

# WIRELESS WEEKLY

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VOL. 8. No. 1.

FRIDAY, APRIL 30, 1926.



Outstanding feature of the Radio & Electrical Exhibition

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Mr. James P. Quam, who is recognised throughout the whole of the United States as one of the leading Engineers in all Radio production, visited Australia last year to consult with the United Distributors Ltd. on the production of Radio Sets that would be entirely satisfactory for all Broadcast reception purposes throughout Australia, and the result of his work, combined with that of the Engineers of the United Distributors, has resulted in their superlative "UDISCO" type Sets.

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**makes a friend of the electrical impulse**

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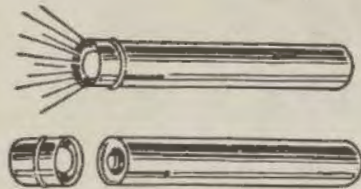


**No. 2015. EVER READY SAFETY TORCH.**

A new idea in pocket electric torches — absolutely fool proof. When light is required remove end cap, reverse it and replace it in the tube. When light is no longer required reverse the operation. No switch to get out of order. Finished best nickel plate.

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Spare Battery.

No. 1547, each 1/8

No. 1, each .. 2/3

No. 1, each .. 2/3

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**EVER-READY ELECTRIC HAND LAMPS WITH DRY BATTERIES.**

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Size 6 x 3½ x 2½ in. Weight 1lb. 7ozs.

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**Ever-Ready Electrical Torches, Leather Covered**

No. 1547, fitted with permanent switch, 3/9 complete.

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If unobtainable locally write for address of nearest source of supply

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## THE CRYSTAL WITH VALVE POWER

NEUTRON CRYSTALS operate a loud speaker. Many owners of crystal sets are now operating loud speakers with NEUTRON CRYSTALS. Next month 2BL promises to increase their volume. This will enable the owner of a crystal set to operate a loud speaker with sufficient volume to fill the house, provided he uses a NEUTRON. THE CRYSTAL IN THE BLACK AND GOLD BOX WITH THE SILVER CATS WHISKER.

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PROMPT SHIPMENTS OF NEUTRONS FROM SYDNEY STOCK.

# TUNGSTALITE CRYSTALS

(MADE IN ENGLAND)

NOT AFFECTED BY HANDLING OR EXPOSURE. NOT A DEAD SPOT IN

## TUNGSTALITE

A NEW CATSWHISKER WITH EVERY CRYSTAL.

ARRIVED THE NEW ROUND TYPE TUNGSTALITE.

The only round crystal ever produced.

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Everywhere



Filament, 3 Volts .06 Amp.  
 Detector, 16 to 45 Volts.  
 Amplifier, 70 Volts to 150 Volts.  
 Fits Standard American Socket.

De Forest Valves  
 were the first  
 made.

Lee De Forest in-  
 vented the valve,  
 so you can rest  
 assured that De  
 Forest Valves are  
 the best.

DON'T BE MIS-  
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DE FOREST is  
 the "QUALITY  
 TUBE," and is  
 correct in design  
 and manufacture.



Filament, 5 Volts  $\frac{1}{2}$  Amp.

Detector, 12 to 22½ Volts.

Amplifier, 110 to 180 Volts.

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THE EXHIBITION.

What promises to be one of the most interesting features of the big Radio-Electrical Exhibition which is to be opened by the Governor-General at the Town Hall, Sydney, on May 3rd, is the Amateur Exhibit, for which entries have been literally pouring in during the last couple of weeks.

Some of the most attractive and well designed receivers we have yet seen in the way of home-made sets have been delivered at the "Wireless Weekly" offices, and the task of testing them out and apportioning the prizes is well under way. Considering the wide variety of entries, it may be well imagined that this job is no light one, but, despite the time and patience required, it is a very real pleasure to note the wonderfully high standard that has been maintained throughout by the competitors. The entries include sets that would grace any drawing-room, and there are crystal receivers, the builders of which have shown an originality and thoroughness little short of wonderful.

There are novel crystal sets, multi-valve sets, sets with glass panels, home-made parts, low power transmitters, short wave receivers, power amplifiers—a veritable feast for those who visit the Amateur Exhibit at the Exhibition.

That commercial concerns realise the practical good resulting from an Exhibition such as this one from May 3rd/8th will be seen by the tremendous variety of radio and electrical apparatus which will be shown. Complete receivers, the latest and most improved parts, domestic electrical helps, loud speakers—in fact, everything dear to the hearts of the many thousands of people interested in radio and its allied science—electricity, will be on show at the big Exhibition.

Both 2FC and 2BL are to broadcast direct from studios specially established in the Exhibition Hall, so that the visitors will be given a splendid opportunity to see just how broadcasting is carried out.

There can be no question but that this Exhibition will be a huge success, and everybody should take advantage of this unique opportunity of seeing everything new in the radio and electrical world.

A. W. WATT.

MORSE CODE COMPETITION.

The winner of the Morse Code Competition from 2WW on April 13th was F. A. Walsh, 76 Ocean St., Woollahra.



# Radio and Electrical Exhibition

To be held at the

SYDNEY TOWN HALL

Week Commencing May 3rd

ALL MODELS OF

## "Burginphone" Wireless Receivers

Australia's Best by Test

May be inspected at Stand No. 15

MANUFACTURED IN AUSTRALIA, FOR AUSTRALIANS, BY AUSTRALIANS

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## Slingsby & Coles Ltd.

482 Pitt St. (opposite Marcus Clark's)

THE RELIABLE  
RADIO HOUSEOn Terms.  
Loud Speakers,  
and Headphones,  
etc.Any Radio Goods  
on TERMS or  
Lay-By.

### LICENSE FACTS AND FIGURES.

The British Postmaster-General states that the total amount of fees for broadcast licenses collected up to the end of February was approximately £2,147,000. From this sum the British Broadcasting Company has received £1,114,000.

At the end of last month the number of licenses held was in the neighbourhood of 1,906,000, showing a substantial increase over the 1,258,000 on February 28th, 1925.

### ANOTHER TRADE UNION BROADCASTING STATION.

While the B.B.C. revenue is now limited to £500,000 a year for the operation of a service comprising one high-power station, nine main and eleven relay stations, Chicago Federation of Labour contemplates the financing of a broadcasting station by assessing the 350,000 trades unionists in the city area at a rate which will bring in no less than £70,000 a year. For this the listener will receive educational matter, consisting of speeches, lectures, reviews of the topics of the day, labour legislation, economics, etc.

Radio Salesman wanted for indenting firm. Inside work, smart at figures. State fully age, experience and salary required. Apply MER-CHANT, C/o "Wireless Weekly."



# A Capacity Controlled Regenerative Receiver for All Wavelengths

By *Wireless Weekly*

Those of our readers who have been using the ordinary type of feed-back regeneration have probably so much confidence in its capabilities that they do not feel disposed to try anything new. Capacity controlled regeneration is not new; as a matter of fact it is very old, but nevertheless its advantages, when coupled as shown in our receiver are well worth while. Most of you who have handled the P.1 or three coil circuit for any length of time must have discovered that you are able to tune in the muffled modulation of a distant station when the detector valve is slightly oscillating, but no matter what adjustments you make, or how carefully you tune, as soon as the valve ceases oscillating you lose your distant station.

The reason for this is that the valve is considerably more sensitive when it is oscillating, but due to the distortion (or interference) which it causes, this phenomenon cannot be taken advantage of.

With the two additional refinements provided in our hook-up, however, (1, the variable condenser in the plate circuit, 2, the potentiometer in the grid circuit) we are able to operate the valve at a much more sensitive detecting point and still prevent it from oscillating. Technically speaking, we say that the valve is operating on the most efficient portion of its characteristic curve for detecting).

## Constructional Details.

The panel, 20 x 8 inches, allows plenty of room, without cramping, for all of the control units, viz., three variable condensers, a three-coil holder (or 1 panel plug and two coupling plugs),

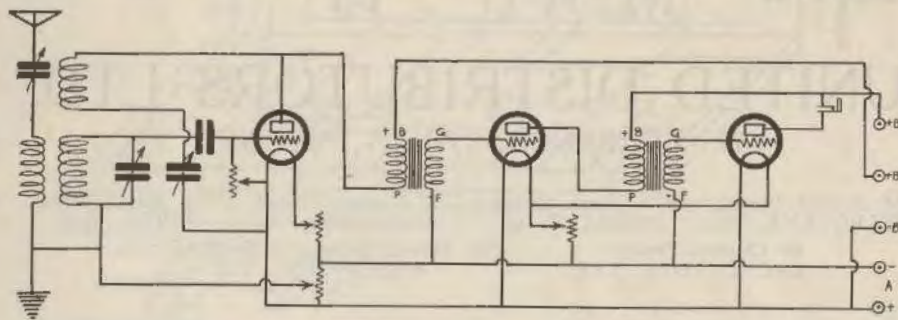
one potentiometer, two rheostats and one filament switch.

Panel connections: No. 1 links the aerial terminal with the fixed plates of the variable condenser. No. 2 connects the top contact of primary coil holder with the moving plates of the same condenser. From the lower connection of primary coil holder No. 3 link goes to the earth terminal. Nos. 4 and 5 connections go to the fixed and moving plates of the second variable condenser. No. 6 links the moving arm contact of potentiometer with the moving plate connection of second condenser and continues to the earth terminal. No. 7 is the negative A bus-bar and is the long connection shown linking one side of the filament switch with the left hand terminal of the potentiometer. Nos. 8 and 9 connections are short links soldered from the negative A bus-bar (No. 7), to the left hand terminals of the first and second rheostats. This completes the wiring of the panel components for the time being.

The next procedure should be to lay out and secure the baseboard components according to our diagram showing the back view, after which the wiring of these components should be made in the following order:

## Baseboard Connections.

No. 10 is the positive A bus-bar and links the left hand terminal of the third valve holder with the right hand terminal of the first valve holder. No. 11 is a small link taken from this to the right hand terminals of the second valve holder. Nos. 12, 13 and 14 are short links which link the P and G terminals of second and third valve holders



Circuit Diagram.

**BURGESS**—“They’re on the Leviathan”—**BATTERIES**

# Invitation

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WE have great pleasure in informing our numerous friends and clients, that although individual demonstrations have been prohibited at the forthcoming Radio Exhibition we have made satisfactory arrangements to demonstrate our 1926 Radio Receivers.

We can arrange within a few moments to demonstrate every model we are showing at the Radio Show.

Enquire for further particulars from our staff at Stand No. 14, Radio Show, Town Hall.

## UNITED DISTRIBUTORS LTD.

72 CLARENCE STREET, SYDNEY

664 Bourke Street, MELBOURNE, VIC.	343 Queen Street, BRISBANE, Q.	27 Chesser Street, ADELAIDE, S.A.	26 Queen Street, PERTH, W.A.
66 Charles Street, LAUNCESTON, TAS.	Cnr. Jervois Quay and Harris Street, WELLINGTON, N.Z.		



to the two audio transformers. (See sketch). These completed the panel and baseboard may now be secured together and connections 15 to 25, which are shown in heavy type, should be added.

No. 15 links the fixed plates of the second variable condenser with one of the grid condenser terminals. The other terminal then goes to the grid terminal and the variable grid leak is connected between this G terminal and the F terminal as shown. No. 16 is a short link taken from the positive A bus-bar (No. 10), to the right hand terminal of the potentiometer. No. 17 links the left hand F terminal of first valve holder with the right terminal of first rheostat. No. 18 is a link taken from the left and right hand F terminals of second and third valve holders respectively, and No. 19 is a link taken from this to the right hand terminal of second rheostat.

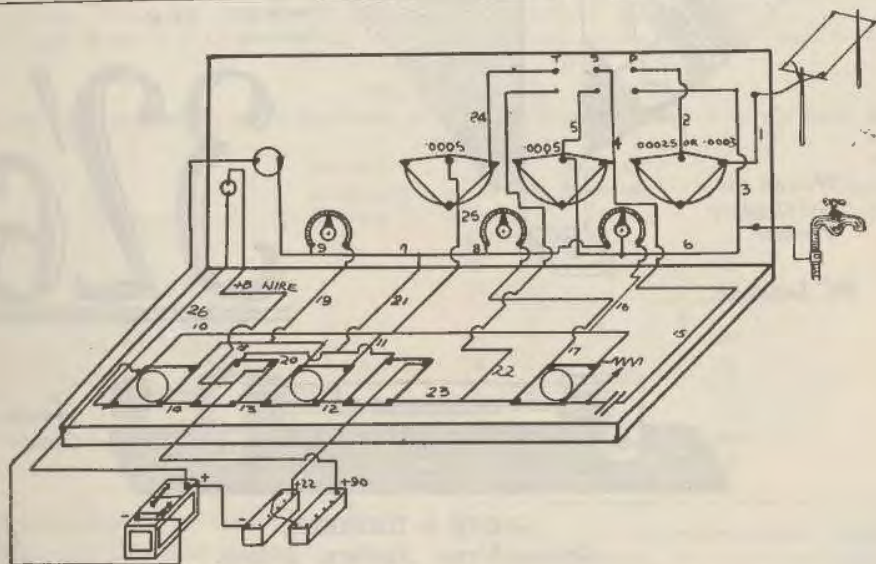
In this way the second rheostat controls both the second and third valves. No. 20 links the two F terminals of the two audio transformers, and No. 21 is a connection taken from this to the negative A bus-bar (shown as No. 7 connection). No. 22 links the P of first valve holder with the lower connection of the tickler coil holder, and No. 23 is a short link which is taken from No. 22 to the P terminal of first transformer. No. 24 links the top connection of tickler coil to the fixed plates of the third condenser, and the final connection, No. 25, links the moving plates of the same condenser to the positive A bus-bar, shown as No. 10.

The battery connections should all be made by connecting flexible leads as shown in drawing. Tuning.

The receiver requires the manipulation of three dials. Readers who have only two variable condensers available, or, for other reasons wish to reduce the number of controls, may use the untuned primary method. The primary coil should then be a 15 turn coil for the lower broadcast wavelengths, and a 100 turn coil for the higher waves of 2FC and 6WF. It should be distinctly understood, however, that the .00025 or .0003 series variable condenser as shown in the diagrams increases the selectivity to a most remarkable degree, and once the best position has been obtained for high and low wavelengths, it no longer can be counted as a control.

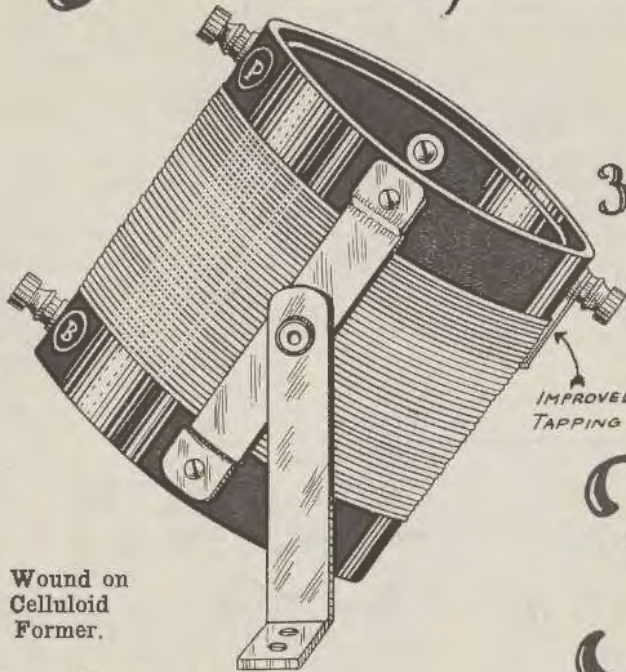
The plate circuit of the detecting valve is divided into separate frequency paths, one being suitable for the passage of high frequency currents or regeneration, and the other being particularly suitable for the audio frequency energy. In the ordinary feed back regenerative circuits the position of the tickler coil controls the degree of regeneration. In this receiver, however, the regeneration is not only controlled by the position of the tickler coil, but it is also controlled to a very fine degree by the variable plate condenser.

Furthermore, in the average regenerative receiver where radio and audio frequencies traverse the same path, it is invariably necessary to shunt a .001 fixed condenser across the primary windings.



Back Panel Wiring.

The GRODAN  
 Adjusto-Former  
 For Neutrodyne Sets.....



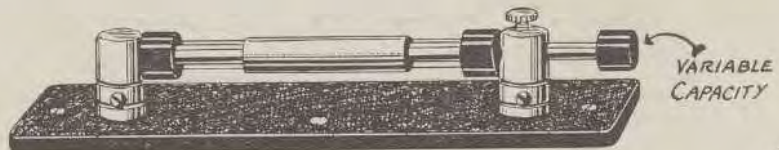
Set of  
 3 Adjusto Formers  
 and  
 2 Neutralising  
 Condensers

IMPROVED  
 TAPPING

Wound on  
 Celluloid  
 Former.

