

WIRELESS WEEKLY

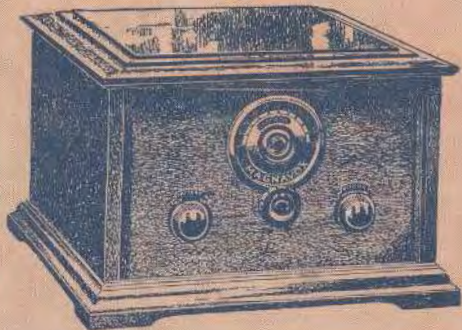
Registered at the G.P.O., Sydney, for

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VOL. 7. No. 18.

FRIDAY, FEBRUARY 26, 1926.

3^D



MAGNAVOX, 5-VALVE SET, SINGLE CONTROL.

"Widely Known for Quality—Tone"—Magnavox

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RECEPTION.



VOLUME CLARITY.



SELECTIVITY AND
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FEATURE

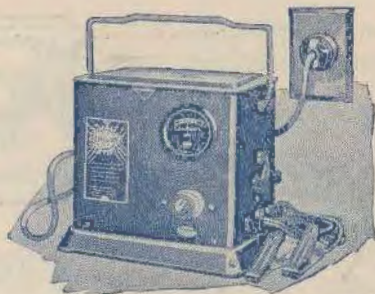
The
Morse Code
Lesson



CHARGE THEM OVERNIGHT IN YOUR OWN HOME.

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The New Improved
5 AMP. A & B . ➔
GOLD SEAL
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Keeps your Batteries Right!

OUTSTANDING FEATURES INCLUDE:—

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If you own a Gold Seal Homcharger you can rest assured that your batteries will be fully charged and on the job when you most require them. No more nights without radio because your battery is at the service station.

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Supertran 25/- each

Ratios $3\frac{1}{2}$ -1
5-1

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Type 51, 30/-

The Orthophonic Transformer.

Ratio, 5 to 1 only

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ALWAYS FRESH—ALWAYS RELIABLE EVER-READY RADIO BATTERIES

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ALL VOLTAGES. MANY TAPPINGS.

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Prices quoted apply only in N.S.W.

This is what Mr. C. MacLurcan, the radio authority, has to say of Ever-Ready radio Batteries:—

"I will be pleased if you will send me half a dozen more large size Ever-Ready 'B' Batteries. The last six which I obtained from you over seven months ago have been in continual use in my Wireless Station for various purposes, and five of them are still going strong.

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6 Ohm Remler Rheostat	1/9	Condenser, Fixed, .0005	9d.
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For prices refer to Wireless Weekly Advertisements



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BRANDES

THE NAME TO KNOW IN RADIO

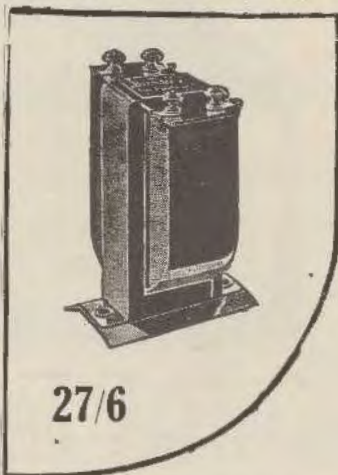


30/-
PAIR

BRANDES MATCHED TONE HEADPHONES

The whole secret of Matched Tone is that one receiver refuses to have any quarrel with its twin. Literally ear to ear, they see "eye to eye." Ably schooled in these generous sentiments by our specially erected Matched Tone apparatus, their synchronised effort discovers greater sensitivity and volume and truer tone. Get Brandes Matched Tone Headphones, and you'll know that there is no possibility of the sound from one earpiece being half a tone lower than its mate.

30/- pair.



27/6

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Ratio 1 to 5. The main objects in view are high amplification of applied voltage, together with a straight line amplification-frequency curve. That is to say, for a given input voltage, the amplification is constant over a wide band of frequencies, thus eliminating resonance. The inductance of the primary winding is much larger than usual, giving beautiful reproduction below 300 cycles per second. The unit is well protected mechanically and shielded so that the transformers may be placed close together without interaction. An ideal audio transformer.

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91-93 Courtenay Place, Wellington, N.Z.



Published by Publicity Press Ltd., 12/18 Regent St., Sydney, Australia.
 'Phones: Redfern 904 and 930.

Official Organ of the New South Wales Division of the Wireless Institute of Australia, with which are incorporated the Affiliated Radio Societies and the Australian Radio Relay League.

Managing Editor: E. C. MUMFORD.

Editor: A. W. WATT.

Technical Editor: O. W. SLADE.

Advertising Manager: J. T. REEDIE.

The Editor will be glad to consider Technical and Topical Articles of interest to Australian Experimenters. All Manuscripts and Illustrations are sent at the author's risk, and although the greatest care will be taken to return unsuitable matter (if accompanied by stamps), the Editor cannot accept responsibility for its safe return.

Subscription Rates.—Twelve months (52 issues), 13/-, post free. Six months (26 issues), 6/6, post free. Single Copies 3d. each, or post free 4d.

Advertising. Copy must be in the hands of the Managing Editor by the Friday preceding each issue. If copy is not received in time, the previous week's advertisement will be repeated.

"Questions and Answers." All requests by non-subscribers calling for technical advice or drawings MUST be accompanied by postal note or stamps to the value of 1/-: A maximum of four questions is allowed.

Agents in Great Britain—The Colonial Technical Press Ltd., Dudley House, Southampton Street, Strand, W.C. 2.

All accounts should be made payable to Publicity Press Ltd., 12/18 Regent Street, Sydney.

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TUNE IN TO 2WW.

"Were you listening in to our Morse lesson from 2WW on Tuesday evening, the 23rd? Were you satisfied that the first lesson was successful? Was it easy to follow?"

These are questions we want to put personally to every reader interested in learning the code. Upon the criticism and suggestions sent in by listeners we shall be able to base the subsequent course which we hope will enable our unseen students to extend their speed to twelve words per minute.

No doubt many of you are asking "What's the use of the Morse Code to me?" And a reasonable question too.

This hobby of wireless is one that goes far deeper than most people imagine—in fact it is one of the few clean, wholesome hobbies that really get a grip upon one so that in time the average man who starts off as a humble broadcast listener finds himself anxious to know more about the practical, as well as the theoretical side of wireless. To some this desire finds expression in a practical radio transmitter—and for them a knowledge of the Morse Code is essential.

Others get their pleasure out of building up

the various circuits described from time to time in radio periodicals. Thousands again realise that there is a vast field of entertainment for them to explore besides broadcasting—but it is closed to them simply because of their inability to read Morse signals.

For instance, night after night real thrills may be had in tuning in amateurs all over the world. Imagine the pleasure in listening to signals sent by amateurs in America, France, Japan, etc. Aside from these, the messages exchanged between ships and shore stations—there's the fascination of following the voyage of a steamer every night by wireless until finally it gets out of range.

Then again there are the innumerable high power commercial stations operating on both long and short waves all over the world. Tuning in and logging these stations one after another is a real pleasure. Reaching out like this gives one a better conception of the vastness of this tremendous world-wide wireless net.

In supplying the medium by which you may learn the code—the lessons from 2WW—we want you to take full advantage of them. The service is intended for you readers, so tune in to 2WW regularly.

A. W. WATT.

DOES THIS INTEREST YOU ?

The following appeared in "Sydney Morning Herald," 16/2/26:—

"A Mosman resident, who recently returned from a holiday 'out-back,' has written an interesting letter to Farmer's Broadcasting Service emphasising the value of wireless to those in the Far North-West. The letter states: 'I was staying for some months on Mr. Maurice Doyle's station, 'Werrina,' 70 miles from Moree, out towards the Queensland border. City dwellers have no idea what wireless means to the man on the land. The weather reports are of much importance, then stock reports, prices of sheep and cattle, to say nothing of racing news, and all other sporting items are eagerly waited for every morning. Mr. Doyle would sit down in front of his set, pencil and paper in hand, in case of wanting to take notes, and remain seated until the session had closed. If he had to go out on the station, someone else was told to get the news. Then the ringing up on the telephone to tell neighbours what had been given out would take place, and all would be most interested. After lunch the house party, which is always a large one, would adjourn to the wide verandah and listen to the afternoon's musical programme on the loud speaker. On Sunday evenings we all sat round and listened to the church service.'"

Mr. Doyle has a "BURGINPHONE," and every "Burginphone" is **Guaranteed** to give satisfaction. This guarantee is backed by the sole manufacturers of "Burginphone" wireless receivers.

BURGIN ELECTRIC CO. LTD.

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Box 734, G.P.O.

Telephones City 141 & M 3069

Make the Most of Your Set with an ETHOVOX

The finest receiver in the world is useless if the loud speaker used with it is at all inefficient. But if you use a loud speaker of known performance, then you can be sure that you are getting the best out of your set.

Hear the Ethovox — a loud speaker renowned far and wide for the purity and beautiful mellow tone of its reproduction of speech and music; then you will know how naturally broadcast concerts can be rendered, and you will have no doubts about your choice of a loud speaker for your own set.



The Ethovox is 26 inches in height. The swan neck and flair are gracefully curved and coloured a warm mahogany shade, giving the instrument a very pleasing appearance. The diaphragm is adjustable.

Write, 'phone, or call for particulars and illustrated booklet.

BURNDIPT

Australasia Limited

Broughton House
81 Clarence Street,
Sydney

Reduced to £7

TEL: M 3732

A Four Valve Receiver

With Push-Pull Amplification

By "WIRELESS WEEKLY."

There are many music lovers and critics who rightly disapprove of the quality of reception obtained by some of the broadcast receivers they have at some time or other been forced to listen to. For this reason there may be some readers who have refrained from purchasing a loud speaker with its necessary additional valves.

The receiver to be described in this article, however, is capable of excellent tone and perfect reproduction, together with good volume. If it is built according to instructions we are sure that readers will be agreeably surprised and more than pleased with the results they will obtain. Often one hears the expression that So-and-So's set is worse than a bad gramophone, but readers will find that the best, yea, the most expensive gramophone will not compare with the wonderful reproduction obtained from this receiver. The modulation and articulation of most of our broadcasting stations are at present of A1 quality, and for this reason, if the receivers used are of equal quality, reproduction of tone and volume will be all that can be desired.

The secret of success in this receiver is the wonderful efficiency of push-pull amplification.

PRINCIPLES EXPLAINED.

For those who doubt the improved quality of this form of amplification over the ordinary methods, however, we will try to explain its action, so that they will readily see why it should be more efficient.

Briefly, the principle of the push-pull circuit is that one valve operates during one half of the cycle and the other valve during the other half of the cycle. Each valve is, therefore, only effective while the terminal of the secondary of the transformer winding to which its grid is connected is at a positive potential with respect to the centre tap of the winding. During the other half cycle when the terminal is negative with respect to the centre tap, this valve is not operating, but use is made of the other valve, the grid of which is connected to the other transformer terminal and which is momentarily at a positive potential. In this manner the current impulses are split up equally to the two valves.

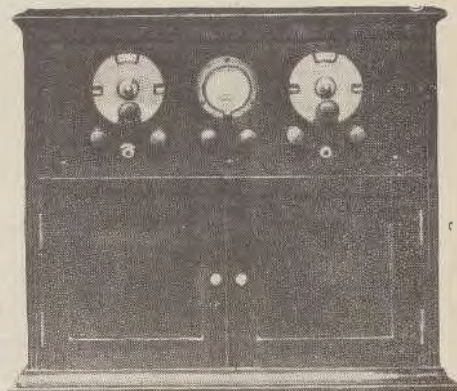
It will be readily seen from the above that special types of transformers with correct centre tapings are necessary to ensure equal alternate impulses reaching the grid of each valve. There are several types of push-pull transformers on the market at the present time, all of which we can strongly

recommend. They are supplied in pairs, and are invariably marked INPUT and OUTPUT. Note carefully Fig. 1. The input terminals of the first push-pull transformers are connected in the usual manner to the plate and +B respectively. The two secondary terminals marked G are, however, connected to the grids of third and fourth valves. From the plates of the third and fourth valves a connection is taken to the P terminals of the second push-pull transformer, and the two terminals marked output are connected to the loud speaker jack.

It will be readily seen that with this method of audio amplification no H.T. voltage passes through the loud speaker unit whatever. The two remaining terminals left to connect are the centre taps of the first and second push-pull transformers, which go to the -C and +B respectively. It is a very good plan to make the complete push-pull amplifier in a separate unit, so that it can be quickly and efficiently added to any other type of receiver.

A USEFUL REFINEMENT.

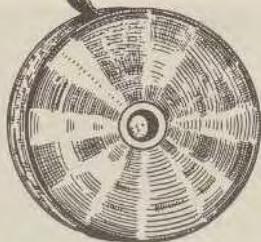
Our Fig. 1 shows the amplifier added to the ordinary 3-coil circuit (followed by one stage of ordinary audio amplification), with the exception that we have added a very small variable condenser in series with the aerial. This condenser improves the selectivity in a most wonderful manner without adding extra controls. When the best position is found



The Completed Receiver

TALKING TAPE

The
Perfect
Radio
Aerial



No Poles

No Insulation - No Lightning
Arrestors

A Complete Aerial Equipment in One
Piece for One Cheap Price

TALKING TAPE is a combination of metallic and fibre strands carefully woven with the metallic portion in perfectly spaced parallel lines.

Being highly sensitive in radio reception, Talking Tape gives distance, selectivity and quality far superior to that of a loop, or any other method of indoor reception yet devised.

The annoyance of static, so troublesome during summer months, is practically eliminated, and clarity of tone and freedom from interference are obtained to a point heretofore hardly deemed possible.

No insulation is required. Just tack or hang it round the room on the picture rail, on the piano, or behind the sofa. Then you have the perfect aerial for use with any type of receiver.

Ask your Dealer to show you this line

Retail Price 7/6 per 100 ft.

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for maximum selectivity on the lower broadcast wavelengths, it need not be altered. Our city readers will, we feel sure, be pleased with the increased efficiency this small refinement offers. It is recommended not only with the 3-coil tuner, but with all other types of tuners.

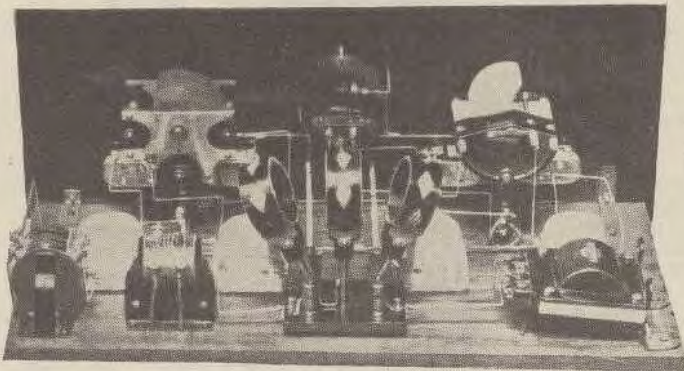
No difficulty will be experienced with the operation of this push-pull amplifier providing the circuit diagram of connections is copied explicitly. It will be necessary, however, to carefully adjust the grid and plate voltages, in order to obtain maximum amplification with correct quality of tone.

SMALL PARTS IMPORTANT.

While on the question of distortion, let us see what our good friend the detector valve, together with its accompanying grid condenser and leak, have to do with the quality of tone, volume, and reproduction. It is these small, insignificant pieces of

very close or when one or two stages of H.F. amplification are used ahead of the detector. Remember also that it is no use making comparative tests with any two different makes of valves without varying the resistance of the grid leak in each case. As any one fixed grid leak may be quite suitable for one type of valve, but very unsuitable for the other without varying the grid leak, one would have probably assumed that a certain valve was a better detector than the other, whereas when the variable resistance was used in both cases the tables were completely turned and the valve which proved to be the best when the fixed leak was used may now be completely outclassed. Try this experiment for yourself.

All the better types of grid condensers and variable leaks are stamped with the maker's name, which is usually sufficient guarantee to ensure the purchaser that the value stamped on the article is cor-



Photograph of Back of Panel and Baseboard

apparatus, which are so often neglected, that play such an important part in the final results obtained from the loud speaker. Quite a considerable amount of distortion is caused in some home construction sets by using a grid leak whose resistance is too small for the particular type of detector valve used. Many of the dainty little cartridges to which the makers have modestly refrained from attaching their names invariably contain all kinds of resistance values from 1 ohm to infinity.

Remember that an incorrect value of condenser with unsuitable leak may cause quite an appreciable distortion in the final results obtained, especially if the signals applied to the detector valve are strong, as is the case when the broadcast station is situated

near. There is not a great deal of difference in the cost of the dearest and the cheapest types of grid condensers and leaks, but the final results of the two cannot be compared.

USE GOOD SPEAKER.

A word about the loud speaker. If a poor type of loud speaker is used, it is useless to try and introduce push-pull amplification or any other refinement in the set. When purchasing you should endeavour to have the speaker demonstrated on a set similar to the one you yourself intend to build. It is not generally realised how the reproducing qualities of loud speakers have improved during the past 12 months. It is now possible to purchase a first-

BURGESS—"ASSURE CLEAR RECEPTION"—BATTERIES

DRY CELLS FOR EVERY PURPOSE

ALWAYS ASK FOR

Diamond Radio Batteries

MORE THAN A MILLION SUPPLIED ANNUALLY.

TELEPHONE CELLS.

TELEGRAPH BATTERIES.

"Cost
More
To
Build."



"Cost
Less
To
Operate."

"A Radio Set is
no better than its
Battery."

"Diamond Bat-
teries make Good
Sets Better."

Wireless A B & C Batteries Produced Expressly for Radio Transmission Reception Ignition Batteries

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NOYES BROS.			1.5 "Wealthtype" 3/6	4/6	
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T. F. STEWART & CO.		1.5 "Navy Special" 3/0	25/0		
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HOLDSWORTH, MACPHERSON & CO.		B	45 "Large Type 8 x 7	20/0	
Retailers:		C	4.5 Binson	2/9	
ANTHONY BORDEN'S		C	4.5 L'ge Special	12/0	
FARMERS LTD.		C	5.0 Ignite	15/0	
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Public Works
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Ordnance Stores etc.

Factory Representatives:

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"Kembla Buildings," Margaret Street,
Sydney. Phone, B3872.



1.5 Volt Buzzer,
High Amperage
35 Amps Sht. Circuit

Manufactured by

WIDDIS DIAMOND DRY CELLS
PTY. LTD.,
West Melbourne, Vict.

class instrument, capable of doing justice to a well-designed receiver at a very moderate figure. Unfortunately, most of our traders are situated in positions near passing trams and power mains, etc., which do not permit them to do justice to their receivers and loud speakers. But if would-be purchasers will make due allowance for these disadvantages they will very easily recognise the variation in tone obtained with the different types, and be able to quickly choose one which suits their requirements.

As stated previously, there are many people who have refrained from purchasing a loud speaker receiver due to the poor demonstrations they have heard. To those we particularly request that they well consider the increased efficiency which we claim push-pull amplification will give over the ordinary method of second stage audio frequency amplification.

The following materials are necessary to build the completed four-valve receiver. Those shown in brackets are those required for the push-pull amplifier only:—

- 1 Radion panel, 20in. x 8in. x 3/16in.
- 1 Baseboard, 20in. x 7in. x 3/8in.
- 1 .001 Condenser (preferably with vernier or vernier dial).
- 1 .0005 Condenser (preferably with vernier or vernier dial).
- 1 Three-coil holder.
- 3 Rheostats (to suit valves used).
- 1 .00025 Grid condenser (good type).
- 1 Variable grid leak (good type).
- 1 Audio transformer.
- 2 or 4 Valve holders.
- 1 .001 Fixed condenser across primary.
- 1 Rheostat.
- 1 Pair of push-pull transformers.
- 2 or 4 Valves.
- 1 "C" battery.
- 1 "A" battery to suit valves used.

2 or 3 45-volt "B" batteries.

1 High and low reading voltmeter (optional).

1 Each honeycomb coils of 15, 20, 25, 35, 50, 75, 100, and 150 turns.

CONSTRUCTION.

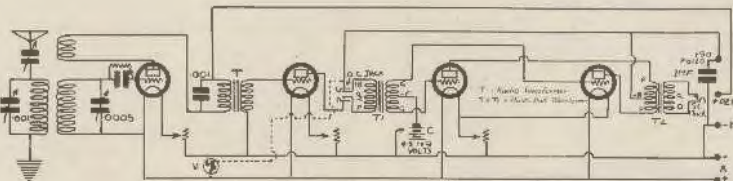
Don't cramp the parts; the size of the panel and baseboard allows plenty of room for all the necessary materials to be correctly spaced. You will notice from the photographs of "Wireless Weekly's" completed receiver that we have mounted our 3-coil holder on the baseboard inside the cabinet, the rods controlling the coupling being lengthened so as to extend to the front side of the radion panel. A voltmeter reading A and B battery voltages is also used. These two extra refinements greatly improve the appearance, but in no way improve the all-round efficiency. The days of the roughly-made sets have gone, and we are sure that every reader who builds a receiver similar to this one will be rightly proud of his labours.

