

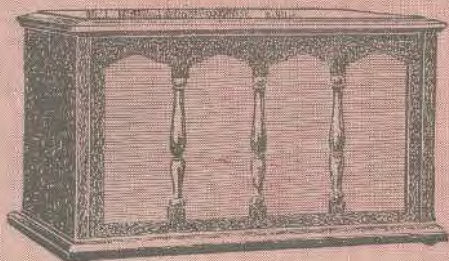
WIRELESS WEEKLY

Registered at the G.P.O., Sydney, N.S.W.

transmitted by post as a newspaper.

VOL. 7. No. 22.

FRIDAY, MARCH 30, 1926.



The New Magnavox Speaker.
M-20, 1926 Model.

Its hand-rubbed Brown Mahogany finish harmonises with almost any decorative plan. And what wonderful results it gives.

"Widely Known for Quality—Tone"—Magnavox

Fulllest Particulars. Prices on Application.

D. T. HINCHEN

Direct Factory Representative

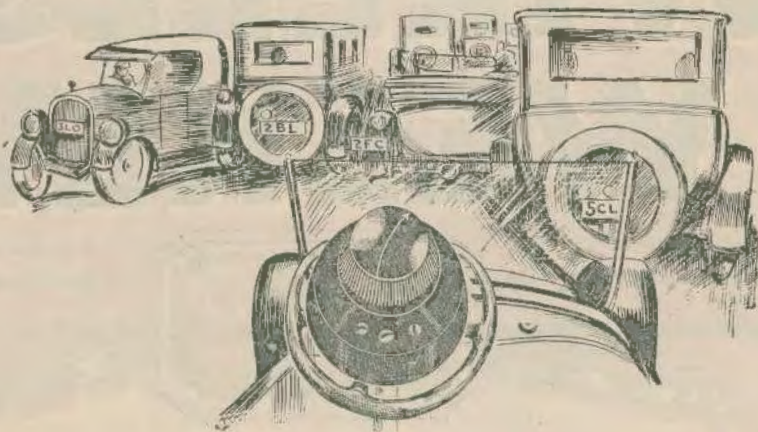
Canberra House, Sydney Wholesale Only. Dec H 5662

All Magnavox Sets, Five Tabled Radio Frequency, are controlled by a Single Dial.



FEATURE

Adding to Your
Crystal for
Loud Speaker
Results



Through "RadioTraffic"

WHEN you run into a bunch of high-powered broadcasting stations, all riding the ether at the same time, can you pick your way through to your desired destination without getting tangled out in the jamb?

The "Centralab" Radiohm

will enable you to get through the Radio Traffic with ease—slip past unwanted "Locals" and bring in the long-sought-after long distance station, loud and clear.

Smooth variation from zero to 200,000 ohms. Especially adapted to plate circuit control of oscillation. Centralab Radiohms and Modulators are used as the standard Units of control by all the top-notch American circuit designers.



**THE CENTRALAB
MODULATOR.**

A 500,000 ohm Amplification Control that gives perfect control from a whisper to maximum volume. Used by United Distributors in the new "Capacitance" circuit.

Retail Price . . 14/6

Retail Price, 14/6

United Distributors Limited

WHOLESALE ONLY

72 Clarence Street, Sydney

343 Queen St.,
BRISBANE.

27 Cheeser St.,
ADELAIDE

26 Queen St.,
PERTH.

Cr. Jervois Quay & Harris St.,
WELLINGTON, N.Z.

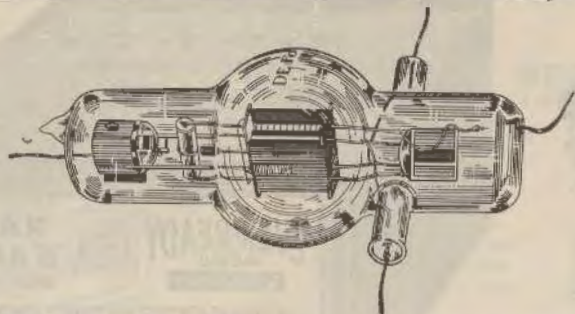
66 Charles St.,
LAUNCESTON,
Tas.

If your dealer cannot supply you, write sending his name to us

DE FOREST 150 Watt "H" TUBE

£ 10

each nett



£ 10

each nett

SUCCESS on the LOWER WAVES

depends upon the selection of the proper transmitting tube
Such a transmitting tube is now produced by the De Forest Radio Company,
and will be sold under the designation of the

DE FOREST "H" TUBE

Efficient performance is obtained by the "H" tube on wavelengths of from 1 Metre to 200 Metres; in fact, on all wavelengths for which a circuit can be provided.

High frequency flash-over does not break down the tube as all leads are brought out at widely separated places.

High plate voltages may be used without fear of damage to any of the elements. Internal construction is rigid and the best of material is used. Both Grid and Plate are of Molybdenum.

The output ratings given below are approximate, because function and output efficiency depend largely upon the power applied, upon circuit arrangement and upon wavelength.

No base is provided for this tube, in order to give it characteristics of a truly low loss oscillator.

Experiments conducted by the De Forest Laboratories indicate definitely that the new developments embodied in this "H" tube will now permit extremely long distance communication on the high frequencies.

TECHNICAL DATA

Plate Voltage	Grid Volts	Bias	Filament Volts	Amps.	Plate Milli-amps	Cur. Milli-amps	Output Watts	R.F. Safe Diss.	Plate Watts	Grid Leaks	Hartley Circuit ohms.	Size Over-All
1,000 to 3,000	50 to 500**	10	2.35	40 to 110*	20 to 150**	170	5,000 to 100,000					6 x 3 1/2 in.

* Values are with Tube Oscillating. ** Depends on circuit, grid leak and plate voltage.

Send your money direct to

INTERNATIONAL RADIO COMPANY LTD.

200 CASTLEREAGH ST., SYDNEY, N.S.W.

91-93 COURTENAY PLACE, WELLINGTON, N.Z.



Trade Mark



EVER-READY RADIO A, B, OR C BATTERY.

As an "A" Battery for use with .06 amp. dry cell valves, it is very compact and particularly useful for portable sets.

A number connected in series will form a large capacity, heavy service "B" battery for use with high-powered valves.

This battery is in almost universal use on sets requiring a negative bias to the grid. As a "C" battery it is tapped for 1.5, 3, or 4.5 volts.

No. 126 .. Price 2/9 (in N.S.W.)

Uniform in Quality EVER-READY Radio Batteries

You can count on absolute uniformity of results from every Ever-Ready Radio Battery you buy. Made to a very high standard of quality by a new process which gives longer life and better service in operation. Used by leading radio experimenters, such as Mr. C. Maclurcan, all over Australia.

EVER-READY RADIO "B" BATTERY

Made in a range of capacities suitable for 1 to 5 valve sets with close tappings for various voltages.

For use with 1 and 2
Valves.

WP30 volt 9/6
WP40 volt 12/6
WP60 volt 18/-

For use with 2 to 5
valves.

XP30 volt 16/-
XP40 volt 21/-
XP60 volt 31/8

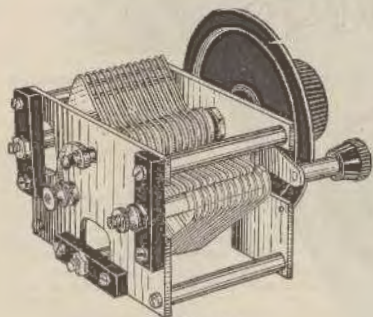
(Prices quoted apply to N.S.W. only).

All Ever-Ready Radio Batteries are obtainable from up-to-date dealers throughout Australia. If unobtainable locally, write for address of nearest source of supply.

EVER-READY CO. (Gt. Britain) LTD.
163 PITT STREET — SYDNEY

CERTIFIED LOW LOSS

Have you seen the new
"CERTIFIED" PRODUCTS



THE CERTIFIED LOW LOSS CONDENSER has the following special features

- (1) Lowest losses 5 per cent. less than standard.
- (2) Very low minimum capacity.
- (3) Pigtail connections.
- (4) Grounded and shielded Rotor.
- (5) Highest grade Hard rubber insulation.



Midget Low Loss
PRICE
 5 plate . . . 3/-

PRICES:

Plain .0005 12/-
 Vernier .0005 15/-

AMPERITES
 199 Type
 7/6



AMPERITES
 201A Type
 7/6

USE AMPERITES INSTEAD OF HAND RHEOSTATS

THE PHILMORE INDOOR AERIAL: This wonderful coil spring indoor aerial is ideal for all receiving purposes. Many listeners-in who could not bring in 3LO on an outdoor aerial are now successful using the Philmore Spring aerial. Price 5/9.

See "Insulator" every Friday Evening at our Sydney Store.
 He will solve your Problems.

"Yours for Lower Prices."

The ECONOMIC RADIO STORES

28 Royal Arcade
SYDNEY

Phone M 3049

569 Hunter St. West
NEWCASTLE

Phone, Newcastle 1622

experts in radio acoustics since 1908

Brandes



The Table-Talker

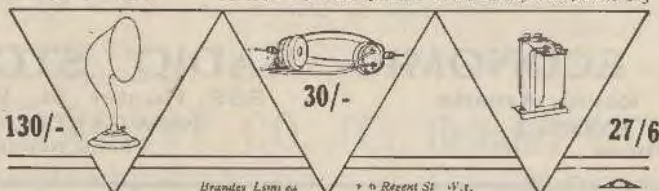
makes a friend of the electrical impulse

Acoustics is the science of sound. Radio acoustics is the science of transforming the electrical impulse into a audible sound. The electrical impulse is a jolly little fellow who needs to be consulted if you are to get the best out of him. We've been making friends with him for seventeen years and the *Table-Talker* is but one result of our efforts. The goose-neck horn means clearer and more rounded tones, and the patent material of which it is constructed eliminates any suggestion of harshness or metallic resonance. Fitted with an adjustable diaphragm, it is finished in a pleasant shade of neutral brown. Height 18", bell 10".

Ask your Dealer for Brandes.

63/-

The Brandola. Matched Tone Headphones. Audio Transformer, Ratio 1-5



INTERNATIONAL RADIO Co. LTD.

200 Castlereagh Street, Sydney.

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



WIRELESS WEEKLY

Published by Publicity Press Ltd., 12/16 Regent St., Sydney, Australia.
Phones: Redfern 964 and 939.

Managing Editor: E. O. MUMFORD.

Editor: A. W. WATT. Technical Editor: C. 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), 15/-, 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., 12/16 Regent Street, Sydney.

"Wireless Weekly" is fully protected by copyright, and nothing that appears in it may be reprinted, wholly or in part, without special permission. The use of our articles or quotations from them for any purpose whatsoever is never authorized.

CONTENTS

	Page
The Progressive System of Construction . . .	7
Bright Emitters or Dry Cell Valves . . .	11
Hints on Tuning (continued)	15
On the Air	19
British Broadcasting Plan	23
The New 4QG	27
From Here and There	29
Around the Traders	33
Broadcasting Programmes	37

AN AMATEUR EXHIBIT

RADIO-ELECTRICAL EXHIBITION.

From Monday, May 3rd, until Saturday, May 8th, the Sydney Town Hall will be given over to a combined Radio-Electrical Exhibition, which, it is believed, will be the largest thing of its kind ever held in Australia. Already the whole of the available floor space has been allotted, and arrangements are well ahead to make this Exhibition a huge success.

Amongst other sections, a feature will be an amateur exhibit organised and displayed by "Wireless Weekly," and to make the scope of this as wide as we possibly can, we invite entries from all radio enthusiasts. The sum of £20 will be allotted in prize money, and the items have been drawn up so that amateurs and broadcast listeners may participate. A small entrance fee has been decided upon, and competitors' apparatus should be delivered at the office of "Wireless Weekly," 12 Regent Street, not later than Monday, April 26th, 5 p.m. A special committee will act as judges, and their decision shall be final. Certificates will be awarded to winners of first and second prizes, and also to other competitors

whose apparatus is placed on the stand at the Exhibition. Intending competitors should notify us at once in writing, and forward the amount of the entrance fee. Any one competitor may enter for more than one particular item.

GET BUSY ON THIS RIGHT AWAY.

LIST OF ITEMS.

- 1—The Best Low Power Transmitter. 1st prize, £3; 2nd prize, £1/10/-. Entrance fee, 2/6.
- 2—The Best Designed Short Wave Receiver (tuning from 20 metres upwards). 1st prize, £2; 2nd prize, 10/-. Entrance fee, 2/-.
- 3—The Best Home Made Piece of Apparatus. 1st prize, £3; 2nd prize, £1. Entrance fee, 2/6.
- 4—The Most Novel Crystal Set. 1st prize, £2; 2nd prize, 10/-. Entrance fee, 2/-.
- 5—The Most Selective Crystal Set. 1st prize, £2; 2nd prize, 10/-. Entrance fee, 2/-.
- 6—The Best Multi-Valve Set (the main features of this to be selectivity, sensitivity, attractive design, efficient layout, and good loud speaker reproduction). 1st prize, £3; 2nd prize, £1. Entrance fee, 2/6.

START IN NOW ON YOUR SET.

EFFICIENCY!**SIMPLICITY!**

Burgin Electric Coy. Ltd.,
349 Kent Street, Sydney.

32 O'Sullivan Road, Bellevue Hill,
4th March, 1926.

Dear Sir,—

I want to let you know that the "Senior Four" Burginphone Set which I purchased from you a few days ago is a great success. As I explained to you before I made this purchase, I looked at every set of note in Sydney priced up to £75, and I am still satisfied that your set beats anything up to that price. I cannot say anything about the Dealer sets. My main point in a set was selectiveness, a set that would get me 3LO Melbourne while 2BL Sydney was operating, and in this connection your set is quite successful, although I am only 3 miles from 2BL. Up to date I have picked up outside of N.S.W., 3LO, 3AB, 7ZL, 4QG, 5CL; the first and last named stations on 3 valves with loud speaker, and 3AR, 4QG on 4 valves with loud speaker. I am expecting greater successes. I pick up 3LO every night for hours on end with a 35 ft. indoor aerial. I would like to mention that 2UW is only 300 yards away from my home, but I have absolutely no interference from it.

In conclusion, I wish you all success, and would like to say I appreciate the service you have proven you are always ready to give.

Yours faithfully,

(Signed) W. H. SINCLAIR.

The receiver supplied to Mr. Sinclair is a

"BURGINPHONE SENIOR FOUR"

WHICH IS PRICED AT

£49 10 0

Complete with Loud Speaker and all Accessories.

Manufactured in Australia by

Burgin Electric Co., Ltd.

340 KENT STREET, SYDNEY

Box 734, G.P.O.

Tel.: City 141, M 3069

Columbia 45 Volt

Vertical "B" Battery No. 4772



DESIGNED for all sets having not more than four tubes using 90 volts. Occupies less than half the table space of the horizontal 45 volt battery, yet contains the same large, powerful cells. Three Fahnestock spring clips—negative, plus 22½, and plus 45 volts.

Factory Representatives: Ellis & Company (Aust.), Ltd., 516 Kent Street, Sydney, N.S.W.

Use only

Columbia Radio Batteries

Made by the manufacturers of the Famous Columbia Dry Cell

The Progressive System of Construction

ADDING AUDIO FREQUENCY AMPLIFICATION TO THE CRYSTAL DETECTOR.

By *Wireless Weekly*

Last week we dealt with the construction of a two coil crystal detecting circuit. In this issue we are going a step further and adding two valves, so that the whole family can enjoy the pleasures of broadcasting. The crystal gives beautiful reproduction, but the fact that only one or two persons can listen-in at any one time makes it a rather limited form of amusement. Another disadvantage of a crystal set is that the listeners are forced to sit in one place with the phones to their ears for long periods. With a receiver which is capable of giving loud speaker reproduction, however, these two disadvantages are entirely obviated, with the result that you are able to invite your friends to a good evening's entertainment.

If due consideration is given to the types of valves and other apparatus necessary for this loud speaker set, we shall have no cause to say that the pleasures obtained are in any way expensive. Readers, however, are especially advised to read the article published elsewhere in this issue—"Bright Emitters or Dry Cell Valves." You will find there a whole host of valuable information which should be particularly instructive to the beginner, who is natur-

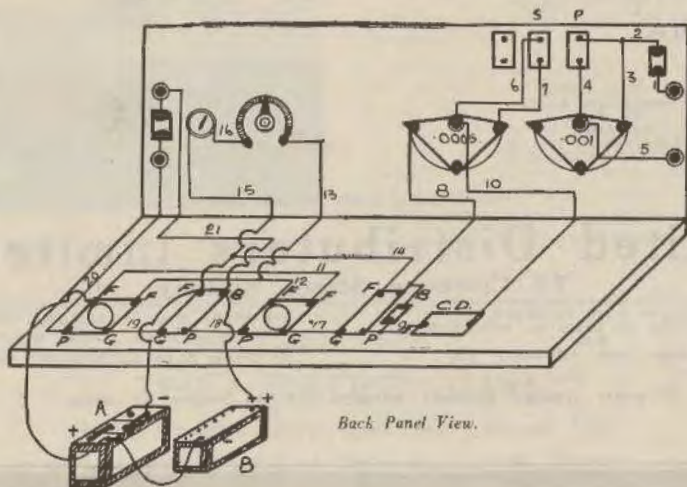
ally a little doubtful as to what type of valves suit his conditions best.

Without a doubt many crystal set owners have not extended their receivers for loud speaker reproduction because they are of the opinion that they will lose the purity of tone which the crystal gives. We feel sure, however, that they will have no cause for complaint in this respect if reasonably good quality parts are obtained.

Fig. 1 shows clearly the back view of the wiring and layout of the additional parts necessary. It will be observed that there are only two additional parts to be mounted on the panel, viz., one rheostat and one filament switch. They should not be spread out too far apart, as we shall need space to mount another one or perhaps two rheostats at a later date.

METHOD AND ORDER OF CONSTRUCTION.

The baseboard layout is self-explanatory. You will notice that the position of the crystal detector has been altered. It has been moved to the right in order to make room for the two valve holders and transformers. When all the necessary parts have been secured to the baseboard and panel you may



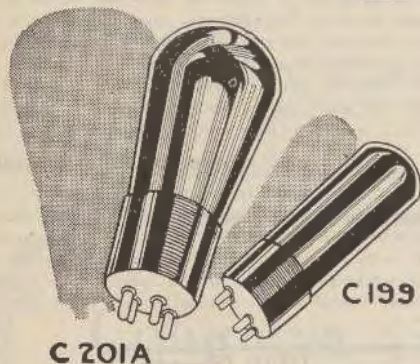
Back Panel View.

CONTINENTAL VALVES

NOW 12/6

Because during this season's boomtime of American Radio **QUALITY & DURABILITY** have produced enormous sales.

