logged on 22:11:29, and the latter on 19:11:29. Both have been heard on several occasions since, and their call-signs heard distinctly. I have already written to both for confirmation.

I have also heard a 9th district amateur, but cannot get his call for certain. On this 3500 k.c. band I have heard 41 U.S.A. amateurs on morse. Each of the nine districts has been received. I have received ten acknowledgments so far, and they all seem very surprised that their signals are "reaching out" as far as New Zealand. My receiver is a home-built 4-valve, including 1 stage S.G. R.F. Below the 80 metre band the detector and audio stages only are used. To date I have logged 221 phone stations and 51 countries on morse. During the last fortnight I have heard two South African amateurs on morse—ZT6X, Johannesburg, and ZS4L, Bloemfontein.

At 12.20 a.m. on 18:11:29 a station was heard on telephony on 22 metres. Strength was R6, QSA4, modulation perfect. Musical numbers were heard, also a man counting 1-10 and reading from a newspaper. They were calling Marconi's yacht "Electra." At 12.30 a.m. they said they were closing down until 13.00 G.M.T., and gave the announcement, "Dorchester Radio, England." I wonder if any other listeners also heard this transmission.

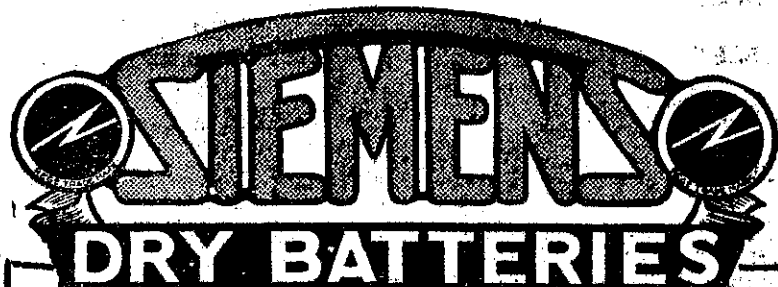
Another interesting station was heard here on 22:11:29 at 6 p.m.—3XAL, Bonndbrook, New Jersey. They are just a little above W9XF. They were broadcasting dance music for a short time, and after about ten minutes they gave the station call and asked for reports on their test transmission. Strength was R6 on speaker, and modulation excellent. They gave their frequency as 6100 k.c.—M. H. Churton (Auckland).

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