No Leakage.

32'6



VARIABLE  
 CAPACITY

GROSE & DANIELL,  
 Holden Street, Redfern, Sydney.



In this way, owing to the bypass condenser having a much lower impedance for high frequency currents than the primary of the transformer. It forms an easier flowing path, and consequently the high frequency current travels through this condenser rather than through the transformer windings.

In this receiver, however, separate radio and audio frequency paths are provided for and consequently the usual by-pass condenser is not necessary. The two paths are as follows: (1) The high frequency energy travels from the plate through the coil and plate condenser back to the filament. (2) The audio frequency current travels from the plate through the primary of transformer and "B" battery back to the filament. It will be readily seen why this is so, when we consider that the A.F. current which is supplied by the "B" battery cannot possibly pass through the variable condenser, and likewise the high frequency currents will naturally traverse the paths of least resistance to them, which in this case is the plate condenser to the filament. It is this extra refinement which is provided by these two divided circuits which enables maximum efficiency to be obtained with a straight-out detecting circuit. The circuit is not critical as to the type of valve used, but careful adjustment of plate voltage is very essential.

The potentiometer in the grid return circuits adds another minor control, but it is well worth while, so don't be tempted to eliminate it. In searching for stations it should be placed hard over to the negative. When the high pitched note of the carrier wave is heard, a slight advance to-

wards the positive side, together with the correct setting of the plate condenser, will enable the modulation to be successfully received without any signs of distortion.

Remember that the whole secret of successful long distance reception lies in operating the valve at its most sensitive detecting point without oscillating. With this type of receiver the novice is able to obtain maximum efficiency in a few hours after completion, but it is doubtful if the proper handling of an ordinary regenerative receiver is accomplished within 12 months. This is a bold statement, but nevertheless it is true. The following materials are necessary to build this receiver:

- 1 Panel, 20 x 8 x 3/16 inches.
- 1 Baseboard, 20 x 7 x 1 inch.
- 2 .0005 variable condensers.
- 1 .00025 variable condenser.
- 1 Potentiometer.
- 1 3-coil holder or 1 panel plug and 2 coupling plugs.
- 2 Rheostats to suit valves.
- 1 Filament switch.
- 4 Terminals.
- 3 Valve holders.
- 3 Valves.
- 2 Audio transformers.
- 1 Variable grid leak.
- 1 .00025 grid condenser.
- A and B batteries to suit valves.
- Honeycomb or Spiderweb coils.
- 10 lengths of bus-bar.
- 4 Wood screws to secure panel to base.

#### COIL TABLE.

Readers are requested to fill in the third, fifth and seventh columns, then pin table up near receiver.

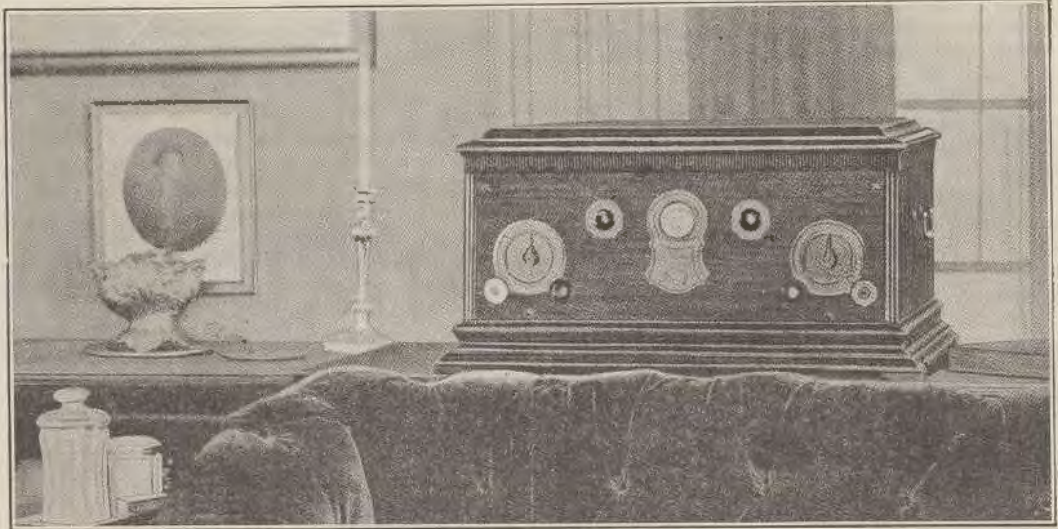
Station	Primary Condenser Setting	Secondary Condenser Setting	Tickler Condenser Setting
2WW	25	35	35
2KY	25	35	35
2BL	35 or 50	50	35
3LO	50	50	35
4QG	50	50	35
3AR	50	75	75
5CL	75	75	75
2FC	150	150	150
6WF	200	200	200

For short wave reception, the usual Lorenz type of coil, attached to De Luxe Coil Holders are particularly efficient.

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

**BURGESS—"Power! Harmony! Endurance!"—BATTERIES**





No. 601 TABLE MODEL 6-TUBE RECEIVER.

# Stromberg - Carlson

## CABINET.

Table Model, Solid Mahogany. Dimensions: Width, 27 5/16; height, 14 1/2; depth, 18 7/16 inches. Top of cabinet hinged, giving access to Loud Speaker connections, battery connections and tubes. Front panel mounts controls and bronze fittings. All apparatus is assembled on a rigid structural steel framework of angle sections and with welded corners. This framework supports the front panel independently of both cabinet and apparatus.

## TYPE OF CIRCUIT.

Three stages tuned and neutralised radio frequency amplification—totally shielded. 1 Detector stage—totally shielded. 2 Stages perfected audio frequency amplification.

## SELECTOR CONTROLS.

Two knobs only, back geared to slow motion pointer, 10 to 1 ratio. Left-hand knob tunes antenna stage. Right-hand knob tunes the remaining stages.

## VOLUME CONTROL.

One knob only. Leaves both audio stages in use, ensuring highest quality reproduction, and regulates the volume by controlling the radio frequency amplification.

## VOLTAGE CONTROL.

One knob only. With volt meter to assure correct filament voltage for most efficient and economical use of tubes.

## ANTENNA SWITCHING KEY.

Adapts antenna coupling to antenna length, governing sensitivity and selectivity according to demands of location.

## LOUD SPEAKER AND HEAD SET CONNECTION.

Permanent Loud Speaker, connects to binding posts inside of receiver cabinet. Temporary Loud Speaker—or Head Set—plugs into "phone" jack on front panel, automatically cutting off permanent Loud Speaker.

## COMPLETE WITH ACCESSORIES.

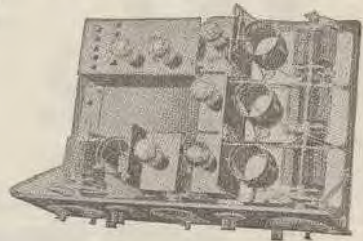
Five Radiotrons UX-201-A tubes; one Radiotron UX-112 tube; one six-volt "Philco" "A" Battery; three forty-five-volt heavy duty Burgess "B" Batteries; two four and one-half-volt Burgess "C" Batteries; one Stromberg-Carlson Loud Speaker.

Prices on request.

Demonstration by appointment.



Operating unit with shields in place.



Operating unit with shields removed.

L. P. R. BEAN & CO., LTD., 229 Castlereagh Street, Sydney

Phones: M 2141 M 2142

See Stand 12 at Radio and Electrical Exhibition, May 3rd to May 8th.



## Queries Met by Every Beginner

A query received from a reader: Would it be possible to use the Super-Heterodyne principle of reception using intermediate frequency transformers tuned to 1100 metres, for reception of the lower wave stations, and then cut out the oscillator valve and use the ordinary method of H.F. amplification for reception of 2FC?

This certainly would be a very ingenious method but it is very doubtful if it would be too successful. The intermediate frequency should always be several times less than that of the frequency which it is desired to receive. For this reason the frequency cannot be reduced too far, otherwise it would come within the audible range of frequencies and good quality reproduction could not possibly be obtained.

If a very broad aperiodic type of intermediate frequency transformer was used there is no reason why reasonable efficiency could not be obtained, but it is doubtful if the lower wave efficiency would come up to the standard of the commercial types of intermediate transformers.

Another reader asks: What is the effect of using very high B battery voltages?

Second only to the mistake of burning filaments too high is that of using too much B battery voltage with the average type of valve. Every standard valve carries with it a sheet which gives proper filament and plate voltage, together with other operating data. No error can be made in following this data, as the makers of the valves are manifestly interested that purchasers should obtain maximum efficiency.

The general tendency is to add high B battery voltages to the audio amplifiers to increase volume. This is alright as long as the plate voltage is not increased higher than the makers of the valve specify as the maximum permitted, and that correct C battery voltage is used.

What is meant by aperiodic tuning?

A little explanation in regard to the theory of the untuned primary will enable readers to appreciate the reason for adding a variable condenser in the primary circuit where maximum selectivity is desired. In all primary circuits, whether they be coupled to the aerial and earth or to the plate circuit of a valve, if the winding or coil consists of a small inductance value and is not of any fundamental wavelength within the range to be received, the primary will pass equally well all wavelengths which the aerial collects. By tuning the secondary circuit, the wavelength to which the

secondary circuit is adjusted will be in a condition to receive a signal of similar wavelength, if it happens to be passing through the primary circuit. For example, if ten signals of different frequencies pass through the primary coil, the secondary will select any of the ten signals, the exact selection depending upon which of the ten wavelengths the secondary circuit is tuned.

In any circuit where untuned primary is used, the selection of the signal to be received and, consequently, the selectivity, depends entirely upon the adjustment of the secondary circuit. By tuning the primary, however, with a suitable coil and variable condenser, instead of the aerial circuit collecting and passing all wavelengths to the secondary circuit it will only pass along those to which it is correctly tuned. Hence increased selectivity must follow.

(Editor's Note: Every query sent to us is answered by mail, but only those of general interest will be published in these columns.)

### BROADCASTING FROM GENEVA.

An important series of line tests have recently been carried out by the B.B.C. from Geneva, and these will result in extensive use for broadcasting of the League of Nations conferences in the near future. The League is at the moment considering the provision of proper wireless transmitting facilities for the new Assembly Hall. The building will accommodate the representatives of sixty-five nations, and one thousand journalists, and every effort will be made to fit the hall with modern equipment, including loud speakers and wireless transmitting apparatus. One can foresee the day when many League conferences and debates will be put forth on the air and important declarations will be broadcast from Geneva.

### RECEPTION DURING MAGNETIC STORMS.

Some interesting results have been obtained at the Meudon Observatory, near Paris, in the reception of wireless signals from Rome and Bordeaux during a time of magnetic disturbance.

On January 26th last, when a magnetic storm was indicated on the recording instruments for about 15 hours, measurements of signal intensity from Rome and Bordeaux showed a considerable increase in strength, signals from Rome being about four times louder than usual.



# Great Radio and Electrical Exhibition

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## TOWN HALL & SYDNEY

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For the Week MONDAY TO SATURDAY, MAY 3-8, 11 a.m. to 10 p.m.

OFFICIAL OPENING BY GOVERNOR-GENERAL,  
3 p.m., Monday, May 3.

Come in a YELLOW CAB on Monday afternoon. The fare will be the same as usual, but it will be given by the YELLOW CAB CO. to SYDNEY HOSPITAL.

Oration by the Rt. Hon. W. M. HUGHES, M.H.B., at 8 p.m.

COME AND SEE  
**THE WONDERFUL COLLECTION OF AMATEURS' COMPETITIVE EXHIBITS.**

See the Latest in Receiving Sets and Parts.

See the Complete Amateur Transmitting Station.

See the Electric Cooking Ranges—Washing Machines—Bath Heaters—Cleaners, all in action, all the most up-to-date labour-saving appliances for the home.

CHILDREN:

Bring your Parents to meet the Radio Uncles on Monday, Tuesday, Thursday and Saturday afternoon.

The Radio Inspector will be in attendance to give information and to issue licenses.

A Complete Receiving Equipment, with Loud Speakers, will be operating throughout the Exhibition.

COME AND SEE  
**HOW THE BROADCASTING STATIONS ARE WORKED.**

Broadcasting from the Exhibition by 2FC on Tuesday and Saturday, 8 p.m. to 9.30, and by 2BL on Wednesday and Thursday, 8 p.m. to 9.30.

**COMPETITIVE PRIZE ESSAYS FOR SCHOOL CHILDREN:**  
Description of the Exhibition.

REFRESHMENT STALL CONDUCTED BY AND ON BEHALF OF  
ROYAL PRINCE ALFRED HOSPITAL AUXILIARY.

Electrical and Radio Novelties in Shoals.

DON'T MISS THE EXHIBITION. IT WILL COST—  
ADULTS, 1/-. SCHOOL CHILDREN, 6d.

C. C. FAULKNER, Director,  
2 Castlereagh Street, Sydney.



# ON THE AIR

## PROHIBITION—OR NOT.

The outstanding event from the Studio of 2BL on Friday, April 30, will be a ½ hour debate on "Prohibition, its effects and enforcement." The speakers are the Hon. Crawford Vaughan, Ex-Premier of South Australia, who affirms the values and Prohibition and Mr. J. M. Prentice who takes the opposing side. This debate grew out of some recent utterances by Mr. Prentice in connection with a Foreign Affairs talk and it is anticipated that the debate will be keenly contested and of very considerable interest to the great mass of listeners-



*Mr. Roger Jones, baritone, a favourite from 2BL.*

in. No attempt will be made to arrive at any decision in regard to the debate, this being left entirely to the minds of those who have the opportunity of hearing it. On the same evening's programme there will be heard Lewis and Ward in specialty numbers and Mr. Robert Harper, Sydney's brilliant tenor. On Saturday, May 1st, the evening lectures are Bringa, the authority on the Australian Aborigines and Miss Helen Jean Beegling, whose regular appointment has been transferred from Tuesday until Saturday. Mr. Thomas A. Thompson will be heard in elocutionary numbers; Deal and Maynard in Specialty items; Miss Nellie Chadwick, soprano. Mr. Fred R. Gooch will be heard in some of his quaint whimsicalities and the

listeners-in will be interested to note that this humorist is personally responsible for the compositions of almost all of the items which he broadcasts. The Abad Duo will also be heard on the same evening playing steel guitars.

## BROADCAST FROM BEACH.

Sunday, May 2nd, will see Station 2BL providing a Band Concert from the Ocean Beach, Manly, at 3.30 p.m. The Manly Municipal Band is conducted by Mr. J. H. Pheloung and is a combination of very capable instrumentalists. The 11 a.m. service is the Presbyterian Service from the Chalmers Street Church and at 7.15 p.m. the Enmore Church of Christ is also being broadcast. In the later programme from the Studio, two very distinguished artists in the persons of Madame Vera Tasma and Mr. Alfred Cunningham will be heard.

## PAVLOVA SEASON.

On Friday, 30th, the new programme at Her Majesty's Theatre in connection with the Pavlova Season will be transmitted, featuring the instrumental music by the augmented orchestra conducted by Lucien Wurmser. During the intervals the well-known Italian singers will appear at the studio in solos and duets. Signor Alberto Marini and Signor Ubaldo Russo.



*Harrison White, banjo soloist from 2FC.*

**BURGESS—"Ask any Radio Engineer"—BATTERIES**

# WIRELESS WONDER

## Colmovox Five

Guaranteed to pick up Adelaide, Melbourne and Brisbane Broadcast on Indoor Aerial

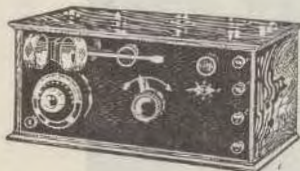
Demonstrations Given Day or Night

### £25-0-0

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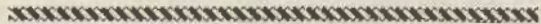
£ s. d.		£ s. d.		£ s. d.	
One Valve Set complete with all panel material, cabinet, wiring wire, wiring diagram, solder, etc. . . . .		Two Valve Set complete as illustrated, with wiring diagram, etc. . . . .		Three Valve Set complete with all panel material, cabinet, wiring wire, wiring diagram, solder, etc. . . . .	
2 10 0		4 10 0		6 5 0	
<b>Accessories required:—</b>					
1 Valve . . . . .	0 13 6	2 Valves . . . . .	1 7 0	Accessories required:—	
5 Radioakes Coils, Mtd. . . . .	1 3 0	5 Radioakes Coils, Mtd. . . . .	1 3 0	3 Valves . . . . .	2 0 6
2 1.5 Dry Cells . . . . .	0 6 0	2 1.5 Dry Cells . . . . .	0 8 0	5 Radioakes Coils, Mtd. . . . .	1 3 0
1 High Tension Battery . . . . .	0 9 6	1 High Tension Battery . . . . .	0 13 0	3 1.5 Dry Cells . . . . .	0 9 6
1 pr. Head Phones . . . . .	15 0	1 pr. Phones . . . . .	0 15 0	1 High Tension Battery . . . . .	0 13 0
100 ft. Aerial Wire . . . . .	0 2 6	100 ft. Aerial Wire . . . . .	0 2 6	6 100 ft. Aerial Wire . . . . .	0 2 6
15 ft. Lead-in Wire . . . . .	0 1 3	15 ft. Lead-in Wire . . . . .	0 1 3	15 ft. Lead-in Wire . . . . .	0 1 3
				Amplion Junior Speaker . . . . .	3 10 0
	£3 10 3		£4 12 9		£8 4 3



Ready to wire sets are now built using the Armstrong Three Coil Regenerative Circuit instead of the two coil as illustrated. Ready to wire sets supplied with or without accessories.