Quantity of sales has lowered cost of production, and thus we can now sell these Valves at 12/6 each.



The Valves are the product of years of research and experiment by the engineers of the Continental Tube Laboratories of Chicago. They are non-microphonic—uniform in construction, and noted for their extremely reliable service and long life.

Each Valve is tested before leaving the stores of the Advertisers, and carries an unconditional guarantee of service and quality.

Type C.201A.
Detector and Amplifier.
Fil. Volts, 5.
Fil. Amps., .25.
Plate Voltage, 15—140.
RETAIL PRICE—12/6.

Detector and Amplifier.
Type C.199.
Fil. Volts, 3.
Fil. Amps., .05.
Plate Voltage, 15—80, with 199 or standard base.
RETAIL PRICE—12/6.

Wholesale only from the

United Distributors Limited

72 Clarence Street, Sydney

343 Queen Street, BRISBANE, Q.
Cnr. Jervois Quay and Harris St., WELLINGTON,
N.Z.
27 Chesser Street, ADELAIDE, S.A.

864 Bourke Street, MELBOURNE, VIC.
26 Queen Street, PERTH, W.A.
66 Charles Street, LAUNCESTON, TAS.

If your dealer cannot supply, let us know at once

commence to wire up the components. Connections 1 to 7 are exactly the same as described in last week's "Wireless Weekly." Commencing with No. 8, then, we first link the fixed plates of the .0005 condenser with the +B terminal of the first transformer. No. 9 links the crystal detector with the P terminal of the first transformer (catwhisker connection preferred).

The next connection, No. 10, links the crystal cup with the moving plates of the .0005 condenser. No. 11 links together the two outside P terminals of the two valve holders. Don't let the + and - markings mislead you; follow wire for wire our connections as shown. No. 12 links the two inside terminals of the two valve holders, and No. 13 is soldered to it and continues on to the right hand terminal of the rheostat. No. 14 links the two -F terminals of the audio transformers, and No. 15 is soldered to this link and continues on to the filament switch. Nos. 16, 17, 18, and 19 are short links, which are very easily followed. No. 20 links the P of the last valve holder with the top phone terminal, and No. 21 links the lower terminal with the +B terminal of the second audio transformer.

After carefully checking over the connections, the necessary batteries may next be joined up. You will notice no terminal board is provided. Our battery connections go direct to their respective terminals by flexible leads. The +A battery goes to the left hand terminal of the second valve holder, and the -A goes to -F terminal of one of the second transformers. A permanent connection is

taken from the +A to the -B, and the +B connection goes to the +B terminal of the second transformer.

Carefully adjust the plate and filament voltages to suit the type of valves you are using. You will find that the tuning of this receiver will be no more difficult than tuning the ordinary crystal receiver; in fact, if you have previously taken note of the dial settings and coils used you will be able to pull the filament switch immediately you have completed the construction and obtain sufficient volume to fill a fairly large sized room.

The following materials are necessary to build this receiver:—

- 1 Panel, 20in. x 6½in.
- 1 Baseboard, 20in. x 6in.
- 1 .001 Variable condenser.
- 1 .0005 Variable condenser.
- 1 .0001 Fixed condenser.
- 1 3-Coil holder (or 1 panel plug and 2 coupling plugs).
- 4 Terminals.
- 1 Filament switch.
- 1 Rheostat (to suit valves used).
- 1 Crystal detector.
- 2 Valve holders.
- 2 Valves.
- 2 Audio transformers.
- A and B batteries to suit valves used.
- Honeycomb or spiderweb coils.

"A VERY GOOD RECEIVER."

Referring to the article by "Grid Leak" in "Wireless Weekly," 1/1/26, Mr. F. E. Hardman, Morrison Road, Ryde, who built this receiver, writes saying he has had excellent results. Quoting from Mr. Hardman's letter:—"I have come to the conclusion that the circuit is ahead of anything I have tried for maximum volume, minimum distortion, and for local broadcasting. As only two valves are necessary, it becomes an inexpensive set compared with others giving similar results."

Others, along with our correspondent, have found this set good, and have thoughtfully written us to that effect.



Space between Secondary Condenser Dial and Rheostat is left for extra parts to be assembled later.

WIRELESS FANS—Don't fail to Meet

"THE RADIO GIRL"

At the Conservatorium, April 10th, 12th and 13th
A Futurist Musical Comedy at Popular Prices
Plan and Tickets at Nicholson's—3/3 and 2/-

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, .86 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.

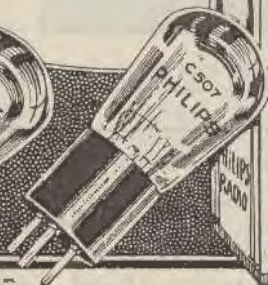
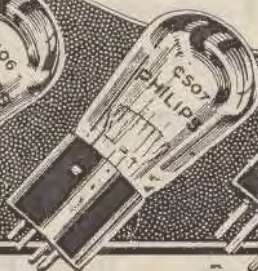
PRICE 17/6 EACH

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.



Bright Emitters or Dry Cell Valves

(Editor's Note: This article on valve and battery expenses should be helpful and instructive to the prospective radio set owner, as it deals with a number of practical matters which are not usually brought forward in the more technical articles on valve reception.)

Compared with the crystal set owner, the possessor of a valve receiving set labours under a disadvantage in the one respect that his set costs him a certain sum for its upkeep. Once a crystal set has been bought and fully equipped, the matter of expense is practically ended. Not so, however, with the valve set. The valve set utilizes current from batteries and accumulators, and in time it becomes necessary to renew one or more of the valves.

Some radio enthusiasts have, to their sorrow, purchased the necessary materials to build a certain receiver without giving one moment's thought to the running cost of the receiver after it is built. Probably this is only a natural behaviour, but, nevertheless, it is very unwise. A motor car is of very little use to any man if he finds himself unable to afford to buy the necessary fuel, etc., for running the car, and in a similar manner the radio broadcast listener who decides to purchase or construct a valve set cannot derive very much satisfaction from it if the financial resources at his command are insufficient to meet the cost of its upkeep.

It is not intended in this article to alarm the prospective purchaser or constructor of a valve set with gloomy warnings as to the expense in which he may be involved in the running of such a set, but rather to point out that, providing that adequate consideration is given as to the type of material purchased, the upkeep expenses of an average one, two, or three valve set are surprisingly small, and in comparison with the costs of other forms of amusement there never was a more truthful saying than the one which has it that "Radio broadcast transmissions of speech and music offers the cheapest form of amusement, entertainment, and instruction that the world has ever known."

The sole expenses which are involved in the operation of an average valve receiver lie in the renewing of the high tension or dull emitter batteries, the occasional replacement of valves, and the cost of recharging the accumulator. The latter item is worthy of special consideration when bright emitter valves are employed in the set.

THE H.T. BATTERY.

It is really false economy to buy a cheap H.T. battery. For a one or two valve receiver the small

size battery of good quality is probably just as economical as the more expensive larger sized one. But for three or four or five valves the largest sized battery should always be used. There are, of course, many good types of accumulator B batteries for those who can afford them, and without a doubt, taking the actual life of a good H.T. accumulator, they are very economical, indeed.

ACCUMULATOR COSTS.

The charging of the "A" accumulator is probably the biggest bugbear that the average broadcast listener has to contend with. There are, of course, many good types of dry cell valves which obviate this necessity, but it is not within the scope of this article to enter into the points of advantage of either the dull emitter or bright emitter valves.

We shall, therefore, merely point out the fact, for the benefit of the radio beginner, that when a bright emitter valve is used, an accumulator is necessary to supply it with current. In the case of a dull emitter valve, the necessary current can be supplied by a specially constructed dry battery.

Now, let us consider the costs involved in the working of a set equipped with bright emitter valves. In the first place, valves of this nature are generally cheaper than valves of the dull emitter type. They are more robust in construction, and they are less liable to burn out or to have their filaments broken by any mechanical shocks. The average bright emitter valve usually requires 5 volts with a current of from .25 to .7 amps. From this it will be readily seen that a 6 volt accumulator is necessary, and in order to supply current for three or four valves for a reasonable period it should have a capacity of at least 60 amps. Read carefully paragraph "The Practical Conclusion."

Every accumulator has a certain capacity, which is determined by the size and number of plates. Thus it will be seen that an accumulator which supplies sufficient current for the operation of a one valve receiver for ten hours will only last half that time if two valves are used. When we say that an accumulator has a working capacity of 30 "ampere hours" we imply that the accumulator will supply current of 1 ampere for a period of 30 hours, or .5 amps. for a period of 60 hours, and so on.

Note carefully that the capacity of an accumulator has nothing at all to do with the voltage or electrical pressure of the current which the accumulator supplies. The voltage depends upon the number of separate accumulators. Thus, a 6 volt accumulator will possess three separate units.

THE PRACTICAL CONCLUSION.

After this little excursion into accumulator technicalities, let us come down to practical matters. We have seen that accumulators supply definite quantities of electricity at definite electrical pressures over definite periods. Now, suppose we are going to use a one valve set that requires .25 amps. at 5 volts.

In the first place we shall need a 6 volt accumulator. By purchasing a 20 ampere hour size and using it four hours a day, the accumulator will be discharging at the rate of one ampere per day. To keep the battery in good condition, however, it is not advisable to discharge it dead flat each time, so that we should need to have a battery of this size charged at least once a fortnight. By purchasing an accumulator with double the capacity, readers will readily see that it will last twice as long without recharging if still used with a one valve receiver. If, however, the number of valves is increased, the size of the accumulator should also be increased accordingly.

The cost of charging an accumulator varies from 1/4 to 4/6, according to the capacity. On the whole, however, it is far more economical to have a large capacity accumulator charged a few times than to have a small capacity accumulator charged at more frequent intervals.

DULL EMITTER VALVES.

For dull emitter valves of the .06 filament amps. type the medium sized dry cells may be used, each of which have a voltage pressure of 1.5 volts. In order to obtain the necessary voltage one or more should be placed in series according to the voltage required by the type of valve in use. Wherever the filaments of dull emitter valves require more than .1 to .2 amps., small sized accumulators should be used.

The actual upkeep and initial cost, valve for valve, using dry cell valves, compares very favourably with the bright emitter valve with its necessary charging expenses.

When everything is carefully considered, however, it will be found that a valve set (especially a multi-valve set) employing valves whose filaments only need .25 amps. is rather less expensive to run than a similar set employing dull emitter valves. The advantage of the latter set is, of course, that



My remarks of last week concerning Philco Socket Power dealt with the two problems met with by any manufacturer attempting to make this apparatus, which were (a) to produce reliable rectifiers which will change A.C. into D.C., and (b) to design a filter circuit of such character and size as to assure smooth reception and long life.

The Philadelphia Storage Battery Company claims to have solved the first by making PHILCO-TRONS; full wave electrolytic rectifiers which give thousands of hours without any attention whatever—not even the addition of water.

The second has been solved by making a full sized transforming and filtering unit—full values and quality throughout.

The combination produces Philco B Socket Power—said to be the most satisfactory B Power ever made; a full size unit, producing absolutely undistorted reception without hum, and with the lowest initial cost based on quantity, weight, and quality of material used in its construction.

In addition to the Socket Power B, which only provides H.T. current, there is the Socket Power "A" and "B," which gives as well the filament or A current.

Briefly put, it means that by making the ordinary connection to the Power Point in your house, you get a perfect supply of H.T. and L.T. current for your set, and you may say good-bye for ever to your battery troubles.

Never again will you invite your friends round to hear the set and then find your A or your B battery has gone dead. We have all had this particularly annoying and humiliating experience in turn, and the Philco Socket Power seems to be the effective answer to it all.

Those of you who have received the Burgess "Index to World's Broadcasting Stations" will, no doubt, be pleased with this publication. Those of my friends in town who have one are of the opinion that from cover to cover it is full of useful information. The Burgess Company, however, tell me that, as foreshadowed in my notes last week, the demand far exceeded the supply, and they very much regret having to hold over so many applications until further stocks arrive.

A list of these, in order of receipt, has been prepared, and everybody will be attended to in due course.

Next week I hope to tell you of a new air cooled Potentiometer I have inspected.—(Advt.)

Every body
uses
Philco
Why don't you?

PHILCO
DYNAMIC RADIO
BATTERIES

All dealers will supply
illustrated catalogues

Trade enquiries only to
Philco Battery Co.,
280 Castlereagh St.,
Sydney
Phone: M3230, M3396

**"BUILT LIKE A
BRIDGE."**



Mahogany Case
A Batteries

Prices, from . . . £4/17/6



Philco A Batteries in Pressed
Glass Case with Built In
Visible Charge Indicator
from . . £2/15/-.



Re-chargeable B Batteries
in 24, 48, and 90 volt
sections.

A large shipment of the
Popular 83X (replaces 90 volt
dry battery) 3,000 Milliamp
hours, has just arrived. Price
£8/15/-; other types from
£2/14/-.

**"WITH THE FAMOUS
DIAMOND GRID
PLATES"**

HINTS ON TUNING (Continued)

By "WIRELESS WEEKLY."

Some helpful instructions on how to operate a regenerative receiver without annoying your neighbours:

Without a doubt many broadcast listeners do not know what causes the troublesome whistles, and many do not know that their own receivers may be adding somewhat to the nightly noise of squeals and squawks. In publishing for the first time some authoritative information regarding the systematical method of tuning receivers, we are confident that if only ten per cent of our readers carry out the instructions contained in this article, we shall have accomplished something which will benefit large numbers of broadcast listeners.

Generally speaking, there are two types of whistling interference heard in regenerative receivers, one is caused by the transmitting station and the other is caused by radiating receivers, or, in other words, by receiving stations that are operated in such a manner that they act as small power transmitters.

How am I to tell whether I am causing Interference?

This is a question which is put by many broadcast listeners. There is one simple rule which answers this question. If, when turning your tuning condenser, you hear the familiar whistling note in your telephones or loud speaker, and if also you can change the pitch of that note by slightly turning the condenser dial, you may be sure that you are causing interference for all the other listeners who live near you, unless your receiver is so designed that it will keep the oscillations out of the aerial circuit. Whistles or howls whose pitch you cannot control by this means do not come from your set and you need not blame

whistle and you find that you can vary its pitch and volume by moving your tuning controls slightly you may be sure that you are causing interference.

There are other methods, of course, the most familiar one being that of tapping a moistened finger on the aerial terminal. If a double plucking sound is heard in the phones each time the finger touches and leaves the terminal, you may be sure your receiver is oscillating. This method, although fairly reliable is not to be recommended.

The most common types of regenerative receivers in use at the present time are of the single and double circuit regenerative type, using either inductively coupled reaction or capacity reaction. It is almost impossible to become proficient in tuning these types of receivers by simply reading books or articles, so that, beyond stating a few simple rules, we shall leave the rest to our readers. "Practice makes perfect" is a very true saying indeed, where regenerative receivers are concerned. When you have, however, become familiar with the signs of oscillation (viz. altering position of tuning controls changes the pitch of the received whistle), your next job should be to find the exact position of the tickler coil where oscillation starts. You will find, however, that the position of the tickler has to be varied for different wavelengths, but when you have found the danger zone of the tickler coil for all the various broadcasting stations you listen to, you may be sure of getting maximum efficiency without causing any interference.

A table laid out as follows is strongly recommended. It should be pinned up near the receiver where it will be helpful to all members of the family:—

Station	Primary coil	Primary condenser setting	Secondary	Secondary condenser setting	Tickler coil	Safe coupling of tickler to
2BL	25		50		35 or 50	ensure receiver is not oscillating.
3LO	25		50		35 or 50	
4QG	35		50 or 75		50	
5CL	35		150		50	
2FC	100				100 to 150	

yourself for causing them. Those of our readers who have not known whether their sets have been oscillating before need only apply this simple practical proof: Remember that if you ever hear a

Note.

The above table is suitable where .001 condensers are used in parallel in primary coil and a .0005 condenser in parallel with secondary. It will be

Harrington

Cash Bargain Month

March 19th — April 19th

New Stocks coming to hand compel us to clear certain lines to make room

TEAR THIS PAGE OUT

Present the page with your order and receive

SPECIAL CASH DISCOUNT

Here is a further list of some of these specials.

Aerial Wire, per 100 ft., 3/-
Aerial Wire, 7/20 Enamel, 6/6.
H.S. Lightning Arrestor, 3/6.
Insulators, 3d., 1d., and 2d.
Insulators, large, 4d and 5d.
Aerial-Earth Switches, 1/9.
Insulating Taps, per reel, 6d.
and 1/-.
Lightning Arresters (outside use),
6/6.

Hydrometers, each 3/6.
"A" Battery Chargers, £5/5/-.
Bevels, each 6d.

BOOKS.

Simplified Wireless, 1/-.
Practical Radio, 7/-.
Crystal Receivers, 1/-.
Crystal Receivers and How to
Make Them, 1/-.
Acquiring the Code, 1/6.
Radio Experimenter's Handbook,
8/6.
Construction Amateur Valve Sta-
tions, 1/3.
A.B.C. of Vacuum Tubes, 4/-.
Amateur Wireless Circuits, 2/6.
Mast and Aerial Construction,
1/3.
Practical Wireless Sets for All,
1/3.
A.B.C. of Wireless, 6d.
Your Broadcast Receiver, 9d.
Guide to Wireless, 1/-.
The Home Constructor, 5/6.
Radio Constructor, 1/3.
Simplex Constructor, 1/3.
The Boy's Wireless Book. The
best book for beginners. In

the simplest language this book
thoroughly explains how to
make, erect, and use Crystal
and Valve Sets, and deals ex-
haustively with everything the
enthusiast wants to know about
Wireless. 92 illustrations. 3/-.
HOME CONSTRUCTION

DIAGRAMS.

1. All About Aerials.
 2. Detector and Amplifier Units.
 3. A Radio Phone Crystal Set.
 4. Remartz Receiver.
 5. Cuckaday Receiver.
 6. Reflex Receiver, 1/3.
 7. 22 Phone Diagrams.
 8. Flewwelling Diagrams.
 9. MUX Diagrams.
 10. Radio Circuits.
 11. Reflex de Luxe.
- and all
Neutrodyne Receivers and all
about them, and a free pamph-
let on an Australian Neutro-
dyne, 1/9.

CRYSTAL SET PARTS.

- Rubber Tubing, per foot 1d.
Wound Primary Formers, 1/9.
Wound Secondary Formers, 1/6.
Loose Coupler Formers, 6in. x
4in., per pair, 6d.
Loose Coupler Formers, 5in. x
4in., per pair, 8d.
Wood Ends, per set of 4, 1/3.
Bashboards, 6d. and 1/2.
Nickelplated Primary Sliders, 3d.
Nickelplated Secondary Rods, 4d.
Phone Terminals, each 2d.
Catswhiskers in packets of 5, 6d.

