The holes will be 2in. apart.

how each coil is mounted by clamping with six holes. two pieces of ebonite, one on either side of the wire, and tightening up by the are used to fix the base to the wooden THE lay-out diagram gives the gene-

ake the tapped portion of each pin. the same way and then turn to the lugs to provide contact. Reference to the diagram will show suring 6% in. by 2 in., has to be drilled the most difficult part finished.

Two, half an inch from each end,

Components for "Round-the-World" Two

- 1 Variable condenser (low loss .0002 m.f.d.).
- 1 Variable condenser, .07035 m.f.d.
- 2 Fixed condensers, .0002 with leak, 7 meg. and .0003 m.f.d.
- 2 Anti-microphonic valve sockets.
- 1 15-30 ohm Rheostat.
- 1 Audio transformer (1.5 ratio).
- 2 Verner dials. 1 Midget neutralising condenser. Panel and baseboard.
- 1 doz. Terminals.
- 18 guage enamelled or timed copper wire,
- 1 Amperite.
- 44 Valve pins and sockets. Ebonite strips, etc.

toran presumental appresidente a la completa de la

pins at each end. Two small soldering baseboard. The two in the centre are lugs fixed underneath each nut provides [in. apart with the remaining two, 2in. a means of connecting the coil to the or either side. In the four inside holes D pins. Mount each of the five coils in screw the valve sockets, with soldering

RADIO DIRECTORY

What to Buy and Where

ALTONA & HAMMARLUND. Johns, Ltd.
Chancery Street, Auckland. ROBERTS SETS.

ATWATER-KENT RADIO .. Frank Wiseman, Ltd.

170-172 Queen Street, Auckland.

BREMER TULLY RADIO Superadio, Ltd.,

147 Queen Street. Auckland.

BURGESS RADIO BATTERIES, All Radio Dealers.

CROSLEY RADIO

Abel, Smeeton, Ltd., 27-29 Customs St. E., Auckland.

CROSLEY SETS

Lewis Eady, Ltd., Queen Street. Auckland.

DOMESTIC VACUUM AND Radio Suppliers, RADIO CO., LTD. Strand Arcade, Auckland,

FERRANTI RADIO COM-

A. D. Riley and Co., Ltd. Anzac

PONENTS

Ave., Auckland, and all leading dealers.

GREBE RADIO Howie's,
Dilworth Building, Custom st., Auckland

MULLARD VALVES All Radio Dealers.

PREST-O-LITE. Car and Radio L. J. Purdie & Co., Ltd.

97 Dixon Street Wellington

Battery Service

Experi Radiola Service.

RADIOLA RECEIVERS and Farmers' Trading Co., Ltd., Hobson Street Auckland.

T.C.C. CONDENSERS

A. D. Riley and Co., Ltd. Anzac Ave. Auckland, and all leading dealers.

COUNTRY TOWNS

CROSLEY RADIO J. C. Davidson.

CROSLEY SETS F. H. Jellyman, Ltd., Devon Street, New Plymouth.

CROSLEY RADIO D. A. Morrison & Co., Victoria Avenue, Wanganui

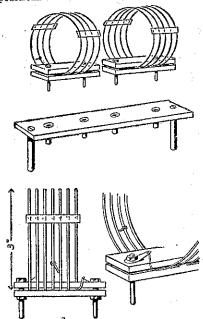
PHILIPS VALVES AND

APPARATUS All Good Radio Dealers.

base. A strip of 3-16in, ebonite mea- pletes the coils and mounting and is

The Lay-Out.

ral arrangement and the relative positions of the various components.



One word on the RF choke. This has to be one designed for short-wave work and if the constructor wishes to make one himself the following will be helpful. A glass test tube, known to chemists as a "boiling tube," can be used.

This com- A tight fitting cork can be inverted and screwed to the baseboard, so that when the boiling tube is wound it can be placed over the cork. Wind with 100 turns of No. 32 DCC wire and space with cotton or fine string. After taking off the spacing give a coat of thin cellu-loid solution. Fasten each end of the wire with cotton until the solution has dried out.

It will be seen that a switch has been mounted at the rear of the baseboard. If a cabinet is to be used, this switch could be fastened to the front panel with no alteration to the existing wiring beyond an extension of the connections to the switch. If antimicrophonic valve sockets are not used on both valves, the detector is the most sensitive and one on this position is advised.

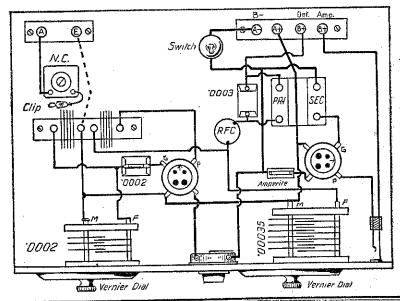
The six terminals are mounted on two strips, one containing two and the other four terminals.

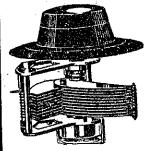
Wiring Up.

IN wiring up run all grid and plate wires direct to their destination, disregarding all thoughts of the finished appearance. Right angle bends have been indicated for the sake of clearness. The small condenser behind the soil is a series aerial condenser, and can be in the form of one of the many neutralising condensers on the market. The length of flexible wire to one side of this condenser is used for a variable aerial tapping on the grid coil, and a small projecting tag will have to be soldered to the centre turn of each coil. This is indicated in the diagram.

No difficulties should arise in wiring up, and by referring to the theoretical and lay-out diagram the beginner will get an idea of the meaning of these

theoretical diagrams.





Grid Leaks

Fit these Variable Condensers into your Receiver. The 200-to-1 Ratio Vernier will bring in Stations not heard before.

.0003, .0005 Complete with Dial 15/-.0001 Midget, each

E. STRANGE

404 WORCESTER ST., CHRISTCHURCH