OPERATION.

For preliminary tuning use headphones plugged into the B.C. jack. In this position the push-pull amplifier is not in use. After carefully experimenting with various plate voltages on the detector valve, carefully vary the grid leak resistance until all traces of distortion disappears. Now remove the phone plug and place in the loud speaker plug in the B.C. jack; this automatically adds the push-pull amplifier, and with final adjustments of the B and C battery voltages a full, round tone exclusive to push-pull amplification will be the result.

NOTE.

With 90 volts B battery a 4.5 volt C battery will generally give the best results. If, however, maximum volume is required to fill a large hall, special power valves should be used with much higher B and C battery voltages.



The Circuit

Difference in Time.

There's 15 hours' difference between New York and Sydney. When it's 12 noon in New York on Monday, it's 3 a.m. in Sydney on Tuesday. Thanks.

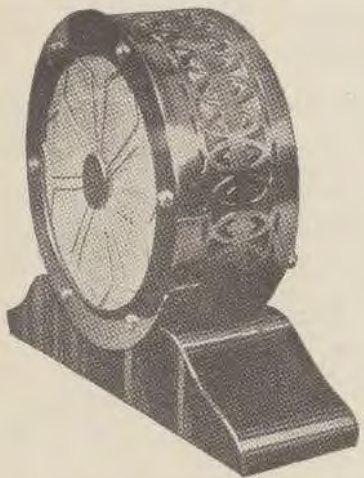
WANTED.—All kinds Secondhand Wireless Sets
Parts, Speakers, etc. Best prices given. JACK
RAPKEN, 16 George Street West. MW 1201.

MURDOCH'S RADIO BARGAINS

WHILE STOCK LASTS!

Following the big Semi-Annual Sale, a number of surplus lines and oddments are being cleared out regardless of cost. With the name "Murdoch" associated, you know that the price is genuine and the quality above reproach.

	Usually.	Now.
001 Vernier Condensers	32/6	16/3
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New Type Polar 2 Coil Mounts	15/6	10/6
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Super Hetrodyne Kits		from 45/-
"Winchester" Large Type B Batteries		22/6



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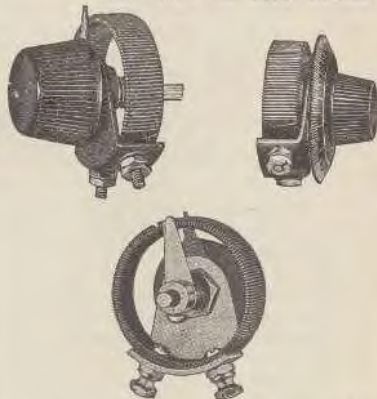
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Made in 5, 10, 15, 20, and 30 ohm capacities in both styles.

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5/3 with Taper Knob.

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Rheostats
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A Few Hints on Learning the Morse Code

By "WIRELESS WEEKLY."

No doubt every reader of "Wireless Weekly" is in possession of a wireless receiver of some kind, and it is more than likely that those receivers are not only able to pick up speech and music, but also wireless telegraphy signalling in Morse, which is constantly going on between ships and coastal stations and between long distance high power wireless stations.

You are interested in these signals for the simple reason that you do not understand them; when you do understand them you will be absolutely fascinated by reading them, and will probably be leaving the broadcast programme for a few minutes to see if Singapore is still working Bombay or vice versa.

These noises, as you will probably think they are at first, are really important wireless signals, being sent in the Morse code. They are a collection or series of dots and dashes in certain orders, and one has to be constantly practising if he or she wishes to understand how to interpret these dots and dashes. They are really short and long buzzes.

If you press your electric bell push for (say) two seconds, that would be a single dash in the Morse code. If, however, you just press the bell push and let it go immediately, the bell will only ring for a second, and that would correspond to a dot in the Morse code. A dot and a dash have no definite length. The dash should, however, be distinguishable from the dot by being twice the length of the dot. If you are sending quickly, naturally your dots and dashes will both be shorter. By combining these dots and dashes in 26 different orders, you can represent every letter of the alphabet.

EXAMPLE.

The letter A is represented by one dot followed by one dash (. -). The letter B is sent by making one long dash followed by three dots (- . . .), and so on, each letter being distinguishable from the other by the number or arrangement of their dots and dashes.

When sending a complete word a larger space or pause should take place between each group of dots and dashes which form the separate letters. For example, the word "dog." The first letter is made dash two dots (- . .), a small pause, then the letter "o," which would be three dashes (- - -), now another pause, then the letter "g," which is dash dash dot (- - .). If there is no distinct pause between each letter, no intelligible meaning will be got from the collection of dots and dashes.

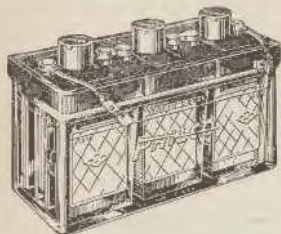
If you practice the Morse code regularly you will soon get into the habit of distinguishing individual

letters by their collective sound, and instead of having to work out each item in dots and dashes and deciding what letter is meant, you will be able to write it down right away. A longer pause takes place between words than between individual letters, so that you will readily see when to start a new word.

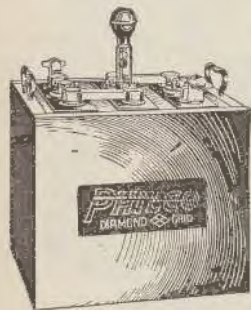
It is the aim of "Wireless Weekly" to assist its readers and the experimental movement generally, so that from Feb. 23rd we shall be commencing a series of Morse classes by radio from station 3WW on a wavelength of 198 metres, and from that date on every Tuesday and Thursday, from 7.30 p.m. till 8 p.m., these classes will continue. On Tuesday, Feb. 23rd, the first six letters (A to F) will be taught, and from then onward till the twenty-six letters have been taught, six letters will be taken each night, after which general Morse code practice will continue up to a speed of 12 words per minute.

We know that you readers who are interested will appreciate the fact that we are anxious to help you. You can amply repay us by letting us know whether we ARE helping you. It is quite possible that, in making preparations, we may have slipped on a few little points which may occur to you—if so please don't hesitate to write us—and if there are any little matters which we can't very well deal with over the air in the limited time at our disposal, and upon which you may require advice, you have only to drop us a line and ask. And, as a final word, remember this—the learning of the code primarily requires the exercise of two things, patience and practise. At first you will find picking up the characters a trifle difficult—in fact, you will probably do a little quiet cussing—but the moment you learn to recognise the general sound of each letter, not so much by the dots and dashes individually, but as one complete group, if you can understand our meaning, you will be surprised how easy it is to know them immediately you hear them. The wavelength we have chosen is 198 metres, clear of both amateurs and broadcasting stations. On the first evening, at exactly 7.25 p.m., we shall commence sending a series of dots which will last for five minutes, so that you can get the proper tuning. When you have it correctly, make a note of the settings so that you can tune-in without trouble on the next practise evening. After the dots, announcement will be made by 'phone and then practice will commence. A very good point to remember is this—write everything down that you hear, no matter if it is sent a dozen times over. This gets you used to communicating your impressions to paper and makes the path much easier.

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One of several sizes of Vertical 'B' Batteries.



Burgess block shape 'B' Batteries are made in numerous types and voltages.

Keep your practice sheet, because later on when you are copying amateurs and high power stations, you can turn to them and wonder how you ever did it.

THE INTERNATIONAL CODE.

See how quickly you can memorise this.

A	—
B	—
U	—
D	—
E	—
F	—
G	—
H	—
I	—
J	—
K	—
L	—
M	—
N	—
O	—
P	—
Q	—
R	—
S	—
T	—
U	—
V	—
W	—
X	—
Y	—
Z	—

FIGURES.

1	—
2	—
3	—
4	—
5	—
6	—
7	—
8	—
9	—
0	—

Here are the approximate sizes of coils you will require to pick up 2WW:

APPROXIMATE SIZES OF COILS TO RECEIVE 2WW.

P1 Circuit.

With condenser in series primary 25-30, reaction 50, with .001 condenser in parallel, the same coils are O.K., but place a .0001 fixed condenser in series with the aerial.

Tuned Plate.

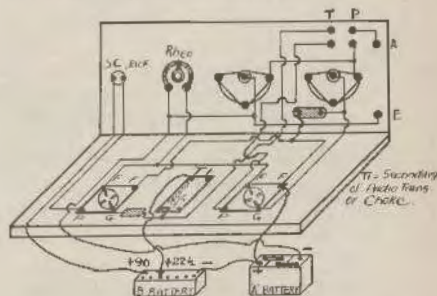
Primary and reaction coils the same as the P1.

A VERY GOOD RECEIVER

Back Panel View

DESCRIBED BY "GRID LEAK" ("W.W.," Jan. 1, 1925).

So much interest has been taken in the Single Circuit Regenerative Receiver with variable grid condenser, described by "Grid Leak" in our January 1st issue, that we feel sure our non-technical readers will appreciate this back of panel view. In comparing this drawing with the original circuit diagram it should be noted that we have added a separate tapping in the plate circuit of detector valve. This is very necessary with the various types of valves used for this duty. A very good method of arriving at the best H.F. voltage is to start with 22 volts, increasing slowly step by step.



Only very feeble regeneration (or feed back) is necessary for maximum volume with purity. The instrument near the variable condenser shown with the shaded lines is the variable grid leak.

Any reports from readers building this receiver will be appreciated. An opportunity was afforded us of listening-in at Randwick on the original receiver described by "Grid Leak," and despite the proximity of 2BL we found this set absolutely selective and capable of delivering good loud speaker volume on the Sydney stations. As, however, one or two adverse reports have reached us, we would be glad of other readers' opinions.

but with 35 turns in the tuned plate.

Three Coil Circuit.

Primary 25, secondary 30-35, reaction 50, with primary and secondary tuned or with aperiodic aerial tuning. Primary 15, secondary 80-85, reaction 50. In this case it will be necessary to link the earth side of the secondary coil to the lower side of the aperiodic coil.

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HARLIE, the Wonderful New Variable Detector	7/6
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Porcelain, 201A	4/-
Genuine Bakelite, 201A	3/-
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Burgess, 22 1/2 volt	15/-
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Winchester, 22 1/2 volt	13/6
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Eveready, 42 volt	12/6
Eveready, 60 volt	18/-

"THOROLA" LOUD SPEAKER.

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Model 351. Black	20/- ea.
Model 321. Gold and Black.	27/6 ea.

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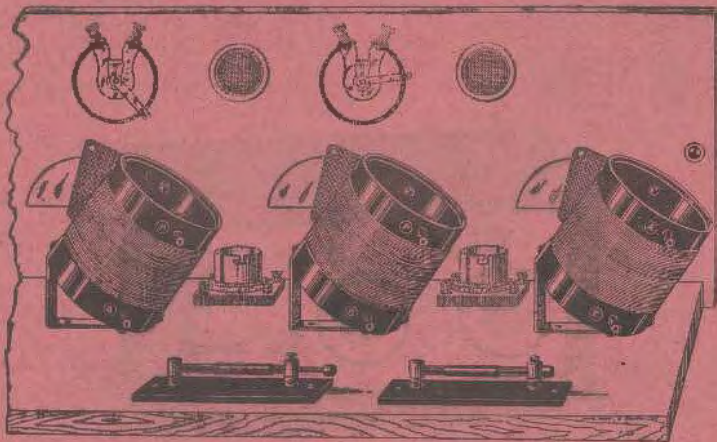
Sydney	386 George Street
Katoomba	Katoomba Street
Melbourne	266 Collins Street
Brisbane	93 Queen Street
Adelaide	10 Rundle Street
Wellington, N.Z.	42 Willis St.
Auckland, N.Z.	140 Queen St.

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is increasing in popularity every day. It has proved its efficiency wherever selectivity, sensitivity and perfect reproduction.

A GREAT MEASURE of the successful operation of the Neutrodyne depends upon the **Neutroformers** and the **Neutralising Condensers**

THE GRODAN KIT, comprising 3 neutroformers and 2 Neutralising Condensers is giving satisfaction every day.



THE NEUTROFORMERS are wound with silk covered wire on strong tubes. There is no need for soldering as each tube is fitted with separately lettered terminals. The tubes are supported by strong nickelled brackets, so that mounting at the correct angle of 64.7° is assured.

THE NEUTRALISING CONDENSERS are mounted ready to be fitted to your baseboard.

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Phone Redfern 373

Selectivity - Volume - Natural Tone

These are the Three Main Features Distinguishing the Cullenola III.

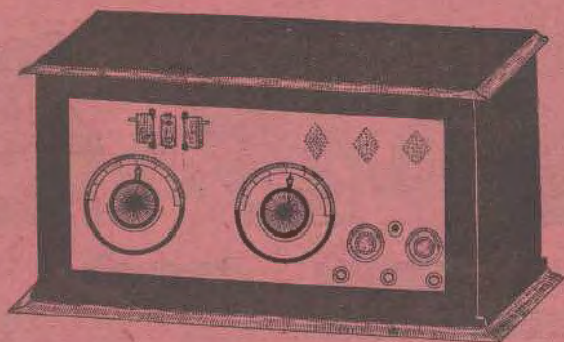
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- 2 "De Luxe" coupling plugs, 3/3 each.
- 1 "De Luxe" panel plug, 3/3.
- 2 .0005 variable condensers, 15/- each.
- 1 Single circuit jack, 2/6.
- 2 Double circuit jacks, 3/- each.
- 2 30 ohm rheostats, 6/- each.
- 2 Signal transformers, 21/- each.
- 3 Standard sockets, 3/- each.
- 1 Grid condenser and leak, 4/-.

- 2 Battery switches, 4/-.
- 1 panel 19" x 7" x 3/16" inches, 15/9.
- 1 Set engraved terminals, 3/-.

ACCESSORIES.

- 3 Valves, "De Forest" D.V.3, 17/6 each or, "Radiotron" 201A, 17/6 each.
- 3 Columbia dry cells, 3/- each, or 6 volt accumulator, £3/-.
- 2 40 volt B Batteries, 12/6 each.



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ON THE AIR

2BL Features

THE ORPHAN'S WAIL.

The broadcasting of the Orphan's Wail continues to provide an interesting programme for radio purposes and listeners-in are always pleased when they are permitted to be silent auditors of the Orphan's Wail activities. On March 1st, the usual Musical performance will be broadcast from Neutral Bay. On the same evening from the Studio a new contralto will be introduced to the wireless audience in the person of Miss Madge Helmrich, sister of Miss Dorothy Helmrich who has achieved so distinguished a success as a concert artist in England and on the Continent. Sister Madge possesses a rich and beautiful contralto voice that promises to broadcast exquisitely and this appearance will be the first of a series of Studio concerts. Mr. Roger Jones, baritone, will be heard on the same evening.

TOWN HALL CONCERT.

On March 2nd, there is promised for radio purposes, a concert from the Town Hall at which numerous well known artists will appear, including Mr. Norman Janson. Broadcasters' Trio will also be heard in a series of new numbers which the Trio is at present engaged in rehearsing. Mr. Horace Keate is exceedingly versatile and is always on the look out for new compositions for the Trio. On a recent Sunday Night at a concert broadcast from The King's Hall, a new and beautiful work was introduced for the first time in Australia. This was the famous Waldo Warner Trio which in 1921 was awarded the Elizabeth Coolidge prize in U.S.A.

LEAH FREEDMAN AGAIN.

On Wednesday, March 3rd, a Comedy Sketch will be presented by Miss Leah Freedman and partner. Miss Freedman possesses a beautifully modulated broadcasting voice and her sketches, either humorous or dramatic are always delightful. On the same programme Mr. Lance Jeffres, a tenor whose radio appearance won for him an immediate and enviable reputation will be heard again. Mr. Jeffres is easily outstanding in promise of all the younger artists that have recently been heard and appears to be destined to succeed in his chosen vocation as a singer.

DUET NUMBERS.

Thursday, March 4th, will enable the many admirers of Miss Dorrie Ward and Mr. W. E. Lewis to renew acquaintance with these two delightful artists. The duet numbers presented by Miss Ward and Mr. Lewis are a feature of any programme upon which they may be heard and each

will be heard in solo numbers also. In Miss Ward's singing in particular, there is to be noted "the art which conceals art" and the apparent simplicity with which this delightful lady sings is apt to be misleading. Few people would realise the technical training that is behind such effortless technique. On the same programme Mr. Mayne Lynton and Miss Nancye Stewart will be heard in a sketch number of more than ordinary interest.



Miss Margaret McKenzie, a delightful soprano, whose portrait is reproduced herewith, is one of the regular artists appearing on 2BL's programme. Her singing is always appreciated by a large following.

ROMANTIC LECTURETTES.

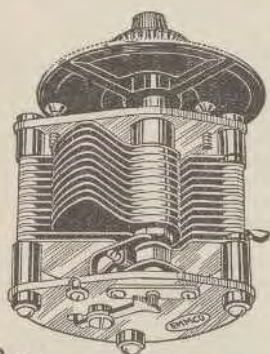
On March 1st, Mr. G. C. Barnes completes his series of lecturettes on "The Romance of Buried Treasure." These lectures have been specially successful and Mr. Barnes has received many complimentary letters in regard to the manner in which he handled the subjects presented by him which ranged from ancient Egypt and Crete to the Spanish Main.

JAZZ PROGRAMME.

The True Blue Jazz Orchestra presided over by no less a person than Mr. Cec. Morrison will be heard in a jazz programme on Friday, March 5th, from the studio of 2BL. The ever growing demand for jazz music is being admirably catered for by Broadcasters' and by common consent it is admitted that in this particular line, Mr. Cec. Morrison outshines all his competitors. Miss Theima Houston will also be heard on the same programme.

MOVIE LIFE.

On Tuesday, 2nd, Miss Helen Beegling continues her talks on Movie Life in Hollywood. Miss Beegling is an adventurous Australian girl who went to America upon her own initiative and suc-



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AUSTRALIAN MADE GUARANTEED LOW LOSS
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Use only

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Made by the manufacturers of the Famous Columbia Dry Cell

ceeded in working her way into the Studios there. In addition to that, Miss Beegling had considerable experience as a journalist and her ability in this direction is revealed in her manner of presenting facts concerning the experiences that befel her. Mr. T. Alkin will lecture also on March 2nd, continuing a very delightful series full of information concerning Vitamines and Dietetics.

HAWAIIAN TUNES.

Saturday, March 6th, will see the usual entertaining programme provided by station 2BL, including the Honolulu Duo, Mr. Fred Gooch, entertainer and humorist at the piano and Miss Peggy Alwyn.

CHURCH SERVICES.

The usual Church Services, morning and evening will be transmitted by station 2BL on the occasion of Sunday, March 7th, in addition to which there will be Studio Concerts in the afternoon and after the evening service. Miss Pauline Harford Foster, the delightful soprano is one of the artists who have been engaged to appear on this occasion.

FOREIGN AFFAIRS.

Owing to a change of schedule, the talks on Foreign Affairs that have been delivered by Mr. J. M. Prentice on Tuesday nights have been transferred to Wednesday night each week. These talks continue to attract a very large wireless audience and the enterprise of station 2BL in allowing telephone questions to be answered is being utilised to the full. Questions continue to pour in upon the speaker and are answered with a promptness and urbanity that is quite refreshing. Mr. David Andrew continues his talks on the Life History of the White Ant and the third of these will be delivered on Wednesday, March 3rd

2FC Features

THE ASTORIA BAND.

Lovers of dance music will be glad to learn that, commencing Monday, 22nd February, a combination of clever dance players, conducted by the well-known musician Mr. Eric Pearse of the Astoria Band will give dance music from Farmer's studios on Monday, Wednesday, and Friday of each week. In addition, the band will play accompaniments to many of the songs of the popular order. Listeners to 2FC will be well catered for in regard to dance music, as the Wentworth Cafe Orchestra is heard on Tuesday, Thursday and Saturday of each week.

TALKS ON CRICKET BY MR. C. B. TURNER.

2FC has induced Mr. C. B. Turner, the famous international cricketer of the past generation, to give some interesting talks concerning the pros-

pects of Australia retaining the ashes, and to also give some interesting details regarding the forthcoming tour with some reminiscences of famous players of yesterday.

GILBERT AND SULLIVAN OPERAS.