YOU HAVE NO DIFFICULTY in picking up Melbourne, Adelaide, and Brisbane Broadcast Stations with our READY TO WIRE Receivers. Results guaranteed.



Open Friday Night.

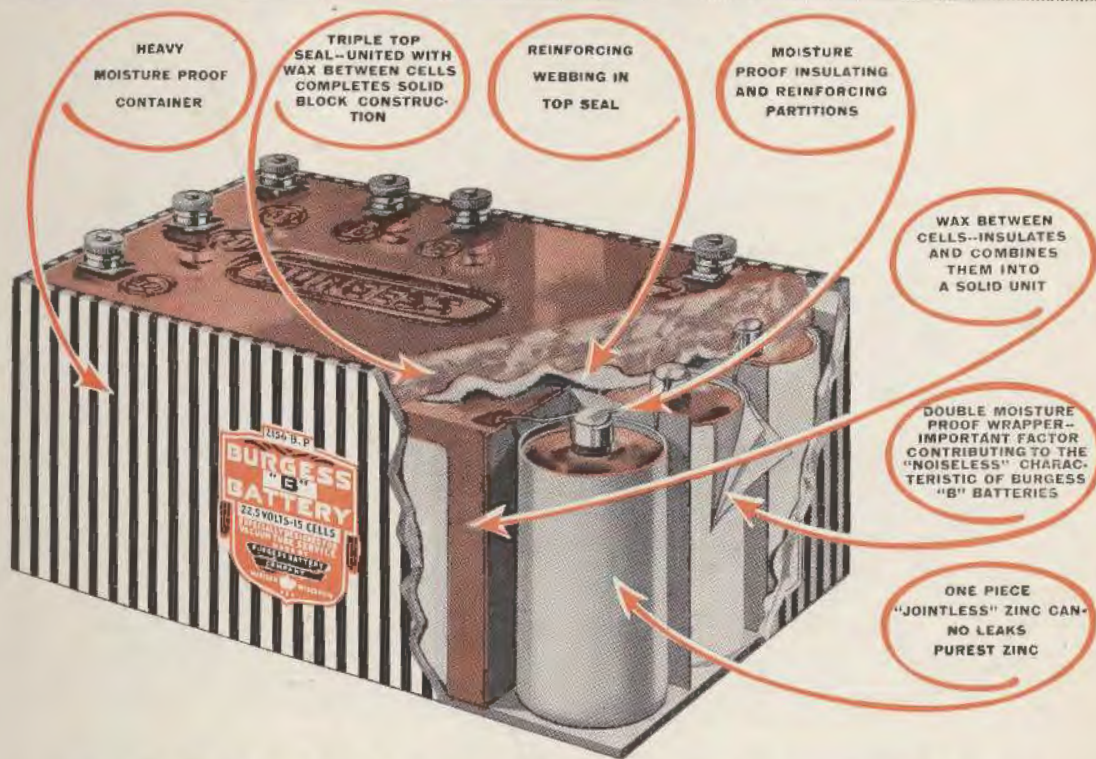
## COLVILLE-MOORE Wireless Supplies Limited

10 Rowe Street (Next Hotel Australia), Sydney



# BURGESS

*"The Dry Battery  
:: Supreme ::"*



## BURGESS "B" BATTERIES

*"Ask Any Radio Engineer."*

CONCERNING

## BURGESS BATTERIES

The unique position of esteem and confidence occupied by Burgess Radio Batteries is a natural development of the conservative policy which has characterized the manufacture, advertising, and sale of Burgess products.

Of interest, perhaps, to the thinking battery buyer is the fact that no Burgess product is advertised or sold until its merit has been proven, not only by our own rigid tests, but also those of the foremost radio engineers, manufacturers, and experimenters in the country.

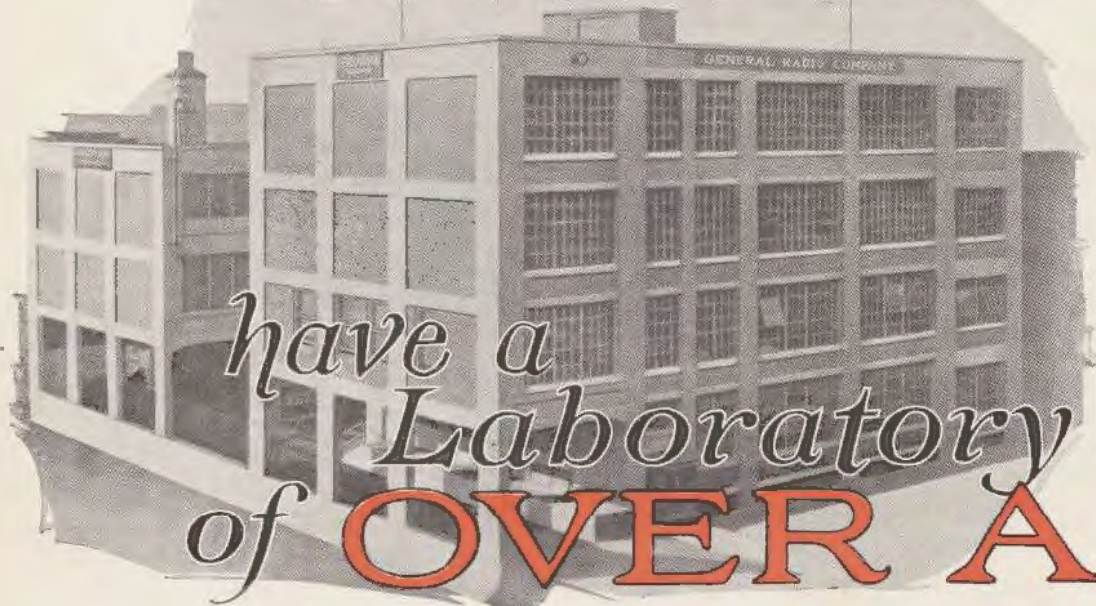
Through friendly criticism and suggestions, together with extensive research and engineering by the G. F. Burgess Laboratories, the efficiency of Burgess Batteries has increased to a degree which we believe is not equalled elsewhere.

FROM ALL DEALERS IN TOWN OR COUNTRY.

BURGESS BATTERY COMPANY, 280 CASTLEREAGH STREET, SYDNEY; 26 LEIGH STREET, ADELAIDE; 25/27 QUEEN'S BRIDGE STREET, MELBOURNE.



# GENERAL INSTRU



*have a*  
*Laboratory*  
*of* **OVER A**

**T**HE science of radio has reached its present day development only by careful study of fundamental principles.

Much of this study has been conducted with scientific apparatus made by the General Radio Company and used in the laboratories of such prominent institutions as the General Electric Company, Westinghouse, Bell Telephone System, and Bureau of Standards.

No one company in the history of radio has contributed more in laboratory equipment than the General Radio Company. To-day General Radio precision instruments are standard equipment in nearly all the commercial and technical school laboratories throughout the world.



*Behind the Panels*



# RADIO MENTS



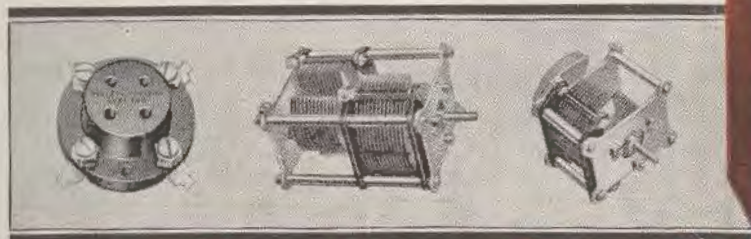
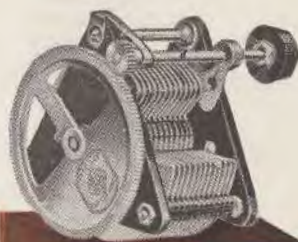
## Background DECADE

**T**HE same outstanding craftsmanship and materials are embodied in General Radio parts for use in the construction of broadcast receivers.

Through the merits of design, performance, and price General Radio instruments for the scientist or set-builder are universally recognised as the Standards of Excellence. Every instrument made by the General Radio Company is thoroughly guaranteed.

**GENERAL RADIO CO., Cambridge 39, Mass., U.S.A.**

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*of Better Built Sets*

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"With the  
Famous  
Diamond Grid  
Plates."

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## Fit companions-



**B**EAUTIFUL as well as highly efficient, a fit companion for the finest radio set, that is the new Philco type 83.X—the world's finest rechargeable storage "B" battery.

Requires recharging only every two or three months, refilling with water only once or twice a season. The built-in Charge Indicator tells how far the Battery is charged or discharged. Far more economical than Dry Cells.

Price with De Luxe Mahogany finished case:—

248 DXO, 48 volt, 3,000 Ma. Hours . . . . .	26 4 0
83 X, Replaces 90 volt Dry Battery, 3,000 Ma. Hours . . . . .	£8 15 0
248 DHO, 48 volt, 6,000 Ma. Hours . . . . .	£7 17 6
86 H, Replaces 90 volt Dry Cell Battery, 6,000 Ma. Hours . . . . .	£10 10 0



**You never  
need guess!**



Quickly—Cleanly and Accurately the Charge Indicator shows the state of the Battery.

### PHILCO DIAMOND GRID BATTERIES

SEVEN POINTS OF  
EXCELLENCE.

1. QUALITY.
2. ECONOMY.
3. SAFETY.
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6. RUGGEDNESS.
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Type UD-86 "A" Batteries. Spill proof Glass Cases. Built-in Charge Indicator.

Made in all Sizes and Types. Prices Range from £2/15/-.



"WHO SAYS PHILCO?" ——— "WE ALL DO!"





# FAMED THE WORLD OVER

FOR QUALITY, TONE AND DEPENDABILITY.

## IGRANIC.

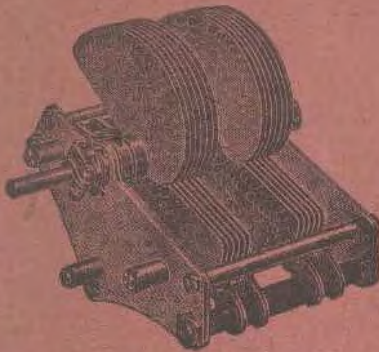
We have recently landed a complete range of additions to the famous Igranite components, and the Dual Variable Condenser is a typical specimen.

The most interesting, however, are the Igranite Supersonic Heterodyne Outfits, which have created a tremendous impression. The first shipment was instantly sold, and orders for the next, shortly to arrive, will be executed in rotation.

## BROWN.

There are now EIGHT models from which to choose, and one of the new types, the Cabinet, is illustrated. Prices range from two pounds to twenty guineas, and there is a model to suit every pocket.

At the back of this name stands an organisation rich in the experience resulting from many years devoted to the production of Headphones and Loud Speakers. They are unexcelled for tonal purity and volume.

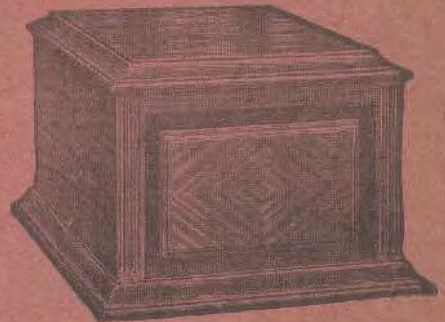


The IGRANIC Low Loss Dual Variable Condenser. Similar in design to the standard Igranite Variable Condenser, it comprises two surfaces which are accurately machined. Indispensable for tuning two oscillatory circuits simultaneously. Complete with a pair of Bakelite Knobs and Dial.

## OLDHAM.

We have been appointed sole agents for the Oldham (Special Activation Process) Battery, and you should investigate its unique merits before investing in an accumulator.

Due to the patented method of construction, the plates are rendered active right through, and not merely on the surface as in most batteries. The charge is obviously held much longer, with consequent large saving in charging costs.



The BROWN Cabinet Loud Speaker. A beautifully proportioned Cabinet type which will readily harmonize with any furniture. Unsurpassed in tone in its experience.

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# NO MORE DISTORTED MUSIC

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EVEN THE POOREST RECEIVER WITH ITS HARSH REPRODUCTION  
CAN BE CONVERTED INTO A MELLOW TONED MUSICAL INSTRUMENT WITH THE NEW

# MACLURCAN

TONE PURIFIER

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*(Patent App. 26131)*

Shortly to be Ready for Sale

Selling at 18/6 with a Money Back Guarantee

FITTING THE DEVICE IS SIMPLICITY ITSELF—  
YOU MERELY DRILL ONE HOLE

Particulars From

CHARLES D. MACLURCAN

PRATTEN BUILDINGS

JAMIESON STREET

— SYDNEY —





"Mary Gumleaf," the Children's Story-teller at 3LO, Melbourne.

#### BROADCAST FROM JENOLAN.

On Saturday, 1st May, a description of the finals of the G.P.S. Regatta will be described in detail direct from the course by Mr. Roger Fitzhardinge, the race in progress and the winners will be announced from the special position secured at the course. The evening will commence the unique transmission from the Jenolan Caves, the first of its kind to be broadcast. A Fageol car containing the official 2FC party of twenty members will leave Martin Place in the morning, and at 6 o'clock from the Caves Mr. Wyburd, the Head Guide, who has been associated with the Caves for forty years, will give a talk on "Natural History," during the Children's Session. Then from 8 o'clock to 11 o'clock, a continuous programme will be given from Jenolan. 2FC dance band will play in the Caves House, and artists appearing there — Miss Gwladys Fimister, soprano, and Mr. Wally Baynes, comedian will entertain the guests and listeners. During the intervals in this programme the transmission will be given from the Caves. Wiring has been run right through the Lucas Cave, and the actual description by the Chief Guide will be broadcast, remarks by the crowd will be heard, and in the Cathedral Cave the Metropolitan Quartette, Sydney. Miss Jean Grant, Soprano; A. G. Ellis, baritone; A. L. Champion, tenor; and Mary Bourke, contralto, will, to an organ accompaniment, sing traditional songs, as well as one specially written, about Jenolan—composed by Rex Shaw. The English entertainers, Raine and Powell, will

also sing from another portion of the Lucas Cave, and in this way the transmission between the Caves House and the Caves will be carried on during the evening. There will be continuous dance music at the Caves House by the 2FC Dance Band.

#### SUNDAY FEATURES.

Sunday morning transmission will be given up to a description of "The Temple of Baal," and appropriate music given from there by the combined artists. Then, on the way back, points of interest such as: "Inspiration Point," "The Half Way House," etc., will be dealt with separately by the announcer describing the beauties of these spots. This will take place direct from the car containing the party returning to Sydney. The afternoon programme will be taken from the Pitt Street Congregational Church, where an Organ Recital by Miss Lilian Frost will be given. The evening Service will be taken from St. Marks, Darling Point, and the Studio Orchestra will play. Mr. Oliver King and other artists will appear at the Studio.

#### G.P.S. REGATTA.

2FC will deal fully with the finals of the Great Public Schools Regatta on Saturday, 1st May. The description of the race will be broadcast direct from the course as 2FC are obtaining a position right at the winning post. The description of the race has been entrusted to Mr. Roger Fitzhardinge than whom there is probably no greater authority. Mr.



Frederick Newton, conductor Sydney Madrigal Society, and director of music, St. Andrew's Cathedral, whose recitals from 2FC are enjoyed by listeners-in.

# Equip Your Radio Set

— WITH —



## Mar-Co Vernier Dials

**S**TATIONS you have never been able to separate and bring in clearly without interference, tune in perfectly under the micrometer control of the Mar-Co Vernier Dial.

