

phone and radio receiver will prove interesting to intending purchasers of electric receivers.

Stand No. 4.

HARTLE AND GRAY.

IN accordance with their policy of catering for the home constructor, a large portion of this stand is devoted to components. Practically every British maker of radio goods is represented. In addition to the ordinary components, there will be a moving coil kit set of the Baker pattern. This will very much interest the amateur constructor, who considers that the construction of a moving coil loudspeaker is a task beyond his capabilities. The Battery of the London Battery Company provide a novelty in the unit construction of B batteries. Other novelty lines include loud-speaking telephones, a complete experimental radio vision equipment, power equipment for public address work, and microphones. The radio vision should evoke much interest, as this will be the first time that the public will be able to see this apparatus.

The sets include the All-Electric Five, a British product, which has one stage of screen grid radio frequency. This set operates without an aerial. A combination radio set and gramophone is also provided.

In the battery operated sets the All Purpose Four provides a very fine example of good work in small space. This set is designed to cover all frequencies, and being small, is readily transportable.

Other sets will include many popular smaller models, well known to the radio public, and of undoubted in-

terest to those who are contemplating taking their first plunge in radio.

Stand No. 5.

PHILIPS LAMPS (N.Z.), LTD.

A NOVEL title has been selected for this stand—the name will be built entirely of Philips valves, defective ones that we are assured that all New Zealand had to be raked to secure enough. One of the new Philips products for the season is the A.C. 333. This simple, but efficient, wireless receiver is the newest innovation of its kind. That it is already very well known and well patronised in Australia bespeaks its quality. This receiver using the new Philips A.C. valves gives wonderful reproduction from a strong station, and visitors should not leave the Exhibition without first seeing this compact little set, and making inquiries about it. There are other kit sets, including the latest four-valve version. This new model will be sure to win the approval of the home constructor who wants a good set for a small outlay. There will be also the QPAC receiver for local reception. This operates without aerial or earth. Philips valves, speakers, condensers, transformers, and gramophone pick-ups will also be on view. New models of these have been brought out recently and will no doubt appeal to all who are competent to judge radio components.

Stand No. 6.

HARRINGTONS, LIMITED.

RELIABLE power-packs can now be obtained for furnishing all current required in all-electric receivers, and those who wish to construct their

own will be interested in the demonstration of Pilot power-packs. The power-pack consists of three distinct units, the transformer, condenser block, and a double choke. All three units are very compact, each being approximately 5½ inches high, 5 inches long, and 3 inches wide. All three are mounted in substantial steel cases, and all connections brought out to moulded bakelite connections. The transformer block incorporates five secondary windings for both filament and power supply. The former are provided with centre taps, so that the necessary "C" bias voltages can be obtained by taking the voltage block across the fixed resistors connected between the centre taps and the grid returns of the amplifying transformers. The transformer has sufficient carrying capacity to supply the requirements for five or six UX222 valves, three 227's, and two 171's. The high voltage will supply 60 milliamperes at 20 volts.

The Pilot Super-Wasp kit, which may be assembled by any amateur, covers both short-wave and broadcast band. It is claimed that this receiver does not suffer from any of the usual defects of either home-made or second-grade kit sets. The circuit incorporates a stage of radio tuned frequency, an automatic aerial change-over, a 222 screen-grid valve, a 201A detector, and a 171A in the last stage. The stronger short-wave stations may be heard on the loudspeaker.

Both these exhibits will, no doubt, be of great interest to the amateur constructor.

Stand No. 7.

"RADIO RECORD."

AT the time of going to press we are unable to give full particulars of our activities in the exhibition. We are hoping to have on show several of the popular models that have appeared in our paper and which will appear in our handbook, "All About the All-Electric." There will be available supplies of this publication, the "Listeners' Guide," and the "Radio Record." The technical editor will be present, and will be pleased to discuss any problems the visitors might have encountered. He also wishes to make the acquaintance of his many pen-friends.

Stands Nos. 8 and 9.

SUPERADIO LIMITED.

SUPERADIO have for some considerable time been the agents for the Dayton Receivers, and they take the opportunity of the exhibition to introduce the new A.C. Dayton "Navigator A.C. Receiver." The complete assembled unit is of the conventional Console design. The circuit calls for a few comments. It utilises the new Technidyne system of free selection, wherein the energy from the station being received is completely filtered and selected before amplification of any kind takes place. By this method extraneous noises are reduced to a minimum, while selectivity is greatly enhanced. The new method of detection (called Power Detection) enables the circuit to obtain an output from the detector equal to an ordinary detector and one stage of audio in the ordinary circuit. The output from this is fed directly into a push-pull stage, utilising the new 245 type of valves, together with an espec-

ally designed 11-inch dynamic cone. All A.C. hum is eliminated.

The dial is calibrated in both numerals and kilocycles. Connections are provided on all models for gramophone pick-up. There are three main divisions in the circuit: the selector, the amplifier, and the power unit. Directly behind the tuner are the shields carrying the tuning coils, and behind these is the amplifier unit, containing the five radio frequency amplifying valves (all 227's), and the detector. There is only one connection between the amplifier and the selector, which can be very quickly removed, and which will thus facilitate service. Rectification is carried out by a single 280. The valve sockets are coloured, so that a mistake cannot be made when fitting new valves.

In addition, Superadio will be exhibiting other well-known products, including Magnetic and Dynamic Speakers, Batteries, Eliminators, Valves, etc.

Stand No. 10.

BOND AND BOND.

TWO distinct types of radio receiver are marketed by Bond and Bond, and these will be represented in the exhibition by the latest models. Great emphasis will be placed upon the new Silver Radio. This is the latest product of the Silver-Marshall firm. It comes to New Zealand in two distinct units; the chassis and the cabinet. By packing them separate by the manufacturers claim that damage to the receiver is impossible. The cabinet follows the usual lines of the modern receiver, and is distinct in two models, the Highboy and the Lowboy. Several unique features are claimed for the Silver Radio. It is sharply selective, and is yet very sensitive. Electrically the receiver consists of three stages of radio-frequency amplification, using A.C. screen-grid valves (Ceco). The detector embodies the very latest system of screen grid power detection. The following audio valve is resistance coupled to this detector. Following this is a pair of 245's in push-pull. The stages are connected by a 1-to-1 transformer. The power unit supplies A, B and C power is self-contained within the set, and consists of the usual transformers and filters. The first R.F. valve is coupled to the second through a tune stage consisting of two separately tuned circuits. This produces a "humped" resonance curve of extremely steep sides and broad tops. Four ganged condensers tune the secondaries of the radio-frequency transformers.

The sensitivity of this receiver is such that Australian stations can be tuned in by using a piece of perforated metal as an antennae.

Apex receivers and speakers will be exhibited, and will command the attention of those who are looking for a small, yet powerful, receiver.

Stand No. 11.

J. WISEMAN & SON.

J. WISEMAN AND SON have made their reputation in New Zealand radio world by designing and marketing the now famous Courier Radio Receivers. The first Courier was a small D.C. set, introduced over 18 months ago. This was remarkably successful, and Messrs. Wiseman followed up their success in this line by others which have in turn earned great fame. The set of last season was the QB3, a popular three-valve set, which was capable of bringing in all the usual sta-

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