The mention of Howard Vernon's name brings back to all lovers of Gilbert and Sullivan Operas very happy memories of the time when that famous artist delighted Australia in the many roles which he played. 2FC has arranged with Miss Vinia de Loitte (Mrs Howard Vernon) to entertain listeners with weekly talks dealing with these operas, commencing on Friday, 19th February, 1926, she will give as her first series—"The Collaboration and early Successors of these two famous men"—following on each week descriptions and incidents concerning each one of their famous operas.



Mr. Andre Navarre, who is one of the most prominent artists, is a baritone singer of enviable attainments, coming into public note by reason of his magnificent performance as Figaro in "The Barber of Seville" under the direction of Mr. Frank Rigo. Mr. Navarre has since toured Australia and New Zealand, his last tour being in company with the distinguished Australian singer, Madame Elsa Strabia. Mr. Navarre possesses a powerful baritone voice, which he uses with admirable restraint.

PHILIPS VALVES

BANISH ISOLATION!

Have you yet realised what a tremendous difference RADIO can make to your social life
How it can bring the music of the theatre and the concert hall right into your home?
Have you realised the difference between reception from an ordinary valve and one which is made by

PHILIPS?

We specially recommend the following two valves:—

A110. The One Cell Valve. Filament, 1.0 to 1.3; volts, .06 amp. The most remarkable valve yet produced, as it enables you to run each valve for weeks on one Dry Cell, while the volume and tone are exceedingly good.

PRICE 17/6 EACH

B406. The New Wonder Valve. The B406 is in a class by itself, as it is the first Low Frequency Amplifier which attains a saturation current of 30 milliamps with a filament consumption of only 0.1 amp at 3½ to 4 volts. Only a two Cell Accumulator or Three Dry Cells should be used, thus showing a further remarkable saving.

PRICE 17/6 EACH

Obtainable from all Radio Dealers.

Ask your Dealer for illustrated folder describing these wonderful Valves.



"FAUST" MUSIC TO BE BROADCAST.

The issue of the new film "Phantom of the Opera" from the Crystal Palace Theatre on Saturday, 27th inst., will include a special operatic prologue giving excerpts from "Faust" to be sung by the following artists: Miss Rene Maxwell, soprano. Mr. Andre Navarro, baritone, and Mr. Hull, tenor. These artists will give a programme for 30 minutes of the principal "Faust" music and this will be broadcast by 2FC on Saturday evening, 27th February.

FEAST OF INSTRUMENTAL MUSIC FROM 2FC.

The Management of 2FC is to be congratulated on its forward move in providing such entertainment and orchestral numbers for listeners. On Mondays, Wednesdays, Fridays, and Saturdays, transmissions are taken from the Orchestras of the following theatres: Her Majesty's Theatre, Haymarket Theatre, Lyceum Theatre, Lyric Wintergarden and Crystal Palace. On these evenings dance music will be provided by the 2FC Dance Orchestra and the Wentworth Cafe Orchestra. Then on Tuesdays, Thursdays, and Sundays, the evening programmes will include instrumental numbers provided by the newly formed 2FC Studio Orchestra, so that 2FC listeners will be regaled with instrumental numbers and dance music. The spaces in the programmes will, of course, be filled by well known artists who are engaged with the 2FC studios.

2FC STUDIO ORCHESTRA.

In addition to the dance orchestra at the studios which will play on Monday, Wednesday, and Friday of each week and supply accompaniments to popular numbers, 2FC has provided a light orchestra of eight players which will be conducted by Mr. Ewart Chapple, with Mr. Lionel Lawson, violinist, as leader. This combination will be heard on Tuesdays, Thursdays, and Sunday evenings providing a wealth of instrumental numbers, and also accompaniments to the various artists who sing at the Studios.

2FC programmes are being extended to 11 o'clock each evening so that every night's programme will include, in addition to vocal numbers and talks, orchestral and dance music.

SPECIAL CONCERT.

2KY, Trades Hall Broadcasting Station, are presenting their first public entertainment, "A Night in the Studio," at St. James' Hall, Phillip Street, Sydney, on Saturday, the 27th February, at 8 p.m. An excellent programme has been arranged, in addition to contributions from 2KY's favourite artists, the Labour Choir consisting of 100 trained voices under the conductorship of Mr. J. Green will make their first public appearance. Also some of Sydney's leading entertainers, including Mr. George Rees, the well-known viceregal entertainer will assist in the programme. Apart from the entertainment value it will give the public an opportunity of seeing under what conditions broadcasting is done.



Miss Harriet Bennet, at 3LO, discussing the question of broadcasting with Major W. T. Conder, General Manager.

RADIO PANELS

To those who are about to build their own Radio Set, we submit the following. These prices of Bakelite we would mention are the lowest prevailing in Australia.

BAKELITE

Cut to any desired size

1/8in. $\frac{1}{2}d.$ PER SQUARE INCH.

3/16in. $\frac{3}{4}d.$ PER SQUARE INCH.

Filko-Stats. Your set deserves one, each **12/6**

Vernier Attachments. 100 to 1 ratio, each **3/0**

Accuratune Ultra-Vernier Dials, each **25/0**

Bakelite Valve Sockets (special line), American, each **3/0**

Neutron Crystal, "The Crystal with Valve Power," each . . . **2/3**

Neutrodyne Kits in Stock.

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Money on
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FROM HERE AND THERE

3LO ON CRYSTAL.

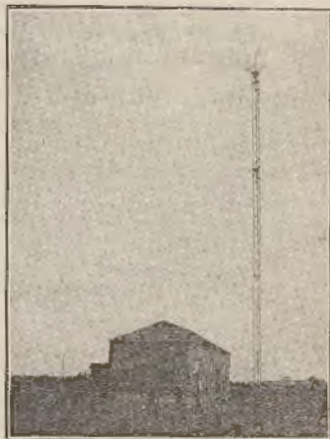
Can you tune-in 3LO in Sydney on a crystal receiver?

If not, go home and try it out, because it is being done quite frequently by Dr. Baret and Mr. Stone, of the Coast Hospital, Little Bay, Sydney. Dr. Baret, who uses the Knockout Crystal Receiver described in "Wireless Weekly," August 28, 1925, says that he can receive 3LO at comfortable phone strength while 2BL is off the air, and, in fact, on one occasion joined up two pairs of telephones. Mr. Stone favours the Crystodyne published in the June 12, 1925, issue of "Wireless Weekly," and can with careful tuning get 3LO even while 2BL is on the air.

To discount the theory that these crystal receivers may be heterodyned by local valve sets, the Coast Hospital is in a fairly isolated position, and careful inquiry has shown that heterodyning was very improbable. Are any other "Wireless Weekly" readers getting results like these?

"A GENERAL INQUIRY."

"The Radio Corporation is in for a thorough airing," says "Radio Broadcast" (U.S.A.). "The Corporation will have to convince the Federal Trade Commission of their fair and just treatment of competitors and the radio public in general. There are one or two unsavoury reports of the Corporation's activities still in our minds, and it is to be hoped that no more will be brought to light. The companies being investigated by the Federal Trade Commission in addition to the Radio Corporation are the General Electric Company, American Telephone and Telegraph Company, Western Electric Company, Westinghouse Electric and Manufacturing Company, International Telegraph Company, the United Fruit Company, and the Wireless Specialty Company. The Federal Commission expects to bring out that a monopolistic trust exists in the radio field. It is possible they will prove such to be the fact. That isn't the



The Mast and Station House of 5CL.

thing that really counts, however. The question is: Has the trust (if such exists) been reasonable in the prices it has charged for its wares?"

BROADCASTING AND CIRCULATION.

Lord Riddell, supplementing memorandum presented at a B.D.C. Committee of Inquiry, said he considered any desire there might be on the part of a comparatively small section of the population living in remote country districts for a complete news service was no reason for ruining a great industry which employed hundreds of thousands of people, and in which huge capital was invested; and Sir James Owen said the consensus of opinion among provincial proprietors was that broadcasting had not prejudiced circulation except in cases where newspapers covered their areas rather late in the evening, and in these cases there was distinct evidence of a falling off since broadcasting came into being. This, let us add, only means that it injured the newspapers in areas where the newspapers were not doing their business properly, or where they considered it was not worth their while to do it properly, or where bad rail or road connection would not let them do it properly.

—Irish Radio Journal

A SERVICE FOR THE BROADCAST LISTENER.

On Tuesday, March 2nd, at 9 p.m., 2WL will commence a special series of talks for broadcast listeners. The wavelength used will be 200 metres, and listeners should take full advantage of this service.

EXTRAORDINARY ANNOUNCEMENT

The success of our Trading policy necessitates an extension of our already spacious Goulburn Street Store right through to Pitt Street, and from the 8th March next, you will find us at the Corner of Pitt and Goulburn Streets. To facilitate these extensions our Stocks must be reduced, and for a limited period only we are offering Radio & Electrical Goods at greatly reduced prices. In order that Country Clients will not be disappointed we are making reservations of each date. Here are a few of the many bargains

AERIAL EQUIPMENT.		USUAL PRICE	USUAL PRICE	CRYSTAL (Guaranteed tested)	CONDENSER ACCESSORIES	USUAL PRICE	USUAL PRICE	CABINETS	USUAL PRICE
Aluminium Aerial Wire per 100 ft.	5/0	2/6	Carbonium Galena Iron Pyrox	Equaliser each	1/6	1/6	Variante cases at greatly reduced prices.		
1/18 Bare Copper Aerial per 100 ft.	2/6	1/6	Magnesium, Molybdenite, Austral	Amplifier Tubes, vacuum	1/2	9d.	HOLDERS.		
1/18 Bare Copper Aerial per 100 ft.	2/3	1/6	De. Acce. Bismuth, Galena Mount-	Radio Cabinet, various models, open	1/2	1/-	Garbin Valve Holder, each	1/0	10d.
Automatic Aerial Switch Plug, each	7/-	4/-	ed, Rutile, etc., each	Acro Condenser Lens, 1, 4, 8, 1, 4,	1/6	1/-	Post 3 Valve for American valves		
Becco Modulator with			Acro, 10 to 100	20, each	1/6	1/-	rubber mounted, each	24/6	12/-
control as each and each	2/6	2/6	CONDENSERS, Fixed	CRYSTAL SETS.			Model Chassis for American	2/0	1/3
Best Quality White Steam Insula-			Acro. 500, 1000, each	Single Glass set each	10/-	7/6	valves, each		
tor, each	6d.	2d.	Acro. 200, 500, 1000, with link,	Clayton's Lezer Counter Sets, each	45/-	30/-	HEADPHONES.		
Best Quality fixed insulators, each	1d.	2d.	each	Radio Cabinet set, complete with			Woodstock 400 ohm, each	15/-	12/6
Electrical Lead in oil holes to bore			Welding, 500 moulded in chassis,	Resistances, and aerial component,			Baldwin, each	20/-	15/-
through holes or openings, each	2/-	1/6	each	each	1		Gilman & Clark 500 ohm, each	10/0	10/-
Woodstock Posters, Walnut Electro-			CONDENSERS, Variable.	Perol Crystal Sets, a model that			Post 2000 ohm, each	32/0	17/0
lytic Insulators, large, each	2/0	2/0	Orange 500, each	will make, set			Post 2000 ohm, each	27/0	20/-
Woodstock Posters, Walnut Electro-			Orange 1000, each	Portable Ship Sets, each	7/6	2/6	Silvercote 2000 ohm, each	30/0	20/-
lytic Insulators, small, each	1/0	2/4	Orange 2000, each	Fluoro			Espresso 500 ohm, each	20/-	17/0
Small small, each	3d.	2d.	Orange 5000, each	2 1/2 inch, per square, set	10/-	10/-	PLEGS AND JACKS.		
Drum line, each	3d.	1d.	Orange 10000, each	1 1/2 inch, per square, set	14/0	12/-	Barrett 5000 Plug, each	12/6	9/6
Fireproof Lead in Tube, 6 x 7/16,			Warren 25, each	Radio Cabinet 2 volt, each	12/6	8/6	Barrett Multi Jacks, each	12/-	7/6
size	6d.	3d.	17 plates, each	Colombia 10 volt per movement, each	17/0	12/6	Ball Photo Boards, each	13/6	9/0
Regium-Galena Type Lighting			15 plates, each	Colombia 7 and 9 volt movement,			Four Photo Plug, each	18/-	8/-
Accessories, each	10/-	6/6	SUNDRY AMERICAN WARES	each movement, each	8/-	6/6	Wash Crystal Jacks, each	3/6	2/6
2 1/2 Aerial Wires on porcelain			10 plates, each	DETROIT			Double Current Jacks, each	4/-	3/6
insulator, each	8/6	7/0	15 plates, each	M.J. Detector Parts, each	10/-	2/-	KNIFE.		
S.P.C. Special Switches on porce-			10 plates, each	Beas Detector Parts, per dozen, each	17/0	1/-	1 inch square, each	5d.	4d.
laine base, each	2/0	1/6	10 plates, each	M.P. Detector Parts, in case, each	3/-	1/-	LOUI SPRAYERS.		
BARREL.			10 plates, each	Flow switches, unmounted,			1 1/2 inch Greenough Attachment,		
1 inch, 100 lb. line by 20000, machin-			Prichard Military Condenser sets	each	2/6	1/2	each	4/10	17/6
ery, per minute, each	16	10	400, each	Tube Type Condenser, 500, each	12/-	7/0	Chlorine, each	22/10	25/-
BELLS.			Prichard Military Condenser sets	Prichard Military Condenser, 100, each	25/-	19/6	T.M.C., each	30/-	27/0
1 inch, each	16d.	8d.	400, each	Prichard Military Condenser, 200, each	35/-	24/6	Magnium H.I. cup	25/10	25/10
1 1/2 inch, each	21d.	9d.	1000, each	Prichard Military Condenser, 500, each	45/-	35/6	Fluoro, each	22/10	20/10
			2000, each	Prichard Military Condenser, 1000, each	55/-	45/6	Tantalum, each	27/10	26/10

Special will not prevent the publishing of the full list of bargains. See next issue of "Wireless Weekly" for a further listing.

MAIL ORDER DEPARTMENT, 55 Goulburn Street, is under the supervision of a Mail Order Agent, which ensures prompt helpful careful attention to packing and all details necessary for an efficient Mail Order Service. We despatch within 48 hours after we have your order!

We pay carriage throughout N.S.W. on all Radio goods when they are despatched. Catalogues, Handbooks, Reference, Lead Booklets, Books and Publications, Tubes, Aerials and Wiring Kits, and goods sent by P.O. Parcel Post.

MAIL ORDER DEPARTMENT, 55 GOULBURN STREET, SYDNEY.

WILES' WONDERFUL WIRELESS and ELECTRICAL STORES

Branch:
384 Pitt Street,
(near Goulburn Street.)

Head Office and Shop,
55-60 Goulburn Street,
(1 door from Pitt Street),
SYDNEY.

Branch:
23 Pitt Street,
(near Circular Quay).

ARRIVED

THE BRANSTON PORTABLE

The World's Most Wonderful Receiver

7 Valves reflexed, giving the power of 10.
Take it in your Car. Hear it on your
lawn. Carry it anywhere.

S.L.O. without Aerial or Earth.

First shipment nearly sold out.

See it at the Sole Agents,

PARSONS & WHITTEMORE LTD.,

30 MARKET ST., SYDNEY.

RADIO'S BEST is now available :—

TRUE BLUES are the only non-microphonic Valves in the world, and the only Tube with sterling silver contacts to prevent frying noises from corrosion.

HEATH'S VARIABLE CONDENSERS are the non-dielectric and strictly low-loss "distance getters." Made in all sizes, vernier and plain.

HEATH'S RESISTANCE COUPLED AMPLIFIERS are completely wired and assembled with terminals, sockets, and ready to add 3 stages to your Detector. Price is 79/-.

TUNGSTALITE CRYSTALS are not affected by handling or exposure, and not a dead spot in them. A new cutwhisker is supplied with every crystal.

HEATH SHOCK-PROOF SOCKETS have double contacts, and even the Screws have shock absorbers. Price, 4/6.

CARDWELL'S NEW TRANSFORMER is the sweetest toned Transformer yet produced. Shipment just arrived. Price, 25/-.

THE REMO LOUD SPEAKER at 95/- is the finest value in the market.

DYMAC RHEOSTATS are good, and good Rheostats improve distant reception. Their White Pointers improve the appearance of the Set. Price, 6/-.

BATTERY CHARGERS for A and B Batteries, 240 V., A.C. £8.

Parsons & Whittemore Limited

30 MARKET STREET, SYDNEY.

Clearance Prices

For

Radio Parts

Stocks must be cleared this week. Therefore prices are the very lowest they have ever been. Inspect the stocks before they sell.

Variable Condensers

Some of these high-grade Condensers are reduced to less than a quarter their original price.

Master .001. Usually 32/6
Clearance Price 7/6

Walnut .001. Vernier. Usually, 40/-
Clearance Price 15/-

K&C .001. Usually 30/-
Clearance Price 15/-

K&C Plate Vernier. Usually, 35/-
Clearance Price 15/-

Master 11 Plate Vernier. Usual, 35/-
Clearance Price 7/6

Variocouplers and Variometers

Gilfillan. Usually 58/6
Clearance Price 15/-

Amran Usual, 32/6. Clearance .. 7/6

Remler. Usual, 48/- Clearance .. 12/6

Remler, with panel. Usually .. 60/-
Clearance Price 15/-

Jacks (open and closed circuit)

K. & C. Usually, 4/3. Clearance, 1/-

Philip Valves.

D.V. Usually, 7/- Clearance .. 4/6

D.VI. Usually, 7/- Clearance .. 4/6

Wireless Department, 22 York Street.

DAVID JONES'



SCL Operating Room.

KIDDIES COMPETITION.**Mary Wins the Guinea.**

It has been very hard indeed for the judges of the Limerick competition to choose the best from the hundreds of nice little verses which have been sent in, but the prize goes to a little girl called Mary Ereckson, who lives at 271 Belmont Street, Alexandria.

Considering that Mary is only ten years old, you will agree that her verse about Uncle George is very good indeed. This is it:—

"The Uncle George we love so well
Has just the cutest tales to tell;
But the loveliest thing you all must own,
And its really all his very own,
Is the way he says in his nicest tone
G—o—o—d N—i—g—h—t."

We all congratulate Mary on this very clever little verse. The prize, which was a cheque for one guinea donated by "Wireless Weekly" has already been sent on.

WIBELLES IN THE ISLANDS.

Colonel Lenn, Administrator of Norfolk Island, in writing to a friend, says:—

"Last boat the Department sent me a Radiola Super Wireless Set. This has made all the difference to our life here. The results I get are wonderful, and, instead of being cut off from the world, we are now in touch with the 'Daily News' budget, and have a splendid choice of programmes every evening. I could not have believed that such a small matter could have made such a huge difference to our lives."

THE SALE OF GRAIN.

A complaint received by the American State Railroad Board shows that the installation by farmers of receivers sometimes enables them to beat the elevator man in the sale of grain.

The complaint states that the farmer can listen to the market prices and receive faster returns than the elevator operator. If the market falls he can sell his stored grain before the elevator operator learns of the change in price.

The board admits that the situation is difficult for the elevator man, but can do nothing in the matter.

SALES IN AMERICA.

It is estimated that during 1925 no fewer than 3,000,000 wireless sets and 20,000,000 valves, as well as no less than £30,000,000 worth of parts and accessories, have been sold in the United States. According to Major H. H. Frost, the President of the American Radio Manufacturers' Association, the industry now employs about 300,000 persons in 1,200 factories and 40,000 workshops.



The Mast of 4QC New Station.

Wireless in Paraguay.

Paraguay is now evidencing interest in wireless broadcasting, and it is understood that the Ministry of War and Marine has already decided to purchase the necessary equipment for a station, although it is reported that the decree authorising this action has not yet been signed. The organisation of a broadcasting company, which the municipality of Asuncion has been asked to subsidise, has also been proposed.

BURGESS—"THEY'RE USED ON THE UNITED STATES AIRCRAFT"—BATTERIES

ANNOUNCING OUR HALF SALE YEARLY



JUST LANDED

New Stock of Amperites

199 and 201A type

7/6

SEE OUR WINDOWS FOR SPECIAL LINES.