*Once turn this dial—and you'll know the reasons  
for its sensational popularity*

Seldom, if ever, has any single radio instrument been accorded the immediate and widespread approval that has come to the Mar-Co Dial.

MAR-CO dials are unlike any previous tuning control. Your slightest touch on the knob brings searching response. By splitting each degree into hair's breadth divisions, they develop full value out of the faint impulses that reach your set.

The handy side-slots in the handsome Bakelite give space to pencil in the station settings—right on the dial itself.

So put them on your set now. A few minutes are all you need. And to put it off is to miss the best your set can do.

Ask your dealer to show you this big improvement in tuning controls. Feel, for yourself, its responsiveness, its supreme accuracy. Notice the entire absence of backlash.

Try it on your set—you'll quickly decide no other dial will do.

**Price 16/6 Each**

OBTAINABLE FROM LEADING RADIO DEALERS OR

# Harringtons LTD

Wholesalers and Retailers  
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Sydney . . . . 386 George Street  
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Adelaide . . . . 10 Rundle Street  
Wellington, N.Z. . . 42 Willis St.  
Auckland, N.Z. . . 140 Queen St.





*Madame Emily Marks, principal soprano from 2FC.*

Roger Fitzhardinge has been closely connected with the G.P.S. Regatta for many years, and stroked the winning New South Wales crew to victory on Henley, England, in 1911 against Leander, the first Australian crew to win on this historical course.

#### A FIRST CLASS BAND.

A first class cabaret must necessarily possess a first class band, and those of 3LO, Melbourne's listeners who love good dance music should be delighted at the news that it has been arranged to broadcast the opening programme of Leo O'Donnell and his orchestra at the Embassy Cabaret, which has been rejuvenated by the energetic Miss Jennie Brennan who has brought all the latest melodies from America and England.

#### COMMUNITY SINGING.

Of the new "crazes" and novelties which take a hold of the public fancy from time to time, few have endured so consistently as community singing, the popularity of this form of self entertainment having extended to broadcasting. The Community Singers and Concert Goers' Association which met with great success at the Assembly Hall last year has re-opened its operations under the conductorship of Mr. Alexander Brown, and 3LO, Melbourne, will broadcast its concerts again this year. The conductor imparts to his casual and amateur subjects all the fineness of tone and efficiency of a well organised choir, and the effect over the radio is decidedly pleasant.

#### TRAVELOGUE TALKS.

For the great unfortunate majority which has little opportunity to travel, the periodical travelogue talks by Mr. C. H. Nuttall are an influence of compensation and an opportunity of gaining some interesting information regarding other countries. As a cartoonist, Mr. Nuttall possesses observation and a sense of news interest which enables him to talk of the countries he has seen in a manner which few can equal, and in his travels he has always managed to get off the beaten track. With him there is no conventional visiting of town halls, art galleries and museums, so beloved of the average Cooks Tourist, but he gets right among the people and sees life as it really is.

#### ABOUT DOGS.

How many listeners-in possess dogs? Any-how many of those dogs are neither use or ornament. Everybody from time to time has endeavoured to teach Fido or Spot some little trick that would compensate for the amount of meat he consumes. It is probable that 3LO, Melbourne, will arrange for Mr. Gautier, the trainer of the Canine Bricklayers which are coming to the Melbourne Tivoli, to broadcast from the theatre the system to be used in training dogs. In spite of the opinions of such organisations as the Jack London Society the members of which undertake to leave any theatre where any performing animal is appearing, there is no cruelty in Mr. Gautier's methods, and no listener-in need fear that his favourite pet needs to be whipped into submission in order to sit up and beg.

#### ARTHUR STIGANT.

Few comedians have experienced such lasting popularity in Australia as Arthur Stigant, who now that "Lilae Time" is almost over has been secured by 3LO Melbourne for several talks and items. Originally he came to Australia as a dame for pantomime, and for six years he donned the flannel skirts, red nose and awry wig that distinguishes most dames. Only an artist of his originality could keep the public interest for six years in succession, for the dame is always one of the novelties of the show. In musical comedy he was equally successful, and he featured in most of the shows which made Gladys Moneriff famous. Mr. Stigant's greatest asset is his ability to become exactly the character he is meant to portray. With other comedians the audience is nearly always able to say, "Ah, here comes So-and-so," as soon as they make an appearance, but Mr. Stigant is so adept in changes of make-up and characteristic mannerisms that he often remains undiscovered for several minutes. He will be heard several times in 3LO's programmes next week.



## Better Radio at Lower Cost

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# Substantial Reduction in Prices of PHILIPS RADIO VALVES

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NOW OBTAINABLE EVERYWHERE AT FOLLOWING PRICES

D.406, The New Wonder Valve . . . . .	13/6
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A.306 and A.310 The Improved 199 Type . . . . .	13/6
D.1 and D.4, The World's Best Detector . . . . .	7/0

All the above are obtainable in English or Standard American Cap.  
The A.306 and A.310 are also obtainable in 199 Cap.



## The Programmes

### DIVERS OPINIONS FROM FAR AND WIDE.

Are the programmes satisfactory? "Yes," says "Appreciative"—"I think that both 2FC and 2BL are to be congratulated on their programmes. I entirely disagree with the sentiments expressed by your correspondent 'Programme,' in a recent issue of your paper. This gentleman forgets that the world of listeners have diversified tastes and that some are more educated than others. It seems to me that, in view of this, the broadcasting stations deserve great praise for the way in which it is catering for both classes of listeners-in."

On the other hand: "I very seriously endorse the remarks of 'Programme,' writes Mr. W. W., of Leichhardt. "Only a few of the public understand classical music — let alone enjoy it. We want something bright and with a swing to it. 2BL's racing opinions and foreign talks may interest a few but not the majority."

And again: "It was somewhat refreshing to read in a recent issue of your paper, the spirited protest of your correspondent 'Programme,' regarding the quality of the stuff broadcast under the category of 'entertainment,' and all listeners who have suffered the ordeal of listening to the twaddle sent out by 2BL will applaud the truthful revelations of your correspondent" . . . This, from "yours disgustedly, — 'Airjoy.'" "No one can deny," he says, "that the appalling stagnancy of radio and the enormous drop in wireless renewals is solely due to the worthlessness of the programmes. The sessions are simply a round of such tortures as 'cooking talks,' 'afternoon tea talks,' 'Dickens Readings,' and other time-wasting rubbish. Clock and chimes are broadcast about nine times per day from 2BL, and then dry talks on literature, poetry, the stone age, foreign affairs, and the reading of serial stories. The children's hour is more symbolic of the mamalian quarters of Taronga Park, than of children's recreation."

A Melbourne Daily paper recently conducted a plebiscite for determining the most popular type of wireless programme and all broadcast listeners were invited to vote for the item which appealed to them most. This plebiscite is not yet closed but it is interesting to note that, up to the present, public concerts are proved to be the most universally appreciated item on the programmes. Religious services come next in favour, and following, band music, Orchestral items (popular), instrumental items, and so on, respectively. Athletic, fashion, and household talks, etc., seem to be the least favoured of all the broadcast items, according to general vote.



### THE WIRELESS EXHIBITION.

And so, another Exhibition is upon us. Personally, I have been actively associated with a great number of Exhibitions, but of all of them, the two which made a vivid impression on my memory were the Electrical Exhibition of 1912 in London, and the Wireless Exhibition held in the Town Hall, Sydney, 2½ years ago. It seems only yesterday that we were all "bucking-in" at the Olympia, London, to get ready in time for the opening ceremony; and although since that time, I have had many similar experiences, I always look back on the 1912 Show as being the most wonderful. Most of us are familiar with that great hall at Addison Road, Kensington, but those who have never seen it, will gain some vague idea of its tremendous proportions, when it is remembered, that it was there, that on Saturday nights in those days, football matches were played on a full sized pitch and still there was comfortable room for many thousands of spectators. Electrical Corporations from all over England, put up, one might say, edifices, rather than stands to display their wares, and the General Post Office established a special 'phone exchange called "Exhibition," and every exhibitor was connected. My company was one of the largest cable manufacturers in the world, and every night the Estimating Department was on duty at Head Office dealing promptly with enquiries from Olympia. I have been told that the building in which the War Museum is housed in Sydney, could be put into the London Olympia 11½ times.

The other exhibition to which I have referred was the Wireless Exhibition in Sydney of 1923, and which was the first of its kind in Australia. Then broadcasting had not actually commenced, although Broadcasters (Sydney) Ltd., were "on the air" every night and I think I am correct in saying that 2FC commenced their very earliest tests (made during the small hours of the morning) during the actual period of the show.

The three days before the opening were marked by feverish activity on the part of Sydney's wireless companies, and in rushing to place before the public their very best they hardly had time to pause and consider how the public would support their efforts. There was no need to worry. From the time the doors were opened until the final session, the place was packed; in fact in the evening periods, the crowds round the stalls were eight and nine deep and the Wireless Institute cleared a very handsome profit.

There was great rivalry among the exhibitors for the Blue Ribbon given for the most attractive stand, and this was won by New System Telephones Pty. Ltd., with David Jones and Farmer & Co. filling the places. I was told afterwards that so great was the amount of energy put into the job by the winner's staff that they were all nearly nervous wrecks at the conclusion of the show.

—ADVT.



# It will make your crystal set fool proof

The new Carborundum Fixed Detector

Price **1 1/-** Each

This Carborundum Detector is really fixed, and more—it is as sensitive as the finest crystal you can buy. "NO MORE CATSWHISKERS."

VALVES.—Don't forget when ordering your valves that we carry a most complete stock. Our Valves are most rigidly tested before despatch.

	£	s.	d.		£	s.	d.
Philips B406, "The Wonder Valve," 4 volts, 1/10th amp. . . . .	0	13	6	Straight Line Frequency Condensers, The Pilot, 00035 . . . . .	0	11	6
Philips A110, the best one cell Valve, 1½ volt, .06 amp. . . . .	0	13	6	Vernier Attachments, Friction type . . . . .	0	1	2
Radiotron, UX201A and UV199, new price . . . . .	0	13	6	Variable Resistors, for placing inside your set. 1000 to 100,000 ohms, 100,000 ohms to 5 megs, 2 to 10 megs. (3 Sizes.) Price each . . . . .	0	4	6
Radex, 199, fits Standard 199 Socket, new price . . . . .	0	8	9	Resistor Holders for the above . . . . .	0	1	9
Fotos Dull Emitter, English Base, 4 volts, .06 amps. . . . .	0	8	6	Potentiometers, Ajax, 400 ohms . . . . .	0	3	0
Sockets, Standard English, Base Mounting. . . . .	0	1	3	Headsets, the K. & O. Special, most sturdily built . . . . .	0	15	6
Sockets for 199 Valves, Bakelite 2/8, Metal Shell . . . . .	0	1	6	Rubber Ear Cushions, for Headphone comfort, pair . . . . .	0	2	7
Sockets for Standard American Valves, 2/8 and . . . . .	0	1	11	Arrestors, "Muter" Lightning Arrestors. . . . .	0	2	9
Porcelain Sockets, H. & H., "Pussyfut" . . . . .	0	4	0	Push Pull Transformers, "The Crescent," per pair . . . . .	1	15	0
Inside Mounting 3-Coil Holders, Columbia. . . . .	0	11	6	Loud Speakers, the Dragon Fly . . . . .	1	15	0
				Speaker Cords, 5 feet, 1/9; 20 feet. . . . .	0	5	9
				Molybdenite Crystal, per Box . . . . .	0	1	6

Country Clients—We pay carriage on goods to the value of 10/- and over, except on Batteries and Loud Speakers. Goods can be sent Value Payable Post.

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

"Yours for Lower Prices."

## The ECONOMIC RADIO STORES

28 Royal Arcade

569 Hunter St. West

Between Pitt & George Sts. (Near School of Arts)

SYDNEY

NEWCASTLE

Phone M 3049

Phone, Newcastle 1622



# THE EXHIBITION

## WHAT YOU WILL SEE THERE

If you visit the Radio and Electrical Exhibition at the Town Hall from May 3-8, you will see twenty-seven stands giving display to every known type of electrical commodity from irons and kettles to the latest types of radio apparatus.

Stand No. 1 will immediately engage your attention with its very fine display of all the radio and electrical goods manufactured under the name of Ediswan, and radio enthusiasts should find the wireless sets of particular interest, as they represent the very latest developments in radio.

In the next stand, Bennett & Wood Ltd. will show the well-known C.A.V. products—accumulators, loud speakers, and a number of new accessories, whilst No. 3 is a sight worth seeing with its display of radio receiving sets marketed by Mick Simmons Ltd., from the crystal to the multi-valve, and stand No. 4 (H. C. Parish) shows a complete range of transmitting and receiving valves. Parsons & Whittemore Ltd. are displaying a wonderful connection of sets and parts and a feature of stand No. 6 is the popular New Wonder Valve exhibited by Philips Radio. Harringtons Ltd. will show on No. 7, the "Imperia," and "Popular" Radio Sets in Table, Console and combined Gramophone Radio Models in 3, 4, 5, and 6, valve types, in addition to a new Super-Heterodyne and the famous Gilfillan Neutrodyne. An interesting exhibit by Standard Telephone & Cables Ltd., is a Western Electric 7 valve Supersonic Heterodyne receiver which covers a wavelength band from 300 to 3000 metres without any changing of coils. Be sure and see this. Stand No. 10 (Australian General Electric Company Ltd.), will be designed to appeal to both the house-holder and the radio fan, as it will display all kinds of electrical labour-saving devices, heating and cooking appliances, and radio apparatus, whilst you will find much of interest in the expensive range of Philips' famous lamps, valves, components, electric cooking appliances, and so on, to be displayed by the Lawrence & Hanson Electrical Company Ltd.

General Radio Products need no introduction, but you will see a fine range of these at Stand No. 12 together with Stromberg Carlson receivers, Jewell meters, and the process of tube testing which should be very interesting. Both motor-car owners and radio enthusiasts are being catered for by Godfrey Ltd., and stand No. 13 will display a full range and comprehensive collection of their manufactures.

For a really good collection of some of the best types of apparatus on the market you must see Stand No. 14 upon which United Distributors Ltd., are showing some of the radio lines for which they are sole distributors, including the "Udisco" four, five, six, and eight valve receivers. Burgin Electric Company, who are one of the pioneers of wireless in Australia, are exhibiting their very efficient wireless receivers at Stand 15, including the "Junior," the "Senior," the "Master," and the Radio Phonograph which is a masterpiece both in design and operation.

Anthony Horder's Exhibit constitutes a selection of their wonderful array of wireless equipment including components of every description, receiving sets, and loud speakers, and Stand 18 should prove of especial attraction to those interested in electric cooker and washers for home use as John Danks & Son are exhibiting the latest types of these commodities.



*Mr. J. H. Pettyfer, Chairman of the Exhibition Committee*

**BURGESS—"Assure Clear Reception"—BATTERIES**

## Astounding Results

have been obtained in Australia with the famous

### "Lion Micro" Permanent Detector

Another shipment to hand of this famous Detector. There has been such a phenomenal demand for the Lion Micro that previous shipments were sold within a few weeks after arrival. We have received many letters singing the praises of this wonderful detector which startled the Radio world. The Lion Micro Permanent Mineral contains the Lion King combination, employing the great South American Semi Transparent Rare Permanent mineral crystal (Gillenharn) and the other silver crystal (Tylerrurium), discovered in 1923.

PRICE:

6/6



PRICE:

6/6

Illustration of Lion Micro Detector (actual size).

DUST AND FOOL PROOF

NO CATSWHISKER

NO MORE LOST CONCERTS

NO ADJUSTMENTS

**OUR GUARANTEE** We guarantee every article you buy from us to be satisfactory in every detail. If, for any reason whatever, you are dissatisfied with any article purchased from us, return same, with all transportation charges you have paid; we will then exchange for exactly what you want, or we will refund your money.

## WILES' WONDERFUL WIRELESS and ELECTRICAL STORES

(W. Harry Wiles)

Head Office and Shop Cor. Pitt and Goulburn Streets, SYDNEY.

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

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

Mail Order Department 60 Goulburn Street

## Separate that Station

The MENOMINKE 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 in the condenser 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. }  
.0025 mfd. } 23/6  
.0065 mfd. }



PRICES:

.0005 mfd. }  
.0025 mfd. } 23/6  
.0065 mfd. }

800 dial suitable for the above condensers . . . . . 5/6 each.

OTHER IMPORTANT FEATURES OF THE MENOMINKE S.L.F. CONDENSER.