Spider Web Formers, 6d.
Spider Web Formers, mounted,
1/3.
Mounted Crystal Detectors, nic-
kel, 1/6.
Mounted Crystal Detectors, brass,
1/-.
On Cards, brass, 9d.
On Cards, nickel, 1/-.
Glass Enclosed Crystal Detectors,
N.P., 2/6.
Glass Enclosed Crystal Detectors,
brass, 3/-.
Crystal Cups, 3d.

Detector Bracket and Catswhis-
ker, 3d., 6d., and 9d.
Imperial Crystals in airtight
tins, Galena, Iron Pyrites, Zin-
cites, Hertzite, Borazit, Copper
Pyrites, Q.S.A., 9d. each.
Ebonite Panels, 7 x 2½ x ¼. 6d.
each.
Crystal Sets—Pencil—they work,
2/6.

VARIABLE CONDENSERS.

23 Plate, .005 mfd., 5/-.
43 Plate, .001 mfd., 8/6.

FIXED CONDENSERS.

.001, 6d. each.
.00025, with Grid Leak, 6d.

HONEYCOMB COILS.

Turns.	Unmounted.	Mounted.
20	1/3	3/6
25	1/4	4/-
35	1/6	4/-
50	1/9	4/3
75	2/-	4/8

See next week's Issue for a further list of these Specials.

INSPECT OUR WINDOW DISPLAY NOW!

Harrington Ltd

Wholesalers and Retailers

Photo. and Radio Warehouses

Sydney 386 George Street
 Katomba Katomba 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.

readily understood that the condensers and tickler coil settings must be filled in by readers themselves.

Where a three coil holder is used it is advisable to paint on the holder small white lines which may be used to represent degrees of coupling, of tickler coil. See Fig. 1. In cases where the ordinary panel and coupling plugs are used some other method may appeal to readers. The main point to remember is that you must definitely find out in what position the tickler has to be to ensure non-oscillation for any of the broadcast wavelengths, and in order to tune quickly afterwards, you must have some convenient means of telling when the tickler is in that right position.

Many readers must have noticed that the tuning position of the variable condenser from night to night is not always the same for any one station. This is because you have altered the coupling of the primary and tickler coils. If you carefully follow our instructions, however, and fill in the three vacant columns of the table, you may

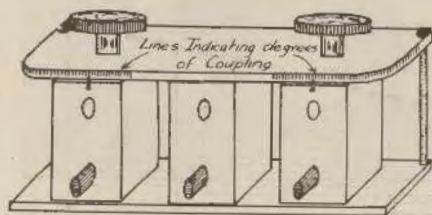


Fig. 1.

be sure that each night the distant or local station will be found on the same setting of the condenser, unless the broadcast stations alters his wavelength, which is not at all likely.

In using your receiver, if it must be a regenerative one, be very careful to use the smallest possible sized tickler coil.

The filament rheostat has also a wonderful effect on the control of regeneration, but generally speaking the large sized tickler coils closely coup-

Continued from page 13

it does not require the continual bother of having to take the battery away to be charged, and also that the dry battery type are rather more portable and certainly less messy than the accumulator type.

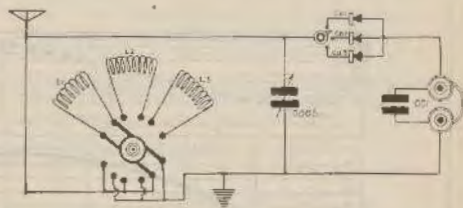
Thus it will be seen that, in the question of costs in the use of the two types of valves, there is not very much to choose from. On the whole, a valve set employing bright emitter valves is cheaper to run, but just whether the advantages of one outweigh the other will entirely depend upon the circumstances with which our many readers are placed.

led to the grid coil, are the worst offenders. Try to-night by decreasing the number of turns in the tickler and we feel sure you will be more than pleased with the improved quality of tone.

Learn to operate your receiver properly, then pass the advice on to all your radio friends. In this way you will be helping to accomplish better radio conditions for yourself and everyone else near you. Take particular notice of our suggestion re the table of coils and adjustments. If every reader will adopt this or some other similar method we feel certain that howling valves will no longer annoy country or city listeners-in.

A NOVEL CRYSTAL CIRCUIT

This little idea explains itself. Coils L1, L2, and L3 are adapted for the wavelengths of the "B" stations, 2BL and 2FC respectively, the correct number of turns for each being determined by experiment. Such an arrangement cuts out "dead-end"



losses, and the series parallel switch enables an instant change from one wavelength to another.

The idea of the three crystals, CD1, CD2, and CD3 is to allow of an immediate change from one to another should a sudden jar or a burst of static dislodge the "point."

Irish classes are conducted three evenings a week with French, German, and Spanish on three other evenings from the Dublin station 2RN.

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

FOR SALE.—Three Valve Set, loud speaker, phones, 48-volt B accumulator, 45 B battery, 6-volt accumulator, £12 or offer. 438. Glenmora Road, Edgecliff.

FERRANTI

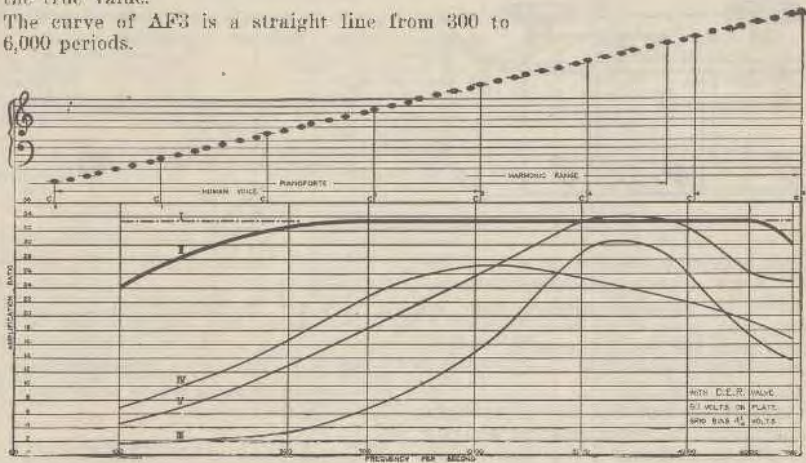
INTERVALVE TRANSFORMER TYPE AF 3

BRITISH MADE

Transformer Amplification curves are of great interest to every Radio user.

The curves must be on the musical scale to give the true value.

The curve of AF3 is a straight line from 300 to 6,000 periods.



Curve I. PERFECTION.

Curve II. FERRANTI AF 3. VERY NEARLY PERFECT.

No BETTER Transformer is available at Any Price

Curve III. }
 Curve IV. } Other Transformers on the Market.
 Curve V. }

Wholesale Traders are desired to communicate with
FERRANTI LIMITED, HOLLINWOOD, ENGLAND

ON THE AIR

SONGS OF OTHER DAYS.

From the studio of 2BL on Monday, March 29th, there will be heard Miss Dorrie Ward and Mr. W. E. Lewis, old friends and favourites of all the listeners-in. These two fine artists are presenting a series of new-old songs, fragrant with memories of other days, and yet new to many of the listeners-in. On the same evening Mr. MacLurean will be heard in connection with radio problems, and will answer questions that are sent in by telephone, the question and answer being broadcast simultaneously.



Players in "The Laughter of Fools," now being broadcast from 2BL. From left to right—Frank Finnan, Miss Bear, Mr. Crowley.

ITEMS BY GRACE SAVILLE.

On Tuesday, March 30th, 2BL will present Miss Grace Saville in items from her repertoire, and Mr. Norman Janson, singing to trio accompaniment, will also figure on that evening's programme.

WELL KNOWN FAVOURITES.

During the afternoon session of Wednesday, 31st March, Station 2BL will broadcast Miss Jean Stones, a brilliant young soprano from Melbourne, who has previously been heard to great advantage. On the evening programme appears the name of Miss Alice Prowse, another widely appreciated 2BL artist, and Miss Freedman and Mr. Trumble will present a sketch. The Ahad Duo will play Hawaiian melodies, and Mr. J. M. Prentice will deliver his usual talk on foreign affairs. On this particular occasion written queries will be acknowledged and answered, and the regular telephone service will be discontinued for that evening.

"LAUGHTER OF FOOLS."

On Thursday, 1st April, 2BL will present the second act of "The Laughter of Fools," a delightful

play that is being produced one act at a time for a period of three weeks. Mr. Stanley R. Catlett, whose voice is heard to such absolute perfection when broadcast, will be singing from 2BL's studio, and on the same evening Miss Lotys Lescaut will be heard in French and English numbers. Miss Lescaut had the good fortune to be born in France, and consequently her French diction is perfect. Many of the listeners-in have testified to the delight with which they hear Miss Lescaut in little French songs that seem to breathe the very spirit of her native land.

EASTER FEATURES.

Covering Easter week from Good Friday on, a special series of concerts appropriate to the Easter season will be broadcast. Artists to be heard during this particular period include the Misses Marjorie Skill and Maisie Burnett, soprano and contralto respectively, who will be heard in solo and duet numbers. On Easter Sunday, at 11 a.m., there will be broadcast a special service from St. Patrick's (R.C. Church), Church Hill, while at 7 p.m. the Presbyterian Church service will be broadcast from Chalmers Church. On Easter Sunday afternoon a special organ recital from Chalmers Street will be radioed, together with a concert from the studio, in which Miss Dorrie Ward and Mr. W. E. Lewis will figure.

TALKS ON FIJI.

A new lecturer to the ranks of 2BL is the Rev. Richard Piper, of Fiji. Mr. Piper is not only a successful missionary, but is highly skilled in various other directions. He is quite well known throughout the Pacific, more especially as a wireless enthusiast of considerable ability. During his period in the



Other artists in "The Laughter of Fools." Left—Miss Cooper, centre Jack Ryan, right—Ella Courtney.

Supertran "Mica Insulated"

Audio Transformers



Supertran 25/- each

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

After exhaustive tests and investigation a new type of insulation, a mica compound, used on the core laminations and bobbins, has been found to eliminate interstage howling, guaranteeing much smoother reception with pleasing clarity of amplification on distant reception. It also allows greater battery voltages to be applied without risk of interwinding breakdown.



FMC 18/6 each

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

Type 51, 30/-

The Orthophonic Transformer.

Ratio, 5 to 1 only

INTERNATIONAL RADIO CO. LTD.

(WHOLESALE.)

200 Castlereagh St.
SYDNEY, N.S.W.

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

Fijian Islands he has constantly acted as a reporter to ZBL in regard to transmission and reception, and now joins the ranks of its broadcasting artists during a holiday which he is spending in Sydney. On two occasions his subject will be that of "Fiji."

TRAVELOGUES.

The travelogue entertainment presented on Friday nights by Mr. J. M. Prentice continues to interest a wide circle of listeners-in, who appreciate his descriptions and scenes and incidents connected with European travel. The mythical travelling party are now traversing the Riviera, and splendid glimpses of the wonderful scenery of the Cote d'Azur are being presented. As Mr. Prentice knows this ground intimately, he is able to particularly deal with places of interest.



These two help to make "The Laughter of Fools" from ZBL such a success—John Hogan and Mollie Dougherty.

SPEAKERS ON OTHER TOPICS.

Miss Mary Edwards continues her delightful series of travel talks also, and her artistic training is evident in the way in which the high lights of any particular scene that she may be describing are brought into evidence. Miss Edwards is not only a trained observer, but possesses a wonderful faculty of passing on the results of her observations. Miss Edwards will be heard on March 29th. Also speaking on the same evening will be Mr. Frank D. Marshall, whose illuminating lectures on the marvels of X-Radiation have held the listeners-in spellbound.

FOR SALE—Four Valve Set (Armstrong push-pull amplification), Amplion A.R.15 Loud Speaker, Batteries, Tungar Battery, Charger, Baldwin Phones, Voltmeter, Coils of all descriptions. Any trial given. Can be inspected any night or week-ends. No reasonable offer refused. Apply 31 La Mascotte Avenue, Concord.

HOLLYWOOD AGAIN.

On Tuesday, 30th, Miss Helen Jean Beegling will continue the story of her adventures in Hollywood, and on the same evening Mr. T. Alkin will conclude his series of talks on dietetics and vitamins. These latter talks have been productive of much good amongst the listeners-in, who are now earnestly considering the necessity and desirability of establishing a balanced diet in order that their physical health may be retained in the fullest possible measure.

CHURCH SERVICES.

The morning service from 2FC on Sunday, 28th, will be taken from St. Andrew's Cathedral. The afternoon programme will be taken from the Peterham Congregational Church, presenting Stainer's oratorio, "Crucifixion." The evening programme will be taken from the same church, giving for the first time Elgar's "Light of Life." From the studio Mr. Lionel Lawson, violin solos, and 2FC Studio Orchestra. Miss Florence Yates, contralto, who leaves for London on the following day, will make her final broadcast appearance in Australia.

FRENCH, SPANISH, ITALIAN, GERMAN.

Day and Evening Tuition. Privately and in Classes.

BERLITZ CONVERSATIONAL METHOD, without translation and grammatical drudgery. Prospectus on application.

PRINCIPAL: MONSIEUR MAURICE BYRN,
Bachelier es Lettres (Paris),

POST OFFICE CHAMBERS, 333 GEORGE ST.
(Phone: BW 6823.

"Learn Foreign Languages, for in the near future you will be able to 'listen-in' to the whole world through the new fairy—wireless."

GEORGE FIELD

297 HUNTER STREET, NEWCASTLE
(Phone: 1185), and at Hamilton

Your mail orders despatched same day at lowest ruling prices. Write for lists,
SPECIAL OFFER. 5 watt Transmitting Valves guaranteed in perfect condition.
17/6.

THE LARGEST AND OLDEST RADIO SUPPLY HOUSE OF THE NORTH.

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.

3 Coil Mounts (British Manufacture) 7/6

5 VALVE NEUTRODYNE KITS, panel drilled, complete with everything ready to build £12

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

Mick Simmons Ltd

THE WORLD'S GREATEST SPORTS STORE

Headquarters: HAYMARKET, SYDNEY

Before you
Expend
Money on
Radio
Equipment
Consult
Anthony
Hordern's
Wireless
Experts.

Your inspection of the big display of everything that is new in the world of Wireless, is invited.

(Wireless -- Second Floor)

Anthony Hordern & Sons Limited,

Frickfield Hill, Sydney

Phone City 94

Box 2712 G.P.O.



Jack Ratford more than does justice to his part in "The Laughter of Paus," one of the most popular features ever put over by 2BL.

'GIVE AND TAKE.'

2FC will broadcast on Friday, 26th, from the Criterion Theatre, by permission of Mr. Harry Green and by arrangements with J. C. Williamson, the second act of "Give and Take." Items from the Lyceum Theatre Orchestra, the Farneradio Dance Band, and a talk on Gilbert and Sullivan by Miss Virginia de Loitte, dealing with the opera "Iolanthe." A French session by Monsieur Maurice Byrn, who will for the first time give in French some news picked up that morning by 2FC from the Bordeaux station in France.

DANCE PROGRAMME.

On Saturday, 27th, 2FC will broadcast a dance programme from the Westworth, popular items from the studio including Rayne and Power Harmony Duo;



Miss Gladys Nash, a popular artist at 3LO, Melbourne.

British Broadcasting Plan

COMMITTEE'S REPORT.

According to a Reuter cable published in the "Sydney Morning Herald" of March 8th, a complete scheme for reorganising the management of broadcasting services in Britain is outlined in the official report of the broadcasting committee appointed to decide the nature of the administration after the expiry of the present company's license on Dec. 31 next.

The committee recommends that broadcasting should be made a public service, and that a corporation consisting of five or seven nominees, chosen by the Crown, should be appointed to take over the staff, contracts, and apparatus of the existing company.

It advises that the commissioners should be persons of judgment and independence, empowered to consult appropriate societies, organisations, and advisory committees to ensure due consideration of all phases of broadcasting. It recommends that generous provision should be made for experiment and research.

The committee urges that the corporation should operate under a license from the Postmaster-General for at least 10 years, and that the commissioners should be invested with the maximum of freedom consistent with Parliamentary control through the Postmaster-General.

Among the committee's minor points are recommendations that the receiver's license fee shall remain at 10/-, blind persons to have licenses free. Every effort, it is suggested, should be made to raise the standard of programmes, especially of music, and to meet the claims of those, though relatively few, who desire a larger proportion of educational matter.

The report raises the present ban on controversial matter, which may henceforth be broadcasted, provided it is of high quality and distributed with scrupulous fairness.

The report counsels the vigorous pursuit and prosecution of pirates. It emphasises that the committee's recommendations do not imply criticism of the present company, which "was formed when broadcasting was embryonic and regarded as a toy, a fantasy, even a joke. It has raised the service to a degree reflecting high credit on British efficiency and enterprise."

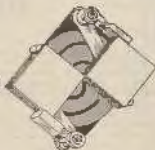
Wally Baynes, comedian; Miss Goodie Reeve, songs at the piano; R. A. Bartleman, baritone numbers; and comedy sketches by Walter Hunt.

Separate that Station

The MEMORISED Straight Line Frequency Condenser is unique and entirely different from any other condenser heretofore brought out, and it is at the same time extremely simple and fool proof. The distinct advantage to the operator is that it gives true Straight Line FREQUENCY Characteristics. This is accomplished solely through the use of the Cam controlling the action of the plates.

PRICES:

.0005 mfd. }
 .00025 mfd. } 24/6
 .00015 mfd. } each



PRICES:

.0005 mfd. }
 .00025 mfd. } 25/6
 .00015 mfd. } each

Low degree dielectric suitable for the above condenser 2/6 each.

OTHER IMPORTANT FEATURES OF THE MEMORISED S.L.F. CONDENSERS.

- (1) Rotar: elimination of back loss.
- (2) Concentration of electrostatic field within small area.
- (3) A balanced condition of the plate assemblies, making unnecessary any friction device and permitting a smooth rotar action of the condenser.
- (4) The full 360 degrees of the dial utilized.
- (5) Dead dial shaft is not connected to either set of plates.
- (6) Die cast throughout, giving a uniformity in production.
- (7) Compactness, being no larger than the old semi-circular job.
- (8) Pig tail connections.
- (9) All condensers have provision for single or three hole mounting.
- (10) One piece for any capacity, .00025, .00015, .0001.
- (11) Distar which permits mounting air core transformers directly on the condenser.
- (12) Unusually low minimum capacity in all these sizes, giving high tuning ratio.

THE ONLY VARIABLE CONDENSER WITH ALL DESIRABLE FEATURES

WILES' WONDERFUL WIRELESS and ELECTRICAL STORES

Branch: 284 Pitt Street, (near Goulburn Street.)

Head Office and Shop: Mr. Pitt and Goulburn Streets, SYDNEY.

Branch: 25 Pitt Street, (near Circular Quay).