VARIABLE CONDENSERS, 31 Plate, Square Law, Pigtail	were 16/6, now 12/6
VARIABLE CONDENSERS, .001 Vernier, K. & C.	were 43/-, now 19/6
VARIABLE CONDENSERS, .001 Plain, K. & C.	were 35/-, now 15/-
TWO GANG SOCKETS, Bakelite Base, K. & C.	were 6/6, now 4/6
THREE GANG SOCKETS, Bakelite Base, 199 or 201A, K. & C.	were 10/9, now 5/9
FOUR GANG SOCKETS, Bakelite Base, 199 or 201A, K. & C.	were 13/6, now 7/9
VARIOMETERS, beautifully made, 200 to 600 metres	were 22/-, now 12/6
RADIO FREQUENCY VARIO TRANSFORMERS—	
K. & C. for one stage	were 18/9, now 10/6
K. & C. for two stages (one control)	were 35/-, now 19/6
RHEOSTATS, K. & C., Shielded, 20 ohms.	were 4/6, now 3/-
THREE STAGE R.F. KIT, containing 3 Low Loss Condensers & Wound and Balanced Transformers, with full drawings and instructions	were £4/15/-, now £3/19/-
WAVEMETERS, Jewell Standard Wavemeters.	were £5/15/-, now £3/10/-
WAVETRAPS, cut out that interference	were 35/-, now 25/-
AUDIO TRANSFORMERS, K. & C., Special, 3 to 1	were 18/6, now 13/6
PUSH PULL TRANSFORMERS, (Crescent	were 38/3 pair, now 35/-

"INSULATOR," Mr. W. L. Hamilton, will be in attendance at our Sydney store each Friday evening. Bring along your RADIO PROBLEMS. They will be solved FREE

We pay carriage on goods to the value of 10/- and over, except on Batteries and Speakers. We specialise in Country orders.

"Yours for lower prices."

The ECONOMIC RADIO STORES
 28 Royal Arcade 569 Hunter St. West
 SYDNEY NEWCASTLE
 Phone B 5891 Phone, Newcastle 1622

SHORT WAVE BROADCASTING

WHAT AUSTRALIA IS DOING

Some years ago, Hugo Gernsback, editor of "Radio News" (and, incidentally, of half a dozen other American journals), prophesied that the ultimate settlement of the problems confronting international radio communication would be the employment of ultra short waves. At that time the tendency was to climb ever higher and to rely upon super power and long waves to crash through static and to overcome long distance. As Mr. Gernsback's prophecies had an unpleasant habit of coming true, this particular one was not publicly ridiculed, but it was strongly criticised and proved to be utterly impossible by technical experts, whose only claim to a general understanding of wireless lay in their ability to disprove or prove a thing by mathematical calculation. It remained for raw amateurs to prove by practical results that the experts, while theoretically correct, were in practice wrong. Followed further experiments in short waves by Marconi, and to come down through the long line of experiments by both amateurs and professionals to more recent times, the International broadcasts conducted successfully by KDKA and WGY on what may be termed ultra short waves.

Now, while short waves have more than proved their efficiency over immense distances on continuous wave telegraphy, their application to broadcast telephony is still confronted with serious problems, chief of which are "freakiness" peculiar to very short waves and the difficulty of modulation. That those barriers will eventually be overcome under the battery of the world's scientific brains there can be no doubt, but at present short wave broadcasting is merely in the experimental stages.

SHORT WAVES FROM 2BL.

These experiments, however, are certainly not confined to America, as the Sydney station 2BL has been carrying out tests on 37 metres for some time past, with the idea of determining the best wavelength for daylight transmission and to estimate the maximum distances obtained under various conditions. Under the direction of Mr. B. Allsop, Chief Engineer, 2BL, the tests have already been attended by no little measure of success, reports having been received from America and England, in addition to New Zealand and various parts of Australia.

BIG AERIAL ESED.

During the first test, which took place on Jan. 26th, the big aerial at 2BL was employed working on the eleventh harmonic with a 750 watt input to a

single tube modulated by the main panel. No key was in the circuit, and a series of numbers was being transmitted, when upon asking for reports a direct call was received from an American amateur, USWW, Robert J. Haley, 599 Grant Street, Buffalo, New York, who stated that the phone was R5, or half maximum strength. Reports from Queensland quoted the strength as terrific, but the modulation not quite as it should be. Further tests were made on Sunday, Feb. 7th, at intervals between 10 a.m. and 10 p.m., on various wavelengths using an L.S.5 valve with a 50 volt Burgess B battery on the plate. At 2 p.m. signals were reported R5 from Brisbane, R5 from Armidale, R4 to R5 from Melbourne. A crystal set user located at Melbourne also reported reception of 2BL, but more than likely his set was heterodyned by a near-by valve set.

Further tests on 37 metres were put over by 2BL between 4 and 5 a.m. on Sunday, Feb. 14th, with the result that the famous English amateur (3QD) (Mr. Simmons) reported that he heard weak signals from 2BL, but found it difficult to receive on account of harmonics from B.B.C. stations.

THE SHORT WAVE SET.

Located in a special cabin built in a corner of the grounds occupied by 2BL on the heights overlooking Coogee is the short wave set constructed by Mr. Allsop for the special experiments. Close against the cabin is a pole supporting the 40-foot 1½ in. copper tube vertical aerial and guyed with Italian hemp rope. The set employs two 250 watt tubes using 1057 watts, and radiates 8 amps on 37 metres. The oscillator is mounted on two panels, while the modulator is in the main transmitting room; in fact, the panel that is used for modulating 353 metres is also used on the short wave. The inductances are wound of 6 and 8 gauge bare copper wire, and the H.T. supply is derived from a 3000 volt 3 kw. generator supplying 2400 volts. Four 500 watt tubes are used as modulators, with a 50 watt sub-modulator, the power for which is supplied by a small generator. An underground feed runs from the main transmitting room to the oscillator cabin.

A tremendous amount of patience and energy is required to carry out these short wave experiments, fraught as they are with countless problems, great and small. Due to the progressive policy of 2BL and the initiative of Mr. Allsop, however, Australia may yet be first in the field with permanent short wave broadcasting.

RADIO on Easy Terms. NO INTEREST.

All sets complete with De Forest valves, phones, A and B battery and Aerial.

Single Valve	£9 10 0
Deposit	0 18 6
Weekly	0 8 3
Two Valves	£13 15 6
Deposit	1 7 6
Weekly	0 4 9
Three Valves	£21 0 0
Deposit	2 0 0
Weekly	0 7 4
Four Valves	£25 0 0
Deposit	2 10 0
Weekly	0 8 8
Five Valves	£29 10 0
Deposit	3 0 0
Weekly	0 10 0

OPEN ON FRIDAY NIGHT.

Radio W'less Mfg. Co.

280 George Street,
Opposite Hunter Street.
B5747.

HOWELL'S SALE & EXCHANGE

Large Variety Loud Speakers from 5/6. to 58.
Hear them on music.

JEFFERSON STAR TRANSFORMERS	£ s. d.
7 Bakelite Engraved Terminals on Bakelite Base	0 17 6
ADJUSTABLE SWITCH ARMS	0 3 3
.0005 VEENIER CONDENSER	0 8 9
.0005 Square Law Brass Plates, with Pigtail and Dial	0 11 6
.001 Condenser, with Dial	0 9 0
.0005 Condenser, Square Law Brass Plates, Pigtail & Dial	0 8 0
Ormond, .001 Vernier, Square Law Bakelite Ends	0 17 6
Ormond, .0005 Vernier, Square Law Bakelite Ends	0 15 6
Ormond, .001 Vernier, Square Law Low Loss	0 17 6
Ormond, .001 Square Law Low Loss	0 14 6
Ormond, .0005 Square Law Low Loss, Vernier	0 15 6
Ormond, .0005 Square Law Low Loss, Plain	0 12 6
Ormond, .00025 Square Law Low Loss, Plain	0 9 6
Egg Insulators	dozen 0 9 6
Columbia No. 8 Cells	0 2 6

HOW TO MAKE THE HOWELL REINARTZ STILL MORE
SELECTIVE.
YOU CAN'T IMAGINE HOW GOOD IT REALLY IS.
IF INTERESTED, CALL IN AND SEE US.

19 BARLOW STREET, SYDNEY
Open till 9.30 Friday Night

Phone MA 3123

"WETLESS" Duo-Lateral Coils

"WETLESS" DUO-LATERAL COILS are wound by a special process of constant tension on the wire, ensuring uniformity throughout. The self-capacity is extremely low, and the wire used is of the highest grade, the result being very sharp tuning, low high frequency resistance and maximum signal strength.

Coil No.	Unmounted.	De Luxe Mounted.
20	1/6	8/6
25	1/7	8/6
35	1/8	8/6
50	1/10	8/7
68	2/-	8/9
75	2/1	8/10
100	2/8	7/1
120	2/4	7/2
140	2/6	7/3
150	2/8	7/3
170	3/-	7/6
200	3/-	7/6
250	3/0	8/6

ASK YOUR DEALER FOR "WETLESS" DUO-LATERAL COILS.

AUSTRALIAN MADE.

Phone: Kog. 1165.

Manufacturer:

J. WETLESS, Bexley, N. S. W.

Wm. Lambert Hamilton Radio Specialist

Bring your troubles to me.
What I will do for you.

I will remodel or re-wire your receiver, making every valve give of its best. Let me modernise your receiver.

I will build you a set to suit your local conditions.

I will answer any enquiries immediately.

My charges will be moderate.

I will buy your components for you at ruling city prices and despatch them to you within 24 hours of receipt of order. I will advise you as to the quality of the goods. This service is free.

I am at your service in any radio wants.

City address:
VICKERY'S CHAMBERS,
82 Pitt Street,
SYDNEY.

Phone: B4549.

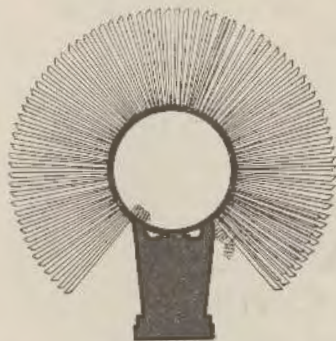
Private address:
16a Ness Avenue,
Dulwich Hill.

AMONGST THE TRADERS

NEW COILS.

Quite a new feature on this market is the Circloid or Doughnut coil and transformer being manufactured by Keith Stokes. In America it is referred to under various names, such as the Torus, Toroidal, Doughnut, and Circloid.

Of most attractive design and appearance, this coil produced by Keith Stokes was evolved after much experimenting to hit upon something which has not the inherent weaknesses of the ordinary coil. The main features claimed for the Circloid are that its construction in the form of a solenoid bent round



until the ends almost meet eliminates stray field-backs, and that the spaced windings constitute a natural low loss coil.

Used in a set, the Circloid coils may be placed as close as half an inch to each other. The sample shown to us certainly represents the latest step in coil construction. Standard Circloid transformers are wound to cover broadcast wavelengths up to 550 metres.

U.X. Valves.

The Australian General Electric Company Limited, announce that they have recently landed a shipment of the new Radiotron U.X. valves and these are now available on the Australian market. Amongst other types must be mentioned the Radiotron U.X. 120 valve which is a new dry battery amplifier valve designed to provide increased loud speaker volume and improved quality of reproduction from dry battery operated sets. It is claimed

that this particular valve when used in the last audio stage and connected to a loud speaker, provides even more volume than that obtainable with the U.V.201-A valve under the same conditions. The U.X.112 is designed as a power amplifier for use in the last audio stage of storage battery operated sets. The U.X.210 is a special super power amplifying valve for operation from an ordinary six volt storage battery or from a seven and a half volt rectified A.C. source, so that this valve can be used either in a transmitter or a receiver.

Other valves available are the U.X.216-B for use in B battery eliminators; U.X.213 full wave rectifier for similar purposes and the U.V.877: This is a lamp for protection against shorts in the plate circuit of receivers.

JEWELL JUNIOR TUBE CHECKER.

A new device now obtainable in Australia is the Jewell Junior Tube Checker, which is being marketed by L. P. R. Bean and Co. Ltd. With this instrument it is possible to keep a frequent check on tubes in order to determine whether they are deteriorating or not.

The tube checker is furnished with a plug and cord, which are plugged into the tube socket in the



set, and the tube to be checked is plugged into the socket in tester. The condition of the tube is indicated by readings on the scale of a moving coil milliammeter. Complete instructions are furnished with each Junior Tube Checker.

PERILS OF THE WILD.
Broadcasting Competition.

A rather unique idea, which should prove of great interest to listeners-in, is the proposed broadcasting from 2KY of the Universal Chapter play entitled "Perils of the Wild," which has been adapted from the well-known book "The Swiss Family Robinson." The reading of the manuscript will be illustrated by realistic sounds of the sea—dashing the wrecked ship upon the rocks, the animals upon the desert island, and so on.

In addition to the entertainment and the intense interest of this serial story, 2KY is offering a valuable prize in connection with the competition to be incorporated in the transmission.

The serial commenced on Monday last, February 1st, and one act will be broadcast every following Monday and Thursday, extending over a period of five weeks. During these transmissions three questions will be asked, which listeners are invited to answer and send in to 2KY. The person sending in the correct solutions will receive, without further obligation, a United two valve receiving set, complete with all accessories.

Through the courtesy of Universal Films, who are co-operating with the Trades Hall broadcasting

in conjunction with these broadcasts, a function was recently held at the studio, whereat the copyright of the story was handed over to 2KY.

BROADCASTING COMPETITION.

The number of subscribers to the broadcasting service in Austria increased from 136,621 to 166,136 during the period March 31st to September 1st, 1925. Vienna takes the lead with 133,497 subscribers, or about 80 per cent. of the total, while Lower Austria has 19,787, and Styria, which since March has had its own relay station at Gratz, has 10,801. The number of subscribers in the other provinces is very small. Although interest has lagged greatly since the early months of the wireless boom, it is believed that the decline in the number of subscribers will not exceed 10 per cent. by the end of the year.

AN AUSTRALIAN ABROAD.

Lots of people will remember Phyllis Walls, who used to entertain so delightfully from 2BL. She is now studying at the Royal College in London, and according to a letter received by Miss Bertram, of 2BL, is doing very well, indeed. Some time in the future it is to be hoped that Miss Walls will again be heard from 2BL.

USE **"PINNACLE"**
Honeycomb Coils

and bring in those LONG DISTANCE stations.
PINNACLE COILS are wound with the best grade of cotton covered copper wire. They are extremely rigid and are NOT covered with a large amount of heavy insulation dope. The Mounted Coils are fixed to well fitting Plugs and are protected with black celluloid strapping.

"PINNACLE" COILS FOR SHARP TUNING.
(Note the Variety of Sizes.)

Size—	Turn	Unmounted,	Mounted,
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35	"	1/8	3/8
40	"	1/10	3/10
50	"	2/-	4/-
60	"	2/2	4/2
75	"	2/4	4/4
100	"	2/8	4/8
125	"	2/11	4/11
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It Sounds Ridiculous, but—



Thermo-Ammeter.



Thermo-Galvanometer.

THINK it over—a quarter of an inch in 12 inches represent an error of 2.08 per cent. You would not think of using a rule inaccurate to that extent, so why use cheap instruments even less accurate? The experimenter who uses an unreliable instrument deceives himself, and if he uses none, he is merely guessing.

Good instruments are necessary to the listener-in, also. For instance, a Voltmeter to test the A and B batteries saves valves and adds certainty to results.

Filament Voltmeter

The Model 301 Weston Voltmeter costs more than a tube, but it is invaluable because it saves many tubes from burning out prematurely. With a Weston Voltmeter you can always duplicate instantly any voltage required—and exact tuning is thereafter a simple matter. For quick tuning and good reception, it is an absolute necessity. Case diameter, 3 1/2 in.

Antennae Ammeter

Specially designed to measure antenna current. It eliminates all troubles encountered in hot wire types—has no zero shift, and is thoroughly compensated against changes in temperature. It is the adopted standard in commercial and government work. Plunge diameter, 3 1/2 in.

Thermo-Galvanometer

The Model 325 is a sensitive thermo-millimeter of low resistance for use in connection with wavemeters. It measures wave length and decimetre. Instrument resistance about 4.5 ohms requires 116 milliamperes for full scale deflection. Plunge diameter, 3 1/2 in.

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Booklet 1 describes and illustrates these various Weston instruments. Everyone interested in Radio should send for this important data. If your dealer cannot supply you with Weston instruments, we will gladly see that your needs are promptly supplied.

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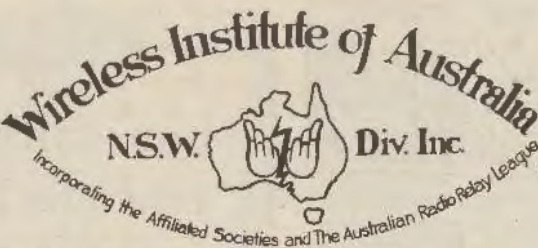
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A.H. Perrett, Publicity Officer.

IMPORTANT SCIENTIFIC TESTS.

CO-OPERATION OF EXPERIMENTERS DESIRED. A CHANCE TO SHOW YOUR WORTH!

The International Time Commission is at present conducting a series of tests from the Eiffel Tower Station (E.T.), from which it is hoped that sufficient data will be obtained to gain some definite ideas of the relative effectiveness of the very long and the very short wavelengths as we know them at present.

The complete arrangements for the tests are contained in a letter to the Institute from Professor W. E. Cooke, the Government Astronomer of the Sydney Observatory, who is anxious to see the fullest possible co-operation from Australian radio experimenters. "We in Australia," says Professor Cooke in his letter, "should make every effort to pick up and schedule the signals, because on account of our geographical position our results will probably be more valuable than those from any other place in the world." The Institute is naturally anxious that the Australian experimenters should play an important part in the tests, and every endeavour will be made to secure the co-operation of its members throughout the Commonwealth.

The signals are being transmitted simultaneously on 32 metres, 75 metres, and 19,900 metres twice daily, viz., at about 2 a.m. and 6 p.m., Sydney time. Operations start at about five minutes before the hour and finish six or seven minutes after the hour. The preliminary signal will be followed by the International signal (O N O G O), except that the three dashes which constitute the G will be replaced by six dots. This signal will finish exactly at the hour, but it will be followed one minute after by a new rhythmic series of signals. This will consist of a dash fol-

lowed by 60 dots until six minutes after the hour. The dash will come at the minute each time.

These tests are to continue until April 30. Now, you can help the movement along by listening to as many of these transmissions as possible, making a comparison between the wavelengths and forwarding a schedule of your results either to Professor Cooke at the Sydney Observatory or to the Institute.

We are depending upon the Institute members for their fullest co-operation. This is surely an opportunity for them to show the value of their work.

GENERAL

Mr. Cecil Crutch, a member of the Institute and one of the old pre-war members, has been asked to assist at Station 2CX during the special nights on 2W1. His acceptance has greatly relieved the operator at that station, and his voice will often be heard on Tuesday nights.

A clockwork driven key has been installed at 2CX for operating the code letters during Standard Frequency Signals from 2W1. We would like to know how it sounds on the air.

SPECIAL HALF-HOUR FOR B.C.L.

It is proposed to institute a special half-hour for the benefit of B.C.L.'s from Station 2W1. Commencing on Tuesday, 2nd March, 2W1 will transmit weekly from 9 p.m. to 9.30 on 200 metres information of value to B.C.L.'s on such subjects as the advantages or disadvantages of different circuits, the characteristics of various valves, methods of tuning, and the best way to get results from your set. This is the finest work ever performed by the Institute on behalf of the B.C.L.

Round the Clubs

The asterisk denotes clubs affiliated with the Wireless Institute of Australia (N.S.W. Division.)

CLUB NOTES OF THE CROYDON CLUB, 2YB.*

The usual weekly meeting of the above club was held in the club rooms, "Rockleigh," Lang Street, Croydon, on Jan. 20, 1926, at 8 p.m.

The meeting was one of the most suspicious in the club's history, owing to the fact that there were no less than eleven transmitters, including three Victorians, Mr. Meekin, Mr. Hull, and Mr. Cox.

The visitors were enthusiastically welcomed by the club members, and Mr. Cox of 3RD fame, then spoke in response. In the course of his remarks Mr. Cox expressed considerable surprise at the way in which all the Sydney clubs that he had visited conducted their meetings. The formation of the Victorian Branch of the W.I.A. was graphically described by him, how from a mere council of club delegates it had expanded into the present form which it now assumes. Mr. Cox then appealed to the club and amateurs in general to co-operate with the B.C.L.'s as much as possible, in the hope that they may be converted into embryo experimenters to swell the thinning ranks of the amateurs. Continuing further, Mr. Cox assured all the transmitters present that the Victorian hams were only too willing to co-operate with the N.S.W. transmitters in the working of interstate traffic, which up to the present had appeared to be neglected in favour of DX hunting.

Mr. Ross Hull was then called upon, and he dealt with the activities of the Federal Executive of the W.I.A. and the good work which it hopes to carry out. Mr. Hull exhorted the amateurs to take advantage of the privilege granted by Mr. Malone allowing them to transmit messages relative to club or Institute business. The forthcoming trans-Pacific tests were expounded by Mr. Hull, and he gave a description of the manner in which it is proposed to carry them out.