- (1) Entire elimination of leak tests.
- (2) Concentricity of electrostatic field within dial mechanism.
- (3) A balanced condition of the plate assemblies, making unnecessary any friction device and permitting a smooth valve action of the condenser.
- (4) The full 360 degrees of the dial utilized.
- (5) Dead dial shaft is not connected in either set of plates.
- (6) The seat throughout, giving a uniformity in production.
- (7) Compression, being no larger than the old standard circular job.
- (8) Rigidity construction.
- (9) All assemblies have provision for single or three bolt mounting.
- (10) One price for any capacity, .0005, .0025, .0065, .0085.
- (11) Design which permits mounting air core transformers directly on the condenser.
- (12) Exceptionally low minimum capacity in all three sizes, giving high tuning ratio.

THE ONLY VARIABLE CONDENSER WITH ALL DESIRABLE FEATURES.



**Manufacturing Products Sales Co. (M.P.)**

(H. J. HAPGOOD).

CHALLIS HOUSE, MARTIN PLACE,  
SYDNEY.

Tel.: BW 6753.

Agents for all Styles of Radio Products.

Agents for Clyde Batteries.

Elec. Meter Mfg. Co., "Emmco."

Renrad Condensers, Leaks and Fixed  
Rheos.Airzone Rheos, Pots., Special Coils and  
Loops.Radiokes, Honeycomb, Circloid and Special  
Coils.Neutron Crystals, Prompt Shipments from  
Sydney.In New South Wales for Louis Coen Pty.,  
Ltd., Melbourne.The most complete line of Radio Products in  
Australia.

Write for Special Catalogues.

Write for Indent List.

We Represent 34 Foreign Radio Manufac-  
turers.**VALVES**  
*Reduced!***EDISWAN**Announcing New Prices for these  
famous Valves.

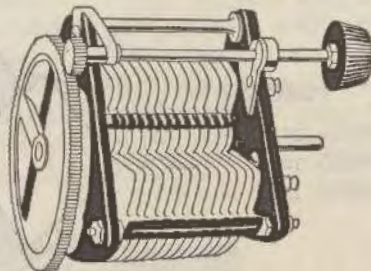
A.R. & R	5/-
A.R.06	13/6
A.R.D.E.	12/6
P.V.5	18/6
P.V.6	18/6
P.V.8	18/6

**BUY SOME  
TO-DAY****LEADING DEALERS  
SELL THEM**

EDISON SWAN ELECTRIC CO. LTD.

58 Clarence Street, SYDNEY.

and at Brisbane, Melbourne and Adelaide

**Balanced!**  
**General Radio  
Condensers**

General Radio Instruments are productions of efficient designing to give perfect performance in Radio Reception—we are the only Sydney store stocking a complete range of General Radio Requirements.

**Plates are soldered**

General Radio Panel Mounting Type 247 Condensers represent the best balance between low conductivity, eddy current and dielectric losses that is consistent with efficient design and popular price. Plates are individually straightened, firmly soldered and in perfect alignment. High-grade, hard rubber end plates eliminates entirely eddy current losses. Contact spring bearings provide good connection—Rotor plates are counter balanced to permit smooth operation and accurate dial settings 4 types. Prices, 26/-, 30/-, 34/-, and 37/6

**DAVID JONES'**



Noyes Bros. (Sydney) Ltd., are well known for their "Igranic Radio Devices," and these will be shown in full at Stand 19, together with Brown's loud speakers and phones, Oldham's batteries, Philips Valves and other high class component parts.

The exhibit of the British General Electric Company Ltd., will give you a full idea of the importance of their principals, The General Electric Company Ltd., of England, which is the largest electrical organisation in the British Empire. Gecophone receiving sets and accessories will be open to inspection in addition to domestic appliances, fires, and motor apparatus. The Australian Westinghouse Electric Company are also showing a complete range of home comforts and some very interesting glassware at Stand 21, including electric cookers, radiators. The exhibit will also include Rectigon battery charging equipment, and instruments of interest to the wireless fans.

Manufacturers Products Sales Company (Stand 22), are specialising in a display of Australian-made radio products including the noted Clyde Batteries and the first-class productions of the Electricity Meter Manufacturing Company, marketed under the name of Emmco.

Wiles Wonderful Wireless and Electrical Stores Stand is No. 23 and some of the features of their fine exhibit are the Menominee Radio Components and the Wondertone Home Construction Radio receiving sets, Grodan products, Ever-Ready batteries and Hecla Electrical accessories. Expert wireless mechanics will be in attendance to assist visitors in their radio and electrical problems. A more comprehensive display of radio sets and component parts would be difficult to find than that which will be exhibited by Colville Moore Wireless Supplies Ltd. This will include a radio set to suit every pocket and a full display of the well known "Colmo" wireless apparatus.

The Electric Supplies and Engineering Stand will be one of the most striking at the Exhibition, with its wonderful electric home accessories which would be the delight of any house-wife. It will include the Save Wringerless Washer and Dryer, the Save Ironer, and the Rapid-Electric Bath Heater.

Stand No. 27, which will probably be one of the most popular, will contain all the entries for the Amateur Exhibition Competition, particulars of which have already been published in "Wireless Weekly." Don't miss this.

## 3LO Jottings

### ENGLISH COMEDIENNES.

It is said that the English shine in comedy, and the Americans in "pep" and the singing of bright and jazzy numbers. Therefore, an artist who is both English and American should be a fine entertainer. Such is the case of Dollie and Billie, the young English comediennes who spoke from their dressing-rooms at the Tivoli Theatre through 3LO Melbourne on 22nd April. These two beautiful girls commenced their stage career in England and as children met with much success. Before entering their "teens" they migrated with their parents to America, where they continued their stage career and musical studies. Arriving back in England before they were 16, the girls were an instant success in leading London theatres, and are now numbered among the world's greatest performers.

### MISS SYLVIA BUTLER.

Miss Sylvia Butler, a young vocalist who will be heard through 3LO Melbourne shortly, has met with considerable success in Australia and New Zealand both as a dramatic soprano and in character roles in various productions, her experience including drama, opera, musical comedy, principal boy in pantomime, and vaudeville. Her early tuition in Melbourne was obtained from the well-known Melbourne and Italian professor, Signor Koate.

### 3LO'S ANZAC MESSAGE

#### BROADCAST LAST MONDAY.

#### TO DIGGERS. ANZAC DAY, '26.

Eleven Anzac Days have been and passed

Since that grey dawn that saw the Diggers rise  
In all their manhood through the foeman's blast  
To plant our flag forever in the skies.

Eleven Anzac Days, and each more dear,

For each one shows their glory still more real;  
In paying now this tribute which you hear,  
We, 3LO, but speak what all must feel.

For not alone the crescent lighted shore

Beheld their steady valour and their worth;  
Their deeds before the stubborn western door  
Still echo and re-echo round the earth.

They paid the price ungrudging; still they pay;

They fade away, good soldiers never die;  
But in Australia's soldier of the day  
The spirit of the Digger lives for aye.

You Diggers who went fearless at the call,

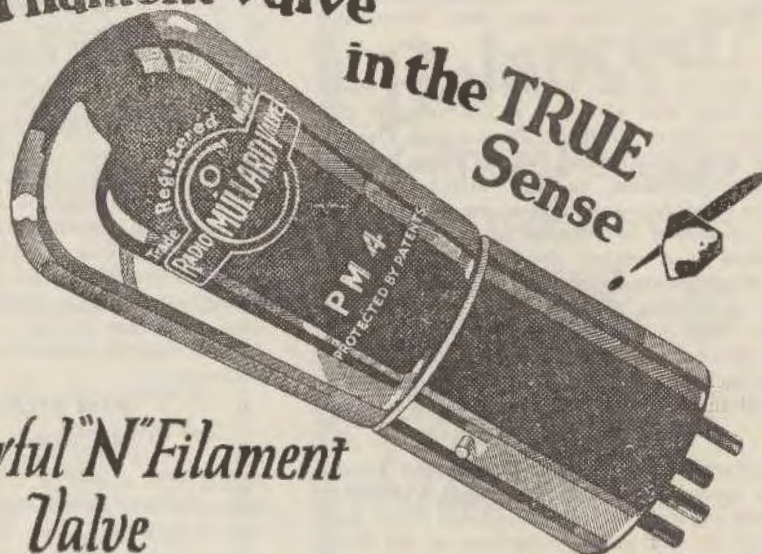
To you Australia owes unending debt:  
We, 3LO, salute you one and all

On this, Australia's Day,—lest we forget.

PHILCO—"Have you got one yet?"—BATTERIES



# A Dull Filament Valve in the TRUE Sense



## The Wonderful "N" Filament Valve

FILAMENT VOLTAGE: 3.8 VOLTS.  
FILAMENT CURRENT: ONE TENTH AMPERE.

USE the wonderful "N" filament valve and get SEVEN TIMES THE LIFE from your 4-volt accumulator charges.

Cut down the cost of upkeep and reduce recharging journeys to ONE-SEVENTH. This unique "N" filament is so economical of heating power that NO SIGN OF GLOW can be discerned.

Ask for the P.M.4 - - 13/6

A power valve for majestic loud speaker volume. The finest loud speaker valve ever produced.

This valve can also be run from 3 dry cells

GET ONE FROM YOUR RADIO DEALER

# Mullard

## THE · MASTER · VALVE

ARKS. 5

MULLARD VALVES CAN BE OBTAINED FROM ALL RADIO AND ELECTRICAL DEALERS.  
Advertisement of the Mullard Wireless Service Co. Ltd., Balham, London, S.W.12, ENGLAND.



# FROM HERE AND THERE

## WIRELESS AGAIN PROVES ITS VALUE.

### SEAMEN SAVED BY S.O.S.

Caught in the midst of a south-west gale just off Cape Perpendicular, engines stalled, and carrying a large crew, the "Walton Hall" was left to the mercy of the mountainous seas and a storm which increased in fury every minute. Fortunately the steamer which was travelling between Fremantle and Sydney, carried a wireless on board and within a few minutes of the despatch of S.O.S. signals from the disabled vessel, two naval vessels and two merchantmen were speeding to the rescue.

The signals were picked up in Jervis Bay by H.M.S. "Delhi" and H.M.A.S. "Anzac" and these two naval ships were promptly detailed to the relief of the "Walton Hall," whilst the coast steamer "Cycle" and the over-sea going "Enton," altered their respective courses and also made for the position indicated in the distress signal. However, upon being radioed that the naval vessels had already arrived on the scene, the merchantmen continued their respective voyages.

With her engines disabled, drifting before the raging wind and lurching dangerously in the heavy sea, the "Walton Hall" was in dire danger of crashing upon a barrier of rocks which were not far distant. The captain and his officers were helpless whilst the engineers and the fire-men toiled like demons down below in an effort to repair the disabled machinery, handicapped by the pitching and tossing and the violent rolling of the ship. Encouraged by the news that two naval vessels were standing by to assist, they continued all through the night and well into the following day, and temporary repairs being effected by eleven a.m., the "Walton Hall" was able to proceed towards Sydney at three knots which was later increased to five.

This is by no means the first time that a vessel and a crew of seamen have been faced with the terrible menace of a storm at sea, and it is likewise not the first time that wireless has come to the rescue with lightning rapidity, and saved the situation. The fate of the steamer "Dorrigo" which, caught by the elements off the coast of Queensland and without a Wireless installation on board, accounted for the loss of twenty-two human lives, is sufficient illustration of the tremendous value and necessity of wireless telegraphy at sea.

## NEW ZEALAND BROADCASTERS.

The following is an official schedule of broadcasts in New Zealand:

1YA—The Radio Broadcasting Company of New Zealand Limited, Auckland Power, 200 watts; wave length, 330 metres. Transmissions on Monday, Tuesday, Thursday, Friday, 8-9, 9.15-10.15 p.m., and Friday, 2.30-4.30 p.m.

1YB—La Gloria Gramophone Company, Auckland. Power, 50 watts; wavelength, 275 metres. Transmits Sunday, 7-10 p.m.

1YC—N. C. Shepherd, Whangarei. Fifteen watts, 250 metres. Transmits Monday, Wednesday, Friday, 8-10 p.m.

1YD—L. R. Keith, Auckland. Fifty watts, 330 metres. Transmits Wednesday, Saturday, 8-10 p.m. Saturday afternoons where possible.

2YF—Palmerston North Radio Club. Five watts, 200 metres. Transmits Monday, Friday, 7.30-9.30 p.m.

2YK—Radio Broadcasting Company, Wellington. Power, 120 watts; wavelength, 295 metres. Transmits Tuesday, Thursday, Friday, Sunday, 8-10 p.m.

2YL—B. C. Spackman, Napier. One hundred watts, 190 metres. Transmits Thursday, Sunday, 8-10 p.m.

2YM—The Gisborne Radio Company, Gisborne. Power, 500 watts; wavelength, 260 metres. Transmits Tuesday, Thursday, Sunday, 8-10 p.m.

3AC—The Radio Broadcasting Company, Christchurch. Ten watts, 240 metres. Tuesday, Wednesday, Saturday, Sunday, 8-10 p.m.; Friday, 6.45-7.15, 8-9.30 p.m.

VLDN—Radio Broadcasting Company, Dunedin. Power input, 750 watts; wavelength, 380 metres. Transmits every evening, 8-10 p.m.

## "ARGUS" PLEBISCITE.

The plebiscite recently conducted by the "Argus" to ascertain which are the most popular items in broadcasting programmes should be of great assistance to the studios. For one thing such figures would silence the ever-present minority which fancies or dislikes any one particular item and thinks that everything ought to be altered to satisfy their particular whim. Voters were asked to give their preferences for band music, children's hour, instrumental items, orchestral, vocal and theatrical items, recitations, talks, religious services, and many other subjects.





Why not have "Wireless Weekly" mailed direct to your home regularly every week?

The subscription rate is 13/- the year post free.

Mail your subscription TO-DAY to The Editor, "Wireless Weekly," 12/16 Regent St., Sydney.



# HOWELL'S SALE & EXCHANGE

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

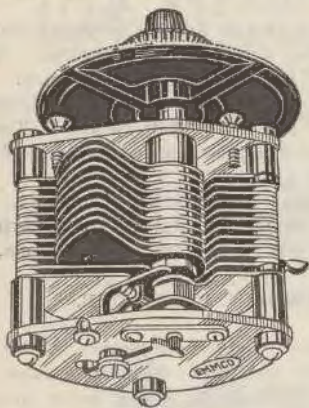
	s.	d.
"Jefferson" 41 Transformers .....	20	0
"Ediswan" Transformers .....	15	0
30 ohm Rheostats .....	2	9
12 Point Inductance Switches .....	2	6
Single Jack .....	1	9
Double Jack .....	2	0
7-22 Aerial Wire, per 100 feet .....	3	0
Standard 201A Sockets .....	1	6
3 Coil Holder .....	7	6
.0005 Straight Line Frequency Low Loss Condensers .....	13	6
.00025 Straight Line Frequency Low Loss condensers .....	11	6

Cash with order. Over 10/-, post free (Batteries excepted)

HAVE YOU TRIED THE HOWELL REINARTZ?  
THERE'S NOTHING BETTER.  
LET US REWIRE YOUR SET.  
WE GUARANTEE RESULTS.

**19 BARLOW STREE, SYDNEY**  
Open till 9.30 Friday Night

Phone MA 1133



## 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

**Emmco**  
RADIO PRODUCTS

SEE THEM AT YOUR DEALERS



## 3LO'S CHILDREN'S PARTY.

2,000 INVITED TO SEE "JACKIE."

Never has the Melbourne Tivoli Theatre housed a more appreciative audience than that which attended the popular vaudeville theatre on Saturday, April 3rd. Nearly two thousand children thronged to the entertainment, tightly grasping their hands the invitations sent out by 3LO, Melbourne who had arranged the treat so that the youthful listeners in could see "Jackie," the sea-lion comedian. With childish eagerness the audience was seated about an hour before the show began and their apparent delight must have been ample reward for the organisers.

However, the programme was not restricted to the performing seal. The Tivoli management having arranged a complete entertainment suitable for children. Bob Albright, the Oklahoma Cowboy comedian was another who had the children in roars of laughter, while Harmston's Performing Cockatoos; Fransky, a dancing comedian, and the Royal Spanish Syncopators were all fully appreciated. For the "grown-ups" who attended in charge of the children, the shrieks of happy laughter must have been the greatest show of all.

During the performance, the children's favourites, Mary Gumleaf and Billy Bunny spoke for about five minutes from the stage. All the children knew them, and for about five minutes there was a stream of deputations to the stage of "nephews" and "nieces," who wished to present gifts to the two popular story tellers.

Speaking into the microphone, Billy Bunny commiserated with the country children who were unable to attend the splendid show, but he was sure the audience present was sympathetic too. Were they? Some rousing cheers assured the country cousins that the city boys and girls wished they were able to be present.