Phenomenal Tuning

Eliminate Al-resonator adjustment by using The "PHENOMENAL" Measurement Variable Dial. It is easily fixed to any type of condenser using IFC Dial. It improves the appearance of your set. Provides the necessary control required for long distance tuning. Recently revised circuit action for the most delicate adjustment.

PRICE:

10/6 Each.



PRICE:

10/6 Each.

Eliminates use of geared type of condensers. Runs free parallel to panel. Absolutely no back loss.

Quiet ————— No friction noises
 20 to 1 Ratio.

EASY TO BUILD ————— EASY TO USE

The WONDERTUNE Home Construction Receiver.
 Illustrated Catalogues and prices on application.

Beyond New South Wales

RADIO'S LONG REACH, APPRECIATIVE LISTENERS.

The Sydney broadcasting stations continue to cater for listeners far removed beyond the bounds of N.S.W., and many letters testify to the appreciation with which they are heard. From Wanganni, N.Z., Station 2BL has received the following from a Mr. A. T. Cavell:—

"We have had the pleasure so often of listening in to your station that we feel that it is our duty to send some acknowledgment, and as this evening's listen-in had special features we cannot do better than strike the iron while it is hot. I am specially interested in the more solid things, such as Mr. Prentice's talks and Mr. Andrews' address about the 'white ants,' which, thank goodness, we do not have in this land of ours. Of course, we have ants, but they are obviously of a more genteel type. The family enjoys the musical items. It was amusing this evening to hear the unappreciative listeners condemning the talk, but as I think Mr. Prentice's talks are one of the best features, educationally, of the wireless, you will see that I am one of the vast majority who do not agree with the growler, and I trust

You can have "Wireless Weekly"
mailed direct to your home for
twelve months for—13/-.

that Mr. Prentice will continue to help us along with a better understanding of the world's doings."

Station 2FC has received the following from J A J Ferry, of Clapham, Adelaide:—

"I wish to congratulate you on the programmes you are putting out at present. I can receive 2FC at any time after sunset with a two-valve low loss Reinartz and one audio.

"Can you let me know when you will be transmitting on the shorter wave?"

FOR SALE: New 5 Valve Neutrodyne complete with Philips B406 valves; 6 volt accumulator; speaker and new B batteries. Loud speaker reception of interstate stations guaranteed. £30. J. A. MOSTON, Orierton, Campsie St., Campsie.

WAVE TRAP & METER

Price £3/15/- Complete

We have just landed a shipment of them. High grade General Radio Wave Traps for making your set more selective and cutting out interference from other stations. Attachable without alteration to the Set. Also for use as an accurate wave meter for setting your receiving set to any desired wave length. Price, complete .. £3/15/-

"King Quality"

5 VALVE NEURODYNE

Radio Sets

The most popular of all. Featuring simplified control, and guaranteed to bring in Adelaide, Brisbane, Hobart, Melbourne and any station in Australia at loud speaker strength. Wave length 200 to 550 metres. Without accessories. Price, £25

We have just landed complete stocks of the famous high grade General Radio apparatus. Pay a call to our Wireless Shop and see them for yourselves. All accessories are included. Prices are very moderate.

RADIO DEPT. 22 YORK STREET

DAVID JONES'

THE NEW 4QG

THE STATION WITH A PUNCH

As compared with broadcasting conditions in many other countries, Australia has very little to grumble about. We have, in addition to some excellent B class stations, seven A class broadcasting stations in all, last, but not not least, of which comes the new Queensland station, 4QG.

For some time past the proposed erection of this station has caused a good deal of interest. The station was primarily designed to cater for the wireless public of Queensland, who had hitherto to rely upon the interstate stations for their entertainment and the announcement of the first test met with helpful co-operation from far and wide.

The initial tests from the big station have already taken place, and regular transmissions have been commenced on a power of 5,000 watts and a wavelength of 385 metres, which has been officially allotted to the station. The reports which have been received testify to the efficiency of this short wave. During the preliminary testing period the management was inundated with telegraphic and cable reports from all over Australia, Tasmania, and New Zealand regarding the reception. The first report arrived in the form of a radiogram from Samarai, New Guinea, and read: "Congratulation; maximum strength here." This message was quickly followed by others. Bursie (Tasmania) reported reception at unbearable strength, and after that came a message from Charters Towers stating that loud speaker results were being secured with two valves, and that, using four, the volume was terrific. Judging by the comments which have been made, the station was received with great strength in and around Brisbane, crystal set owners being those who noticed the increase most particularly.

A message from a humourist at St. Kilda, Melbourne, read: "Please replace my loud speaker wrecked by your tornado, or I shall sue for damages." And another broadest listener in South Yarra wired: "Heard you on three valves at loud speaker strength. Wonderful results." An enthusiast in Melbourne actually reported reception on his crystal set, and stated that the transmissions came through perfectly, and a second report of a similar nature came from Bendigo, Victoria. From all over this State reception was excellent on one, two, three and four valves.

An examination of the map of Queensland shows that not a single district of the whole area has not been reached by the station, which was heard right

up the coast from Brisbane to Cairns. All listeners have reported excellent reception and splendid volume. In the middle centre of the State the tests were received splendidly, and right out in the west reception was also all that could be desired. The interstate and New Zealand reports were also very encouraging to the engineers and staff, who have worked tirelessly to make the transmissions a really big success.

Among the messages received by the Director was a cablegram from Taihape (New Zealand), stating that the test transmissions had come through with great punch, and a second cablegram from the Theatre Royal at Christchurch read as follows:—"Three valves, distinct all over the house. Congratulations."

Naturally, New South Wales came within the wide radius, and a Sydney enthusiast used the trunk lines and telephoned the station to report clear reception. Wonderful results were received at Morongla Creek on four valves, and a listener at Nowra reported that without using an aerial and without the use of radio frequency amplifying valves he received 4QG at tremendous strength.

North Queensland should particularly appreciate the added pleasure to be derived from the operations of the station, as, in order to indulge in wireless entertainment in the past, it has been necessary to have multi-valve receivers for really good results. That there are comparatively few broadcast listeners in the North, due to this reason, is borne out by the fact that most of the reports came from the Southern States. However, the wide area over which reception has been reported from the new station is a most effective reply to some of the criticism which has been made during the past few days regarding the alleged directional properties of the aerial system.

The response to the request put out by 4QG for distant reports was surprising. No announcement was made in southern or country centres to the effect that the station would be testing, so apparently all who communicated with the station were listeners who heard the transmission whilst tuning for other stations. The reports came from total strangers in most cases, and with hardly an exception they all contained some expression of congratulation or goodwill.

"Station 4QG was created primarily to enter for

Continued on page 29, bottom of col. 1

R. SLOAN,

Clothing Manufacturer, Croydon.

2/3/26.

Radio Wireless Mfg. Co.,
289 George Street,
SYDNEY.

Dear Sirs,

I am so pleased with your Special Four which I only tried out last night that I must write to you at once to let you know how this beautiful receiver is working. After coupling the set up at about 8.15 p.m. last night I turned the dials and the first station I heard was 5CL, Adelaide, then came 3LO, 3AR, 2BL, 2KY, 7ZL. I think that is something worth writing about.

You may use this letter as you wish and hope you will sell many of them as I think it is the best set I have had out of my seven sets I have owned so far. It beats my five valver.

Wishing you every success, I remain,

Yours truly,

Signed. R. SLOAN,
CROYDON.

You can own a Set like this for

£2/17/6 deposit

and pay the
balance at

8/9 weekly

Total Price

£26/10/0

Complete with Batteries, Valves, Phones and Aerial Gear

RADIO-W'LESS MANUFACTURING CO.

289 GEORGE STREET, SYDNEY

FROM HERE AND THERE

LISTENERS' NUMERICAL STRENGTH.

Interesting figures detailing the total number of radio licenses were given at the meeting of the board. On December 31, 1925, there were 185 licensed radio dealers, 93 licensed amateur transmitters, and 3528 licenses of radio receiving sets, there being 3193 in the last class on August 31, 1925 (says "Thermion" in the "N.Z. Herald").

Apparently there is some reason to believe that there is a goodly number of unlicensed receiving sets in operation. If this is so, then it should be the duty of the radio inspectors to locate the offenders and deal with them. The Christchurch Radio Society has suggested the appointment of two of its members as honorary assistants to the radio inspectors to give their aid in locating offenders who are, of course, liable to a severe penalty. A similar suggestion will be placed before the Auckland Radio Association at an early date.

The increase of 335 licenses during four months was considered by the departmental officers to be rather small, but the writer pointed out that a small increase in numbers is to be expected with the present state of broadcasting. Satisfactory broadcasts from the Dunedin Exhibition would have affected the position to a considerable extent. The failure of the broadcasting company to assist the radio trade to have afternoon demonstrations must also be taken into account, since demonstrations are necessary for

the sale of receiving sets, and each receiving set sold means a new license and additional revenue for the broadcasting company. To make broadcasting a success it is now the general public who must be interested, and their interest can be gained only by broadcasts of good quality. When the broadcasting company and the departmental officers realize this, then, and then only, will broadcasting in New Zealand come into its own.

NEW AUCKLAND STUDIO.

Interesting details of the broadcasting studio to be erected for the new Auckland station, VLAK, have been made available by the manager of 1YA, Mr. L. White. The studio is to be erected in France Street, Newton, at a distance of about 500ft. from the transmitting plant proper, located on the George Court Building, in Karangahape Road. The studio is designed on the lines of modern broadcasting practice in England and America, and should be completed in ample time for the new broadcasting in June, since the old buildings on the site of the studio are now being pulled down so that building operations may commence immediately.

The building will be in brick and concrete, and will have two storeys in the front and one in the rear. The main studio, situated at the back of the building, will be approximately 40ft. long, 24ft. wide and 14 to 16ft. high. Echo effects in this room will, of course, be eliminated by suitable draping and protection of the walls with materials of special acoustic properties. Special arrangements are being made for heating this room in winter, and a fan ventilation system will be used during the summer months.

Adjoining the main studio will be a test and control room with sound-proof connecting doors. In this test room will be situated the switch controls for relay lines, and special testing apparatus for checking the modulation and other characteristics of the transmissions. The test room communicates in turn with a room about 24ft. long and 15ft. wide, arranged so as to serve as the main executive office in the day and as a subsidiary studio at night.

On the opposite side of the main entrance hall a large reception room and lounge will be provided, with cloakrooms adjoining. From the reception room a stairway leads to the upper floor, which comprises well-appointed dressing rooms, janitor's room, kitchenette, and a large smoking lounge and supper room furnished for the comfort of the artists broadcasting. A loud-speaking equipment could easily be installed, so that those awaiting their turn to

Continued from page 27.

Queensland broadcast listeners alone," said Mr. Robinson, the Director of the station: "but the fact that it is being heard in every part of Australia is, indeed, gratifying." When it is in full operation it should prove a tremendous asset to the State, even if it is only a means of putting Brisbane really and truly on the map. The most pleasing feature of the whole of the reports is that they are so Commonwealth-wide, and also that they come from enthusiasts who have heard the station on comparatively inexpensive sets. The wide area of reception speaks volumes for the efficiency of both the transmitter and the aerial system at 4QG, and for the efforts which have been put into these by the installing engineers of Amalgamated Wireless, who worked very solidly on the job."

The wonderful success of Station 4QG, Brisbane, following as it has done on the heels of 3LO's success, undoubtedly testifies to the adequacy of the lower wavelength band.

BURGESS—"THEY'RE ON THE SPEEJACK'S"—BATTERIES

STOP, LOOK, & LISTEN

Marvellous Talking Tape, 7/6

The Famous English "FORMO" Transformer, 15/-

Complete Parts for Looss Coupler Sets, 11/6.

Why not increase the volume of your Crystal Set with our Single Stage Amplifier, complete with everything ready for use and composed of dependable parts for £2/10/-.

Neutrodyne Kits, 16/6 & 27/6.

Valve Sets and Parts sold on terms if required.

MODEL ENGINES & PARTS.**Slingsby & Coles Ltd.**

THE RELIABLE RADIOD HOUSE,
482 FITT STREET

(under the Railway, opposite
Marcus Clark's).

**HOWELL'S
SALE & EXCHANGE**

Large Variety Loud Speakers from 35/- to £8.
Hear them on music.

	s.	d.
Jefferson Star Transformers	17	6
.0005 Vernier Condensers	11	6
30 ohm Rheostats	2	9
Panel Wire, per doz.	1	0
Egg Insulators, per doz.		6
Bull Nose Insulators, per doz.	3	0
12 Point Inductance Switches	2	6
Single Jack	1	9
Double Jack	2	0
Tunatron 201A Valve	9	9
Standard	1	6
Columbia Cells, No. 6	2	6
Bakelite, cut any size, per square inch		3

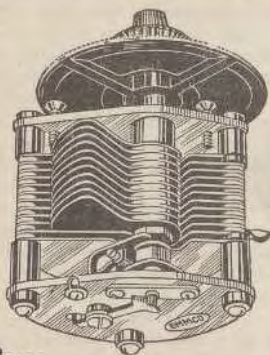
HOW TO MAKE THE HOWELL REINARTZ STILL MORE
SELECTIVE.

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 1133



Buy

Emmco
RADIO PRODUCTS

Emmco Radio Products

Manufactured by Electricity Meter Mfg. Co., Sydney
AUSTRALIAN MADE GUARANTEED LOW LOSS
CONDENSER.

All Capacities with Direct Vernier.

Built like a Watch.

Most Minute Adjustment.

Absolute Insulation.

Grounded Rotor Metal End Plates.

Straight Line Wave Length. Square Law.

Most up-to-date Low Loss Condenser Made.

Emmco Jacks, Single	at 2/6
Emmco Jacks, Double	at 3/-
Emmco Jacks, Switch	at 4/6

SEE THEM AT YOUR DEALERS

broadcast could be entertained by the items from the studio.

The new studio should be one of the best in the Southern Hemisphere, and this, in conjunction with what is among the best and most modern transmitting plants obtainable to-day, should satisfy listeners that, from the technical standpoint, at least, they will receive very excellent broadcasts when the new Auckland station, VLAK, is in operation.

A LIST OF TRAWLERS.

During the last few weeks Amalgamated Wireless engineers have fitted several trawlers with radio-telephone installations, which enable them to maintain communication between each other and with the shore. They operate on about 450 metres. Frequently they may be heard exchanging conversation with 2ME, the station of Amalgamated Wireless.

Here are the call signs:—

- 2BA—Bareaumul.
- 2DU—Dureenbee.
- 2DI—Dibbin.
- 2KO—Kooraga.
- 2GU—Ganundall.
- 2ER—Brolga.

Read the announcement on page 5 concerning the Amateur Exhibit at the Radio Electrical Exhibition at the Town Hall.

MORE CRYSTAL RECORDS.

The publication of paragraphs relating to long distance reception with crystal sets in recent issues of "Wireless Weekly" has evoked quite a lot of discussion. Mr. G. W. Manktelow, "Pasadena," Mulgoa, writes stating that he has been getting 3LO for quite a considerable time on a crystal receiver using Lorenz coils, and that on March 9th, 11th, and 12th, after 2BL had closed down, he received the transmissions from 4QG. The same results are claimed by Mr. W. Becker, of "Roselyn," Chelwynd Road, Merrylands.

A RADIO SET.

QUESTION ALWAYS ASKED.

One of the most common questions asked by the beginner in radio is, "How far will this set receive?"

It can't be answered; at least, not with any degree of certainty. There are too many factors upon which the receiving range of any set depends. One night the world is at your finger-tips; the next night, getting stations a few hundred miles away may be an accomplishment.

But the good nights greatly outnumber "dud" nights, and one can be reasonably certain of good reception from distance stations four to five nights a week. Of course, locals always come in despite static, storms, or whatnot.

RADIO AT EASTER. SPECIAL PREPARATIONS.

Easter is to be made the occasion of special radio features by the broadcasting stations. As was done last year, the awards of the judges at the Royal Agricultural Show will be broadcast as soon as they are decided.

All the show sporting results will also be placed on the air immediately, and for those who cannot attend in person the most important events will be described. Station 2FC will also broadcast the lectures on farming topics that are given at the show, and during the Easter races will make a speciality of announcing the results by air, together with social notes about persons who attend the racing carnival.

Station 2BL is arranging another series of "Great Historical Love Stories" on lines similar to those given by Mr. J. M. Prentice with great success in 1924.

EDISWAN

Type A. R. Valves

Now Reduced to

4 volt, 0.75 amp.
Bright Emitter. Get
some to-day—two
or the old price of

5/-



Leading Dealers
Sell Them

Edison Swan Electric Co. Ltd.
58 Clarence Street . . . SYDNEY

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

<p>Wholesalers:</p> <p>AMALGAMATED WIRELESS (AUST.) LTD. NOYRS BROS. F. A. SEGER LTD. T. F. STEWART & CO. MARTIN DE LAUNAY LTD. HOLDSWORTH, MACPHERSON & CO. HARRINGTONS LTD.</p> <p>Retailers:</p> <p>ANTHONY HORDERNS' FARMERS LTD. GRACE BROS. LTD. E. R. CULLEN. NOOK & KIRBY</p>	<p>Retail Price List</p> <p>BATTERY</p> <p>A - 15V. "Coil" 2/4 1.5 " " "Busser" Lamp 3/0 1.5 " " "Circuittype" 3/0 1.5 " " "Dominion" 4/6 1.5 " " "Navy Special" 3/0</p> <p>B - 60 " " Large Type 25/0 10M x 7 45 " " Large Type 20/0 8 x 7</p> <p>C - 4.5 " " "Bison" 2/4 4.5 " " "Lige Special" 12/0 6.0 " " "Igalic" 15/0</p>	<p>LASSETTERS LTD. EDWARD ARNOLD LTD. RADIO HOUSE COLVILLE MOORE LTD. MISS WALLACE LEVENSON'S SLINGSBY & COLES LTD. MARKS' ELECTRICAL MICK SIMMONS LTD. MARK FOYS LTD. DAVID JONES ECONOMIC RADIO CO. HOWELL'S WIRELESS EX-CHANGE RAILWAY RADIO STORE MARKS' RADIO STORE</p>
---	--	--

All Leading Radio and Electrical Stores

Every Cell is Guaranteed.

Made by Australians, in Australia, for Australians.

Supplied to—

Postmaster-General's Department

New South Wales Government Railways and Departments

Factory Representatives:

REG. ROSE & CO.

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



1.5 Volt Burner.
High Amperage
35 ampz Std. Circuit

Navy Department
Public Works
Water Board
New South Wales Fire Brigades,
Ordnance Stores etc.

Manufactured by

**WIDDIS DIAMOND DRY CELLS
PTY. LTD.,**

West Melbourne, Vict.

Around the Traders

DUBILIER ANODE RESISTANCE.

Requirements for anode resistance is ability to carry the normal anode current of the valves for prolonged periods without overheating and without change in resistance value.