The visitors had to depart rather early owing to a previous engagement, but before doing so Mr. Cox extended an open invitation to any club members who may chance to be in Melbourne to visit the Victorian Division Headquarters of the W.I.A. at 443 Little Collins Street, Melbourne.

Mr. W. A. Stewart, of the Waverley Radio Club, then presented his conception of wavemeters, and in the course of his lecture dealt with the construction of a wavemeter of value both to the amateur and B.C.L. alike.

After the lecturer had been thanked in the usual manner, the club then indulged in a general discussion of topical subjects, and the fact that the Affiliated Clubs had beaten the Institute in their debate which had eventuated on Thursday, 18th inst., caused much jubilation amongst the members.

The meeting closed at 10 p.m. until the following Saturday at 7.30 p.m.

All inquiries as to the club's activities addressed to the Hon. Sec., "Rhos," Hay Street, Croydon, will be promptly attended to.

A cordial welcome awaits any visitors who may care to attend the meeting. A Burwood 'bus will drop you at the door.



My friends of the Burgess Battery Company have sent me the following information, which I consider to be sufficiently interesting to pass on complete:—

“A” BATTERIES.

Dry “A” batteries should be tested with a voltmeter. It is true that dry cells are usually “flushed” to show the short circuit amperage, but this is no indication of their capacity—in fact, some of the highest capacity dry cells have only a nominal flush of 25 to 30 amperes. When the closed circuit of the “A” battery is below the “end point” voltage of the tube, it is no longer useful for radio, but it can still be used for ignition and bell service.

A low voltage “A” battery usually results in weak signals and a minimum filament resistance.

“B” BATTERIES.

The correct test of a “B” battery is the voltage test. While battery users and dealers are in the habit of testing dry batteries with an ammeter, this test is worthless on a “B” battery. The amperage indicates, to a certain extent, the internal resistance of a battery, but since the resistance of a 22.5-volt battery is about 5 ohms, and the resistance of a vacuum tube is from 10,000 to 30,000 ohms, it is apparent that an increase of, say, 5 ohms in the battery resistance will have no appreciable effect on the combined “B” battery and tube circuit. In other words a drop in the amperage of a “B” battery, so long as the voltage is still satisfactory, means little regarding the usefulness of the battery.

The important thing to know is the voltage which the battery will deliver to the plate, and the voltage test is of real value only when made with a high grade, high resistance, and accurate voltmeter. It is certain that when a “B” battery indicates a given voltage on a voltmeter of the latter type, it will deliver at least as much voltage to the tube.

While the nominal voltage rating of fifteen cell “B” battery is given as 22.5 volts, the actual voltage of a satisfactory “B” cell is slightly under 1.5 volts. Consequently the complete B battery, when tested on a voltmeter, will not test quite 22.5 volts, but it should not be considered defective for this reason. As a matter of fact, the U.S. Army specifications for Burgess 4156 “B” batteries call for 21.5 volts.

ADVT

(To be continued Next Week)



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As with all IGRANIC Components, the superiority of this Transformer lies in the fact that it is a quality device designed by experienced Radio Engineers and built of finest material by skilled craftsmen; therein lies the secret of the world-wide popularity and prestige of IGRANIC radio devices.

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Experimental work is the life and soul of wireless advancement, but—costly. In the matter of components there is no need now to experiment for the name IGRANIC on radio parts is your guarantee of first-class results from whichever circuit is used. Whenever you are offered goods bearing the IGRANIC trade mark, rest assured you are purchasing the finest quality goods made.

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THE LEICHHARDT AND DISTRICT RADIO SOCIETY.*

The 164th general meeting of the above society was held on Tuesday, 16th inst., at the club rooms, 174 Johnston Street, Annandale. The lecture of the evening, entitled "Aerial Construction," was delivered by Mr. H. W. Leemos. The lecturer, as a preliminary, dealt with various types of aerial systems, such as Cage, Tee, and L, and enumerated their advantages and disadvantages. He then proceeded in his own inimitable way to lucidly explain by means of sketches on the blackboard the best methods of securing and erecting masts. Although the attendance was poor, those that were there were highly appreciative of the lecturer's remarks, as was evidenced by the numerous questions asked and answered. The lecturer was accorded a hearty vote of thanks for his remarks. A feature of the evening is the Morse Class, which is conducted for thirty minutes immediately after correspondence. The next meeting night, 2nd March, is a business meeting night. Inquiries regarding the club's activities should be addressed to Mr. J. G. Arkel, 149 Hereford Street, Forest Lodge, Sydney.

STEATHFIELD AND DISTRICT RADIO CLUB.*

The usual weekly meeting of the above club was held at the club room, corner Albert Road and Dolke Street, Strathfield, on Wednesday evening, Feb. 17, 1926. In the absence of the President, the chair was occupied by a Vice-President. The attendance was fair, considering the extreme heat during the day. After business matters had been dealt with, Mr. Kent gave us a talk on the "Circuits and Principles of A.C. and D.C. Motors" and their different windings. Later, Mr. Burdon gave us a talk on his suggested layout of the club's transmitter, which was very welcome to the committee and members generally.

Morse practice every Tuesday and Friday evenings at the residence of the Secretary is progressing satisfactorily, and members are highly welcome. One of the members has very kindly donated a valve for the club's transmitter.

Any inquiries as to membership will be promptly attended to upon application to the Secretary, Mr. R. Moore, "Brentwood," Camaron Street, Strathfield (one minute from tram at Broadway, Enfield).

THE RADIO QUESTION HOUR.**Is There Collusion?**

One of the most interesting and entertaining novelties ever introduced into wireless programmes—not to mention its value from the point of view of instruction—is the radio question hour at Station 2HL. On Tuesdays until recently, and now on Wednesdays in each week, Mr. J. M. Prentice ceases to be an announcer and shows himself in his capacity of student of world-wide happenings and foreign affairs. It is common knowledge that Mr. Prentice is highly educated and possesses a reputation as a lecturer that extends over three continents, while his versatility is a constant matter of surprise to those who listen to him handling themes as far apart as the Foles with equal authority and fluency. During the war Mr. Prentice came into touch with various personalities of the "great world," and after his demobilisation returned to Europe en route to America. A period spent in France and Italy as a spectator of political events enabled Mr. Prentice to grasp something of the internal conditions and national characteristics. As he is something of a linguist, there was also the possibility of gaining individual viewpoints not otherwise obtainable.

From Europe Mr. Prentice went on to America, and after taking a post-graduate course in psychology at the Carnegie Institute of Technology at Pittsburgh, Pa., he participated in the work of the Presidential Election of 1920 as a strong advocate of the late Dr. Woodrow Wilson and of the League of Nations. At New Orleans he met the late President Harding, and at Pittsburgh the present President, Mr. Coolidge.

From all this it will be seen that Mr. Prentice is admirably qualified to speak on world-wide topics. However, his very fluency has caused a doubt to arise

in some minds as to whether anyone could shift so rapidly from subject to subject without any suggestion of confusion, mental or physical, without some previous knowledge of what was coming. However, we have personally investigated the matter, and can assure the radio fans that all the questions are legitimate questions, that Mr. Prentice has no knowledge of what is to be asked, that no order is pre-arranged in regard to the questions, and that each questioner is treated exactly in the same manner. As the switchboard at Broadcasters is only arranged for three lines, it is obvious that sometimes an engaged signal will be given to the caller, but this does not mean that pre-arranged persons are in possession of the lines.

It is obvious that in any case the final conviction to any interested person is to have first-hand experience, and this can easily be obtained by continuing to ring until a connection with the studio and Mr. Prentice is made. Then it will be found that any question submitted to Mr. Prentice will be answered or a frank admission made that the speaker is not in a position to impart the desired information. For it should be remembered that, as it is, a negative answer is often given.

There are many aspects of foreign affairs that we feel certain Mr. Prentice would like to discuss, but which impinge too closely upon the domestic policies and politics of State and Federal Governments. These are taboo; the Postal Regulations effectively limit the range of such a topic. However, there can be no doubt that Australia in general and Sydney in particular are to be congratulated—as is wireless also—that there is a person who is capable of handling the matter of international relations in so entertaining and instructive a manner, for it is a subject upon which the average Australian is not only quite ignorant, but of the existence of which he hardly suspects.

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This set is built in a handsome foundation cabinet and has a 1 valve set with headphones and a loud speaker permanently built in.

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QUEENSLAND RADIO SERVICE.
Wavelength, 385 metres.

FRIDAY, FEBRUARY 26.

Midday Session.

12.55—Tune-in Signal.

1—Market Reports supplied by the Council of Agriculture; Stock Exchange Information supplied by the Committee of the Brisbane Stock Exchange; Weather Information supplied by the Commonwealth Weather Bureau; "Daily Standard" News Service; Close down.

Night Session.

8—Tune-in Signal. Two! Receptor.
8.5—From the Studio: Septette; The Group of Rochelle (Ruffs); The Ipswich Vice-Regal Band Septette Party; bass solo: The Watchman; (Merrill), Mr. C. Harvey; euphonium solo: The Harmonious Blacksmith (Fred Hone), Mr. Albeck Clark; soprano solo: I Heard You go by (H. Wood), Miss Jean Jarrott; concert duets: Tanniska (Leibow), Messrs. J. W. Begeemeter and W. How; bass solo: Wonders of the Deep (Jude), Mr. N. S. Mackay; baritone solo: Caroline in the Air (Smith), Mr. P. Delington, tenor solo: Serenade (Schubert), Mr. John Stiel; tenor solo: Loving Hours (Lafont), Messrs. V. Maczette and D. Jordan; bass solo: Love in an Ocean (Lohr), Mr. C. Harvey; Quartette; Hymn to Blaise (P. Code), The Ipswich Vice-Regal Band Quartette Party.

1.50—Weather Information Officially supplied by the Commonwealth Weather Bureau.

8.55—Announcements.

9—Jazz solo: My Love, She's but a Lullaby Yet (Horne), Mr. N. S. Mackay; Group of banjo numbers, by Mr. N. Gould; soprano solo: Peg Away (Bevas), Miss Jean Jarrott; instrumental number: Scarf Dance (Chaminade), The Studio Trio; tenor solo: Rose (Adams), Mr. John Stiel; cornet solo: Las Willana (Yardier), Mr. S. Henry; Aeolian selection, duet: Carry me Back to my Carolina Home (Silver Braves), sung by Irving and Jack Knowles; concert solo: Stars in a Velvety Sky (Clarke), Mr. S. Henry; bass solo: Old Harry, Mr. N. A. Gooding; Group of banjo numbers by Mr. N. Gould.

9.55—"The Daily Mail" News Service; Close down.

SATURDAY, FEBRUARY 27.

No Midday Session.

The Children's Session.

The children's bedtime story session is held each Monday, Wednesday, and Saturday evening. At a later date this session will be made a nightly feature, but in the immediate present, while transmission is being effected under temporary conditions, it is held three times weekly.

6.25—Tune-in Signal.

6.30—The Children's Hour: Nursery Rhymes and Music; Bedtime Stories by "The Sandman."

7.15—Close down.

Night Session.

8—Tune-in to the Tivoli Theatre.

8.5—From the Studio: Baritone solo: (a) Uncle Remo (Horne), (b) Because (D'Ignazio), Mr. G. B. McCutcheon; Aeolian Vocal selection, flute solo: Hilda in the Wood (Doppie), played by Mr. John Amadio; soprano solo: (a) Ave Maria (Macnaghi), (b) The Rose Garden (Carso), Miss Vera Morrison; Duo Art selection: Sweet and Low (Raney); bass solo: (a) Sea Fever (Clarke), (b) Coblin (Sanderson), Mr. A. L. North; Aeolian selection, flute solo: Schero Lappicchio (Salabbi), played by Mr. John Amadio; tenor solo: (a) Love Sends a G' Mine (Drou), Signor Gatti; Duo Art selection: Blue Danube Blues (Kern); soprano solo: (a) Serenade (Gunnod), (b) The Swallow (Lovan), Mrs. T. Thurston.

1.50—Weather Information Officially supplied by the Commonwealth Weather Bureau.

8.55—Announcements.

9—Hull an hour's Irish Entertainment by Mr. Chas. O'Hara and Miss Anna Burke. The programme will include the following numbers, by Mr. Chas. O'Hara: (a) Meire My Girl, (b) Blarney Ruess, (c) Father O'Flynn (Grove), (d) Mountains o' Mourne (French and Gillson), Miss Anna Burke's Irish Solo, (e) When Irish Eyes are Smiling (Clout and Ball).

9.30—From Leacock's Hotel. By courtesy of the proprietors, an hour's dance music, played by Miss May Doherty's Vice-Regal Orchestra, will be relayed from Leacock's Ball-room.

10.30—From the Studio, "The Daily Mail" News Service. Close down.

SUNDAY, FEBRUARY 28.

Morning Session.

The complete morning service from the Wheat Street Congregational Church will be relayed, 10.40—Tune-in Signal.

10.50—Organ number by Mr. Arch H. West, L.M.S., T.C.L.

H—Invitation to worship. Introit: Prayer and Lord's Prayer; Hymn 69, Mighty God, While Angela Rose Tree; Scripture, Matthew XXV, 1-10; Hymn 109, The Strain Upraise; Address to Children, Rev. P. Watson, B.A.; Young People's Hymn 782, Just as I Am, Thin Own to Be; Notices and Offering; Anthem, Sweet is Thy Mercy, Lord; (Hosby); Prayer; Hymn 281, We Love the Place, O God; Sermon, The Virtue of Vision; Preacher: Rev. Percival Watson, B.A.; Hymn 305, Lord I Was Blind; Benediction; Postlude.

Afternoon Session.

The Band Concert provided in the Brisbane Botanical Gardens will be relayed, 3.10—Tune-in Signal.

3.15—Band Concert.
3.40—Close down.

Night Session.

The Complete evening Service from the Wheat

Street Congregational Church will be relayed, 6.55—Tune-in Signal.

7—Organ Numbers: (a) March from "Abramam" (Muller), (b) Meditation in F Major (Clauemann), Mr. Arch. H. West, L.M.S., T.C.L. Children's Bedtime Story, Rev. P. Watson, B.A. Organ: Minuet from the "Clock Symphony" (Haydn); violin solo: Concertino (D'Ambrasia); Miss Gwen De Grant, L.A.B.

7.30—Anthem: O Worship like King (Mauser); Hymn 150: O for a Thousand Tongues; Invocation and Lord's Prayer; Scripture: Genesis III, 1-15; Solo: With Verdure Glad (Haydn), Miss Beatrice Puka, L.A.B.; Notices and Offering; Anthem: Saviour, Breathe an Evening Breeze (Sanders); Prayer; violin solo: Benediction (Gould), Miss Gwen De Grant, L.A.B.; Hymn 105; Pious Hopes the Tempest; Sermon: The Fight of Man—Faith or Flattery, Preacher, Rev. Percival Watson, B.A.; Hymn 431: Fight the Good Fight; Benediction; Vesper; Postlude.

At the Conclusion of the Church Service, the concert provided in Wickham Park by the Greater Brisbane Municipal Concert Band (under the leadership of Mr. E. Jackson) will be relayed. Overture: Fest (Lottling); cornet solo: Cavatina, from "La Regina di Golconda" (Denise), Mr. A. Rickwood; song: Morning (Oley Spinks), Mrs. B. Bell; selection (from "Ermano" (Verdi); fantasia: A Simple Melody (E. Jackson); song: I Did Not Know (Touret), Mrs. B. Bell; Pilgrims March and Saitreello, from the Italian Symphony (Mendelssohn); Close Down.

MONDAY, MARCH 1.

Midday Session.

1—Market reports supplied by the Council of Agriculture; Stock Exchange information supplied by the Committee of the Brisbane Stock Exchange; weather information supplied by the Commonwealth Weather Bureau; "Daily Standard" news service. Close down. The Children's Session.

A children's bedtime story session is held each Monday, Wednesday, and Saturday evening. At a later date this session will be made a nightly feature, but in the immediate present, while transmission is being effected under temporary conditions, it is held three times weekly.

6.25—Tune-in signal.

6.30—The Children's Hour. Nursery rhymes and music; bedtime stories by "The Sandman."

7.15—Close down.

Night Session.

St. David's Day: The complete St. David's Society Concert, in celebration of St. David's Day, will be relayed from the Albert Hall, Brisbane.

7.55—Tune-in signal.

8—From the Albert Hall: Welsh Na-

THE JAPANESE STATION.

To the Editor.

Dear Sir,—In a recent issue you ask listeners-in to report reception of station JOAK (Japan). I might state that no difficulty whatever is experienced in bringing in this station every Sunday night, occasionally on the loud speaker. On Sunday night both JOAK and JOBK were brought in, the former on the loud speaker and the latter phones only. On Sunday week JOAK was brought in with such strength that a disinterested party who did not know I was tuning-in Japan heard the announcement two rooms away in the house.

KGO is also occasionally being tuned-in again. A station is also being tuned-in that operates on 355 metres (approximately), and is broadcasting in the Malay States. They were playing dance music with just sufficient strength to work a loud speaker at 1.15 a.m.—Yours faithfully,

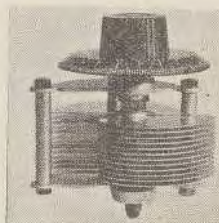
P. BOULTON.

Griffith Street, Albury.

P.S.—Two stages tuned radio used for all the above.

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- tional Anthem, His Wind By Shaduu, Mr. Stan Lewis, solo; selected, Mr. T. Bassett; solo, Idan V. Cariaduu, Mrs. R. W. Morris; duet, The Battle Eye Messors, E. Burgess and J. Thomas; solo, Now Strike the Harp, Miss G. Stewart; solo O'Wald V. Delyn, Mr. J. Roberts; pianoforte, solo, Rhapsody in E Flat Minor (Dohnanyi), Miss Rae Phillips; solo, Y Gwethil Gwyn, Mr. Stan Lewis; Welsh recitation, Gwynn Ein Ewlad Y Fan Thomas; solo, Roundly Y Fran Jones, Mrs. A. Beecham.
- 9.—From the Studio: Weather information officially supplied by the Commonwealth Weather Bureau; announcements.
- 9.10.—From the Albert Hall: Solo, selected, Mr. T. Bassett; solo, Lilyraau Y Wddfa, Mrs. R. W. Morris; address, The Day We Celebrate, Chaplain Major the Rev. B. Ceitho Davies; solo, March E. McInlay, Miss Neta Beecham; solo, Memento, Mr. J. Roberts; recitation, selected, Miss Raddie Davies; solo, Bark After the Bugle Sounding, Miss G. Stewart; solo, selected, Mr. Stan Lewis; solo, selected, Mrs. A. Beecham; quartette, selected, Messrs. E. Lewis, A. Beecham, G. Smith, and Stan Lewis; accompanist, Mr. Archie Day, F.T.C.L.
- 10.—From the Studio: The "Daily Mail" news service. Close down.

TUESDAY, MARCH 2.

Midday Session.

- 12.35.—Tune-in signal.
- 1.—Market reports supplied by Council of Agriculture; Stock Exchange information supplied by the Committee of the Brisbane Stock Exchange; weather information supplied by Commonwealth Weather Bureau; "Daily Standard" news service. Close down.
- 2.—Musical Session.
- 8.—Tune-in to the Tivoli Theatre.
- 8.5.—From the Studio: Soprano solo, The Pearl Cross (Marshall), Miss Dorothy Brown; 10 minutes of humour by Mr. C. W. Syd Beck and Mr. Victor Gouret; cornet solo, Star of England (Farroll), Mr. W. H. Davis; baritone solos, (a) That Old Irish Mother, (b) Pal O Mine (by request), Mr. G. Caselman; lecture, Photography, by Mr. F. L. Smith (Manager Kodak Ltd.); baritone solo, Young Tom O'Devlin (Russell), Mr. S. Mitchell; instrumental number, Variation (Chaminade); the Studio Trio; contralto solo, A Love Remembered Not (Dorothy Farater); Miss Vera Parker; Australian Vocalion selection, fox trot, My Neighbour (Spender), played by The Ambassadors; vocal duet, I Love You Truly (Carrie Jacobs Bond), Miss Mabel Parker and Miss Vera Parker; baritone solo, The Youngest Royalist (Adams), Mr. Lawrence Sheridan.
- 8.50.—Weather information officially supplied by the Commonwealth Weather Bureau.
- 8.55.—Announcements.
- 9.—Soprano solo, Meadowsweet (May Brabe), Miss Dorothy Brown; cornet solo, The Exile's Lament (Reek Albert), Mr. W. H. Davis; baritone solo, Shipmaster O' Mine (Sanderson), Mr. S. Mitchell; instrumental number, fox trot, My Girl said Yes (Sherman), the Studio Trio; soprano solo, A Perfect Day (Carrie Jacobs Bond), Miss Mabel Parker; baritone solo, She is Far From the Land (Lambert), Mr. Lawrence Sheridan.
- 9.25.—From the Centennial Hall: By courtesy of the lessee, half an hour's dance music, played by the Centennial Hall Orchestra, will be relayed

from the hall. The programme played by the orchestra will include fox trots, My Sweet Australian Wattle Girl (Hershel Tenlere), On the Shores of Minnetonka (Gus. Kahn, P. Wenrich), Don't Bring Lulu (Ross, Brown and Henderson); waltzes, Fanny (Henry Young, P. Anderson), Lonely (J. O'Hagan, Tom Swift), Isle of Tangarini (Carlo Saunders), one steps, Home, Sweet Home (W. Merrin), Annie (W. Stasley, A. Allan, J. G. G. Gibbers), The Midnight Glee Choo (J. G. Gibbers).