The broadcasting programme originally arranged for Saturday morning by 3LO, Melbourne, was cancelled owing to the request of two sick children who were unable to be present, and were so eager to enjoy some of the fun that the proceedings at the Tivoli were broadcasted specially on their behalf.

## 2FC NEW STATION.

The type-writers at 2FC are kept pretty busy now-a-days, what with the hundreds of cards and souvenir programmes of the new station which are sent to all corners of the Commonwealth. Mr. Anderson, the Broadcasting Manager states that letters from Victoria, New Zealand, and the far distant parts of New South Wales, are rolling in

in scores, all reporting good transmission and improvements in many ways. The only fly in the listeners' ointment comes from Morse interference on the northern side of the Harbour, but "selectivity"—blessed word—is the war cry and harassed dealers and wireless experts are kept busy describing its wonders to Mr. and Mrs. Crystal owner in the northern districts.

## 850 MILES ON A CRYSTAL.

Really we are beginning to wonder if the day of the valve set is doomed. D. Nunn, of Boonah, Queensland, was sceptical about the long distance on crystal reports published from time to time in "Wireless Weekly," so he persuaded a friend in Brisbane to bring his crystal set to Boonah, which is 42 miles air line from the Queensland capital. They tuned in 4QG at good phone strength on the 9th April. After that station closed down, they hooked on two pairs of phones and picked up the whole programme from 3LO until closing down time. The band music came through almost as well as items from 4QG. The crystal set was an old type, the only tuning device being a tapped coil. Approximate air line distance from Boonah to 3LO is 850 miles, so now we ask in all seriousness, has anyone in the Eastern States heard 6WF on a crystal receiver?

# *A Radio Sensation*

*The*

## CARBORUNDUM

### *Fixed Detector*

FOR ALL REFLEX AND CRYSTAL  
SETS.

Brings—  
True, Real Tones,  
Increased Selectivity,  
Greater Volume.

Stocks held by:—  
Colville-Moore, Wireless S. Ltd.  
Economic Radio Stores, Swain & Co.

Wholesale Only:  
ELIZA TINSLEY PTY. LTD.,  
484 Kent Street, Sydney.





## Low Loss!

**W**HY buy expensive condensers and coils and then nullify their efficiency by mounting on an inferior high loss panel?

RADION is the foundation on which to build your set. It is made expressly for radio and far excels any other insulating material in the four essential characteristics of wireless, namely:

- 1.—Low angle phase difference.
- 2.—Low dielectric constant.
- 3.—High resistivity.

4.—Low absorption of moisture.

In addition, Radion is easily worked and is truly beautiful in appearance. In cost, it is more economical than any other material and will prove to be far more efficient in every way.

Always insist upon genuine Radion Panels and Parts (dials, sockets, knobs, insulators, etc.) Inferior material cannot possibly give you the same satisfactory results. The name Radion stamped on every piece is your assurance of complete satisfaction.

### SEND FOR FREE BOOKLET

*"Building Your Own Set"*

Our new booklet, "Building Your Own Set," giving wiring diagrams, front and rear views, lists of parts and directions for building the most popular circuits, will be sent free upon request to



International Radio Co., Ltd.

200 Castlereagh  
Street, Sydney.

91-92 Courtenay Pl.  
Wellington, N. Z.

**The Supreme Insulation**

# RADION

**PANELS ~ DIALS ~ SOCKETS ~ KNOBS**

# 1 1 <sup>3</sup>/<sub>4</sub> ins. = 1 Foot

IT SOUNDS RIDICULOUS, BUT---



Thermo-Ammeter.



Thermo-Galvanometer.

**T**HINK it over—a quarter of an inch in 12 inches represents an error of 2.09 per cent. You would not think of using a rule inaccurate to that extent, so why use cheap instruments even less accurate? The experimenter who uses an unreliable instrument deceives himself, and if he uses none, he is merely guessing.

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

### FILAMENT VOLTMETER.

The Model 301 Weston Voltmeter costs more than a tube, but it is invaluable because it saves many tubes from burning out prematurely. With a Weston Voltmeter you can always duplicate instantly any voltage required—and exact tuning is thereafter a simple matter. For quick tuning and good reception, it is an absolute necessity. Case diameter, 3 1/4 inches.

### ANTENNAE AMMETER

Specially designed to measure antennae current. It eliminates all troubles encountered in hot wire types—has no zero shift, and is thoroughly compensated against changes in temperature. It is the adopted standard in commercial and government work. Flange diameter, 3 1/4 inches.

### THERMO-GALVANOMETER

The Model 425 is a sensitive thermo-milliammeter of low resistance for use in connection with wavemeters. It measures wave length and decrement. Instrument resistance about 4.5 ohms, requires 115 milliamperes for full scale deflection. Flange diameter, 3 1/4 inches.

SOLD BY LEADING RADIO DEALERS

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

SALES REPRESENTATIVES—

## WARBURTON FRANKI LTD.

307-311 KENT STREET, SYDNEY.

380-382 BOURKE STREET, MELBOURNE

# WESTON

"STANDARD" THE WORLD OVER

## ELECTRICAL INSTRUMENTS

THE SUN NEVER SETS ON THE WESTON

An Indicating Instrument for Every Individual Need and Industrial Purpose





**F**OR the man of modest requirements there is no finer Loud Speaker than the new Brown H.3. Embodying all the exclusive Brown features, it is responsible for a volume comparable with many Loud Speakers cost-

ing twice its price. While for purity of tone it is fully up to the recognised Brown standard. The mellowness and richness of music reproduced on the H.3 is a revelation to those who hear it for the first time.

Type 143  
Loud speaker  
12 in. high  
2500 ohms  
**£4/2/6**

Featherweight  
Headphones  
4000 ohms  
**32/6**

SYDNEY  
NEWCASTLE  
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Sole Agents:

**NOYES BROS.**  
(SYDNEY) LTD. (MELBOURNE) PTY. LTD

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MELBOURNE  
ADELAIDE  
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BRITISH **Brown** THROUGHOUT

Engraved and cut to Dealers' Orders while you wait

# DILECTO

BAKELITE

The ORIGINAL Genuine Bakelite Panel Material

LOOK ~~HERE~~  
for the RED STRIPE

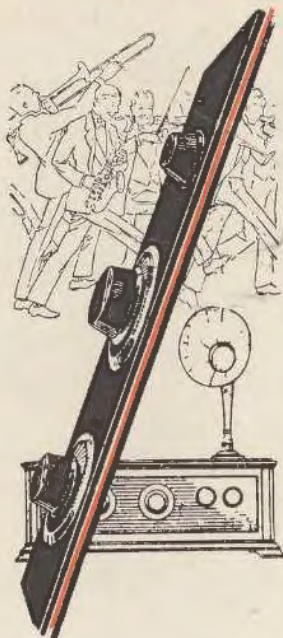
Cut and Engraved to  
any size you require.

Universal Throughout  
the World.

OBTAINABLE FROM  
ALL DEALERS.



(Formerly known as  
Bakelite-Dilecto).



Tested and proved by  
years of use (10 years  
by U.S. Navy and Sig-  
nal Corps).

LOOK FOR IT — !

Easily identified by  
the red line on the  
edge.

High Dielectric Re-  
sistance, cannot warp,  
crack or chip, and will  
never deteriorate or  
change.

Heat - proof (to 220  
deg.) and not affected  
by cold, water, oil,  
benzine fumes, ozone,  
or most chemicals.

SOLE AGENT

**O. H. O'BRIEN** (Late O'Brien  
and Nicholl)

37-39 PITT STREET, SYDNEY

516 Collins Street, Melbourne.

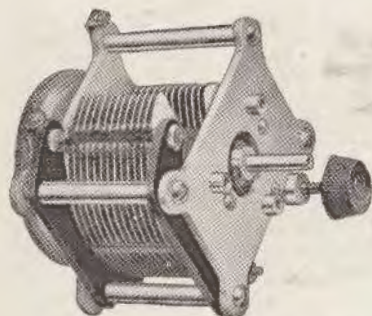
*DILECTO :: The Panel for Better Built Sets*



# GENERAL

## QUALITY

### The Universal Standards of Quality



Grounded Rotor Types. Straight Line Frequency. Tandem. Micro-Vernier. Straight Line Wave length. Mounted and Laboratory.

IN building a radio receiver remember that its performance depends primarily upon two things; an efficient circuit, and the use of good parts.

Wherever you find a popular circuit you will invariably find General Radio parts.

The General Rad. Company has contributed more in scientific apparatus for laboratory use than any other one Company in the history of radio.

The same outstanding craftsmanship and materials are embodied in General Radio parts for use in the construction of broadcast receivers.

Through the merits of design, performance, and price, General Radio instruments for the scientist or set-builder are universally recognised as the Standards of Quality.

Every instrument made by the General Radio Company is thoroughly guaranteed.

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140 BALFOUR ROAD, BELLEVUE HILL

DISTRIBUTOR FOR GENERAL RADIO PARTS

Suburban and Country, N.S.W.



TYPE 354  
AMPLIFYING TRANSFORMER  
PRICE \$6.00



*Behind the Panels*

# RADIO INSTRUMENTS

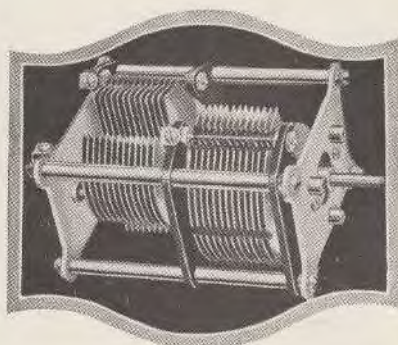
## DEALERS

When you want PROFITS and  
your customers want performance  
sell

## GENERAL RADIO PARTS

THE Prices of General Radio Parts are  
as low as the highest quality of materials,  
workmanship, and efficient manufacturing  
methods permit.

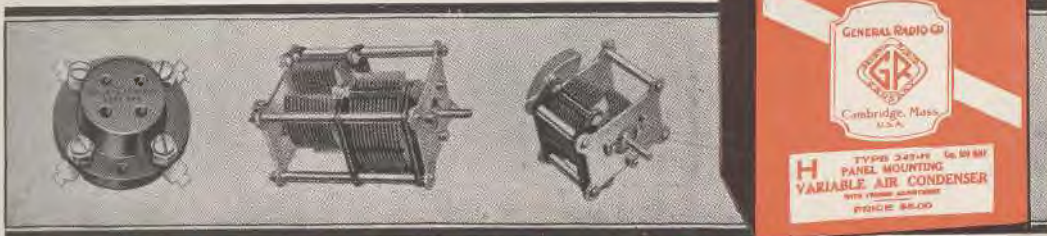
The time is now at hand for successful  
dealers to concentrate on a well rounded  
and well established line of parts. Why  
not pick a winner? Naturally, General  
Radio!



There is a General Radio Variable  
condenser for every Radio use.  
31 different sizes and types are  
now stocked.

## SUBURBAN AND COUNTRY DEALERS WANTED.

WRITE TO-DAY FOR PARTS CATALOG AND  
GENERAL RADIO SALES PROPOSITION.



*of Better Built Sets*



# A.W.A. VALVES Make Your Set Perfect

## A.W.A. 99, A.W.A. 33, A.W.A. 109X

Economical, distortionless and dependable, they give lasting service; while the symbol A.W.A. on each Valve guarantees efficient performance.

The characteristics of these valves are similar in all respects, but their bases differ.

Low consumption dull emitters, they operate with a filament current of only 0.06 of an ampere. Dry cells may be used for filament lighting. The filament is of thoriated tungsten, thus giving low power consumption, and operating temperature and ensuring longer life.

The electrostatic capacities between the electrodes are very small, consequently the valves are exceptionally good radio frequency amplifiers. They likewise function well as audio-frequency amplifiers and detectors. They can be relied upon to give uniform operation



A.W.A. 99

## A.W.A. 33, A.W.A. 99 and A.W.A. 109X Valves



A.W.A. 33



A.W.A. 109X

### CHARACTERISTICS

FILAMENT		ANODE VOLTAGE		VOLTAGE AMP. FACTOR		ANODE IMPEDANCE
Volts	Amps.	Det. & H.F. Amplifier	L.F. Amplifier	"M"		"R" in ohms
3.0	.06	20-40	40-80	6		15,000

### BASES

- A.W.A. 33—Standard English 4 pin
- A.W.A. 99—American UV199
- A.W.A. 109X—Large Standard UX201a

A special feature of the A.W.A. 109X is that it is interchangeable with the 201A

A.W.A. VALVES ARE MATCHED

A.W.A. Valves are manufactured wholly in Australia at the Company's Valve Works.

Efficient Valve production necessitates a comprehensive organisation; radio engineers conversant with the latest Valve practice in England, the Continent and the United States; research engineers concentrating their energies on Valve improvements; trained machine operators and equipment of the most modern type; such an organisation has Amalgamated Wireless built up, constituting an entirely new addition to Australian manufacturing progress.

Every Valve before leaving the factory is subjected to a series of exhaustive tests in respect of each characteristic. Only those measuring up to the high standards set by A.W.A. are passed as O.K.

Every day letters are received testifying to the consistent results that are being achieved by experimenters and listeners with A.W.A. Valves.

OBTAINABLE AT ALL DEALERS

167-9 Queen Street,  
Melbourne

**Amalgamated Wireless**  
*(Australasia) Ltd.*

King and King Building,  
Queen Street, Brisbane

97 Clarence Street, Sydney

# Around the Traders

## THE NEW PHILCO.

The Philco Battery Company announces the new Super Powered Self indicating D.H.O. "B" Battery in pressed glass jars.

This battery will appeal to radio users operating multi-valve sets and where facilities for charging are relatively inaccessible.

It will operate a 5 valve set under ordinary conditions for 3 to 4 months without recharging.



Wholesale Agents: New Systems Telephones Pty. Ltd., Melbourne, Sydney, Adelaide.

## DE FOREST DV-5 VALVE.

The De Forest DV-5 valve fits the standard American socket and uses only one-quarter of an ampere at five volts on the filament. When used as a detecting valve, the DV-5 gives excellent results with only 12 to 18 volts "B" battery. Used as a radio frequency amplifier, the DV-5 with 70 to 100 volts "B" battery, the results are surprising. Using the DV-5 as an audio frequency amplifier with 100 to 180 volts "B" battery, a very great volume of pure music without distortion is pro-



duced. It is surprising to know that a valve can be produced which will fill all these features so perfectly but it must be remembered that the De

Forest valves are manufactured to a very high standard. The Australian agents are: The International Radio Co. Ltd., 200 Castlereagh Street, Sydney.

## AMPLION LOUD SPEAKERS.

Amalgamated Wireless (A'sia) Ltd., 97 Clarence Street, advise having received supplies of the new Amplion Loud Speakers. These types are the AR.38, AR.58 and the AR.88, which has two styles of horn, the Metal type, and the Oak Horn. All these entirely new Speakers incorporate the latest type of adjustable element, mounted in the case. The clarity and volume maintain the high standard



AR 38

established by the Amplion Loud Speaker, and we can thoroughly recommend these, as well as any of their other models, all of which give the best possible reproduction from broadcast receivers. Amplion Loud Speakers are obtainable from all radio dealers.

## THE MAN ON THE LAND.

It is remarkable that, with the unlimited advantages and entertainment that radio offers to the folks out back comparatively few of them are aware of its real usefulness. The Brisbane station, 4QG, intends to supply a special service to farmers, and as an introduction the New Settlers League has undertaken to distribute a little booklet which gives full details of Radio as a means of education and entertainment, to every new Settler. By this means it is hoped that radio will find its way into every-day bush life where, after all is said and done, it is needed most of all.

PHILCO—"Experience Teaches"—BATTERIES





The £12/10/- 15-Jewell Solid Gold Full Hunting Lever R.J.A. Lever Watch, which has been selected as the Grand Prize for Australian Jewell 1926 Radio Contest.

JEWELL ELECTRICAL INSTRUMENT CO.

**L. P. R. BEAN & CO. Ltd.**

Australian Representatives,  
229 CASTLEREAGH ST., SYDNEY  
MELBOURNE: H. G. SMALL &  
CO., 360 P.O. PLACE.

ADELAIDE: NEWTON McLAREN  
LTD., LEIGH ST., ADELAIDE.

BRISBANE: HOME RADIO SERVICE,  
LTD., COURIER BLDG.,  
BRISBANE.

