

# RADIO DIRECTORY

## What to Buy and Where

### CITIES

- AERIAL MASTS** ..... Domestic Radio Co., Ltd.,  
300 Queen Street, Auckland.
- ALTONA & HAMMARLUND-ROBERTS SETS.** Johns, Ltd.  
Chancery Street, Auckland.
- AMPLION LOUDSPEAKERS** . All Radio Dealers.
- BURGESS RADIO BATTERIES,** All Radio Dealers.
- CROSLEY RADIO RECEIVERS** G. G. Macquarrie, Ltd.,  
120 Willis Street, Wellington.
- CROSLEY RADIO** ..... Abel, Smeeton, Ltd. Rep.: G. MOSES  
James Street, Mangarei.
- CROSLEY RADIO** ..... Abel, Smeeton, Ltd.,  
27-29 Customs St. E., Auckland.
- EMMCO RADIO PRODUCTS** Johns, Ltd.,  
Chancery St., Auckland.
- EMMCO RADIO PRODUCTS** Thos. Ballinger & Co., Ltd.,  
Victoria St., Wellington.
- EMMCO RADIO PRODUCTS** L. B. Scott, Ltd.,  
Worcester St., Christchurch.
- KING RADIO RECEIVERS** ... F. J. W. Fear & Co.,  
63 Willis Street, Wellington.
- MAJESTIC RADIO RECEIVERS** Kirkcaldie & Stains,  
Chief Wellington Agents, Lambton Quay.
- MULLARD VALVES** ..... All Radio Dealers.
- PILOT 1930 PARTS AND KITS, ETC.** ..... Abel, Smeeton, Ltd.,  
27-29 Customs Street East, Auckland.
- PILOT 1930 PARTS—PILOT SUPER WASP KITS, GILFILLAN, KELLOGG and ATWATER KENT SETS** ..... Harrington's, N.Z., Ltd.,  
138-140 Queen St., Auckland.  
40-42 Willis St., Wellington.
- RADIOLA RECEIVERS and Expert Radiola Service.** Farmers' Trading Co., Ltd.,  
Hobson Street, Auckland.

### COUNTRY TOWNS

- CROSLEY RADIO** ..... J. C. Davidson,  
Main Street, Pahiataua.
- CROSLEY SETS** ..... Abel, Smeeton, Ltd. Rep.: G. RUSCOE,  
409 Devon Street, New Plymouth.
- CROSLEY RADIO** ..... D. A. Morrison & Co.,  
Victoria Avenue, Wanganui.
- MAJESTIC, ATWATER-KENT AND RADIOLA ELECTRIC SETS** Radio House, Hamilton.  
G. S. Anchor Manager.
- PHILIPS VALVES AND APPARATUS** All Good Radio Dealers.

# WHY?

Kingsford Smith uses Burgess Batteries. Commander Byrd uses Burgess. More Burgess Batteries are sold in New Zealand than any other make. Why?

# BURGESS RADIO BATTERIES

## Laboratory Jottings Foreign Verifications

### Wright Decoster Speakers.

WE have been able to test one of the Wright Decoster moving-coil speakers, and have been surprised at the splendid results that this speaker is capable of giving. The larger model which we tested was capable of taking 45 watts of undistorted power. Tried against our standard speaker with the same amount of power fed into both the difference was in favour of the Wright Decoster. This speaker, which is slightly dearer than the average moving-coil speaker, reproduces with equal intensity a considerably wider range of frequencies than does usually the ordinary dynamic. There is a brilliance about the upper registers, while the bass, though not over-accentuated, is full and clear. Each instrument comes out clearly. The tapping of the bass drum and the individual notes from wind instruments are in no way jumbled or muddled. There is a clear definition present only in the very best speakers. Furthermore, the percentage of electrical energy converted into sound energy is greater than is usual in speakers. We are advised from the New Zealand agents, J. A. Smyth and Co., that small home model speakers will be arriving shortly. The one we heard is for use with sound film equipment and similar installations.