9.35.—From the Studio, the "Daily Mail" news service.

10.—Close down.

WEDNESDAY, MARCH 3.

Midday Session.

- 12.55.—Tune-in signal.
- 1.—Market reports supplied by the Council of Agriculture; Stock Exchange information supplied by the Committee of the Brisbane Stock Exchange; weather information supplied by the Commonwealth Weather Bureau; "Daily Standard" news service. Close down.
- The Children's Session.
- A children's bedtime story session is held each Monday, Wednesday, and Saturday evening. At a later date this session will be made a nightly feature, but in the immediate present, while transmission is being effected under temporary conditions, it will be held three times weekly.
- 6.25.—Tune-in signal.
- 6.30.—The Children's Hour. Nursery rhymes and songs; bedtime stories by "Little Miss Brisbane."
- 7.15.—Close down.
- 8.—Night Session.
- 8.—Tune-in to the Tivoli Theatre.
- 8.5.—From the Studio: Bass solo, Two Little Lions (L. Long), Mr. C. W. Syd Hervey; pianoforte solo, Refrain del Perseus (Palmgren), Miss Rae Phillips; elocutionary number, Not Understood (Bracken), Mr. C. W. Syd Beck; baritone solo, I've been (Eubin), Mr. C. V. Woodland; 10 minutes of humour by Mr. Syd. Beck and Mr. Victor Gouret; Hawaiian Instrumentalists, By the Blue Lagoon, the Kalua Trio; soprano solo, Swing Low, Sweet Chariot (Bright), Miss V. Marcew; pianoforte solo, Rite of Spring (Strindberg), Miss Rae Phillips; tenor solo, Fairy Song (Droughton), Mr. John Steel; elocutionary number, The Lifeboat (Geo. R. Sims), Mr. C. W. Syd Beck; bass solo, Hata off to the Saker (Avondale), Mr. C. Hervey; Hawaiian Instrumentalists, (a) Drowsy Waters, (b) Hawaiian Echoes, the Kalua Trio; soprano solo, Never Forget, Miss Vera Marcew.
- 8.50.—Weather information officially supplied by the Commonwealth Weather Bureau.
- 8.55.—Announcements.
- 9.—Baritone solo, Little Irish Girl (Lott), Mr. C. V. Woodland; Hawaiian Instrumentalists, Palakalo Blues, the Kalua Trio; tenor solo, Rosebud (Drummond), Mr. John Steel.
- 9.15.—From the Tivoli Theatre: By courtesy of the directors of Haymarket Theatre, bass solo, Hata off to the Saker programme by the Tivoli Operatic Orchestra, under the baton of Mr. C. Groves, will be relayed.
- 9.35.—From the Studio, the "Daily Mail" news service.
- 10.—Close down.

THURSDAY, MARCH 4.

Midday Session.

- 12.55.—Tune-in signal.

- 1.—Market reports supplied by the Council of Agriculture; Stock Exchange information supplied by the Committee of the Brisbane Stock Exchange; weather information supplied by the Commonwealth Weather Bureau; "Daily Standard" news service. Close down.
- 2.—Night Session.
- 8.—Tune-in to Tivoli Theatre.
- 8.5.—From the Studio: Bass solo, Lowland Sea (Branconner), Mr. N. S. Mackay; Bookman's Radiette, a talk on literature by Mr. W. A. Braddon; soprano solo, Farewell to My Home (Chaminade), Miss Beryl Solomon; instrumental number, To Spring (Grieg); the Studio Quartette; tenor solo, Fur You Alone (Geehl), Signor Corti; Acolian selections, Hawaiian music, (a) Hawaiian Love Nest (Shawwood), (b) Can you bring back the Heart (Clay-Johnson), bass solo, Son o' Mine (Russell), Mr. N. S. Mackay; soprano solo, The Rosary (Nevin), Miss R. G. Husband; tenor solo, Slave Song (del Rio), Signor Corti; Duo Act selection, Parade of the Tia Soldiers (O'Hagan); soprano solo, Prelude (Ronald), Miss Beryl Solomon; instrumental number, "Piccadilly Blues (McKurtain), the Studio Quartette; soprano solo, When Song is Sweet (San Souci), Miss R. G. Husband.
- 8.50.—Weather information officially supplied by the Commonwealth Weather Bureau.
- 8.55.—Announcements.
- 9.—From the Band Room: An impromptu programme of music by the Greater Brisbane Municipal Concert Band, under the leadership of Mr. E. Jackson, will be relayed from the band's room.
- 9.55.—From the Studio, the "Daily Mail" news service. Close down.

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FRIDAY, FEBRUARY 21.

Afternoon Session.

- 2.30.—A varied vocal and musical programme will be transmitted closing down at 4.45 p.m.
- Children's Hour.
- 6.30.—"The Man in the Moon."
- Evening Session.
- 7.45.—Latest News Items, Miss Lane Diefel, L.K.C.M.; Miss Mabel Carroll soprano; Mr. Alf James (baritone); and Mr. Beard, Technical Designer of 2KY, (Wireless Lecturer); Ed. Cordeury's Moonlighters Dance Orchestra and others to be announced.

SATURDAY, FEBRUARY 27.

Evening Session.

- 7.45.—2KY's First Big Public Entertainment, "A Night in the Studio" broadcasting from St. James' Hall, Phillip Street, Sydney. A wonderful programme has been arranged. See daily papers.
- MONDAY, MARCH 1.

Afternoon Session.

- 2.30.—A varied vocal and musical programme will be transmitted, closing down at 4.45 p.m.
- Children's Hour.
- 6.30.—"The Man in the Moon."

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Evening Session.

7.45—Latest News Items; Miss Amy Rowland (entertainer); Miss D. Johnston (soprano); Mr. W. Strain (tenor); Mr. Walter Faulkner (musical burlesque); Lecturers: "Local Topics, Political and Industrial," Mr. J. S. Gardon; Wireless Lectures; Mr. Beard; Technical Diagrams, 2KX; 9th Chapter of The Universal Chapter Play, "Perils of the Wild"; Social Story.

TUESDAY, MARCH 2.

Afternoon Session.

2.30—A varied musical and vocal programme will be transmitted, closing down at 4.45 p.m.

Children's Hour.

5.30—"The Man in the Moon."

Evening Session.

7.45—Latest News Items; Mr. McKillop (Trans-vaal Comedian); Miss Horvath (soprano); Cec. Morris and his Bluebird's Jazz Band; Lecturers, Miss E. M. Swain, "The Economy of Human Energy"; Miss Zara Nilsson (soprano).

WEDNESDAY, MARCH 3.

Afternoon Session.

2.30—A varied musical and vocal programme will be transmitted during the afternoon, closing down at 4.45 p.m.

Children's Hour.

6.50—"The Man in the Moon."

Evening Session.

7.45—Latest News Items; Miss Eileen Claret (soprano); Miss Deem (pianist); Mr. Don Ellis (baritone); Lecturers, International Topics, Industrial and Political, Mr. J. S. Gardon; Mr. R. Webster (baritone); Mr. Percy Brown (monologue); Mr. Sullivan (tenor); Miss Thompson (soprano).

THURSDAY, MARCH 4.

Afternoon Session.

2.30—A varied musical and vocal programme will be transmitted closing down at 4.45 p.m.

Children's Hour.

6.30—"The Man in the Moon" and Uncle Val.

Evening Session.

7.45—Latest News Items; Moore, Haydon and Price (cornet duet); Miss Tibbie Smith (monologue); Miss Beckie Jones (contralto); Last Chapter of The Universal Chapter Play, "Perils of the Wild"; Mr. Eric Goldsch (Hunting steel guitar); Lecturer, "Australian Poets," Mr. Thomas; Lecturer, "Some remarkable lives by the Abrams method," Miss E. L. Patrick.

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FRIDAY, FEBRUARY 26.

Afternoon Session.

3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.

1.15—Music from the Studio.

3.30—G.P.O. Clock and Chimes; A talk on Modern English Poetry, by Mr. J. M. Prentice.

3.45—Music from the Studio.

4—G.P.O. Clock and Chimes; Music from the Studio.

4.10—G.P.O. Clock and Chimes; Serial Story entitled "The Treasure of Ho."

4.45—Music from the Studio.

4.45—Late Market Reports from The Sun.

5—G.P.O. Clock and Chimes; The Sun News Service.

5.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

6—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.

6.30—Sporting Resume from Sun Newspapers;

The Pupils of Miss Monica Scully will entertain the Kiddies.

7.35—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.

7.50—Close down.

Evening Session.

From the Studio; By courtesy of Parsons & Whitmore's the True Blue Jazz Orchestra under the direction of Mr. Cec. Morrison will be heard in a jazz programme. The Harmonics, Vocal Quartette, and Miss Thelma Houston. During the evening Mr. H. C. Morgan will speak on "Motoring" and Mr. J. M. Prentice will deliver his "Round-the-World-Travelogue."

SATURDAY, FEBRUARY 27.

Afternoon Session.

2—G.P.O. Clock and Chimes; Special Sporting Information broadcast direct from Sun Office.

3.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

6—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.

6.30—Sporting Resume from Sun Newspapers;

Uncle Jack and the Kiddies.

7—A Talk to the Kiddies by "Bibi-ga."

7.45—A Talk on "Reads."

Evening Session.

Abad Duo to steel guitar selections; Billy Dick in songs at the Piano; Reg. Harrison, comedian; Gladys Hart, soprano.

SUNDAY, FEBRUARY 28.

11 a.m.—Service Broadcast from Chalmers Street Presbyterian Church; Minister: Rev. D. F. Brandt.

3.30—Concert from the Studio.

7.15—Service Broadcast from St. Thomas' Church of England, North Sydney; Minister: Rev. H. N. Baker.

8.30—Concert from the Studio including Norman Wright, tenor; Broadcaster's Minstrel Orchestra; Andre Navarre; baritone.

MONDAY, MARCH 1.

Afternoon Session.

1—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.

3.15—David Jones' Tea Room Trio.

3.30—G.P.O. Clock and Chimes; A talk on A Course in English Literature, by Mr. J. M. Prentice.

3.45—Music from the Studio.

4—G.P.O. Clock and Chimes; David Jones' Tea Room Trio.

4.15—Music from the Studio.

4.30—G.P.O. Clock and Chimes; Serial Story entitled The Treasure of Ho.

4.45—Music from the Studio.

4.55—Late Market Reports from The Sun.

5—G.P.O. Clock and Chimes; Sun News Service.

5.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

6—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.

6.30—Sporting Resume from Sun Newspapers;

Uncle George and the Kiddies.

7.30—What's On, a guide to the visitors and citizens of Sydney.

7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.

7.50—Close down.

Evening Session.

North Sydney Orphan's Walk, broadcast from the Warrigah Hall, North Sydney.

Studio: Roger Jones, baritone; Mable Belmont, contralto; Mary Charlton, pianist.

Dance music until midnight supplied by Ambassador's Dance Band under the direction of Al. Hamnett.

TUESDAY, MARCH 2.

Afternoon Session.

3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.

3.15—Music from the Studio.

3.30—G.P.O. Clock and Chimes; Home Talks, by Mr. G. A. Saunders.

3.45—Music from the Studio.

4—G.P.O. Clock and Chimes; Music from the Studio.

4.30—G.P.O. Clock and Chimes; Serial Story entitled The Treasure of Ho.

4.45—Music from the Studio.

4.55—Late Market Reports from The Sun.

5—G.P.O. Clock and Chimes; Sun News Service.

5.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

6—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.

6.30—Sporting Resume from Sun Newspapers;

Uncle Jack and the Kiddies.

7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.

7.50—Close down.

Evening Session.

Concert broadcast from Town Hall, Sydney. Artists assisting: Norman Johnson, baritone; Broadcaster's Trio.

WEDNESDAY, MARCH 3.

Afternoon Session.

3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.

3.15—Broadcaster's Trio.

3.30—G.P.O. Clock and Chimes; Special Musical Session.

4—G.P.O. Clock and Chimes; Broadcaster's Trio.

4.30—G.P.O. Clock and Chimes; Serial Story entitled The Treasure of Ho.

4.45—Broadcaster's Trio.

4.55—Late Market Reports from The Sun.

5—G.P.O. Clock and Chimes; Sun News Service.

Early Evening Session.

6.30—Sporting Resume from Sun Newspapers;

Uncle George and Uncle Jack with the Kiddies.

7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land and Finance Company.

7.50—Close down.

Evening Session.

Popular Concert from the Studio featuring Mr. Lance Jeffers, and Miss Leah Freedman, pianist. During the evening Mr. David Andrew will speak on Life History of White Ants, and Mr. J. M. Prentice will speak on Foreign Affairs and reply to any telephonic question on the subject.

THURSDAY, MARCH 4.

Afternoon Session.

3—G.P.O. Clock and Chimes; Weather Reports and Social Notes from The Sun.

3.15—David Jones' Tea Room Trio.

3.30—G.P.O. Clock and Chimes; A talk on Books, by Mr. G. A. Saunders.

3.45—Music from the Studio.

4—G.P.O. Clock and Chimes; David Jones' Tea Room Trio.

4.15—Music from the Studio.

4.30—G.P.O. Clock and Chimes; Serial Story entitled The Treasure of Ho.

4.45—Music from the Studio.

4.55—G.P.O. Clock and Chimes; Sun News Service.

Early Evening Session.

6.30—Sporting Resume from Sun Newspapers;

Uncle Jack and the Kiddies.

7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.

7.50—Close down.

Evening Session.

Variety programme from the Studio featuring Durrig Ward, soprano; W. E. Lewis, baritone in songs and duets; Mylene Linton and Nancy Stewart.

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- 3.1—Retained from Maple Leaf Cafe; Orchestral Numbers.
 3.15—Broadcast from Studio: Serial Story.
 4—G.P.O. Chimes.
 4.1—Broadcast from Ananda Cafe; Orchestral Numbers.
 4.35—Stock Exchange Reports, General Information and Station Announcements.
 5—G.P.O. Chimes.
 Evening Session (6.20 to 10.30).
 6.05—G.P.O. Chimes.
 6.25—Bedtime Stories for the Children.
 7.15—Health Talk arranged by Mr. A. M. Whitenbury.
 7.30—Stock Exchange and Market Reports, and Station Announcements.
 7.40—Talk on Poetry by Mr. A. M. Whitenbury.
 8—G.P.O. Chimes.
 8.1—Novelty Night: Adelaide's best Artists will give their best in a night of wonders.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 9.3—Novelty Night, continued.
 10—G.P.O. Chimes.
 10.15—Abstract News Service.
 10.30—Station Announcements: To-morrow's Programme: National Anthem: Good Night.

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FRIDAY, FEBRUARY 26.

- Midday Session, 12 to 2.
 12—Time signal; British official wireless news and telegrams; Reuter's and the Australian Press Association cables; "Argus" and "Herald" news services; shipping intelligence.
 12.45—Stock Exchange information.
 13.30—Meteorological information: weather forecast for Victoria, Tasmania, N.S. Wales, and N.S.W.; ocean forecast; river reports.
 1—Time signal.
 1.1—The Studio Orchestra, overture, Minello (Gosnad).
 1.5—Mr. Walter Smith, cornet solo, Weber's Last Waltz.
 1.15—Mr. Harry Ratcliffe, Kappel in "Lilac Time," by permission of J. G. Williamson Ltd., Hig Ben.
 1.18—The Studio Orchestra, Bombay (Chaplin).
 1.25—Miss Agnes Fortune, piano solo, The Lake (Bennett).
 1.29—Mr. Harry Ratcliffe, baritone, Sometimes at Dawn (Wood).
 1.32—The Studio Orchestra, Merry Widow Selection (Lohar).
 1.47—Mr. Harry Ratcliffe, baritone, Charabanc Joy (Chorus).
 1.50—The Studio Orchestra, Sey, who is that Baby Doll (Laugel). The Kinky Kids' Parade (Donaldson).
 2—Time signal. Close down.
 Afternoon Session, 3 to 6.
 3—Time signal.
 3.1—The Studio Orchestra, Symphony No. 40 (Mozart).
 3.25—Jack Dunno, baritone, by appointment with J. G. Williamson Ltd., Ye Son (Finden), Little Garden I Love (Townsend).
 3.35—Miss Tasma Therman, 'cello solo, L'archetto (Hesselt).
 3.39—"Au Pair" of Buckley & Nunn Ltd., fashion talk.
 3.51—Miss Beryl Pratt, soprano, by permission of J. G. Williamson Ltd., Come to the Fair (Martin), Musetta's Song (La Boheme).
 4.1—The Studio Orchestra, Dreamy Carolina Moon (Lloyd).

- 4.7—The Studio Orchestra, Ukulele Lady (Whiting).
 4.13—Mr. Jack Dunno, baritone, A Glance (Bonnus), The Way Home (Liddle).
 4.20—Miss Bessie Gaunson, viola solo, Old Folk at Home (Krepler).
 4.26—The Studio Orchestra, Marietta Coquette (Ancliffe).
 4.31—Miss Beryl Pratt, soprano, Sing, Blackbird (Phillips), One Fine Day.
 4.35—Instrumental Trio, Berceuse de Jocelyn (Godard).
 4.40—"Argus" and "Herald" news; Reuter's and the Australian Press Association cables.
 5—Time signal. Close down.
 Evening Session, 6 to 7.15.
 6—Children's Hour. Stories by Billy Bunsy: Nursery Rhymes, The Magical Trip, Houses of the Eagle.
 6.45—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
 6.55—Weather synopsis; shipping movements.
 7.57—Stock Exchange information.
 7.58—Fish market reports by J. B. Borstad.
 7.6—Fruit market reports by the State Fruit Advisory Board.
 7.6—Market reports by the Victorian Producers' Co-operative Co. Ltd.
 Night Session, 7.30 to 11.
 7.20—Under the auspices of the Develop Australia League, Mr. E. J. Brady, "A Continent to Waste."
 7.40—Mr. Claude Fleming, Baron Von Schöber in "Lilac Time," will speak from his dressing-room at the Theatre Royal, by permission of J. G. Williamson Ltd.
 8—Mr. Hugh R. Weir, general secretary, Victoria Amateur Athletic Association.

- "Victorian Track and Field Games Championships."
 8.15—Community singing by the Community Singing Society of Ballarat, transmitted from the Ballarat City Hall. Opening chorus, of local composition; chorus, Look for the Silver Lining; tenor solo, Mr. Rupert Oatis, Takes a Pair of Sparkling Eyes, Ben Bolt; chorus, When the Great Red Dawn, Sweet Genevieve; quartet, Brown Hill Male Quartette, Let the Best of the World, Poor Old Joe; soprano solo with flute obligato, Miss Mary Kingston, Mr. Ern Lewiston; chorus, Soldier's Farewell, Balls of St. Mary; baritone solo, Mr. W. S. Sampson, To a Minstrel, A Farewell; chorus, Ring of Ballarat, Moonlight and Roses; solo and chorus, Mr. Bert Humphries, Loch Lomond; cornet solo, Mr. Jack Allan; chorus, The Glory Song, Land of Hope and Glory; duet, Miss Ella Bayley and Mr. Cedric Gower, The Voyagers, There is a Garden; chorus, Wait for the Waggon, Till We Meet Again.
 From the Studio:
 10—Mr. Leslie Brunning, Gardening Notes—Astrichium or Snappers.
 10.15—"Argus" and "Herald" news services.
 10.20—The Studio Orchestra, Daughter of the Regiment (Dunitz).
 10.30—Mr. Percy Blundell, tenor, You'll Get Henna o' Locks (Clarke), Lollie (Peebles).
 10.37—The Studio Orchestra, Chanson Napolitaine.
 10.45—Mr. Percy Blundell, tenor, The Last Water of Humberston (MacKenzie).
 10.52—The Studio Orchestra, Springtime Intermzzo (Drum).
 11—"God Save the King."

SATURDAY, FEBRUARY 27.