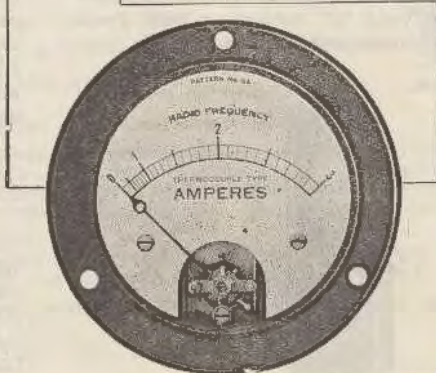
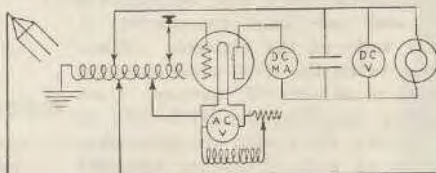
A Jewell Pattern No. 64 Thermo Couple Ammeter will be awarded to the amateur in each of the States of Australia who gets the most miles per watt in this contest for their particular State.

## "More Miles per watt"

Ask your State Branch of the Wireless Institute of Australia or our nearest representative for free combined entry form Log Sheet and Rules for the Australian Jewell 1926, Amateur Contest to be held May 22nd to June 5th during the transpacific tests.

The Jewell Contest is open to all Amateurs licensed by the Postmaster-General's Department.

The Jewell Trophies will be awarded to the Amateur having transmitted complete messages by radio telegraphy or telephony with the most miles per watt over a distance of 500 miles or more.





## EXHIBITION HANDBOOK-CATALOGUE

At the moment of writing, the handbook-catalogue that is being prepared for the Radio and Electrical Exhibition is in the press, but the Editor of "Wireless Weekly" has seen most of the proofs and is able to advise visitors to the exhibition that the hand-book-catalogue will be worth securing as a valuable memento of this the greatest Radio exhibition ever held in Australia. All the stands of the various exhibitors are described with some detail. The articles under this heading give an excellent idea of the remarkably comprehensive collection of radio and electrical appliances that are on view. The book also contains a number of advertisements giving prices and other information without which a visitor to the show is not fully informed. The chief interest of the handbook, however, lies in the articles and illustrations that are published. There is a fine article by Mr. N. S. Gilmour, the well known amateur, dealing with services to Australia of amateurs in general and an article on valves by another enthusiast gives some excellent points which should be of use to all radio "fans." A striking message to the farmers of Australia is given by Sir Joseph Carruthers, perhaps the best informed man in Australia to-day on agricultural problems. Sir Joseph says that nothing he knows of conduces so much to break down the isolation of country life as a good radio set. The State Governor has sent an enthusiastic letter in which he straight out urges every body in the community not to miss the exhibition and the President of the Chamber of Manufacturers, Mr. S. F. Newlands, has also delivered himself of an enthusiastic tribute to the value of radio and electricity. There is a humorous article by Uncle Jack, of 2BL, on "Life in a Broadcasting Studio," and C.J.T. has written an excellent article entitled "A Day's Broadcasting," showing the extraordinary amount of entertainment and information that is given from an A class broadcasting station every day in the year. The book contains also a number of excellent photographs associated with broadcasting, and the compiler has also written a number of interesting, sketchy articles illustrating the value of electricity in the home and of radio.

### GERMAN PLAY BROADCASTING.

In order to prevent broadcasting competing with the Berlin Theatres, German directors have arranged to broadcast plays regularly, and the Grosses Schauspielhaus, has already been equipped with a powerful broadcasting set.

The authorities declare that broadcasting will attract many persons to the theatre.

### NEW SYSTEM TELEPHONES PTY. LIMITED.

The local manager of New System Telephones Pty. Ltd., is in receipt of a cablegram from the Telephone Manufacturing Co. Ltd., of London, indicating that it has successfully floated a further issue of capital of £590,000, bringing its total paid-up capital to £1,000,000. This will provide sufficient funds to redeem the 8 per cent. Income Bonds, which amounted to some £250,000, and will leave the company with a very substantial margin, enabling it comfortably to finance the business of its local subsidiary. For this reason negotiations which had been pending for the sale of the Australian business has been definitely abandoned.

A London wireless inventor, Mr. F. J. Eintracht, claims to have perfected a simple means of obtaining loud speaker results from a crystal set. The invention incorporates the system of electro-magnetic relay. The delicacy of the relay mechanism and the extreme sensitiveness of the controlling "reed" or needle enables it to function, however weak the incoming signals. The invention will be put on the market shortly, and called the Stanmer Amplifier.



## The RAPINET

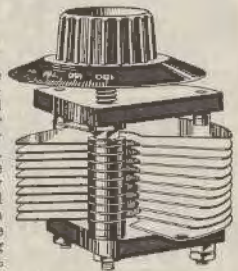
### Batteryless Fault-Finder

THIS indispensable scientific instrument indicates instantaneously, without the aid of a Battery, whether your connections on the circuit are good or defective; whether you have a short or a break. Its uses for Electrical purposes are innumerable. Price, 3/6 each. Unstintingly praised by leading Wireless Authorities.

### The RAPINET CONDENSER

This Masterpiece Square Law Self Vernier Condenser can be used for all capacities by increasing or decreasing the Airgap by the rotating centre spindle. When dial is turned the moving plates not only move in and out the fixed plates, but also form a micro-adjustment by the action of the axle moving up and down the centre spindle.

Insist on having "Rapinet" Specialities. From most dealers everywhere, or direct from us. Post free.



## RAPINET LIMITED

39-47 Grotton Road, Earlsfield, London, SW. 1g



# 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 Tonophone a Valve Wireless Set, a Pathé Home Cinema and one of Heiron & Smith's Lift-on Billiard Tables?



### OFFER NO. 1 SUPERB CABINET TONOPHONE.

Noted for its remarkable reproduction its tonal values 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

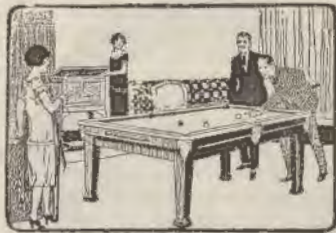
SET on an exclusive unit system. This set is built in a handsome foundation cabinet and has a valve set with headphones and a loud speaker permanently built in. Applicable to all classes of reception. Extra valves can be added to a full strength 4 valve set without reconstruction.

**£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. 6 in. **£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.

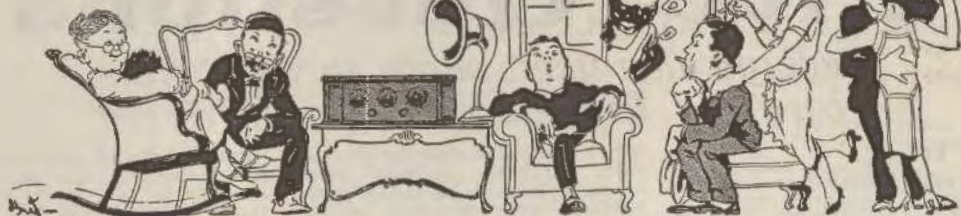
# HOME RECREATIONS LTD.

## 388 GEORGE STREET (Opp. Beard Watson's)





# Broadcasting



## 4QG

### QUEENSLAND RADIO SERVICE.

Wavelength, 385 metres.

FRIDAY, APRIL 30.

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.  
 3.30—From the Tivoli Theatre, by courtesy of the directors of Haymarket Theatres Ltd., a programme of music by the Tivoli Operatic Orchestra will be relayed from the Tivoli Theatre.

3.30—Music from the Studio.

7—The Farmers' Session. Market Reports. Address to Fruitgrowers by Mr. W. Ranger (manager, Fruit Marketing Organisation).

Night Session.

7.45—Lecture Session.

8—Studio Entertainment.

9.15—Three Quarters of an Hour's Community Singing by 4QG Artists and Staff. Broadcast from the reception hall at 4QG.

9.55—"The Daily Mail" News Service.

10—Close down.

SATURDAY, MAY 1.

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 Session; Bedtime Stories by Uncle Ben, assisted by Mahol Sunshine.

7.15—Close down.

Night Session.

Studio Programme and Lennon's Ballroom.

8—Studio Programme.

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

8.55—Announcements.

9—From Lennon's Ballroom—By courtesy of the proprietors of Lennon's Hotel, ten minutes' dance music by Miss May Dobbyn's Vire Regal Orchestra will be relayed from Lennon's Hotel.

9.10—From the Studio.

9.20—From Lennon's Ballroom—Ten Minutes Dance Music.

9.30—From the Studio.

9.40—From Lennon's Ballroom—Ten Minutes Dance Music.

9.50—From the Studio.

10.30—From the Studio: The Sunday Mail News Service; Close down.

SUNDAY, MAY 2.

Morning Session.

The complete morning service held by the International Bible Students' Association in the Brisbane School of Arts will be relayed. The address will be delivered by Mr. R. A. Kianimonth.

10.55—Tune-in.

11—Service.

12.15—Close down.

Afternoon Session.

The Band Concert provided in the Botanical Gardens will be broadcast.

3.10—Tune-in.

3.15—Band Concert.

4.30—Close down.

Night Session.

The complete evening service held by the International Bible Students' Association in the Brisbane School of Arts will be relayed.

7.10—Tune-in.

7.15—Evening Service.

8.30—Benediction.

Band Concert.

At the conclusion of the Church Service, the Band Concert provided in Wickham Park by the Greater Brisbane Municipal Concert Band (under the leadership of Mr. E. Jackson) will be broadcast.

MONDAY, MAY 3.

Market Reports.

1.30—Close down.

3.25—Tune-in.

3.30—From the Tivoli Theatre—By courtesy of the Directors of Haymarket Theatres Ltd., a programme of music by the Tivoli Operatic Orchestra under the baton of Mr. C. Groves) will be relayed.

3.45—Studio Concert.

4—From the Tivoli—Operatic Music.

4.10—Music from the Studio.

4.15—News Service supplied by "The Telegraph."

4.30—Close down

Early Evening Session:

6.25—Tune-in.

6.30—"The Children's Session—Stories by "The Sandman"

7—The Farmers' Session. Market Reports supplied by the Council of Agriculture; Lecture—the Outlook in the Pig Industry Mr. E. J. Shelton, Instructor in Pig Raising.

7.20—News Service supplied by "The Telegraph."

7.30—Close down.

Night Session.

7.45—Lecture Session—Motorists, Correct Lubrication, Talk No. 3, by "Cargyle."

8—Studio Concert.

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

8.55—Announcements.

9—From the Band Room—An hour's music by the South Brisbane City Orchestra under the leadership of Mr. J. W. Ferguson.

10—"The Daily Mail" News Service; National Anthem by 4QG Artists. Close down.

TUESDAY, MAY 4.

Midday Session.

12.55—Tune-in signal.

1—Market Reports and News Service supplied by the "Daily Standard"; Stock Exchange. 1.30—Close down.

Afternoon Session.

3.25—Tune-in.

3.30—Music from the Studio.

4.15—"The Telegraph" News

4.30—Close down

Early Evening Session:

6.25—Tune-in.

6.30—"The Children's Session—Stories by "The Sandman"

7—The Farmers' Session. Market Reports; Lecture—the Value of the Poultry Industry to You, Mr. P. Rumball (Poultry Instructor).

7.20—"The Telegraph" News.

7.30—Close down.

Night Session.

7.45—Lecture Session—"Photography," by Mr. F. L. South Manager Kodak Ltd.)

The 4QG Concert Orchestra.

8—Studio Concert.

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

8.55—Announcements.

9—Studio Concert.

9.30—From the Centennial Hall—by courtesy of the Lessee, half an hour's dance music by the Centennial Hall Orchestra will be relayed from the Centennial Hall.

9.35—"The Daily Mail" News Service.

10—Close down.

WEDNESDAY, MAY 5.

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. 1.30—Close down.

Afternoon Session.

3.25—Tune-in.

3.30—Music from the Studio.

4.15—"The Telegraph" News.

4.30—Close down

Early Evening Session:

6.25—Tune-in.

6.30—"The Children's Session—Stories by "The Sandman"

7—The Farmers' Session. Market Reports. Lecture—the A Talk about Cotton, by Mr. G.



# Five Questions

*every valve user ought to ask before buying his next Dull Emitter*

## Is it truly economical?

**M**ERELY because a valve is described as a dull emitter does not necessarily mean that it is cheap to run. Its current consumption may increase as the valve becomes older. Or, as is often the case, its emission may fall off and the valve will get less sensitive. The fundamental principle underlying every dull emitter calls for some method of increasing the electron emission of the filament. The old way was to use thoriated tungsten. The new way, discovered and patented by Cossor, is to deposit on the filament wire a triple coating of a special electron-producing material. This coating—built up layer upon layer upon a metallic base—can never lose its productivity. Thoriated tungsten, on the other hand, can be easily ruined by the use of an excessive voltage, with the result that the valve becomes practically useless.

## Has it long life?

**Y**OU don't want to buy a valve which will only last a few months. Long life is just as important as current economy. The length of time a valve will last depends entirely upon its filament—the only consumable part. Some valves obtain low current consumption at the risk of fragility. Not so the Wuncell which has a comparatively stout filament consuming only .3 amp. at 1.8 volts. In the Wuncell, long life is coupled with true economy. Its filament temperature never exceeds 800°C.—whereas all bright emitters and some so-called dull emitters function at 2000°C. Heat has a most destructive influence on filaments. The lower the work-

ing temperature, the longer the valve will last. A "cold" valve for example would be almost everlasting. You will hardly be able to see the dull red glow of a Wuncell in daylight—even in the dark it can only be compared to the luminous dial of a watch.

## Is it efficient for long distance work?

**E**VEN a long life, economical valve wouldn't be much use if inefficient. So your new dull emitter must be at least as efficient as a bright emitter. Almost every wireless enthusiast wants to pick up long distance broadcasting. For this reason the special Wuncell W2 (with an identifying red top) has been developed. This valve has exactly the characteristics which will enable it to respond to weak oscillations and amplify them to a strength which will permit effective rectification.

The standard Cossor electron-retaining principles of construction—in which an arched filament is almost entirely enclosed by a hood-shaped Grid and Anode—are responsible for wonderfully high standard of performance. Wuncell users are everywhere testifying to the efficiency of their valves. The old idea that to obtain current economy meant a sacrifice in sensitivity or volume is being rapidly dispelled by these superb new Cossor Dull Emitters.

## Will it give pure tone?

**M**ORE than 80 per cent. of the valve sets in operation today are used for Loud Speaker work. It is important, therefore, to choose a dull emitter capable of giving a generous

volume of really good tone. The new Wuncell W3 has been evolved specially for loud speaker use. Although utilising the same unique Cossor principles of construction—the electron-retaining hood-shaped Grid and Anode—its characteristics have been modified in order to permit an immense volume without distortion. Its Grid—always a vital feature in a power valve—is tremendously rigid. Each turn of the wire is securely anchored in two distinct positions—36 in all. The filament is triple mounted for extra strength. As a result microphonic noises have been completely abolished and a grand mellowness of tone is the result.

## And finally—who makes it?

**N**OT the least important of these five questions is the experience of the manufacturer. Valves are not like electric lamps. They are far more intricate. They cannot merely be made to specification. Each step must be watched with eagle eyes. Every process of manufacture must be carefully checked for possible imperfections. The most delicate tests must be used to safeguard the predetermined standards of performance. Cossor Valves are British made and have acquired a world-wide reputation. There is hardly an experimenter of note who has not chosen them above all others for their outstanding qualities. Their super-sensitiveness—their freedom from microphonic noises—their sheer dependability under all circumstances—their long life—their high standard of uniformity—all these features have made the name Cossor synonymous with all that is finest in valve design.

### THE WUNCCELL DULL EMITTER.

Voltage 1.8 volts. Consumption .3 amp.  
\*W1 for Detector and L.F., 15/- each.  
\*W2 for H.F. amplification, 15/- each.  
\*Also in WR Series with special switch and resistance in base to enable valve being used with 2-, 4-, 6-volt Accumulator.

W1 for Detector and L.F., 18/- each.  
WR2 for H.F. amplification, 18/- each.

# Cossor Valves

### COSSOR LOUD SPEAKER VALVES.

W3. Voltage 1.8 volts. Consumption .5 amp. Price 21/-.

P3. Voltage 4.5 volts. Consumption .175 amp. Price 24/- each.

W1, W2, W3, and P3 also available in Standard American Bases.



E. McDonald (Chairman, Queensland Cotton Board).  
7.20—"The Telegraph" News.  
7.30—Close down.

## Night Session.

7.45—Lecture Session—Tourist Talk: See Brisbane First, by Mr. Reid (Brisbane Tourist Co.).  
8—A Scottish Night.  
8.50—Weather information officially supplied by the Commonwealth Weather Bureau.  
9.55—Announcements.  
9—Scottish Night, continued.  
10—"The Daily Mail News Service; Close down.

## THURSDAY, MAY 6.

## 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.  
1.30—Close down.

## Afternoon Session.

2.55—Tune-in.  
3.30—Music from the Studio.  
4.15—"The Telegraph" News.  
4.30—Close down.