### "Courtenay" A.C. Local Station Receiver.

WE have received from the Stewart Hardware Co., Ltd., one of the Courtenay A.C. local station receivers. This is a splendidly constructed little outfit, fitting into a neat metal case and complete with a single knob on the front for tuning. The set is very sensitive, and can be employed within a reasonable distance of the local station by using only a short length of indoor antenna, without an earth.

The tone of this little receiver is quite good, especially when it is considered that the very moderate price of £10 10s. is asked for it. Results were very pleasing from a cone speaker, for which the set is designed.

The remarkable feature of the set is its simplicity. One merely plugs into the light socket, attaches the speaker, connects up a piece of wire to act as an aerial, and the set goes. The tuning condenser knob sharpens up the signals and can tune them down if the set is too loud. A high outdoor aerial if very near the local station brings in signals that are rather too loud for the average room.

On removing the cover one sees a very neat lay-out. There is nothing shoddy or old-fashioned. The set comprises a crystal detector, and two 226 type amplifying valves with another one of the same type as rectifier. The voltage on the amplifying valves is about 65. We should estimate the lives of these valves to be about 12 months or even more, so that there would be little upkeep. The set costs very little to run, and is very much more economical than a similar battery set.

SCREW holes in a cabinet can be concealed by collecting the dust obtained when sand-papering, mixing this with secotine, and carefully filling the counter-sunk screw holes before staining.

MR. A. D. RODGERS (Newtown) has sent along verifications of French and German stations that he had received. The verification from the French station F8GC reads as follows:—We are pleased to receive by your letter of October 28 that you have heard perfectly our transmissions on short-waves; also we would be very pleased to hear from you concerning further broadcasts. We wish to inform you that we transmit on 60 and 370 metres from the same transmitter, on Monday, Wednesday, and Friday of each week from 21hrs. 30min. to 23hrs. (G.M.T.).

The verifications from the German stations DEH and Radio Königswusterhausen read: "The Government Post and Telegraph Office, 11/12/29. We learn from your report that you have heard the German world short-wave transmitter on a wavelength of 33.8 metres. This station generally works from 14.00 to 15.00, 16.30 to 19.30 and 20.00 to 00.30 daily, and occasionally till 01.30 C.E.T. (1hr. ahead of G.M.T.). The station chiefly relays the programmes of the German broadcast station on 16.35 metres, or the programmes from Berlin. The modulated R.F. power in the aerial is 8 kw. We would be grateful if you would send us an occasional report of your observations of your reception."

The next reads: "We acknowledge with great pleasure your friendly letter of October 28, and are pleased that the German short-wave station KTL was well received by you. We would be grateful if you would send us from time to time further reports on your reception. We have asked the C.P.O. to send you technical data of the station."

The letter from the Government radio station, containing this data, reads as follows: "We received your letter from the Government Radio Corporation and learn with great interest therefrom that you have heard the German short-wave station on 38 metres. This station was built by the Telefunken Company and has a voltage of 10,000. Its modulated R.F. power in the aerial is 8 kw. The aerial system consists of a splendid aerial and slopes from the transmitting room up to a mast 210 metres away and has a height of 75 metres. As an earth, the earth net of the German broadcast station is used." Then follow the details as to the transmission times which appeared in the first letter.

### W3XAL off the Air

MR. R. LESLIE JONES advises that W3XAL (short-wave station) prior to closing down Saturday last stated that it would be about three weeks off the air during reconstruction. There was to be a modification of the system, and alterations to the antenna system; these alterations, it was expected, would produce better transmission.

W3XAL engineers decided to make these alterations and adjustments after receiving many communications and comments from the large circle of listeners respecting transmission. Whilst there is no definite assurance of how long they would be off the air, it was hoped to be transmitting again in about three weeks. The station closed down at 3 minutes 50 seconds past 1 a.m. E.S. time, New Jersey. It was noticeable that there was a noisy hum and surging from W3XAL.