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- Midday Session, 12 to 2.
 12—Time signal; British official wireless news from Rugby; Reuter's and the Australian Press Association cables; "Argus" and "Herald" news services; shipping intelligence.
 12.45—Stock Exchange information.
 12.50—Meteorological information: weather forecast for Victoria, Tasmania, N.S.W., and S. Australia; ocean forecast; river reports.
 1—Time signal; result of the Pinza Hurde from the V.R.C. Meeting.
 1.6—The Studio Orchestra, William Tell (Rogini).
 1.15—Miss Tasma Therman, 'cello solo, Abendlied (Schumann).
 1.23—Miss Belle Pollard, soprano, Carriolina (Pann), On Mighty Seas.
 1.29—The Studio Orchestra, The Barter's Bride (Sommetan).
 1.30—Result of the St. Leger and the Escudon Stakes.
 1.44—Miss Belle Pollard, soprano, Beautiful Lady, A Little Queen's Prayer.
 1.51—The Studio Orchestra, Morning, Noon and Night (Sappé).
 2—Close down.
 Afternoon Session, 3 to 5.
 3—Time signal.
 3.1—The Victrolons Orchestra, fox trots, Bombay, Na One, Ukulele Lady.
 3.15—Result of the Newmarket Handicap.
 3.18—The Victrolons Orchestra, waltzes Funny, Louisiana, fox trot Huh Lon.
 3.30—Miss E. Lasker, Nina (Pargolise), Pierrot (Schwan).
 3.47—The Victrolons Orchestra, I can't Realise, Show me the Way to go Home, Japanese Sunset.
 1.50—Result of the Sires' Produce Stakes.
 1.53—The Victrolons Orchestra, Wen-

- derland of Dreams, Oh! how I Love my Darling."
- 4.—Miss E. Lasker, soprano, Fairy Lullaby (Quilter) To You (Rodenbach).
- 4.7.—The Victrolous Orchestra, Sweet Little You, Yes, Bymt that's my Baby, Peter Pan, Yearning, Flag that Train, San Francisco.
- 4.30.—Result of the Brunswick Stakes.
- 4.33.—The Victrolous Orchestra, Shanghai, Berids a Silvery Stream, Seventeen.
- 4.45.—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
- 5.—Time signal. Close down.
- 5.—Evening Session, 5.45 to 7.15.
- 5.45.—All sporting results, local country and interstate.
- 6.—Children's Hour. Stories by Mary Gunleat: Poem, "Sand between the Toon"; for the blithest ones, "The Musical Box; boys and girls, "The Story of Hinwahla."
- 5.45.—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
- 6.53.—Weather synopsis; shipping movements.
- 6.57.—Stock Exchange information.
- 7.2.—Fish market reports by J. B. Borrett Ltd.
- 7.4.—Fruit market reports by the State Fruit Advisory Board.
- 7.6.—Market reports by the Victorian Producers' Co-operative Co. Ltd. Night Session, 7.20 to 11.
- 7.20.—Mr. Frederick Chapman, A.L.S., "Glasses and their Kindred."
- 7.40.—Mr. G. H. Long, M.A., "Australia's Worst Day," "Black Thursday."
- 8.—First act of "Lilac Time," transmitted from the Theatre Royal by permission of J. G. Williamson Ltd. Opening chorus and dance; trio, Tilli and Willi and Lili Volt, Mascotte Ralston, Mabel Gibson, and Harriet Bonnet; quartette, We're Four Jolly Brothers, Noel Allen, Herbert Brown, Harry Ratcliffe, and Claude Fleming; solo and quartette, Hark Hark, the Lark, John Ralston, Noel Allen, Herbert Brown, Harry Ratcliffe, Claude Fleming; quintette, Underneath the Lilac Bough, John Ralston, Noel Allen, Herbert Brown, Harry Ratcliffe, and Claude Fleming; duo, A Kiss in the Rhythm of It, Harriet Bennet and John Ralston; finale.
- 8.54.—The Studio Orchestra, A Country Girl (Monckton).
- 9.10.—The Calyos, George Walker and Jessie Bunting, Show us my Rose, The Sweetest Flower that Blows, The Tarzan Rag.
- 9.40.—Mr. John H. Macdonald, specialty elog dancer and Scotch songs and patter elog dancing.
- 9.50.—The Studio Orchestra, American Mandolin Serenade (Tobani).
- 10.—Sporting results; "Argus" and "Herald" news.
- 10.10.—Mr. John H. Macdonald, in Scotch songs and patter and specialty elog dancing.
- 10.20.—The Calyos, Scotch entertainers, No Wonder, In the Heleons, Come Where the Lilies.
- 10.50.—The Studio Orchestra, Dances from the Fairy Queen.
- 11.—"God Save the King."

SUNDAY, FEBRUARY 28.

Morning Session, 11.

- 11.—Harvest Thanksgiving Services from the Salvation Army Temple, conducted by Lieut Colonel Giese, The Afternoon Session, 3 to 4.30.
- 3.—Central Mission Wesley Church Pleasant Sunday Afternoon Service; chairman, Rev. J. H. Cain.

Evening Session, 6 to 8.45.

- 6.—Children's Hour. Stories by Billy Bunny; Bible Stories.
- Night Session, 7 to 10.
- 7.—Service from Welsh Church.
- 8.30.—Grand Charity Concert, at the Tivoli Theatre, in aid of the Bush Fire Appeal Fund, in conjunction with the Victorian Postal Institute Choir and leading theatrical artists (by permission of Musgrove's Theatres Ltd.).

MONDAY, MARCH 1.

Middy Session, 12 to 2.

- 12.—Time signal; British official wireless news from Rugby; Reuter's and the Australian Press Association cables; "Argus" and "Herald" news services; shipping intelligence.
- 12.45.—Stock Exchange information.
- 12.50.—Meteorological information; weather forecast for Victoria, Tasmania, S. Australia, and N.S.W.; ocean forecast; river reports.
- 1.—Time signal.
- 1.1.—The Studio Orchestra, Lucrezia Borgia Selection (Donizetti).
- 1.13.—Herbert Walton, playing Novoty in "Lilac Time" (by permission of J. G. Williamson) in a few merry moments.
- 1.25.—Bessie Gaunson, violin solo, Cavatina (Bak).
- 1.32.—Orchestra, Pomp and Circumstance (Elgar).
- 1.39.—Herbert Walton in a few merry moments.
- 1.50.—Orchestra, La Source, Ballet Suite (Debussy).
- 2.—Time signal. Close down.
- 2.—Afternoon Session, 3 to 5.
- 3.—Time signal.
- 3.1.—The Studio Orchestra, The Messenger Boy (Godfrey).
- 3.15.—Eugene Tiernan, 'cello solo, Elegy (Masenet).
- 3.22.—Jack O'Hagan, baritone, When the one you love loves you, Pal of my Gladie Days.
- 3.25.—Orchestra, fox trot, Peter Pan (Hudson).
- 3.34.—Dorothy Roxburgh, viola solo, Berceuse (Jouet).
- 3.40.—Miss Flora Pell, Domestic Economy.
- 3.55.—Miss Beatrice Kendrick, contralto (by permission of J. G. Williamson Ltd.), The Birds Go North Again (Willeby), Sink, Red Sun (dol Riego).
- 4.—Orchestra, Chanson Napolitaine (Baldoni).
- 4.7.—Walter Smith, cornet solo, Polka L'Idle (Mink).
- 4.14.—Jack O'Hagan, baritone, Sorry, Come Back, Old Pal.
- 4.21.—Orchestra, Yearning (Burke).
- 4.26.—Let it Rain (Deson).
- 4.30.—Miss Beatrice Kendrick, contralto, Nature's Hymn (Beethoven), Less than the Dust (Finden).
- 4.37.—Orchestra, Light Cavalry (Suppe).
- 4.45.—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
- 5.—Time signal. Close down.
- Evening Session, 6 to 7.15.
- 6.—Children's Hour. Stories by Billy Bunny; Nursery Rhymes, The Magician's Trip, Houses of the Eagle.
- 6.45.—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
- 6.53.—Weather synopsis; shipping movements.
- 6.57.—Stock Exchange information.
- 7.2.—Fish market reports by J. B. Borrett Ltd.
- 7.4.—Fruit market reports by the State Fruit Advisory Board.

- 7.6.—Market reports by the Victorian Producers' Co-operative Co. Ltd. Night Session, 7.20 to 11.
- 7.20.—Under the auspices of the Town Planning Association, "Town Planning from a Nature Lover's point of view," Mr. J. L. Manziels.
- 7.40.—Mr. Wesley C. Park, B.Sc., "Chemistry—Historical Material Medical."
- 8.—First act of "Lilac Time," transmitted from the Theatre Royal by permission of J. G. Williamson Ltd. Opening chorus and dance; trio, Tilli and Willi and Lili Volt, Mascotte Ralston, Mabel Gibson and Harriet Bonnet; quartette, We're Four Jolly Brothers, Noel Allen, Herbert Brown, Harry Ratcliffe and Claude Fleming; solo and quartette, Hark Hark, the Lark, John Ralston, Noel Allen, Herbert Brown, Harry Ratcliffe, Claude Fleming; quintette, Underneath the Lilac Bough, John Ralston, Noel Allen, Herbert Brown, Harry Ratcliffe and Claude Fleming; duo, A Kiss in the Rhythm of It, Harriet Bennet and John Ralston; finale.
- 8.50.—The Studio Orchestra, Moland Yemu (March of the Men of Harlech).
- 9.6.—The Cambrian Glee Party, Cambrian Plum (Richards), God Bless the Prince of Wales (Richards).
- 9.13.—Miss Iris Turner, soprano, Cadair Idris (Oas Bright Summer Morning), Y Saith Gysgod.
- 9.25.—The Studio Orchestra, Selection of Welsh Airs (Godfrey).
- 9.36.—Mr. J. Howlett Moss, Some Princess of Wales.
- 9.56.—"Argus" and "Herald" news services.
- 10.—Eric Jones, bass, Ridin thro' the Night (Smith), Cotswold Love (Mulliner).
- 10.9.—The Cambrian Glee Party, Cwm Rhonda, Nos Galan (New Year's Eve).
- 10.16.—Walter Smith, cornet solo, I Fowynleir (The Blackbird).
- 10.21.—Owen Griffith, tenor, Mentr Gwyn (Songs of Wales), Gwlad y Delyn (Land of Song).
- 10.28.—Miss Agnes Fortune, piano solo, Bugeliter Gwynydd Gwyn.
- 10.35.—Mrs. Turner, soprano, Ar hedy y Nos (All thro' the Night), Y Ddraig Fur (Gentle Bird).
- 10.40.—The Cambrian Glee Party, Coed yr Hedydy, The King of the Lark, Trws Y Garreg (Over the Stone).
- 10.47.—Dorothy Roxburgh, viola solo, Clychun Aberdyfi (Bells of Aberdyfi).
- 10.53.—Owen Griffith, accompanied by chorus and orchestra, Land of My Fathers.
- 11.—God Save the King.

TUESDAY, MARCH 2.

Middy Session, 12 to 2.

- 12.—Time signal; British official wireless news from Rugby; Reuter's and the Australian Press Association cables; "Argus" and "Herald" news services; shipping intelligence.
- 12.45.—Stock Exchange information.
- 12.50.—Meteorological information; weather forecast for Victoria, Tasmania, S. Australia, and N.S.W.; ocean forecast; river reports.
- 1.—Time signal.
- 1.1.—Orchestra, Merry Wives of Windsor (Nicolai).
- 1.9.—Tasma Tiernan, 'cello solo, Koa Nadra (Bruch).
- 1.16.—Marie Bremner, soprano (by per-

- mission of J. C. Williamson Ltd., Ave Maria (Schubert), Pleading (El zar).
- 1.23—Orchestra, Athalia (Mendelssohn).
1.24—Result of the Hopalong Steeple.
1.25—Bessie Gannoun, violin solo, Polic-kiolle Sorenales (Kreutzer).
1.40—Marie Bremner, soprano, One Pina Day (Puccini), Aishah (Chodwick).
1.47—Orchestra, Characteristic suite, 1 Spanish, 3 French, 3 Italian, 1 American, 5 Egyptian, 6 Irish.
2—Time signal. Close down.
2.25—Result of the Elms Handicap.
Afternoon Session, 3 to 5.
3—Time signal.
3.1—The Studio Orchestra, Coriolan (Beethoven).
3.9—Result of the March Steeple.
3.12—Instrumental Trio, Agnus Dei (Bizet).
3.17—Orchestra, Hula Lou (Vollen).
3.22—Victor Prince, of "Aladdin" (by permission of J. C. Williamson Ltd.), Toodle Up, Toodle Do.
3.29—Orchestra, Meditation (Rasmanow).
3.34—Agnus Fortane, piano solo, Nov-elle in F (Schumann).
3.39—Matron Moreland, Infant Welfare fare.
3.55—Result of the Autumn Cap.
3.58—Dorothy Dana, soprano, Poor Betty (Habbell), Land of Long Ago (Ray).
4.0—Orchestra, Danse des Sylphes (Berlioz).
4.10—Victor Prince, Our Village, Poor Old Pa.
4.17—Orchestra, Pilgrim Chorus (Wagner).
4.23—Dorothy Dana soprano, Guess You Know (Brahm), Provence (Clarke).
4.30—A. E. Fuit, of Buckley and Nann, in bush talk.
4.39—Result of the Nursery Handicap.
4.41—Orchestra, Pastel, Menuet (Paradis).
4.45—"Argus" and "Herald" news; Reuter's and the Australian Press Association cables.
5—Time signal. Close down.
5.5—Result of the Bourke Handicap.
Evening Session, 6 to 7.15.
6—Children's Hour, Stories by Mary Gumble: Painting a Boat, When Mother is Tired, Stories: Little Fairy Goodfellow Hiawatha.
6.45—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
6.53—Weather synopsis; shipping movements.
6.57—Stock Exchange information.
7.2—Buck market reports by J. R. Borrett Ltd.
7.4—Fruit market reports by the State Fruit Advisory Board.
7.6—Market reports by the Victorian Producers' Co-operative Co. Ltd.
7.8—Light Session, 7.20 to 11.
7.20—Under the auspices of the New Sellers' League, Mr. W. C. Stillman, "The Plight of the Agricultural Industry in Britain."
7.40—University Extension Lecture, Mr. J. R. Richard, "The Romance of a Dictionary."
8—The Studio Orchestra, Tom Jones Selection (German).
8.15—Vinadio Torre, baritone, Prologue—Pagineci (Leoncavallo).
8.20—The Studio Orchestra, Light Cavalry (Suppe).
8.35—Mr. J. Howlett, Rossa, The Red Hat of Lidyanna.
8.50—Harold Rodgers, organ recital, Adagio Cantabile (Beethoven), Largo

- (Handel), Bridal March—Lohengrin (Wagner).
9.15—Dr. Loftus Hills, "The Concrete Age—Part 1."
9.20—"The Nigger Minstrel, with Bertha Hayes Miller, produced by Mr. Dav-ally Thallon, will include the following soloists: Bertha Hayes Miller, con- sults on songs as they should be sung, Kentucky Home, My Sweet Magnolia, Doral Thomas, When you and I were young, Maggie; Tom Broderick, Silver Threads among the Gold; Ver- non Robertson, The Deathless Army; Hal Williams, The Yeoman's Wed- ding; interspersed with topical gags and melodious ensembles; Bertha Hayes Miller, Mason Dixie Line, I Ain't Got No Trouble.
10.30—"Argus" and "Herald" news. 10.35—Rinaldo Torre, baritone, Dreams that are Sweet and True (Moore), Could I—Meledi (Tosti).
10.42—The Studio Orchestra, Greenland Suite (Frederiksen), Danse des Sylphes (Berlioz).
11—God Save the King.

WEDNESDAY, MARCH 3.

- Midday Session, 12 to 2.
12—Time signal; British official wire- less news from Rugby; Reuter's and the Australian Press Association cables; "Argus" and "Herald" news services; shipping intelligence in- formation; weather forecast for Victoria, Tasmania, S. Australia, and N.S.W.; ocean forecast; river reports.
1.0—The Studio Orchestra, Romance (Tschakowsky), Chanson Tristo (Tschakowsky), Chanson Tristo (Tschakowsky).
1.20—Bessie Gannoun, soprano, Pierrot (Ryher), Invitation (Barry).
1.27—Tasma Tiernan, cello solo, Serenade Espagnoll (Giazonow).
1.34—Esco Lasker, soprano, To You (Borabach), To One Who Passed (Gibby).
1.41—Instrumental Trio, Swan's Song & Lohengrin's Farewell (Wagner).
1.46—The Studio Orchestra, Tales of Hoffman (Wagner).
2—Time signal. Close down.
2.15—Result of the Moorabool Burdle from the Geelong R.C. Meeting.
2.43—Result of the Novice Handicap.
Afternoon Session, 3 to 5.
A special programme will be arranged by the Studio Orchestra. Results of the Geelong R.C. Meeting will be given throughout the afternoon as they come in hand.
3.30—Sister Purcell, "Mothercraft."
4.45—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
5—Time signal. Close down.
Evening Session, 6 to 7.15.
6—Children's Hour, Stories by Wal- ley Bill: The Demon of the Bush Fires.
6.45—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
6.53—Weather synopsis; shipping movements.
6.57—Stock Exchange information.
7.2—Buck market reports by J. R. Bor- rett Ltd.
7.4—Fruit market reports by the State Fruit Advisory Board.
7.6—Market reports by the Victorian Producers' Co-operative Co. Ltd.
7.8—Night Session, 7.20 to 11.
7.20—Mr. A. E. Hyland, Chairman of

- the Railways Retirement Board, How the Railway Assist Development.
7.40—Mr. F. W. Pearce, Physical Culture—Elat Feet.
8—The Studio Orchestra, Merry Wives of Windsor (Nicola).
8.10—Edie Armstrong, contralto, Three Fishers, Sweet Kate.
8.17—Louise Moorehead and William Tainah in "Just Like a Woman."
8.37—The Studio Orchestra, Romance and Chanson Tristo (Tschakowsky).
8.47—Edie Armstrong, contralto, In an Old-fashioned Town, Dream in the Twilight.
8.54—The Studio Orchestra, Fidalio (Beethoven).
9.47—Captains H. Peters, Books, Wine and Otherwise.
10.20—Farewell to "Aladdin" trans- mitted from His Majesty's Theatre by permission of J. C. Williamson Ltd.; Patric Ting-Lee, Juet, Alahony Beard, sang, I'm afraid to hold my breath; dance doll; song, Pircanany Blues; song, Semolina; song, Kippers; song, Tiny Town; opening chorus, Let's Look song, You Forgot to Re- member; song, Lotus Flower; song, I'm Afraid of Love; song, Sunnyside Salt speciality, The World's Master Unicyclist; song, Ukulele Lady; finale Hymn, Sweet Bride.
11—God Save the King.

THURSDAY MARCH 4.

- Midday Session, 12 to 2.
12—Time signal; British official wire- less news from Rugby; Reuter's and the Australian Press Association cables; "Argus" and "Herald" news services; shipping intelligence in- formation.
12.50—Meteorological information; weath- er forecast for Victoria, Tasmania, S. Australia, and N.S.W.; ocean fore- cast; river reports.
1—Time signal.
1.1—The Studio Orchestra, Desert Suite (Grunn).
1.12—Time signal, O'Hagan, baritone, Sleepy Time Gal, I'm Sitting on top of the World.
1.20—Walter Smith, cornet solo, Thur- ington Song Birds (Hoeh).
1.27—Studio Orchestra, Say, Who is that Baby Doll (Lance).
1.32—Result of the Hurdle Race.
1.34—Jack O'Hagan, baritone, After the Dawn, I'm Going to Hump my Bluey.
1.41—The Studio Orchestra, Gipsy idyll (Piercy).
1.46—Bessie Gannoun, violin solo, An- dante from Violin Concerto (Mendels- sohn).
1.53—The Studio Orchestra, The Tri- umph of Right (Lovell).
2—Time signal. Close down.
2.25—Result of the Ascot Vale Stakes. Afternoon Session, 3 to 5.
3—Time signal.
3.1—The Studio Orchestra, A Love Suite (Lace).
3.10—Louise Moorehead and William Tainah in "The Test Kiss."
3.22—Result of the Lloyd Stakes from the R.C. Meeting.
3.23—The Studio Orchestra, Coppelia (Delibes).
3.38—Agnus Fortane, pianoforte solo, The Prentiss Bird (Schumann).
3.42—Jack Dunne (by permission of J. C. Williamson Ltd.), Misaway (For- ster), A Pearl for Every Tear (Liddle).
3.50—Result of the Autumn Handicap.
3.57—The Studio Orchestra, Sleepy Time Gal (Whiting), Just Wanting You (Zamecnik).