Amalgamated Wireless (A/sia) Ltd. state that their Dubilier anode resistances are all tested off D.C. voltage of 200 volts, and are, therefore, capable of carrying the current that such voltage causes to



pass through them. The anode resistances of 20,000 ohms have a current carrying capacity of 10 ma. And those of 100,000 ohms have a current carrying capacity of 2 ma. Also, in order to ensure adequate constancy in resistance value under working conditions, all Dubilier grid leaks are tested off 100 volts d.c.

A NEW ACCUMULATOR BATTERY.

We are informed by Noyes Bros. (Sydney) Ltd. that, in conjunction with their Melbourne house, they have secured the sole agency for Australia for the radio batteries manufactured by Oldham & Son Ltd., of Manchester, England. Two years ago the Oldham Accumulator was unknown to any wireless enthusiast, as up to that time the makers had for very many years confined their attention to the manufacture of batteries for large industrial applications, such as mining work and transport. The batteries are made by what is known as the Oldham Special Activation Process—an improved method of making a more robust and more energetic plate, whereby the plates are rendered active right through and not merely on the surface only, as in the orthodox type of accumulator. It is claimed that this Special Activation Process enables a battery to hold its charge much longer than the ordinary type of plate, and should appeal to those users who are looking for a battery that will reduce the expense and inconvenience of constantly recharging their "A" batteries.

Even a little relief in this direction would be welcome, and readers would do well to investigate the possibilities of the Oldham Battery. Noyes Bros. will be pleased to supply full particulars of the various types available.

MARCO VARIABLE RESISTANCES.

These resistances are made up in two sizes, one that can be used as a grid leak with a variation in range from 1/5 to 5 megohms. This resistance is particularly suitable for a variable grid leak for any valve on the Australian market. It possesses the one whole feature of mounting with two nickel-plated terminals at the rear.

The other resistance is from 15,000 to 100,000 ohms, and is particularly recommended as a resistance shunt across audio frequency transformers in place of fixed condensers, which are sometimes advocated. The base and the knob are made of pure bakelite. The whole is of moisture-proof construction, and possesses also the one hole fixed mounting. These have also been found to be particularly good when used in the radio frequency B battery feed circuit in order to control unnecessary oscillation.



Messrs. Harringtons Ltd. advise having these in stock, together with several other Mar-Co lines, such as Marco Neutralising Condensers and the Marco Super-Vernier Condensers, particularly for use with neutrodyne sets.

FOR SEPARATING THE STATIONS.

W. Harry Wiles have now on sale a straight line frequency condenser which is unique and entirely different from any other condenser brought out up to the present. The "Menominee" is extremely simple and fool-proof. By means of the cam controlling the action of the plates it has the distinct advantage of giving true straight line frequency characteristics.

Some of the most important features of the "Menominee" are that the balanced condition of the plate assemblies, prevents the necessity for any friction device, and permits a smooth velvet action of the condenser, and the design permits mounting air core transformers directly on the condenser. It has an unusually low minimum capacity in all sizes, thus giving high tuning ratio. The full 360 degrees of the dial may be utilised.

The whole job is extremely compact, being no larger than the old semi-circular job, and pigtail connections are used.

LITHUANIAN AMATEUR WANTS INFORMATION.

Mr. Leslie Pfahl, Secretary of the Sydney Esperanto Society, has received a letter from a radio friend in Lithuania, in which the latter states that there is a big radio station at the capital, Karnna. A fair number of people have small receiving sets, including many people residing in the country, to whom the news broadcasted is extremely welcome. From time to time news is broadcasted in Esperanto. Mr. Pfahl's correspondent, who is a young man, is anxious to get news concerning radio matters from Australia. His address is:

S—re Stasys Rimeika,

M. Vevirzinaï,
Kretinga Litovujo,
Lietuva Europo.

UNUSUAL.

So as to enable the radio amateurs in Australia to purchase the De Forest Type "H" Transmitting Tube at the Lowest possible price, THE INTERNATIONAL RADIO CO., LTD. 200 CASTLEREAGH STREET, SYDNEY have decided to sell these transmitting tubes ONLY direct to the Amateurs.

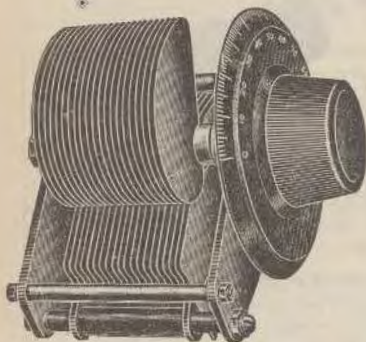
This course enables the INTERNATIONAL RADIO CO., LTD. (factory agents for De Forest) to sell this De Forest "H" transmitting tube at £10 each nett.

This 150 watt tube is guaranteed to oscillate from 1 to 200 metres, and incorporates quite a number of most desirable features.



NINE POINTS

THAT MAKE IGRANIC CONDENSERS THE VERY BEST



The Aristocrat of variable condensers. The IGRANIC Square Law. Designed and built with a real knowledge of Radio requirements. Made in four sizes: 29/6 up.

1. **LOW LOSSES.** Special method of mounting fixed plates reduces dielectric losses to an absolute minimum.

2. **LOW EFFECTIVE RESISTANCE.** Connection to moving plates by means of flexible spiral conductor ensures positive electrical contact and noiseless operation.

3. **EARTHED ROTOR.** Moving plates electrically connected to frame of condenser provides adequate shield and eliminates stray capacity effects.

4. **SMOOTH ACTION.** Ensured by special ball bearings. Facilitates precise tuning adjustment.

5. **SQUARE LAW.** Specially shaped plates give straight-line

tuning relations between dial settings and wavelengths.

6. **ROBUST CONSTRUCTION.** Fixed and moving plates of heavy gauge brass sheet. Perfectly rigid and will not warp.

7. **METAL FRAME.** Adequate shielding and strength are provided by a frame of specially prepared hardened aluminium alloy.

8. **INSTRUMENT FINISH.** Highest quality scientific instrument finish, handsome combined tapered knob and 4-inch Bakelite bevelled dial.

9. **EASY TO MOUNT AND CONNECT.** Drilling templates provided with each condenser. Soldering tags to facilitate making connections.

ONCE YOU HAVE HANDLED THIS CONDENSER YOU WILL USE NO OTHER.

All dealers stock IGRANIC Radio Devices.

SOLE AGENTS:

NOYES BROS.

(Sydney) Ltd. Melbourne (Pty.) Ltd.

SYDNEY: 115 Clarence Street.

MELBOURNE: 495 Bourke Street.

NEWCASTLE: 11 Wait Street.

ADELAIDE: Darling Buildings,

BRISBANE: Perry House.

Franklin Street.

HOBART: 145 Macquarie Street.

And at LAUNCESTON; also from J. W. R. Gardam, PEETH.

Sole Agents for BROWN'S Loud Speakers.

Distributors of PHILIPS Valves.

Write for Booklet No. 3, which illustrates and describes the complete range of the famous IGRANIC parts.

H.T.4—30 volts. Similar in construction to the H.T.3. This model is convenient for those who prefer to have their high tension supply in 30 volt units. In hardwood case as illustrated.



CAV

Will improve your radio. These accumulators give 4 to 6 months use on one charge and are superior in every way to dry batteries. Obtain further particulars from Australasian Representatives: BENNETT & WOOD LTD., 284 Pitt St., Sydney, N.S.W.

CAV Anderson & Co. Ltd.
WIRELESS VALVE ACTION, LONDON W.1



H.T.3—60 volts. The Wonder Wireless Battery. Lasts for years and rechargeable over and over again. In Hardwood Oak stained case with carrying handle.

H. J. HAPGOOD

Challis House, Sydney

Telephone: BW 6753

Representing 38 Australian and Foreign Radio Manufacturers for both Indent and Immediate delivery.

Sales Agent for Renrade Products, also
Emmco Products Manufactured by
ELECTRICITY METER CO.

Gives you more programmes

The REAL Long Distance Valve

DESIGNED specially for powerful long distance radio reception. Gives you the means to pick up those weak elusive signals and amplify them to reality.

You can add the programmes of distant stations to your reception by securing the valves that are associated with all the great trans-world records.

MULLARD Double Red Ring VALVES

Type D.3 for 2-volt accumulator. PRICE

Type D.06 for 2 or 3 dry cells or 4-volt accumulator.

GET ONE FROM YOUR RADIO DEALER

15/-
EACH

Mullard

THE MASTER VALVE

MULLARD VALVES CAN BE OBTAINED FROM ALL RADIO AND ELECTRICAL DEALERS.

Advertisement of the Mullard Wireless Service Co. Ltd., Balha, London, S.W.12, ENGLAND.

(ARKS A.1)

FOUR SENSATIONAL OFFERS!

Payment of **£1** will secure immediate delivery in the Metropolitan area of any of our Special Offers.

£1 DOWN and 5/- WEEKLY

WONDERFUL COMBINED OFFER

Do you realize that for **£4** down and **£1** a week we will deliver to your home a Super Cabinet Telephone a Valve Wireless Set, a Pathé Home Cinema and one of Heiron & Smith's Lift-on Billiard Tables?



OFFER NO. 1

SUPERB CABINET
TUNOPHONE

Noted for its remarkable reproduction of tone, value and exclusive Non-Scratch features. A gem of workmanship in a handsome highly polished cabinet. **£1** down secures immediate delivery. Balance 5/- weekly.



OFFER NO. 2

VALVE WIRELESS

SET on an exclusive unit system. This set is built in a handsome foundation cabinet and has a twelve set with headphones and a loud speaker permanently built in. Applicable to all classes of reception. Extra valves can be added to a full strength 4 valve set without reconstruction. **£1** down secures immediate delivery. Balance 5/- weekly.



OFFER NO. 3

Pathé Home Cinema at **£18-18-0** or a Perfect Pathé Cinema Camera at **£12-12-0**, enabling you to photograph your friends in living pictures that become permanent records. Show these with a programme of Pathé Educational, Dramatic and Comic films in your own home. Thousands of films to select from which can be screened up to 8 ft x 6 ft. **£1** down secures immediate delivery. Balance 5/- weekly.



OFFER NO. 4

Heiron & Smith's Lift-on Billiard Table. Complete for the game of Billiards with cues, balls and marking board. **£1** down secures immediate delivery. Balance 5/- weekly.

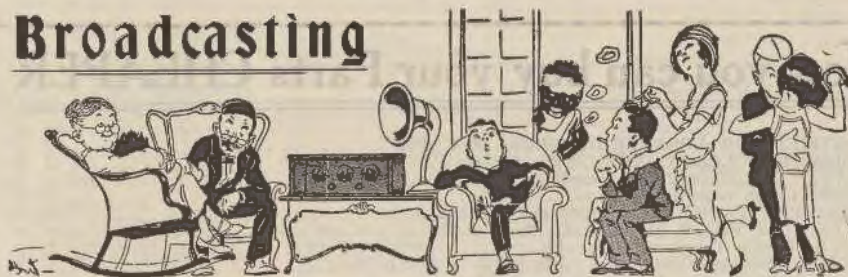
Call at once with a Pound Note and we will deliver immediately to your Home.

HOME RECREATIONS LTD.

388 GEORGE STREET (Opp. Beard Watson's)



Broadcasting



2BL

SUNDAY, MARCH 26.

BROADCASTER (SYDNEY) LTD.
Call Sign, 2BL. Wavelength, 353 metres.

FRIDAY, MARCH 26
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; A talk on English Poetry by Mr. J. M. Freatice.
- 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 This World of Ours.
- 4.45—Music from the Studio.
- 4.55—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.
- 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.
- 7.50—Close down.

Evening Session.

- 8—Sacred Concert broadcast from St. James' Hall.
- 9.30—Concert from the Scouts; Round the World Franchise by Mr. J. M. Freatice. Rev. Richard Piper will speak on "Fiji."

SATURDAY, MARCH 27.

Afternoon Session.

- 2—G.P.O. Clock and Chimes; Special Sporting Information broadcast direct from Sun Office.
- 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—A Talk to the Kiddies by "Brin-ga."
- 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.

Evening Session.

- 8—Variety programme from the Studio; Brin-ga will speak about the "Aborigines" and Mr. W. Fitzpatrick will chat on "Life at Sea." Boya Imperial Orchestra under the direction of Mr. Lionel Hart, broadcast from Hoyt's Theatre. Dugowan Modern Dance Band, Manly, under the direction of Mr. Gess. Tracker.

- 11 a.m.—Chalmers Presbyterian Church; Minister, Rev. D. F. Brandt.
- 3.30—Boothlova's "Mount of Olives," broadcast from St. John's, Darlinghurst.
- 7.15—St. Thomas' Church of England, North Sydney; Rector, Rev. H. N. Baker.
- 8.30—Manly Municipal Military Band, broadcast from Bandstand, Ocean Beach, Manly.
- 9.30—From the Studio; Broadcasters Miniature Orchestra under the direction of Mr. Horace Keats.

MONDAY, MARCH 29.

Afternoon Session.

- 3—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. Freatice.
- 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 This World of Ours.
- 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.
- 7.10—"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.

- 8—Concert Broadcast from Randwick Hospital. From the Studio; Mr. Chas. MacLaurin will speak on "The Development of Wireless" and reply to any telephone question on the subject. A lecture by Miss Mary Edwards.

TUESDAY, MARCH 30.

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.
- 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 This World of Ours.
- 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.

- 8—Eunice Theatre Symphony Orchestra; Conductor, Mr. F. Watkins. From the Studio; Broadcasters Miniature Orchestra under the direction of Mr. Horace Keats; Norman Janson, baritone; Grace Saville, contralto; The Sydney Players will present the second act of the comedy entitled "Laughter of Fools." Miss Helen Jean Begging will speak on "Side Lights on Movie Life and Work" and Mr. T. T. Alkin on "Vitamines and Dietetics."

WEDNESDAY, MARCH 31.

Afternoon Session.

- 3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.
- 3.15—Broadcasters' Trio.
- 3.30—G.P.O. Clock and Chimes; Special Musical Session.
- 4—G.P.O. Clock and Chimes; Broadcasters' Trio.
- 4.30—G.P.O. Clock and Chimes; Serial Story entitled This World of Ours.
- 4.45—Broadcasters' Trio.
- 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 Uncle Jack with 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 St. James' Hall.

THURSDAY, APRIL 1.

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;
- 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 This World of Ours.
- 4.45—Music from the Studio.

BURGESS—"FOR EVERY CIRCUIT AND VALVE"—BATTERIES

Now you can buy your Parts CHEAPER

	s.	d.
CERTIFIED LOW LOSS CONDENSERS: .0005 plain	12	0
MIDGET LOW LOSS CONDENSERS: 5 plate	3	0
DIALS: 4 inch Black, 2/4; 3 inch Black	1	5
DIALS: 4 inch Bakelite De Luxe	3	9
VERNIER ATTACHMENTS: Dials and Buttons	3	0
JACKS: Ajax Fantail, Double 2/4; Single	1	9
PLUGS: Double Telephone Plugs	1	9
SOCKETS: Standard metal shell sockets, 199, 1/6; type 201A	1	11
WOOD ROTORS: For Variocouplers, etc., 3 inch	7	
TERMINAL BOARDS: Engraved with 7 posts	2	6
RHEOSTATS: Improved Ajax, 30 or 6 ohm	2	1
POTENTIOMETERS: Improved 400 ohms	3	0
LOUD SPEAKER CORDS: Single	1	9

HAVE YOU TRIED THE NEW "RADEX" 201A AND 199 VALVES YET?

9/9 each

NOTHING BETTER.

The Economic Radio Stores

28 ROYAL ARCADE, SYDNEY.

Phone: M 3049.

569 HUNTER ST. WEST, NEWCASTLE.

Phone: New. 1622.

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: B4543.

Private address:

16a Ness Avenue,
Dulwich Hill.

"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	6/6
25	1/7	6/6
35	1/8	6/6
50	1/10	6/7
68	2/-	6/9
75	2/1	6/10
100	2/3	7/1
120	2/4	7/2
136	2/5	7/3
150	2/6	7/3
170	3/-	7/6
200	3/-	7/6
250	3/6	8/6

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

AUSTRALIAN MADE.

Manufacturer:

Phone: Eog. 1155.

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

- 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.
 8—From the Studio: Broadcasters Trio; Sydney Players will present the third Act of the comedy entitled "The Laughter of Fools"; Last Lesson; soprano. Dance music until Midnight supplied by Ambassadors Jazz Orchestra under the direction of Mr. Al. Hammett.

5CL

GENERAL BROADCASTERS LTD.
 Call Sign, 5CL. Wavelength, 895 metres. Input, 5 K.W.

FRIDAY, MARCH 26.

- Morning Session (11.30 a.m. to 2 p.m.)
 11.30—G.P.O. Chimes.
 11.31—Stock Duo Art and Aeolian Vocalion records.
 12—G.P.O. Chimes.
 12.1—News and Cable Service.
 12.30—The 5CL Studio Orchestra will play: Selection; cornet solo; fox trot; oriental; waltz; selection; waltz; cello solo; finale.
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcement.
 2—G.P.O. Chimes.

Afternoon Session (3 to 5).

- 3—G.P.O. Chimes.
 3.1—Relay from Maple Leaf Cafe; Orchestral Numbers.
 3.45—Broadcast from Studio: Serial Story.
 4—G.P.O. Chimes.
 4.1—Broadcast from Arcadia Cafe; Orchestral Numbers. Miss Thomas, vocalist.
 4.55—Stock Exchange Reports, General Information and Station Announcements.
 5—G.P.O. Chimes.

Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories for the Children.
 7.30—Stock Exchange, Market Reports and Station Announcements.
 7.40—Sporting Talk by "Old Timer."
 8—G.P.O. Chimes.
 8.1—Studio Concert arranged by Mr. Howard Banerjee, A.T.C.I.; Accompanist, Miss Isidell Penny, L.T.C.I.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 6.45—Relay from Pavilion Theatre, by permission of the management.
 10.25—"Advertiser" News Service.
 10.55—Station announcements; National Anthem.

SATURDAY, MARCH 27.

- Afternoon Session.
 2.30—From the Exhibition Building; Relay the 5CL Children's Party.
 Evening Session: 6.30 to 10.30
 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories for the Children.
 7.30—Market reports and station announcements.
 7.40—A review of the world's chief sporting events.
 8—G.P.O. Chimes.
 8.1—Studio Concert arranged by Mrs. Hubert James, E.T.C.I.
 9—G.P.O. Chimes.

- 9.1—Weather Reports.
 10.2—"Advertiser" News Service.
 10.30—Station Announcements; National Anthem.

SUNDAY, MARCH 28.

Morning Session:

- 10.55—Broadcast from Black Forest Baptist Church. Divine Service. Preacher: Rev. W. Keith Steward.

Afternoon Session.

- 2.45—From Black Forest Baptist Sunday School Kindergarten Department. The usual Sunday afternoon lesson story told by the superintendent, Mrs. L. Pedler. Hymns by the children. Pianist, Miss D. Fiddock. Solo, Mrs. W. Keith Steward.
 3.30—From Black Forest Church. Pleasant Sunday afternoon. Chairman, Rev. W. Keith Steward. Speaker, Male quartette, solos.

Evening Session:

- 6.55—Broadcast from Rose Park Congregational Church. Divine Service. Preacher: Rev. H. Watts Grinnett.
 7.15 to 7.30—Lectures: "Thinking for Health," Mr. P. H. Nicholas.
 8.1—Instrumental Bible Students Association.
 9.31—Instrumental and musical numbers by members of the Midnight Follies.
 10—Station Announcements; To-morrow's Programme; National Anthem; Close down.

MONDAY, MARCH 29.

Morning Session (11.30 a.m. to 2 p.m.)

- 11.30—G.P.O. Chimes.
 11.31—Stock Duo Art and Aeolian Vocalion records.
 12—G.P.O. Chimes.
 12.1—News and Cable Service.
 12.16—Featuring Stock Duo Art Numbers.
 12.30—The 5CL Studio Orchestra will play: Quartet; cornet solo; fox trot; Novellette; waltz; selection; finale.
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcements.
 2—G.P.O. Chimes.

Afternoon Session (3 to 5).

- 3—G.P.O. Chimes.
 3.1—Relay from Maple Leaf Cafe; Orchestral Numbers.
 3.45—Broadcast from Studio: Serial Story.
 4—G.P.O. Chimes.
 4.1—Broadcast from Arcadia Cafe; Orchestral Numbers.
 4.55—Stock Exchange Reports, General Information and Station Announcements.
 5—G.P.O. Chimes.

Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories for the Children.
 7.30—Stock Exchange and Market Reports and Station Announcements.
 7.40—Swimming Talk by Mr. Boatwright.
 8—G.P.O. Chimes.
 8.1—Opening of S.A. Railways Autumn Flower Show by Hon. J. McInnes, M.P., Speaker of the House of Assembly and excerpts from concert during the evening.
 8.20—"Twinkler's" Boys' Club.
 8.40—S.A. Railways Autumn Flower Show, continued.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 9.3—Studio Orchestra in popular numbers.
 9.9—A talk on "Photography," arranged by Messrs. Harrington Ltd.
 9.25—Studio Orchestra, continued.
 10—G.P.O. Chimes.
 10.1—Studio Concert, continued.
 10.30—"Advertiser" News Service.
 10.45—Station Announcements; To-morrow's Programme; National Anthem.

TUESDAY, MARCH 30.

Morning Session (11.30 a.m. to 2 p.m.)

- 11.30—G.P.O. Chimes.
 11.31—Stock Duo Art and Aeolian Vocalion records.
 12—G.P.O. Chimes.
 12.1—News and Cable Service.
 12.16—Featuring Stock Duo Art Numbers.
 12.30—The 5CL Studio Orchestra will play: Selection; cornet solo; fox trot; waltz; waltz; pas des cochons; selection; finale.
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis and Station Announcements.
 3—G.P.O. Chimes.

Afternoon Session (3 to 5).

- 2—G.P.O. Chimes.
 3.1—Relay from Maple Leaf Cafe; Orchestral Numbers.
 3.45—Broadcast from Studio: Serial Story.
 4—G.P.O. Chimes.
 4.1—Broadcast from Arcadia Cafe; Orchestral Numbers.
 4.55—Stock Exchange Reports, General Information and Station Announcements.
 5—G.P.O. Chimes.

Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories for the Children.
 7.30—Stock Exchange, Market Reports and Station Announcements.
 7.40—Physical Culture Talk by Mr. Noel E. Hubble.
 8—G.P.O. Chimes.
 8.1—Relay from Rose Park Congregational Lecture Hall, by the King Kennedy Costume Concert Company.
 8.30—Cookery Talk arranged by S.A. Gas Co.
 8.45—Relay from Rose Park Congregational Lecture Hall, continued.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 10—G.P.O. Chimes.
 10.30—"Advertiser" News Service.
 10.55—Station Announcements; National Anthem.

WEDNESDAY, MARCH 31.

Morning Session (11.30 a.m. to 2 p.m.)

- 11.30—G.P.O. Chimes.
 12—G.P.O. Chimes.
 11.31—Stock Duo Art and Aeolian Vocalion records.
 Station Announcements.
 12.1—News and Cable Service.
 12.30—The 5CL Studio Orchestra will play: Selection; cornet solo; fox trot; instrumental trio; four favourite airs from "High Jinks"; cello solo; waltz; finale.
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis, and Station Announcements.
 2—G.P.O. Chimes.

Afternoon Session (3 to 5).

- 3—G.P.O. Chimes.
 3.1—Broadcast from Maple Leaf Cafe; Orchestral Numbers.
 3.45—Serial Story from the Studio.
 4—G.P.O. Chimes.
 4.1—Relay from Arcadia Cafe; Orchestral Numbers.
 4.55—Stock Exchange Reports, General Information and Station Announcements.
 5—G.P.O. Chimes.

Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories for the Children.
 8—G.P.O. Chimes.
 8.30—Science lecture arranged by Messrs. F. B. Fanning & Co., Mr. R. B. Aldersey, B.Sc., A.A.C.I.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 9.23—Relay from the Pavilion Theatre, by permission of the management.
 10.25—"Advertiser" News Service.
 10.40—Station Announcements; National Anthem.

BALKITE

The Noiseless Battery Charger

Ends the Nuisance of Weak Radio Batteries

No owner of a radio set need ever again be caught with weak batteries. For Balkite—the Noiseless Battery Charger—may be used while the set is in use. Its operation does not create disturbances in either your set or your neighbors'. Balkite parts, and nothing to out of order. It will discharged Battery. It and cannot discharge, charge the battery. It unfalling. It consumes watt lamp. Keep your long their life, and en- from your radio set by The Balkite Battery Charger charges the ordinary 6 volt radio "A" Battery from 220-240 AC 50 cycle current. It will also charge "B" Batteries of the lead type in multiples of 6 cells. A special adaptor for charging 2 and 4 volt batteries can be supplied.



has no bulbs or moving adjust, break, or get charge a completely delivers a taper charge short circuit, or over- is simple, efficient, and less current than a 60- batteries charged, pro- joy the full benefit buying Balkite now.

FANSTEEL
Balkite Battery
Price £8/15/-
Charger

SOLD BY LEADING RADIO DEALERS EVERYWHERE.

Manufactured by The Fansteel Products Company Inc., North Chicago.

SOLE AUSTRALIAN DISTRIBUTOR:—

O. H. O'BRIEN, Sydney (Late O'Brien & Nicholl) 37-39 Pitt Street, SYDNEY
 518 Collins St., Melbourne

THURSDAY, APRIL 1.

- Morning Session (11.30 a.m. to 2 p.m.)
 11.30—G.P.O. Chimes.
 11.31—Stock Duo Art and Aeolian Vocalion Records.
 12—G.P.O. Chimes.
 12.15—News and Cable Service.
 12.30—The SCL Studio Orchestra will play:—
 Overture; violin solo; fox trot; rustic festival; waltz; instrumental trio; concert solo; madrigal; finale.
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis and Station Announcements.
 2—G.P.O. Chimes.

Afternoon Session. (3 to 5).

- 3—G.P.O. Chimes.
 3.1—Relayed from Maple Leaf Cafe: Orchestral Numbers.
 3.15—Broadcast from Studio: Serial Story.
 4—G.P.O. Chimes.
 4.1—Broadcast from Arcadia Cafe: Orchestral Numbers.
 4.55—Stock Exchange Reports, General Information and Station Announcements.
 5—G.P.O. Chimes.

Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories for the Children.
 7.15—Health Talk arranged by Mr. A. M. Whitehouse.
 7.30—Stock Exchange and Market Reports, and Station Announcements.
 7.40—Talk on Poetry by Mr. A. M. Whitehouse.
 8—G.P.O. Chimes.
 8.1—Relay from St. Peter's Cathedral: Stainer's Crucifixion. From the Studio: A programme of Sacred Music by leading artists.
 10.45—"Advertiser's" News Service.
 11—G.P.O. Chimes.
 11.1—Station Announcements: To-morrow's Programme; National Anthem; Good Night.

40Q

QUEENSLAND RADIO SERVICE.

Wavelength, 385 metres.

FRIDAY, MARCH 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 to the Tivoli Theatre.
 8.5—From the Studio: Three minutes of an hour's Irish Entertainment by Mr. Charles O'Mara and Miss Anna Burke. Miss Anna Burke's musical numbers will include: (a) Sheanogha Vale (Stroud), (b) Little Bit of Heaven (O'Leary and Ball), (c) Hills of Donegal (Traditional Air), (d) You'd Better Ask Me (Licht); Mr. Charles O'Mara's numbers will include: (a) The Foggy Dew (Traditional Air), (b) The Bard of Armagh (Traditional Air), (c) The Married Boy (Moore), (d) Molly Brannigan (Arranged).
 9.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
 8.55—Announcements.

- 9—A programme of music by the Ellie Orchestra (under the leadership of Mr. W. E. Kendall), 4QC Artists assisting. March: In the Conning Tower (Brazil), The Ellie Orchestra; soprano solo; Flower Song (from "Faust") (Gounod), Mrs. Robt. Bell; waltz: Mighty Lak, a Rose (Nevin and McKee), The Ellie Orchestra; Ten Minutes of Melody, by "The Sparklers"; Overture: Princess of India (King); cello solo: On wings of song (Mendelssohn), Mr. W. Heaps; suite: Indian

Love Lyrics (Flinden), The Elite Orchestra; soprano solo: Laud of the Long Ago (Ray), Mrs. Robt. Bell; concert solo: Polka, Commodore (Chambers), Mr. J. Dandy; Orchestral: (a) Intermezzo, in a Moonlight Garden (King), (b) Melodie, Elena (Zaenick) The Elite Orchestra.
 9.55—"The Daily Mail" News Service.
 10—Close down.

SATURDAY, MARCH 27.

No Midday Transmission.

The Children's Hour.

- 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.

- 8—Tune in to the Tivoli Theatre.
 8.5—From the Studio: soprano solo: A Brown Bird Singing (Herdin Wood), Miss Lillian Brown; elocutionary number: He Fell Among Thieves, Miss N. Douglas Graham; concerto solo: My Heart is Wary (Goring Thomas), Miss Jessie McDonald; Aeolian selection: When the Stars were Brightly Shining (Puccini), Ms. Hardy Williamson; vocal duet: In Spring Time (Newton), Mrs. R. G. Allen and Miss Jessie McDonald; Duo Art selection: Sabre and Spurs March (Souss), elocutionary number: His Artist's Secret, Miss N. Douglas Graham; mezzo soprano solo: Slave Song (del Rio), Mrs. R. G. Allen; Aeolian selection: The Magic of your Voice (Masc-Denniel), Miss Evelyn Scotney; soprano solo: Down in the Forest (London Ronald), Miss Lillian Brown; vocal duet: Trot Here and Trot There (Veronique), Mrs. R. G. Allen and Miss Jessie McDonald.
 9.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
 8.55—Announcements.

- 9—From Lennon's Hotel: by courtesy of the proprietors of Lennon's Hotel, an hour and a half's dance music by Miss May Doherty's Vice-Royal Orchestra will be relayed from Lennon's Ballroom.
 10.30—From the Studio, "The Sunday Mail" News Service; Close down.

SUNDAY, MARCH 28.

Morning Session.

- The morning service in the Wharf Street Congregational Church will be relayed.
 10.55—Tune-in.
 11—Church Service.
 12.15—Close down.

Afternoon Session.

- The Band Concert provided in the Botanical Gardens will be relayed.
 3.10—Tune-in.
 3.15—Band Concert.
 3.45—Close down.

Night Session.

- The complete evening service in the Wharf Street Congregational Church will be transmitted.
 7—Church Service.

- At the conclusion of the Church Service, the Greater Brisbane Municipal Concert Band will be transmitted.
 9.30—Close down.

MONDAY, MARCH 29.

Midday Session.

- 12.55—Tune-in signal.
 1—Market reports supplied by the Coun-

cil 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.

- 8.5—From the Studio: Soprano solo, Gecu Bambino (P. A-Yon), Miss Olga Harris; Hawaiian Instrumentalists, The Kahu Trio; soprano solo, The Kahu Trio; soprano solo, The Little Red Lark (Stanford), Miss Olga Harris; group of banjo numbers, by Mr. N. Goidl; bass solo, Come to the Fair (Martin), Mr. N. A. Coaling; Hawaiian Instrumentalists, The Kahu Trio; soprano solo, The Little Red Lark (Stanford), Miss Olga Harris; group of banjo numbers, by Mr. N. Goidl; elocutionary number, Soliloquy on an Old Shoe (Nicholls), Miss Peo Todd; ten minutes of melody by the Sparklers; Hawaiian Instrumentalists, Beautiful Hawaii, the Kahu Trio.
 9—From the Band Room: An hour of music by the South Brisbane City Orchestra, under the leadership of Mr. J. W. Ferguson. Programme: Overture, Post and Precent (Von Suppe); entr. act, Rose Mousse (Augusta Buse); characteristic piece, The Dorkies' Jubilee (John M. Turner); Idylle, The Hard Girl's Dream (Lab-tsky); soloists, Misses H. Bennett and T. Bowman; Oriental scene, In the Soudan (G. Salko); description, A Hunting Scene (Bucalossi).
 10—From the Studio: The Daily Mail news service. Close down.

TUESDAY, MARCH 30.

Midday Session.

- 12.55—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.

Night Session.

- 8—Tune-in to the Tivoli Theatre.
 8.5—From the Studio: Baritone solo, Let me like a Soldier Ball (Wallace), Mr. Les Faulkner; Scotch comic, Australian Girls are good enough for me (Lander), Mr. W. Donald, enr.; harmony duet, Down the Trail to Home, Sweet Home, Messrs. W. Donald, enr., and Les Faulkner; lecture: Photographic Ball (Salko), Mr. Les Faulkner; Scotch comic, soprano solo, Waters of Minnetonka (Licurance), Miss Ruth Portrate; instrumental number, Glomming waltz (Phillips), the Studio Quartette; tenor solo, Like a Beam (Slotow), Mr. W. Donald, enr.; Scotch comic, Mr. W. Australian Lassie (Cannon), Mr. W. Donald, enr.; concerto solo, Rose-

mary (Penas), Miss Hilda Cooper; harmony duet, Noarer and Noarer (Alatyn).

8.50—Weather information officially supplied by the Commonwealth Weather Bureau.

8.55—Announcements.

9.5—Baritone solo, If I might only come to you (Squire), Mr. Les Faulkner; contralto solo, Vale (Russell), Miss Hilda Cooper.

9.15—From the Centennial Hall: The orchestra will play: One step, If I don't get some money (Tom Swift & J. O'Higgins) Smile All the While (Will Higgin); fox trots, Doodle Doo Doo (A. Kessel M. Stitzel), California Hero I Come (A. Jolson Bul de Sylva), Jewelled Nights (F. Ottenson); waltzes, Rainbow (Horatio Nicholls), In the Firelight's Glow (C. J. De Garis).

10—From the Studio: The Daily Mail news service. Close down.

WEDNESDAY, MARCH 31.

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 music; bedtime stories by "Little Miss Brisbane."

7.15—Close down.

Night Session.

The first part of to-night's programme will be relayed from St. Andrew's Presbyterian Church. It will consist of Part 1 of "St. Matthew Passion" (J. S. Bach). At the organ, Mr. A. H. West, L.M.S., P.C.L. Conductor, Mr. E. Dalley Scarlett.

7.55—Tune in signal.

8—From St. Andrew's: Chorus, Come ye daughters; recit., When Jesus finished all these sayings; chorale, O Blessed Jesus, Then assemble the Chief Priests; chorus, Not upon the feast; recit., Now when Jesus was in Bethany; chorus, To what purpose is this waste; recit., When Jesus perceived it; recit., Then went one of the twelve; solo, Blood and break; recit., How on the first day of unleavened bread; chorus, Where wilt Thou that we prepare; recit., He said, go ye into the city; chorus, Lord, is it I; chorale, This sorrow Thou art bearing; recit., He answered them and said, And when they had sung an hymn; chorale, From ill do Thou defend me; recit., Then answered Peter; recit., Then cometh Jesus; solo and chorus, Behold how throbs; solo and chorus, I would beside my Lord.

9—From the Studio: Weather information supplied by the Commonwealth Weather Bureau; announcements; sop-

rano solo (a) Old Fashioned Tower (Squire), (b) I Passed by Your Window (Brabe), Miss Anna Burke; lecture to farmers by the Council of Agriculture; vocal duet, By the Swirling River; Mrs. R. Bell; Bar-B-Best and Miss Nance Smith; soprano solo, Bells of Brittany (Phillips), Mrs. R. Bell; contralto solo, The Enchantress (Hatton), Miss Nance Smith; baritone, Prologue (Looncauval), Mr. Reg Best; soprano solo, Just for a While (Griest), Mrs. R. Bell; baritone, Harlequin (Sanderson), Mr. R. Best; contralto, It is not because your heart is mine (Lohr), Miss Nance Smith. The Daily Mail news service. Close down.

THURSDAY, APRIL 1.

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 to the Tivoli Theatre.

8.5—From the Studio: Soprano solo, A Northern Lament (Brabe), Miss Minnie Norris; Bookman's Radistie, a talk on literature by Mr. W. A. Braiden; bass solo, The Two Grenadiers (Schumann), Mr. S. Tamblin; instrumental number, It's Loneome in Emsberg Lane (Campbell), the Studio Quartette; soprano solo, Something Sweet to Tell You (Fanning), Miss Minnie Norris; ten minutes of harmony by the Sparklers; Aeolian Vocalion selection, band, The Flying Squadron (Seaton); bass solo, When the Ebb Tide Flows (Gordon), Mr. Stanley Tamblin; instrumental number, Leander (fox trot from Kalia) (J. Gilbert), the Studio Quartette.

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.

9.55—From the Studio: The "Daily Mail" news service. Close down.

2KY

WEEKLY BROADCASTING PROGRAMME.

TRADES HALL.

Call Sign. 2KY. Wavelength. 289 metres.

FRIDAY, MARCH 26.

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.

Evening Session.

7.45—Latest news items; Miss Emma Diehl, L.L.C.M.; Miss Maizie Carroll,

soprano; Mr. Alf. James, baritone; Mr. Beard, technical designer of 2KY, wireless lecturette; Ed. Corderoy's Moonlighters' Dance Orchestra; Miss T. O'Neill, contralto; Miss Kathleen Stenz, soprano; Mr. J. Fahy, tenor.