- 4.3.—Dorothy Novichko, violin solo, Berceuse Russe (Meynarski).
 4.10—Jack Dunne, The Temple Bells (Finden), Little Garden I Love (Ten-
 nant).
 4.17—Instrumental Trio, Spanish Dances (Moszkowski).
 4.27—Tasma Tiernan, cello solo, Chante Russe (Lalo).
 4.35—Result of the Governor's Plate.
 4.38—The Studio Orchestra, Hawaiian Selection (Lalo).
 4.45—"Argus" and "Herald" news services; Reuters' and the Australian Press Association cables.
 5.—St. Paul's Evensong.
 5.40—Result of the River Handicap.
 5.41—Time signal, Close down.
 5.—Evening Session, 6 to 7.15.
 6.—Children's Hour, Stories by Mary Gunless; Poems, Squanky Shoes, The Reason, Stories; The Tale of Two Shillings, Hiawatha.
 6.45—"Argus" and "Herald" news services; Reuters' and the Australian Press Association cables.
 6.50—Weather synopsis; shipping movements.
 6.57—Stock Exchange information.
 7.—Fish market reports by J. R. Borrett Ltd.
 7.4.—Fruit market reports by the State Fruit Advisory Board.
 7.6.—Market reports by the Victorian Producers' Co-operative Co. Ltd.
 7.—Night Session (7.30 to 11).
 7.40—The Studio Orchestra, fox trots; When you see that old Aunt of Mine, Sweet Baby Mine.
 8.11—Jack O'Hagan, baritone; When the one you Love Loves you, Pal of my Gaelic Day.
 8.18—The Studio Orchestra, Waltz, When I Dream of the last Waltz with You, If the rest of the world don't want You.
 8.30—Frances Lee, soprano; Star Eyes (Sprack), In a Monastery Garden (Keelby).
 8.37—The Studio Orchestra, fox trot; Johnny the Gal, Bombay.
 8.49—Norman Hill, entertainer; Shoe Shops, The 11.09 Express.
 8.59—The Studio Orchestra; Dotty Dimple, Arslan.
 9.11—Norman Bradshaw, tenor; She reared by the Broken Bow (Taylor), Thistle-down and Sanderson (Gleeson).
 9.18—The Studio Orchestra, fox trot; Ukelele Lady, Peter Pan.
 9.28—Frances Lee, soprano; The Little Dutch tiles (Sharp), The Asra (Rubenstein).
 9.35—The Studio Orchestra, Demya Carolina Moon, Muzart's Belle.
 9.45—Norman Hill, entertainer; Shoe Shops, The 11.09 Express.
 9.55—The Studio Orchestra, fox trot; Havana, Hula Loo.
 10.—"Argus" and "Herald" News.
 10.10—Norman Bradshaw, tenor; Angela Guard Tiger (Gardner), I did not Know (Totere).
 10.17—The Studio Orchestra, Yerington, Say! Who is that Baby Doll.
 10.27—Frances Lee, soprano; I can't Realise, Kooma e Little Lullaby.
 10.34—The Studio Orchestra; Let it Rain, Just Wanting You.
 10.34—Jack O'Hagan, baritone, Scery, Come back, Old Pal.
 10.41—The Studio Orchestra; Taggle, I'm Sitting on top of the World.
 11.—God Save the King.

- ed by 3AR's operator, from Rugby Super Station, England; The Age News Bulletin; Events of the Day.
 12.15—Musical Selections.
 12.30—Stock Exchange News.
 12.35—Market Reports.
 12.40—Musical Selections.
 12.45—Mail Notices; Shipping Movements.
 1.—Selections from Hoyt's De Luxe.
 2.—Close down.
 Afternoon Session.
 3.30—Selections by Hoyt's Premier Orchestra.
 3.45—Graphic News.
 4.—Time Signal.
 4.1.—2nd Weather Forecast.
 4.2.—Hoyt's Premier Orchestra.
 4.30—Mr. E. Stanley Haines (of Brinning's Pty. Ltd.), will give his weekly Gardening Talk to the Children "Interesting Botany."
 4.45—Hoyt's Premier Orchestra.
 5.—Time Signal.

- Early Evening Session.
 6.45 to 7.30—The Children's Corner by Uncle Peter, 1. The Bedtime Story; 2. Talk on Hobbies; 3. The Children's Big Saw Painting Competition. This week's special Prize, £3/1/, 2nd Prize, 10/6.
 8.—Time Signal.
 8.1.—Katie, Anticipations by "Helen Shaw."
 8.10—Mr. E. Stanley Haines, Gardening Talk: In the Flower Garden.
 8.25—Mr. Weston Fox (solo violinist), (piano), Mr. George Fox.
 8.35—Mr. Les Harrison (baritone).
 8.50—Mr. William Black (banjo-mandolin solo).
 9.42—Miss Hazel Ralph (soprano).
 9.49—Messrs. Corchi and Burky's Instrumental Trio will play selections of popular music.
 9.56—Mr. H. Lavery (tenor).
 9.57—Mr. Roy Ramage (cello solo), (piano), Miss Elsie Ritter.
 9.9.—Miss Nellie Stone (soprano).
 9.16—Mr. Jack West (educationalist) "Othello's Dilemma" (Shakespeare).
 9.26—Miss Nellie Stone (soprano).
 9.33—Mr. Weston Fox (violinist).
 9.38—Mr. William Black (banjo-mandolin solo).
 9.43—Mr. Les Harrison (baritone).
 9.48—Corchi & Burky's Instrumental Trio.
 9.54—Mr. Roy Ramage (cello solo).
 10.—Time Signal.
 10.1.—The Age News Bulletin, exclusive to 3AR.
 10.10—Hoyt's Premier Orchestra, until closing down; National Anthem.

SATURDAY, FEBRUARY 27.

- Morning Session.
 11.30—The British Official Government Press, received by 3AR's operator from Rugby Super Station, England; The Age News Bulletin.
 12.—Time Signal; 1st Weather Forecast; Events of the day; Musical Selections.
 12.30—Stock Exchange News.
 12.35—Market Reports.
 12.40—Musical Selections.
 12.55—Mail Notices; Shipping Movements.
 Afternoon Session.
 1.—Description while racing of Pines Hurdle Race.
 1.25.—Description while racing of St. Leges.
 2.35—Result of Romenick Stakes.
 2.45—Hoyt's Premier Orchestra, relayed from De Luxe, Bourke Street.
 3.15—Description of Newmarket Handicap.
 3.30—Hoyt's Premier Orchestra.
 3.50—Description of Sires Produce Stakes.
 4.—Time Signal.
 4.30—Result of Brunwick Stakes.
 4.45—Hoyt's Premier Orchestra.
 4.55—Evening Assessment Guide.
 5.—Close down.
 Early Evening Session.
 6.45 to 7.30—The Children's Corner by Uncle Peter, 1. The Bedtime Story; 2. Talk on Hobbies; 3. The Children's Big Saw Painting Competition.
 8.—Time Signal; Sporting Results; Local News.
 8.15—Dance Night. The Rhythmic Dance Orchestra under the direction of Mr. George Lewis, relayed from the Maison De Luxe.

- Broadway, St. Kilda.
 9.20—Week-end Traveller's Information; Supplied by the Victorian Railway's Department and Timeways Board.
 9.50—The Maison De Luxe Dance Orchestra.
 11.—National Anthem and Close down.

SUNDAY, FEBRUARY 28.

- Morning Session.
 11.30—The Bells of St. James' Old Cathedral.
 11.—Service from the Independent Church, Collins Street; Preacher, Rev. Principal Kirk, M.A., D.D.; Sermon: "The Glory of the Mingled Fire."
 Afternoon Session.
 3.—Transmission from the Queen's Hall, Collins St. Service conducted by the "Order of the Star in the East." Mr. C. J. Whittle (baritone solo) Thus Said the Lord (from the Messiah); Invocation; Miss Nina Brennan (soprano); Address by Bishop Irving Cooper of U.S.A.; Religious Offering and the New Age; Mr. C. J. Whittle (baritone solo) The Wanderer (Schubert); Invocation; Close down.
 Evening Session.
 Service from the Collins St. Independent Church.
 6.30—Organ Recital: Mr. Herbert Davies.
 7.—Service: The Message of Modern Paganism; Anthem: I Saw the Lord.
 8.—From the Studio. Half an hour with Mr. D. K. Cameron who will speak on Thomas Moore, and sing two of his compositions.
 9.—The Eclipse Grand Orchestra, relayed from the Eclipse Theatre, Fort Melbourne, under the direction of Mr. George Heary.
 9.50—The Age News Bulletin, exclusive to 3AR.
 9.55—National Anthem and Close down.

MONDAY, MARCH 1.

- Morning Session.
 11.30—The British Government Wireless Press, received by 3AR's operator from Rugby Super Station, England; The Age News Bulletin.
 12.—Time Signal; 1st Weather Forecast; Events of the day.
 12.5—Musical Selections from Hoyt's De Luxe, relayed from Bourke Street.
 12.30—Stock Exchange News.
 12.35—Market Reports.
 12.40—Musical Selections.
 12.55—Mail Notices; Shipping News.
 1.—Close down.
 Afternoon Session.
 The Ascot Races. Results after each Race.
 2.30—Selections by Hoyt's Premier Orchestra, under the direction of Miss Ella Brian, relayed from the De Luxe, Bourke Street.
 3.—Graphic News.
 4.—Time Signal.
 4.1.—2nd Weather Forecast.
 4.2.—Hoyt's Premier Orchestra.
 4.55—The Evening Assessment Guide.
 5.—Close down.
 Early Evening Session.
 6.45 to 7.30—The Children's Corner by Uncle Red, 1. The Bedtime Story; 2. Talk on Hobbies; 3. The Children's Big Saw Painting Competition.
 8.—Time Signal.
 8.15 to 8.50—Transmission from the Queen's Hall, Collins Street, by arrangement with J. Benedetti-Fowler, the First Act of Ibsen's Great Drama "The Master Builder" will be presented by "The Little Art Company."
 8.50.—From the Studio. The Classic Symphonies, Messrs: Bereng Marek, A. Angus, R. Marsh, A. Williams, R. Gorman, F. McCormick, Fred Marshall. Bay Gannate will play the latest dance music.
 9.1.—Miss Marion Daniels (mezzo-soprano).
 9.2.—Miss Nellie Watson (soprano).
 9.15—Miss Fina Stevens (soprano).
 9.22—The Classic Symphonies (reprises of popular music).
 9.30.—Miss Ellen Horn (soprano).
 9.35.—Miss Nellie Watson (soprano).
 9.36—The Classic Symphonies, Dance Music.
 10.—Time Signal.

3AR

Wavelength, 484 metres. Power, 1600 watts.

FRIDAY, FEBRUARY 26.

- Morning Session.
 12. 00.00—Time Signal; 1st Weather Forecast; The British Government Wireless Press, re-

BURGESS—"THE CONSTANT SATISFACTION ASSURED"—BATTERIES

10.1—The Age News Bulletin, exclusive to 3AR.

TUESDAY, MARCH 2.
Morning Session.

11.30—The British Government Wireless Press, received by 3AR's operator from Rugby Super Station, England; The Age News Bulletin.

12—Time Signal; 1st Weather Forecast; Events of the Day.

12.5—Musical Selections.

12.30—Stock Exchange News.

12.55—Market Reports.

12.40—Selections from Hoyt's De Luxe, relayed from Bourke Street.

12.55—Mail Notices; Shipping Movements.

1—Close down.

Afternoon Session.

V.R.C. Flemington Races, 2nd Day.

1.30—Result of Hopedale Stakes, 5 furlongs.

2.35—Result of Eliza Handicap.

3.10—Description while racing of March Steeple.

3.30—Hoyt's Premier Orchestra, relayed from the De Luxe, Bourke Street.

3.45—Graphic News.

3.50—Description while racing of the Australian Cup, 3½ miles.

4—Time Signal.

4.1—2nd Weather Forecast.

4.25—Hoyt's Premier Orchestra.

4.30—Result of Nursery Handicap.

4.55—The Evening Amusement Guide.

5.5—Result of Bourke Handicap.

5.10—Close down.

6—Time Signal.

6.45 to 7.30—The Children's Corner by Uncle Peter, 1, The Children's Corner; 2, Talk on Hobbies; 3, The Children's Jig Saw Painting Competition.

8—Time Signal.

8.1—The Cassick's Mentone Hotel Orchestra, in classical and popular airs.

8.16—Miss Roma Wigley (solo pianist).

8.22—The Brighton Glee Singers.

8.28—Mr. Maurice Latimer (entertainer).

8.56—Miss Treble (soprano).

8.40—Mr. Basil Murray (baritone), and Mr. Robinson (bass), vocal duets.

9.30—Miss McCarthy (contralto).

9.37—The Brighton Glee Singers.

9.4—The Cassick's Mentone Hotel Orchestra.

9.19—Mr. Maurice Latimer (entertainer).

9.25—Miss Roma Wigley (solo pianist).

9.32—Mr. Basil Murray (baritone).

9.39—Miss Treble (soprano).

9.46—Mr. Maurice Latimer (entertainer).

9.53—The Brighton Glee Singers (two plantation songs).

10—Time Signal.

10.1—The Age News Bulletin.

10.10—Hoyt's Premier Orchestra relayed from Bourke Street, until closing down; National Anthem.

WEDNESDAY, MARCH 3.

Morning Session.

11.30—The British Government Wireless Press,

received by 3AR's operator from Rugby Super Station, England; The Age News Bulletin.

12—Time Signal.

12.5—Forecast of the Day.

12.5—Musical Selections.

12.30—Stock Exchange News.

12.55—Market Reports.

12.40—Selections from Hoyt's De Luxe, relayed from Bourke Street.

12.55—Mail Notices, Shipping Movements.

1—Close down.

Afternoon Session.

V.R.C. Flemington Races, 3rd Day.

1.30—Description while racing of the Hurdle Race, 2 miles.

2.25—Result of Ascot Vale Stakes, 6 furlongs.

2.30—Hoyt's Premier Orchestra, under the direction of Miss Ella Brien, relayed from the De Luxe, Bourke Street.

3.10—Description while racing of the Lloyd Stakes, 1 mile.

3.45—Graphic News.

3.50—Height of Autumn Handicap, 1 mile, 5 furlongs.

4—Time Signal.

4.1—2nd Weather Forecast.

4.25—Hoyt's Premier Orchestra.

4.35—Result of Newtown Park, 6 furlongs.

4.50—Result of Burwon Welter, 7 furlongs.

4.55—The Evening Amusement Guide.

5—Close down.

Early Evening Session.

6.45 to 7.30—The Children's Corner by Uncle Paul, 1, The Bubble Story; 2, Talk on Hobbies; 3, The Children's Jig Saw Painting Competition.

8—Time Signal.

8.1—Miss Marnie Firth (solo pianist).

8.5—Mr. Harry Webster (tenor).

8.17—Miss Mariel Shaw (elocutionist).

8.23—Miss Dolly Haines (solo soprano).

8.30—Mr. Fraser will talk on Swimming.

8.45—Miss May Kier (contralto).

8.51—Mr. Wallie Pearl (male soprano).

8.59—Miss Mariette Firth (solo pianist).

9.06—Mr. Alan Hershall (baritone).

9.13—Miss Mariel Shaw (elocutionist).

9.20—Miss May Kier (contralto).

9.27—Mr. Wallie Pearl (male soprano).

9.34—Miss Dolly Haines (solo soprano).

9.41—Mr. Alan Hershall (baritone).

9.46—Miss Helen Moore (soprano).

9.53—Mr. Alan Hershall (piano) Jazz Selections.

10—Time Signal.

10.1—The Age News Bulletin.

10.10—Hoyt's Premier Orchestra, relayed from Bourke Street, until closing down; National Anthem.

Super Wireless Station, England; The Age News Bulletin.

12—Time Signal; 1st Weather Forecast; Events of the Day.

12.5—Musical Selections, from Hoyt's De Luxe, Bourke Street.

12.30—Stock Exchange News.

12.55—Market Reports.

12.40—Musical selections.

12.55—Mail Notices; Shipping Movements.

1—Close down.

Afternoon Session.

V.R.C. Flemington Races, 3rd Day.

1.30—Description while racing of the Hurdle Race, 2 miles.

2.25—Result of Ascot Vale Stakes, 6 furlongs.

2.30—Hoyt's Premier Orchestra, under the direction of Miss Ella Brien, relayed from the De Luxe, Bourke Street.

3.10—Description while racing of the Lloyd Stakes, 1 mile.

3.45—Graphic News.

3.50—Height of Autumn Handicap, 1 mile, 5 furlongs.

4—Time Signal.

4.1—2nd Weather Forecast.

4.20—Description while racing of Governor's Plate, 1½ miles.

4.35—Miss Roma Wigley will give a Fashion Talk.

4.50—Special Pig and Calf Report, supplied by Messrs. McPhail, Anderson & Co.

4.55—The Evening Amusement Guide.

5.5—Result of River Handicap, 1¼ miles.

Early Evening Session.

6.45 to 7.30—The Children's Corner by Uncle Peter, 1, The Bubble Story; 2, Talk on Hobbies; 3, The Children's Jig Saw Painting Competition.

8—Time Signal.

8.1—Concert from the Queen's Hall, Collins Street, by arrangement with the Dickens Society. Miss Amy Shields (pianoforte); Mr. J. M. McKee, will give paper on "C. J. Dennis."

8.30—(Approx.) From the Studio, Mr. J. Lea Bain, under the auspices of the Popular Radio Weekly, will talk on "Wave Traps."

Continued from the Queen's Hall, Miss Lottie Daniell will give Song Turns; Mr. A. Cooper and Mr. Bates in a Dickens Sketch "Newcomer's Sick Chamber" from "Martin Chuzzlewit."

From the Studio.

10—Time Signal.

10.1—The Age News Bulletin, exclusive to 3AR.

10.16—The Rhythmic Dance Orchestra, relayed from the Maison De Luxe, Broadway, St. Kilda, under the direction of Mr. George Lewis, until 11 o'clock; National Anthem and Close down.

THURSDAY, MARCH 4.

Morning Session.

11.30—The British Government Wireless Press, received by 3AR's operator from Rugby

Australian Broadcasting Stations—Schedule of Transmission

Located at	Operated by	Call.	Wavelength.
Sydney, New South Wales	Farmer & Co. Ltd.	2FC	1100 metres
Sydney, New South Wales	Broadcasters (Sydney) Ltd.	2BL	353 metres
Melbourne, Victoria	Aust. Broadcasting Co. Ltd.	3LO	371 metres
Melbourne, Victoria	Associated Radio Co.	3AR	484 metres
Perth, West Australia	West Australia Farmers Ltd.	6WF	1250 metres
Hobart, Tasmania	Associated Radio Co.	7ZL	410 metres
Brisbane, Queensland	Queensland Radio Service	4QG	385 metres
Adelaide, South Australia	Central Broadcasters Ltd.	5CL	395 metres

WIRELESS OFFICERS.

List of Marine Staff changes for week ending 18/2/26:—

A. A. Grundy (3rd) signed off "Taiping" in Sydney.

A. A. Grundy (3rd) signed on "Largs Bay" in Sydney.

E. T. Prentice (Sqn.) signed on "Arafura" in Sydney.

J. W. Jacobs (3rd) signed on "Arafura" in Sydney.

S. A. Ash signed off "War Spray" in Newcastle.

F. M. Basden signed on "War Spray" in Newcastle.

P. T. Neal signed off "Ullmaroa" in Sydney.

L. N. Callaghan signed on "Ullmaroa" in Sydney.

H. S. Chown signed on "Endunda" in Sydney.

Radio Cheer. For Blind and Sick.

Abundant testimony is available of the value of radio in helping to brighten the lives of those who are afflicted with blindness, and hardly a week

passes without letters reaching the Sydney broadcasting stations containing expressions of thanks of blind persons and others who are confined to their homes for the boon of broadcast programmes. The German Government is reported to have purchased 2000 receiving sets to be distributed among all the institutions for the blind in Germany. Australia is not lagging behind in providing these pleasures for our less fortunate people, and in many institutions that care for the sick and the suffering receiving sets have already been installed, and have proved the Royal South Sydney Hospital each have installations. The staffs of the Postmaster General's work their value. In Sydney, the Children's Hospital and shops worked overtime for a month in November and turned out a very fine receiving set, which they presented to the children's ward at Sydney Hospital. The Royal Prince Alfred Hospital is now campaigning to raise funds to equip 500 beds with head 'phones, a Kent Street firm having presented that hospital with a complete receiving set. A radio set was recently promised to the Royal Hospital for Women, and steps are being taken to secure a set for St. Margaret's.



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