SATURDAY, MARCH 27.

Evening Session.

7.45—Latest news items and sporting results; Mr. J. O'Sullivan, baritone; lecturette, Hints on Motors, Mr. W. H. Burgess; Mr. Frank Redman, monologue; lecturette, Social Science, Mr. J. C. Eldridge; Yellow Cubs' Atlanta, Novelty Dance Orchestra, and others to be announced.

MONDAY, MARCH 29.

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.

Evening Session.

7.45—Latest news items; Miss Amy Ruwald, entertainer; Miss D. Johnstone, soprano; Mr. W. Strain, tenor; Mr. Walter Falkner, musical burlesque; lecturette, local topics, political and industrial, Mr. J. S. Garden; Mr. Beard, technical designer of 2KY, wireless lecturette; Miss Jessie Browning, contralto; Mr. Godfrey Sheadman, elocutionist.

TUESDAY, MARCH 30.

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.

Evening Session.

7.45—Latest news items; Mr. McKillop, tramway comedian; Miss Dorrington, soprano; Cec. Morris and his Bluebirds' Jazz Orchestra; lecturette, A Study in Evolution, Mr. Geo. E. Manuel; Miss Zara Nilsson, soprano; lecturette, Mr. R. V. Markham; Auto solos, Mr. Les Sproutler; Mr. M. Douglas, Hawaiian steel guitar.

WEDNESDAY, MARCH 31.

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.

Evening Session.

7.45—Latest news items; Miss Eileen Charters, soprano; Miss Dean, pianist; Mr. Don Ellis, harmonica; lecturette, international topics, industrial and political, Mr. J. S. Garden; Mr. R. Webster, baritone; Mr. Percy Brown, monologue; Mr. Sullivan, tenor; Miss Thompson, soprano; Miss Lily Wallace, whistler.

THURSDAY, APRIL 1.

Afternoon Session.

2.30—A varied musical and vocal pro-

BURGESS—"ASK ANY RADIO ENGINEER"—BATTERIES.

gramme 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; Messrs. Hayden and Price, cornet duet; Miss Tibble Smith, monologues; Mr. Eric Goldrick, Hawaiian steel guitar; recitatives, Australian Poets, Mr. Thomas; lecture on the Abrams Methods, Mr. Mansel; Gen. Morris & his Bluebirds' Jazz Orchestra.

2FC

Sydney Mean Time.
Wave Length: 1100 metres.
Power: 5 kilowatts.

Morning Session:

10.10 The Chimes of 2FC.
10.15 Weather Reports, etc.
11.0 Cables.
11.5 Cookery Talks on Tuesdays, Wednesdays, Fridays. Fashion Talks on Mondays and Thursdays. Gardening Talks on Saturdays.
11.30 Mondays, Wednesdays, and Fridays. Educational Talks to the Kindergarten Classes, Primary Schools and Secondary Schools.

11.45 Close down.

Midday Session:

12.30 The Chimes of 2FC.
12.35 Stock Exchange, morning call.
12.40 Music.
1.2 Time Signals.
1.3 Coastal Farmers (no Stock Exchange).
1.20 Musical Programme.
1.30 Stock Exchange, noon call.
1.35 Musical Programme.
Afternoon Session:
3.25 The Chimes of 2FC.
3.30 Musical Programme from Oak Hall Restaurant.
4.45 Last call from Stock Exchange.
4.50 Close down.

NOTE: Race results are transmitted on all race days immediately after each event has run.

Early Evening Session:

6.50 The Chimes of 2FC.
6.55 "The Hello" Man."
7.15 Market Reports, etc.
7.30 Close down.

Night Session:

7.45 Talks on various subjects.
8.0 Musical Programme.
The evening entertainment broadcast from Station 2FC is varied and includes theatrical transmissions from the Theatre Royal, Her Majesty's Theatre, the Criterion Theatre, the Falcon Theatre, the Tivoli Theatre, Haymarket Theatre, and the Prince Edward Theatre. Jazz music provided by the Wentworth Orchestra is also broadcast direct, and high-class musical entertainments provided at the Studios of 2FC, in which Sydney's leading artists participate, are also features of the programme.

SUNDAY.

Morning Session:

(Church Services.)
Afternoon Session:
Sacred Programmes, including Band, Concert and Organ Recitals.

Evening Session:

Church Services broadcast from St. Andrew's Cathedral, St. Mary's Cathedral, St. Mark's (Darling Point), St. Stephen's (Phillip Street), All Saints' (Woolahra), Lyceum Hall, Pitt Street Congregational Church, Peterham Congregational Church, St. Julia's (Randwick), William Street Methodist, from 8.45 to 8.30. Until 10 o'clock, Sacred Concerts and Band Recitals.

3LO

BROADCASTING CO. OF AUST. PROP. LTD.

Call Sign, 3LO. Power, 5 kilowatts. Wavelength, 371 metres.

FRIDAY, MARCH 26.

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.
12.55—Meteorological information. Weather forecasts for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast. River reports.

1—Time signal. Gipsy Smith Commonwealth Evangelistic Campaign; midday service transmitted from Wirth's Olympia.

1.50—The Studio Orchestra. Musical Director: Heasle Gammam. Selection, Rosamunde (Schubert).

2—Close down.

Afternoon Session, 2.30 to 5.

2.30—School children's farewell to his Excellency, Governor of Victoria, the Earl of Stradbroke, transmitted from Exhibition Buildings. Choral numbers by a choir of 1000 school children.

4—The Studio Orchestra. Valse Bluetie (Deize).

4.5—An Exit of Buckley and Nunn Ltd. Fashion talk.

4.50—Bobby Pearce, baritone, by request. I am a Renner (Mendelssohn), Sands of the Desert.

4.57—Agnès Fortune, pianoforte solo, A Night in May (Talmgren).

4.52—Bobby Pearce, baritone. A Chip of the Old Block (Squire), Il Baleno—Trovatore (Verdi).

4.59—The Studio Orchestra, fox trot, Footloose (Rupp).

4.45—"Herald" and "Argus" 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 Bunny, Nursery Rhymes, The Musical Trip, Houses of the Eagle.

6.45—"Argus" and "Herald" news; Reuter's and the Australian Press Association cables.

6.59—Weather synopsis; shipping movements.

6.57—Fish Market reports by J. R. Borrett Ltd.

7.2—Stock Exchange information.

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 Develop Australia League, Cr. D. O'Keefe, Mayor of Footscray, Australia's Birmingham.

7.40—Mr. Harry Retcliff, now playing the part of Kappel in Lila Time at the Theatre Royal, will speak from his dressing room (by permission of J. C. Williamson Ltd.).

8—The Collingwood Citizens' Band, The Vedette.

8.5—Blue Danube.

8.15—Bobby Pearce, baritone, In Old Madrid (Protee), O Promise Me (de Koven).

8.32—Prof. Pietro Sarcoli, violinist, Chanson Louis XIII, Le Pavane (Gourpin Kreisler), Love Song (Sommerini-Elman), Sicilienne and Rigaudon (Francoeur-Kreisler).

8.37—Madame McNutt, soprano, San-tuzza, L'Hymne al sole.

8.44—The Collingwood Citizens' Band, Jesus, Lover of my Soul; cornet solo, Because, J. Trimble; band, March B.B.C.F.

8.59—Mr. Leslie Brunning, Gardening Notes—Clarkins, Larkspurs, and Polyanthus Primroses.

8.14—The Collingwood Citizens' Band, Sahara.

9.19—Percy Blundell, tenor, Rose in my Garden (Gourtyne), Juggin' Along the Highway (Samuel).

9.26—The Collingwood Citizens' Band, Informezse, After Sunset.

9.34—Howard Edie, recital, The Story of the Bells (Irving's Version).

9.50—Professor Pietro Sarcoli, violinist, Ave Maria (Schubert-Wilkeley), Caprice Viennois (Kreisler), Tambourin Chinois (Kreisler).

10.5—"Argus" and "Herald" news.

10.10—Bobby Pearce, baritone, Santa Barbara (Russell), Pleurette (Geoch).

10.17—The Collingwood Citizens' Band, National Honour.

10.22—Madame McNutt, soprano, Un bel di Vedremo, Adriano Lecoureur.

10.30—The Collingwood Citizens' Band, selection, Faust.

10.46—Percy Blundell, tenor, There's a Girl in Kildare, The Harvester's Night Song.

10.47—The Collingwood Citizens' Band, Any Flambeaux, Show me the Way to go Home.

11—God Save the King.

SATURDAY, MARCH 27.

Midday Session, 11 to 2.

11—Harold Rodgers, pianoforte, a Cyril Scott recital, Water Wagtail, Columbine, Lotus Land, Valse Caprice, Irish Reel.

11.15—Sonora recital, I Passed by Your Window (Frahe), Love's Old Sweet Song (Molloy), sung by Evelyn Scottroy.

11.23—Harold Rodgers, organ, a Men-

SURE TO GET IT AT GRACE BROS.

Shipments have just arrived of the following

Modern Wireless Aids

and are offered at very keen prices

ACCUMULATOR 'B' BATTERIES, "Ediswan," 60 volt, 56/-

ACCUMULATOR "B" BATTERIES, "Ediswan," 40 volt, 39/6
In Polished Wood Carrying Case.

GENUINE LOW LOSS, SQUARE LAW CONDENSERS.

With Bakelite Insulation and Grounded Rotor Plates,
one-hole fixing.

.00025	9/-
.0005	12/-
.001	15/-

201A VALVES, Bakelite Base 9/- } Fully
199 VALVES, Bakelite Base 9/6 } Guaranteed.

ACCUMULATORS—2 Volt, 40 Amp Hour	15/-	} These prices include acid and first charge.
2 " 60 "	18/6	
4 " 40 "	25/-	
4 " 60 "	35/-	
6 " 40 "	37/6	
6 " 60 "	48/-	
6 " 80 "	61/-	

VOLTMETERS—Watch-Case type, 0-6 Volts, 0-120 Volts. 9/6
Panel Mounting Type, 0-130 Volts 9/9

Honeycomb Coils, 25 to 200 Turns	1/3 to 2/-
Coil Plugs, Best Quality	1/3
Panel Plugs, Best Quality	1/9
Coupling Plugs, Best Quality	1/9
Reftone Supersensitive Crystal	1/2
Condensers, English make, .0005, with Dial	6/6
Condensers, English make, .001, with Dial	8/6

OBTAINABLE AT—

GRACE BROS. LTD. RADIO DEPT.

BASEMENT

GEORGE STREET WEST BUILDING, BROADWAY

Q.S.L.

The meaning of the three letters QSL is: "Please give me a receipt" — or, in other words—"Send me an acknowledgement."

There isn't a transmitter on the air now who is not glad to get a report on his signals, whether they are phone or C.W.

You can put everything you want to say on a Publicity Press QSL card. It takes only a minute to fill in and conveys all the information the transmitter wants.

Over the last few months we have printed thousands of these cards for both transmitters and receivers, among them 2UW, 2CX, 2BF, 2LM, 2WW, 4CK, etc.

There is a QSL card for every purpose and they may be had either from stock or to suit individual tastes.

Write, phone or call.

Publicity Press Ltd.

Printers and
Publishers

12-16 Regent Street
SYDNEY

Phones Red. 064 & 930.

delsohn recital, A Christmas Piece G major, E flat, and D.

11.38—Sonora recital, Wind in the Trees (Reiceldt), Fantasia Rigoleto (Vardi), Auto solos played by John Asmdio.

11.45—Harold Rodgers, pianoforte, Automne (Chaminade), Three Serious Dances (Yorke Bowne)—(A) Allegretto, (b) Poco Lento, (c) Allegro Molto.

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, suite, Chelsea China (Besley).

1.10—Theresa Tierman, 'cello solo, Reverie (Foncuquier).

1.15—Madame McNatt, soprano, Castillan Lament (Del Biego), Matinista (Leoncavallo).

1.23—The Studio Orchestra, American Fantasia (Bendix).

1.30—Fox trot, Teach Me to Smile (Grisvold).

1.35—Madame McNatt, soprano, I Love the Moon (Rubens), Melodie (Massenet).

1.42—The Studio Orchestra, Reminiscences of Strig (Godfrey).

1.55—Fox trot, Leander (Gilbert).

2—Time signal. Close down.

2.30—Result of Open Handicap.

Afternoon Session, 3 to 5.

3—Time signal. Result of Two-Year-Old.

3.1—Frank Ottenson's Orchestra, fox trots, Pioneering Blues (Kierman), You've Gotta Know How (Williams).

3.15—Bert Preece, piano solo, Prelude (Rachmaninoff).

3.21—Frank Ottenson's Orchestra, waltz, After the Dawn (O'Hagan).

3.30—Result of Brush Steeple.

3.31—Darrall Thomas, tenor, When the Dream is There (d'Hardict), Isabel (Bridge).

3.38—Frank Ottenson's Orchestra, one step, Savoy American Medley.

3.48—Fox trots, Five Fool Two (Lewis Young), Jewelled Nights (Ottenson).

4—Result of Montone Handicap.

4.1—All sporting results to hand.

4.5—Darrall Thomas, tenor, The Green Hill of Somerset (Coates), Just Her Way (Aiken).

4.12—Frank Ottenson's Orchestra, waltz, When I Dream of the Last Waltz with You.

4.20—Frank Ottenson, violin solo, Remembrance (Telma).

4.26—Frank Ottenson's Orchestra, one step, Copenhagen (Davis).

4.34—Result of Trial Plate.

4.35—Frank Ottenson's Orchestra, fox trots, Carolina (Johnson), Red Hot Henry Brown (Rose).

4.45—"Herald" and "Argus" news services; Reuter's and the Australian

Press Association cables; sporting results.

5—Time signal. Close down.

Evening Session, 5.45 to 7.15.

5.45—All sporting results, local, country and interstate.

6—Children's hour. Stories by Mary Gamist, Poem, Disobedience; story, The Brave Starling; boys and girls, Hansel and Gretel, with musical illustrations.

6.5—"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. Horrett 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., the Pioneering Work of a Scottish Naturalist.

7.40—Dr. J. A. Leach, D.Sc., the Bones of a Bird.

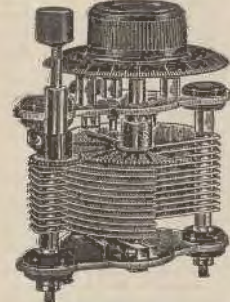
8—By permission of J. C. Williamson Ltd., and by courtesy of Mme. Pavlova, the music incidentally to the dances transmitted from His Majesty's Theatre. During the interval Mr. J. Hawlett Ross will speak on modern dancing.

11—God Save the King.

SELECTIVITY

The proximity of Wavelengths now demand SELECTIVITY IN RADIO SETS.

A Variable Condenser with a geared vernier plate is more selective than one without, and with this you must have low-loss.



THE HEATH
NON-
DIELECTRIC
STRICTLY
LOW LOSS
CONDENSER,
With Geared
Vernier,

Fills these Requirements

Adopted by makers of good sets.
Prices: .001, 35/8; .0005, 30/-; .00025, 27/-.
Plain, 7/- less. (.00035 Plain, 21/6).
Dial—3in., 4/-; 4in., 5/- extra.

NOT THE CHEAPEST, BUT THE BEST.

OBTAINABLE AT LEADING STORES.

PARSONS & WHITEMORE LTD. (Radio Dept.), 30 Market St., Sydney.

Non-Microphonic

MEANS FREEDOM FROM MICROPHONIC NOISES.
THERE IS ONLY ONE NON-MICROPHONIC
VALVE.



TRUE
BLUE

QUALITY

not Price—sells "True Blues"

SUNDAY, MARCH 28.

Morning Session, 11 to 12.15.
11—Service from Collins Street Baptist Church.

Afternoon Session, 3 to 4.30.

2—Gipsy Smith Communion with Evangelistic Campaign, afternoon service transmitted from Wirth's Olympia.

Evening Session, 6 to 6.45.

6—Children's Hour. Stories by Billy Billy: The Lost Garden, The Love-liest Life, The Last Likeness.

6.45—Close down.

Night Session, 6.45 to 10.

6.45—Service from Yarra Street Methodist Church, Geelong; Sunday School Anniversary.

8.30—Concert by Yarra St. Methodist Church Choir, Geelong; E. J. Dickson, pianoforte solo, A Prelude in E (Misthay), Moment Musical (Bachmannoff).

8.40—Winnie Taylor, soprano, Rejoice (Gravily, from Messiah (Handel), The Song of India.

8.45—Harold Stott, baritone, Thus saith the Lord, from Messiah (Handel), The Arrow and the Song (Balle).

8.50—Dulcie Searle, mezzo-soprano, How lovely are Thy dwellings (Liddle), Babe of Mine (Jessie Smith).

9—Ian Dickson, baritone, Deep River, arr. (Pischer), You bring a Me (Sanderson).

9.10—A. Pickrell, violinist, Cavatina (J. Raff), A Meditation (Gounod).

9.17—Warwick Short, tenor, recit., With Overflowing Heart; aria, The Soft Southern Breeze, from Rebecca (Barry).

9.24—Winnie Taylor and Harold Stott, duet, The Garden of Your Heart (Dore).

9.30—Mrs. R. G. Ebbott, contralto, Melisande in the Woods (Alma Goetz), Have you heard of my boy Jack (E. German).

9.37—E. Wilson, bass, Pure and Tender Star of Eve (Wagner), Vale (Russell).

9.44—Myrtle Tronace (soprano), Dulcie Searle (soprano), duet, To the Woods.

9.53—Warwick Short, tenor, Cast thy burden on the Lord (Lambdin).

10—God Save the King, "Argus" and "Herald" news and weather report from the studio.

MONDAY, MARCH 29.

Middle 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, musical director Bessie Gunnson; overture, Barber at Sevilla (Rossini).

1.8—Agnes Fortune, piano solo, Country Gardens (Percy Grainger).

1.13—Leslie Beardsall, tenor, Now Sleeps the Crimson Petal (Quilter), Glorious Devon (German).

1.20—The Studio Orchestra, fox trot, After I Say I'm Sorry (Walter Donaldson).

1.30—Dorothy Roxburgh, viola solo, Canzone (Max Bruch).

1.36—Leslie Beardsall, tenor, O Lovely Night (Ronald), A Little Green Hat (Lennard).

1.43—Walter Smith, cornet solo, Two Little Bullfinches (Kling).

1.49—The Studio Orchestra, selection.

The Balkan Princess (Paul Rubens).

2—Close down.

Afternoon Session, 3 to 5.

3—Time signal.

3.1—The Studio Orchestra, Mandelstohn Suite (Tom Clarke).

3.10—Miss M. Meyer, Recollections of an Infancy.

3.25—Romola Hanstein, soprano, A Lament (Coleridge-Taylor), Chanson Japonaise (Korsakow).

3.32—Miss Flora Pell, Domestic Economy.

3.47—Tasma Thirman, 'cello solo, By the River (Morse).

3.54—E. Mason Wood, baritone, Sea Fever (John Ireland), Harlequin (Sanderson).

4—The Studio Orchestra, Londonderry Air (old Irish) (O'Connor-Morris).

4.5—The Station Trio, No. 1 (Herrmann).

4.13—Romola Hanstein, soprano, Go, Lovely Rose (Quilter), Fairy Wood (Drummond).

4.20—The Studio Orchestra, fox trot, Everything is Ratsy Totsy Now (Irving Mills).

4.25—E. Mason Wood, baritone, Border Ballad (Cowan), Massmates (Lohr).

4.32—The Studio Orchestra selection, Miss Book of Holland (Paul Rubens).

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 Magical 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. 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.

7.20—Under the auspices of the New Settlers' League, Mrs. G. L. Goodie, Breadmaking on Farms, Govt. Tourist Office, Your Easter Holidays.

8—Concert by the Lydiard St. Methodist Church Choir, Part 1—Part song, Hymn to Music (Dudley Buck); vocal, Storm King (Black), George Lemke; sextet and chorus from Lu Pryor, E. Philpott, E. Hocking, G. cia de Lammormoor (Donizetti), F. Roberts, E. Williams, J. Jenkins.

vocal, Lis there, my Love (MacCunn), Gladie, Heaton; vocal, The Spirit Flies (Campbell-Tipton), Edward Hocking; male chorus, Mulligan's Musketeers (Atkinson); vocal, Pleasure Mas Yeux (Le Old), Edith Warburton; part song, Bells of St. Michael's Tower (Shaw), Part song, The Old Boat (Newby).

vocal, The Wind's in the South (Prindle Scott), Florence Fryer; duet and chorus, Miserere, I Trovatore (Verdi), soloists—Ruby Coad & Edward Hocking; vocal, Forgetfulness (Hill), George Lemke; male chorus, Part song, My Old (Newby).

vocal, At Home (Stilton), soloist—Edward Hocking; vocal, selected, Dora Soudon; ladies' chorus, Night Hymn at Sea (Thompson), duet, The Two Cascaras (Ofenbach), E. Williams & E. Taylor; part song, You Stole My Love (Macfarren), Noble Duke of York (Byng Johnson).

"Argus" and "Herald" news and weather report will be given from the studio at the conclusion of transmission from Ballarat.

TUESDAY, MARCH 30.

Middle 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, Musical Director, Miss Bessie Gunnson; selection Nana (Victor Herbert).

1.10—Agnes Fortune, Pianoforte solo; Elapsidique Mignonne (Kieling).

1.15—Billie Jones, soprano; Peter Pan, June Night.

1.22—The Studio Orchestra; 3rd Movement from Jupiter Symphony (Mozart).

1.40—Billie Jones, soprano; In a Persian Market, I'm Sitting on Top of the World.

1.47—Dorothy Roxburgh, viola solo; Capriccio (Haydn).

1.52—The Studio Orchestra, March: Omas (Schlag).

2—Time signal. Close down.
Afternoon Session, 3 to 5.

3—Time signal.

3.1—The Studio Orchestra, suite: Odello (Coleridge-Taylor).

3.8—Percy Randall, tenor; In an Old Fashioned Town (Spurio), You in a Gondola (Carter).

3.15—The Station Trio: Trio for Violin, Piano and Cello (Hayden).

3.25—Bessie Gunnson, violin solo; Rocooco (Palmgren).

3.30—Arthur Macleod, "Infant Welfare."

3.45—Percy Randall, tenor; Songs My Mother Sang (Gramshaw), The Old Spinet.

3.52—Tasma Thirman, 'cello solo; Proghina (Edmund Sever).

3.57—The Studio Orchestra: Blue Eyed Sally.

4.2—Walter Smith, Cornet solo; Sirenade (Lurwitz).

4.6—Lottie Morehead, Miss Annabel Baecobie, Maril Dillon—Mrs. Graham, One Act Play: "Cerebral and Musical" (Iris Leon Cassell).

Scene: Mrs. Graham's Drawing-room.

4.15—The studio Orchestra: Greenland Suite (Fredrickson).

4.30—"Au Fait" from Buckley & Nuan Ltd., Talk on Fashions.

4.45—"Herald" and "Argus" news; Reuter's and the Australian Press Association cables.

Evening Session, 6 to 7.15.

6—Children's Hour. Stories by "Mary Goodale": Poems: Nursery Chairs, As Good as Gold. For the littlest ones, Alfred Tenney and his pony. For boys and girls, "Serenade" and the Tivoli Orchestra and the first half of the programme transmitted from the Tivoli Theatre, by permission of Musgrave Theatres Ltd.

- 9.10—Dr. Infusa Hills, Doctor of Science, "Popular Science."
 9.25—"Argus" and "Herald" News Services.
 9.30—Hort Howell & his Concert Orchestra, transmitted from The Victory Theatre, St. Kilda.
 11—God Save the King. Weather Report will be given from Studio at the conclusion of transmission from Victory Theatre.

WEDNESDAY, MARCH 31.

- 12—Midday Session, 12 to 2.
 12.5—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, South Australia, and New South Wales; Ocean Forecast; River Reports.

- 1.3—Time signal.
 1.1—The Studio Orchestra, overture: Euryanthe (Weber).
 1.11—Dorothy Roxburgh, viola solo: Romance (Sittl).
 1.15—Veronica Cox, soprano: To be sung on the Water (Schubert), Margaret at the Spinning Wheel (Schubert).
 1.22—The Studio Orchestra, fox trot: Ah-Ha (Ménner).
 1.27—Agnes Ferrone, pianoforte solo: Funeral March (Chopin).
 1.35—Station Trio, Two old English Tunes (Quiller).
 1.40—Veronica Cox, soprano: Christina's Lament (Dvornak), Blackbird's Song (Scott).
 1.47—The Studio Orchestra, Prelude (Chopin).
 1.52—Walter Smith, cornet solo: Zella (Percy Cole).
 1.57—The Studio Orchestra: La Colomba (Gounod).
 2—Close down.
 2.15—Result of Trial Handicap from Geelong Races.
 2.40—Result of Water Handicap, Geelong Races.

- Afternoon Session, 3 to 5.
 3—Time Signal Result of Handicap Pony Race, Geelong Races.
 3.1—The Studio Orchestra: In the Sudan (Selski).
 3.3—E. Mason Wood, baritone: The Banjo Song (Homer), The Sands of Dee (Clay).
 3.15—Tasma Tierant, cello solo: Bounce (Handel).
 3.20—Miss S. V. Parker, in Talks of other Lands. Education in Ceylon.
 3.34—Result of St. Patrick's Day Handicap, Geelong Races.
 3.35—Tasma Tierant, soprano: You're Just a Flower from an old Bouquet; At Dawning.
 3.42—The Studio Orchestra, fox trot: Collogie (Jaffe & Bous).
 3.47—Sister Farrell, of Victorian Baby Health Association, "Mothercraft."
 4.0—Result of Flying Handicap, Geelong Races.
 4.2—Bessie Gannon, Violin solo: Kyriacik (Wieniawski).
 4.7—E. Mason Wood, baritone: Mairi My Girl (Aiken), The Riders (Lohr).
 4.14—The Studio Orchestra: Invitation to the Waltz (Weber).
 4.25—Billie Jones, soprano: Oh Katharina, Mello Cello.
 4.31—Result of Novelty Pony Race, Geelong Races.
 4.42—The Studio Orchestra: Orpheo (Verdi).
 4.45—"Herald" and "Argus" News Services; Reuter's and the Australian Press Association Cables; Stock Exchange Information.
 5—Close down.

- Evening Session, 6 to 7.15.
 6—Children's Hour. Stories by Wallaby Bill; The Court of the Chinese Emperor, Scenes No. 4; The Crowning of the Sun.
 6.15—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
 6.53—Weather synopsis; shipping movements.
 6.57—Stock Exchange Information.

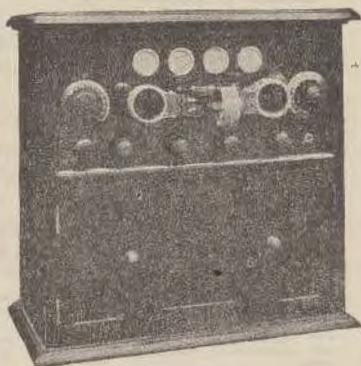
- 7.2—Fish market reports by J. R. Dorrett Ltd.
 7.4—Fruit market reports by the State Fruit Advisory Board.
 7.6—Market reports by the Victorian Producers' Co-operative Co. Ltd.
 Night Session, 7.30 to 11.
 7.30—Mr. J. R. McDowell, Special Officer of General Passenger and Freight Agents Office, Victorian Railways.—"Railways and the Handling of Mails."
 7.40—Mr. A. E. McNickles, Talks on Great Writers: Charles Lamb.
 8—Richmond City Band, march: On the Quarter Deck (Alford), fantasia: Norman (Rimond).
 8.10—Frank Thomas, baritone: When the King Went South (Kroneman), At Dawning (Gulianovic-Kroneman).
 8.17—H. F. Loft, banjo: The Shepherd's Dance (German), Humoresque (Cannoyet), The Darkie's Return (Ellis).
 8.21—Miss Louisa Moorehead, Mrs. Chugwater, William Tainsh, Mr. Chugwater, One Act Play, "Faking up" (Harry Gatten, scenes: Drilling Room of the Chugwater's House).
 8.52—Richmond City Band, selection: Il Travatore (Verdi).
 9.8—Gwen Humphrey, Soprano: Ships that pass in the night (Stephenson), The Early Morning (Poel).
 9.15—Capt. Peters, Books, Wise and Otherwise.
 9.30—Richmond City Band, Hymn: Silent is the Night (Weber), two step: That Ripping Rag.
 9.37—H. J. Duggan, humorist: Happy Though Married, Building a Chicken House.
 9.46—H. F. Loft, banjo: Piccolina Xmas (Cannoyet), White Coon (Parry).
 10.1—Frank Thomas, baritone: Prelude (Pagin).
 10.8—"Argus" and "Herald" News Services. Weather Report.
 1.13—Richmond City Band, selection: Minstrel Melodies (Rimond).
 10.23—Gwen Humphrey, soprano: Will O' the Wisp (Sproul), I Love the Moon (Rubens).
 10.30—Richmond City Band, valse: Echoes of the Danube (Saxton).
 10.35—E. J. Duggan, Humorist: The Man From Snowy River (Banjo), Cohen and Witless.

- 10.42—Richmond City Band, fox trot: Ukelele Lull, novelty: Pop goes the Weasel, gallop: Four Foremen of the Apocalypse, march: Joyce's Fire.
 11—God Save the King.
 THURSDAY, APRIL 1.
 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, S. Australia, and N.S.W.; ocean forecast; river reports.
 1—Time signal.
 1.1—The Studio Orchestra, selection: Pagliacci (Leoncavallo).
 1.15—Frank Thomas, baritone: Bedouin Love Song, Garden of Happiness.
 1.22—Agnes Ferrone, pianoforte solo: Prelude in D Flat Major (Chopin).
 1.28—The Studio Orchestra, fox trot: Bell Ropple's Blues (Walter Neale).
 1.33—Walter Smith, cornet solo: The Lost Child (Sullivan).
 1.40—Frank Thomas, baritone: Lowestoft Boat (Elgar), Thrush of the Passionate Day.
 1.47—Tasma Tierant, cello solo: Kykkavat (Kimmell).
 1.52—The Studio Orchestra, fox trot: Blinky Moon Jay (Gillespie).
 2—Close down.

- Afternoon Session, 3 to 5.40.
 3—Time signal.
 3.1—The Studio Orchestra, overture: Cool Far Tutti (Mozart).
 3.15—Kenneth Impett, baritone, When it's Blackberry Time in Sept. (Easthope Martin), Smilin' Through (Penn).
 3.22—Dorothy Roxburgh, viola solo: Indes Lament (Dvornak-Kroelitz).
 3.25—The Studio Orchestra: Eroica Symphony (1st movement) (Beethoven).
 3.40—Laurel Burnett, entertainer: I do pity myself I do, The Woman Hater.
 3.45—Station Trio: A Dream (Bartlett) Syncope (Kreiser).
 4—Kenneth Impett, baritone: Brian of Glenara (Graham), Morning (Speaks).
 4.7—The Studio Orchestra, selection: I Puritan (Bellini).
 4.15—Laurel Burnett, entertainer: Never as long as I live, The Sun will soon be Shining.
 4.23—Bessie Gannon, violin solo: Mairi (Mlynarski).
 4.29—Walter Smith, cornet solo: Polka L'ideal (Minkus).
 4.36—The Studio Orchestra, selection: La Tosca (Puccini).
 4.45—"Herald" and "Argus" News Services; Reuter's and the Australian Press Association Cables; Stock Exchange Information.
 4.55—Songs from St. Paul's Cathedral.
 5.40—Time signal. Close down.
 Evening Session, 6 to 7.15.
 6—Children's Hour. Stories by Mary Gumleaf, Poems: The Four Friends, Somebody Singing. Stories: For the littlest ones, Little Fairy Godfather. Boys and Girls: Stories, the Best of Truth.
 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—Fish market reports by J. R. Dorrett 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, 7.30 to 11.
 7.30—Madame S. E. Seward, French Talk: Les Vacances.
 7.40—Under the auspices of the Health Association of Australasia: Mr. W. P. Riordan, Oral Hygiene.
 8—Steinfort's Orchestra, fox trot: Semolina (Warren & King), fox trot: Sleepy Time Gal (Egan & Whiting).
 8.18—Steinfort's Orchestra, fox trot: A sunlit Cottage (Gress & Olsen), Hong Kong Dream Girl (Harris).
 8.29—Mr. Hugh Egan: Talk on Daughters.
 8.40—John H. McDonald, elog dancer: Ten Minutes of Scotch Humour and Speciality Clog Dancing.
 8.52—Steinfort's Orchestra, waltz: In Shadowland (Brooks & Ahlert), I want you to want me to want you (Fishery).
 9.8—Norman Bradshaw, tenor: I Wonder Why (Raymond) Three Little Songs (White).
 9.15—Mr. A. Broninowski, Russian Fifteen, Part 2.
 9.50—Laurel Burnett, entertainer: The Old Days and the New; Fell Out.
 9.37—Steinfort's Orchestra, fox trot: Don't Bring Lulu (Henderson), Lazy.
 9.47—Kenneth Impett, baritone: Song of the Clock (Barthold), Where go the Boats (Peel).
 9.54—Steinfort's Orchestra: Sitting on Top of the World (Henderson), fox trot: Sorry (Lewis & A.).
 10.9—John H. McDonald, Ten Minutes of Scotch Humour and Clog Dancing.
 10.19—Steinfort's Orchestra, one step: Collogie (Jaffe & Bous), Silly Lou.
 10.29—Norman Bradshaw, tenor: When in your eyes I gaze (Lisson), On the road to Mandalay (Speaks).
 10.36—Steinfort's Orchestra, waltz: Sweetest Little Rose in Tennessee (de Voe), waltz: Mississippi Ripples (Hanley & Karl).
 10.46—Kenneth Impett, baritone: The Fortune Hunter (Willeby), Give me Youth and a Day (Drommond).
 10.53—Steinfort's Orchestra, Fox Trot, Ukelele Lady (Kabu and Whiting), "Florida."

On Easy Terms

£2/10

On Easy Terms

£2/10

Puts a Radio in Your Home

NO use denying yourself the pleasure of a fine Radio Set when so small a sum will do it for you. The set you buy is fully equipped, ready for use. The plan is a simple one—just pay us £2/10/0, and follow this with weekly instalments.

Come and Let Us Explain

3-Valve Set Complete :: Price £21/10/0

503
George
Street,
Sydney,

Phone:
City 870



503
George
Street,
Sydney,

Phone:
City 870

Sydney



IN USE IN
 GREAT BRITAIN
 IRELAND
 NORWAY
 SWEDEN
 FRANCE
 HOLLAND
 ITALY
 BELGIUM

IN USE IN
 AMERICA
 AUSTRALIA
 NEW ZEALAND
 SOUTH AFRICA
 INDIA
 DENMARK
 SPAIN
 JAPAN



BIG REDUCTIONS
 IN
AMPLION LOUD SPEAKERS

	£	s.	d.
AE.102 Dragonfly	1	15	0
AE.67 Amplion Gramophone Attachment	2	15	0
AE.111 Amplion Junior, New Type	3	10	0
AE.36 Amplion Concert Gramophone Attachment	3	15	0
AE.114 Amplion Junior De Luxe	4	0	0
AE.19 Amplion Dragon	6	10	0
AR.15 Amplion Swan Neck	8	0	0

AT ALL DEALERS

Amalgamated Wireless
Australasia Ltd.

97 Clarence Street,
 Sydney.

167/9 Queen Street,
 Melbourne.

AMPLION

RADIOKES

PRECISION COIL

REGENAFORMERS

WOUND - ON - AIR

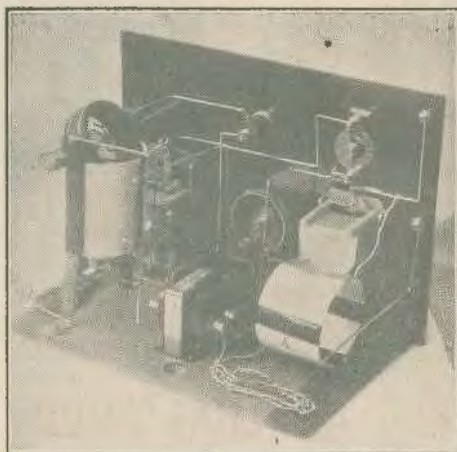
as used in the famous Browning Drake circuit, the Reynolds Reflex ("W.W.", March 5th, 1926), and other efficient receivers, are products of Keith Stokes Pty. Ltd.

The aerial coil is a Solenoid inductance, wound on low loss principles, and provided with a centre tapping.

The state coil, grid coil, and tickler coil are combined in one unit with a tapping brought out for connection to neutralising condenser, generally known as a Regenaformer.

RADIOKES REGENAFORMERS may be used with entire confidence. They combine ruggedness, attractive appearance, and efficiency.

The proof lies in the fact that they are being extensively used wherever good reception is desired.



RADIOKES Coils in the Reynolds Reflex.

Ask Your Dealer to Show You
RADIOKES REGENAFORMERS

Obtainable from Harringtons Ltd., Colville Moore Ltd., W. Harry Wiles, Swain & Co. Ltd., and leading Radio Dealers in Melbourne, Adelaide, and Brisbane.

Manufactured by

KEITH STOKES PTY., LIMITED
 27-29 KING STREET, SYDNEY