## Early Evening Session:

6.25—Tune-in.  
6.30—"The Children's Session"—Stories by "The Sandman."  
7—"The Farmers' Session, Market Reports, Lecture—How Milk Should be Treated after it reaches the Consumer, by Mr. C. T. Pound (Government Bacteriologist).  
7.20—"The Telegraph" News.  
7.30—Close down.

## Night Session.

7.45—Lecture Session—A talk on Literature, by Mr. W. A. Braiden.  
Studio Programme and Band Recital.  
8—Studio Concert.  
8.50—Weather information officially supplied by the Commonwealth Weather Bureau.  
9.55—Announcements.  
9—Studio Programme.  
9—From the Band Room: An impromptu programme of music by the Greater Brisbane Municipal Concert Band, under the leadership of Mr. B. Jackson.  
10—"The Daily Mail" News Service Close down.

## 2BL

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

## FRIDAY, APRIL 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; A talk on English Poetry by Mr. J. M. Prentice.  
3.45—Music from the Studio.  
4—G.P.O. Clock and Chimes; Music from the Studio.  
4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramosi.  
4.45—Music from the Studio.  
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; Sporting Resume from the Sun Newspapers; The pupils of Miss Monica Scully will entertain the Kiddies.  
6.45—Broadcasters Dinner Orchestra.  
7.15—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.  
7.50—Close down.

## Evening Session.

Dance Night Debate—Prohibition, its effects and its enforcement—Mr. J. M. Prentice, O.C.B., C-de-G., Hon. Crawford Vaughan.

## SATURDAY, MAY 1.

## 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.  
5—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-pa."  
7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.

## Evening Session.

From the Studio: Thomas A. Thompson, elocutionist; Deal and Maynard, variety Tura; Vocal Quartet; Nellie Chadwick, soprano; Jimmy Elkin's Jazz Band, broadcast from the Cabaret, The Dungenwa, Manly, until midnight. Miss H. J. Beegling will speak on The Coastline—Los Angeles to Frisco.

## SUNDAY, MAY 2.

11—Chalmers Street Presbyterian Church, Minister; Rev. D. F. Brandt.  
3.30—Manly Municipal Military Band, broadcast from Bandstand, Ocean Beach, Manly.  
7.15—Enmore Church of Christ.  
8.30—From the Studio: Madame Vera Tassus, soprano; Alfred Cunningham, baritone.

## MONDAY, MAY 3.

## 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. Prentice.  
3.45—Music from the Studio.  
4—G.P.O. Clock and Chimes; David Jones' Tea Room Trio.  
4.15—Music from the Studio.  
4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramosi.  
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.

5—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.  
6.30—Sporting Resume from Sun Newspapers; Uncle George and the Kiddies.  
7.30—"What's On," a guide to the visitors and citizens of Sydney.  
7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.  
7.50—Close down.

## Evening Session.

"The Orphan's Wall," broadcast from Warrington Hall, Neutral Bay.

## TUESDAY, MAY 4.

## 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 Mr. Ramosi.  
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; Sporting Resume from "Sun" Newspapers; Uncle Jack and the Kiddies.  
6.45—Broadcasters Dinner Orchestra.  
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: Miss Leonore Gotch, coloratura soprano; Jazz pianist—Mr. Cec. Morrison—Will play any number asked for by telephone and the request will be simultaneously broadcast. Mr. H. E. Crabbe will speak on The Story of Civilization, No. 4, Europe Awakes, and Miss Helen Jean Beegling will also continue her interesting chats.

## WEDNESDAY, MAY 5.

## 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 Operatic Talk by Mr. J. M. Prentice.  
4—G.P.O. Clock and Chimes; Broadcasters' Trio.  
4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramosi.  
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.

5—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.

Special Radio Programme broadcast from Radio Exhibition, Town Hall, Sydney. Broadcasters Minstrel Troupe under the direction of Mr. Hartley Court.

## THURSDAY, MAY 6.

## 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 Mr. Ramosi.  
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.

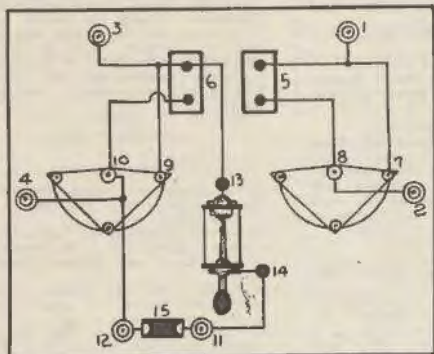
6—G.P.O. Clock and Chimes; Sporting Resume from "Sun" Newspapers; Uncle Jack and the Kiddies.

BURGESS—"Constant satisfaction assured"—BATTERIES



# BUILD an Ideal - Selective - Sensitive Crystal Receiver

This set can be recommended by Mick Simmons Ltd. Satisfied customers living within  $\frac{1}{2}$  mile of broadcasting stations, have found it quite a simple matter to get any station they require without interference. Interstate stations have also been tuned in using a Neutron crystal. The aerial to be approximately 100 feet in length and earth wire as short as conveniently possible, viz., 10-20 feet.



## MATERIALS REQUIRED.

See also Numbers on diagram.

- 1 Box (a Cigar Box about 9 in. x 5 in. x 5 in. quite suitable).
- 1 Bakelite Panel, (We will cut and drill this free.)
- 2 Variable Condensers with Dial. Capacity, .0005 or .0003, fixed plate connections shown at No. 7 and 9, and movable plates at 8 and 10.
- 1 Crystal Detector.  
(Det. arm connection, see No. 14.)  
(Crystal Cup connection, see No. 13.)
- 1 Neutron Crystal with Silver Catawhisker.
- 4 "ECS" Plugs—2 White for Phones, 1 Red and Green for Aerial and Earth.

Components can be placed as desired on panel to suit convenience of customer, so long as wiring is adhered to. Diagram shows back of panel wiring.

CALL OR WRITE for further particulars if required. We are pleased to advise clients in any problem in connection with Radio.

Country listeners are specially catered for with an excellent, up-to-date Mail Order Service.

THESE CRYSTAL SETS CAN BE MADE FROM 35/- TO 50/-.

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## 6 "ECS" Bases

- (1 Red at No. 1.) (1 Red at No. 3.)  
(1 Green at No. 2.) (1 Green at No. 4.)  
2 Whites at Nos. 11 and 12 for Phones.  
1 Fixed Bakelite Panel Plug. See No. 6.  
1 Movable Bakelite Panel Plug. See No. 5.  
(Panel Plugs must be mounted close enough together so that coils when inserted nearly touch in vertical position.)  
1 Fixed Condenser, .001. See No. 15.  
6 Lengths Bus Bar Wire.  
1 Yard Resin Cored Solder and Soldering Iron.

## TO OPERATE

### As a Selective Receiver—

Plug Aerial into No. 1 and earth into No. 2, and tune both Condensers.

## COILS REQUIRED.

- For 2KY, plug 25 or 30 turns in No. 5 and 50 or 60 in No. 6.  
For 2BL and 4QG, plug 30 or 35 turns in No. 5 and 60 or 75 in No. 6.  
For 2FC, plug 100 or 136 turns in No. 5 and 150 or 200 in No. 6.

## TO OPERATE.

### As a Single Coil Receiver—

Plug Aerial into No. 3 and Earth into No. 4 and tune with right hand. Condenser facing set.

## COILS REQUIRED.

- For 2KY, plug 25 or 30 turns into No. 6.  
For 2BL and 4QG, plug 30 or 35 turns into No. 6.  
For 2FC, plug 100 or 136 turns into No. 6.

6.45—Broadcasters Dinner Orchestra.  
7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.  
7.50—Close down.

Evening Session.

Special radio programme broadcast from Radio Exhibition, Town Hall, Sydney. City of Sydney Band; Alfred Cunningham, baritone; Lance Jeffrey, tenor; Miss Dorrie Ward and W. E. Lewis in solos and duets.

5CL

CENTRAL BROADCASTERS LTD.  
Call Sign, 5CL. Wavelength, 395 metres. Input, 5 K.W.

FRIDAY, APRIL 30.

Morning Session (11.30 a.m. to 2 p.m.)  
11.30—G.P.O. Chimes.  
11.31—Featuring a Steek Duo Art number.  
11.40—"Advertiser" News Service.  
12—G.P.O. Chimes.  
12.1—News and Cable Service.  
12.16—Featuring a Steek Duo Art number; The 5CL Studio Orchestra Overture; concert solo; fox trot; serenade; selection; waltz; instrumental trio; Indian love call from "Rose Marie"; 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, Market Reports and Station Announcements.  
7.40—Sporting Talk by "Old Timer."  
8—G.P.O. Chimes.  
8.1—Studio Concert, arranged by Miss Hilda Wheeler.  
9—G.P.O. Chimes.  
9.1—Weather Reports.  
9.3—Studio Concert—continued.  
10.1—Studio Concert—continued.  
10.15 approx.—Advertiser News Service.  
10.30—Station Announcements; National Anthem.

SATURDAY, MAY 1.

10.30—G.P.O. Chimes.  
10.31—The 5CL Studio Orchestra will play: selection; violin solo; fox trot; ballet sentimental; suite; valse; cornet solo; one step; finale.

Evening Session.

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. W. Keith Steward.  
8.45—The H Lecture.  
9—G.P.O. Chimes.

9.1—Weather Reports.  
9.3—Studio Concert—Continued.  
10.1—Studio Concert—continued.  
10.21—"Advertiser" News Service.  
10.30—Station Announcements; National Anthem.

SUNDAY, MAY 2.

Morning Session:

11—Broadcast from Parkside Baptist Church—Sunday School Anniversary. Special singing by the Sunday School. Address by Rev. Andrew Gowans, of Norwood. Hymns from Carey Bonner's S.S. Hymnal.

Afternoon Session.

3.45—Pleasant Sunday Afternoon service from Black Forest Baptist Church. Chairman, Rev. W. Keith Steward.

Evening Session:

6.30—G.P.O. Chimes.  
6.31—Bedtime Stories for the Children.  
6.55—Broadcast from Black Forest Baptist Church. Church Anniversary. Service conducted by Rev. W. Keith Steward.  
8.15—From Studio, Mr. P. H. Nicholls, "Mental healing."  
8.40—From Studio: vocal and instrumental numbers; Station Announcements; National Anthem.

MONDAY, MAY 3.

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

11.30—G.P.O. Chimes.  
11.31—Featuring a Steek Duo Art number.  
12—G.P.O. Chimes.  
12.1—News and Cable Service.  
12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play: Overture; cello solo; fox trot; waltz; Hungarian dance No. 1; cornet solo; selection; ballad of trees; 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.  
8—G.P.O. Chimes.  
8.1—S.A. Railways Band.  
8.20—Arzac stories from "Dinkum Oil" by "Twinkler."  
9—G.P.O. Chimes.  
9.1—Weather Reports.  
9.10—Talk on Photography, arranged by Harringtons, Limited.  
9.20—S.A. Railways Band.  
10—G.P.O. Chimes.  
10.1—S.A. Railways Band.  
10.45—Station Announcements; To-morrow's Programme; National Anthem.

TUESDAY, MAY 4.

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

11.30—G.P.O. Chimes.  
11.31—Featuring a Steek Duo Art number.  
12—G.P.O. Chimes.

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12.1—News and Cable Service.  
12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play; Overture; cornet solo; fox trot; waltz; country dance; selection; violin solo; dance Denzweiler, op. 28; 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—Relay from Maple Leaf Cafe; Orchestral Numbers.

3.45—Broadcast from Studio; Serial Story.

4—G.P.O. Chimes.

6.1—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 H. Hubble.

8—G.P.O. Chimes.

8.1—Studio Concert, arranged by Mrs. Hubert James.

8.20—Cookery Talk arranged by S.A. Gas Co.

8.40—Studio Concert.

9—G.P.O. Chimes.

9.1—Weather Reports.

9.3—Studio Concert.

10—G.P.O. Chimes.

10.1—Studio Concert.

10.30—"Advertiser" News Service.

10.50—Station Announcements; National Anthem.

WEDNESDAY, MAY 5.

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

11.30—G.P.O. Chimes.

11.31—Steek Duo Art and Asolian Vocation Recitals.

12—G.P.O. Chimes.

12.1—News and Cable Service.

12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play; Selection; cornet solo; fox trot; waltz; The Dancer of Navarre; reverie; La Casalina cello solo; 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.

6.1—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.

7.20—Copeck Lecture, Mr. N. Crocker, M.A.

8—G.P.O. Chimes.

8.1—Studio Concert, under the direction of Mrs. Reginald Quensel.

8.30—Science lecture arranged by Messrs. F. H. Faudling & Co.

8.40—Studio Concert—continued.

9—G.P.O. Chimes.

9.1—Weather Reports.

9.3—Studio Concert—continued.  
10.1—Studio Concert—continued.  
10.25—"Advertiser" News Service.  
10.40—Station Announcements; National Anthem.

THURSDAY, MAY 6.

11.30—G.P.O. Chimes.

11.31—Featuring a Steek Duo Art number.

11.40—"Advertiser" News Service.

11.55—Vocalian Number.

12—G.P.O. Chimes.

12.1—"Advertiser" News Service.

12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play; Overture; cello solo; fox trot; waltz; Metropolitan Nights; selection; violin solo; novellette; finale, selection.

1.55—Ward & Co.'s Stock Exchange Intelligence, Official weather synopsis, and station announcements.

2—G.P.O. Chimes.

Afternoon Session.

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—G.P.O. Chimes.

6.31—Bedtime Stories.

7.15—Health Talk by Mr. A. M. Whittembury.

7.30—Market Reports.

7.40—Poultry Talk by Mr. A. M. Whittembury.

8—G.P.O. Chimes.

8.1—Another nonsense night in three oscillations with a few bursts of static.

Approx.

10.15—"Advertiser" News Service.

10.30—Station Announcements; National Anthem.

2KY

WEEKLY BROADCASTING PROGRAMME.  
TRADES HALL.

Call Sign, 2KY. Wavelength, 280 metres.

FRIDAY, APRIL 30.

12 noon—Special Luncheon Hour Service: Union Topics, Labor News, Items of general interest; Sporting Results; vocal and musical items, closing down at 2 p.m.

Evening Session.

7.30—Latest News Items; Miss Esme Diehl, I.L.C.M.; Miss Maizie Carroll, soprano; Mr. Alf. James, baritone; Mr. Beard, Technical Designer of 2KY, Wireless Lecturette; Labor Research Bureau, Political and Industrial topics; Miss Ivy O'Niell, contralto; Mr. J. Fahy, tenor; Mr. David Edelesten, monologues; Andro Addison's String Orchestra.

SATURDAY, MAY 1.

7.30—Latest News Items and Sporting results; Mr. J. O'Sullivan, baritone; Lecturette; Hints on Motors, Mr. W. H. Burgess; Mr.

Frank Redman, monologues; Lecturette, Labor Legislation, Mr. J. C. Eldridge; Mr. Robertson, baritone, and others to be announced. Nelle O'Sullivan, Dramatic Scenes.

MONDAY, MAY 3.

12 noon—Special Luncheon Hour Service: Union Topics, Labor News, Items of general interest; Sporting Results; vocal and musical items, closing down at 2 p.m.

7.30—Latest News Items; Miss Amy Ruwald, entertainer; Miss D. Johnston, soprano; Mr. W. Strain, tenor; Lecturette, Local Topics, Industrial and Political, Mr. J. S. Gardau; Mr. Beard, Technical Designer of 2KY, Wireless Lecturette; Mr. J. Gray, baritone.

TUESDAY, MAY 4.

12 noon—Special Luncheon Hour Service: Union Topics, Labor News, Items of general interest; Sporting Results; vocal and musical items, closing down at 2 p.m.

7.30—Latest News Items; Miss Dorrington, soprano; Cec. Morris & his Bluebirds' Jazz Band; Lecturette; Organic Evolution, Mr. Geo. F. Manuel; Miss Zara Nilsson, soprano; Lecturette, Mr. R. V. Markham; Flute solo; Mr. Lee Sprunlo, Mr. McDongal, Hawaiian steel guitar; Mr. David Lloyd, pianist; Mr. A. Jamieson, tenor.

WEDNESDAY, MAY 5.

12 noon—Special Luncheon Hour Service: Union Topics, Labor News, Items of general interest; Sporting Results; vocal and musical items, closing down at 2 p.m.

7.30—Latest News Items; Miss Eileen Charters, soprano; Miss Dean, pianist; Lecturette; International Topics, Industrial and Political, Mr. J. S. Gardau; Mr. B. Webster, baritone; Mr. Percy Brown, monologues; Mr. Sullivan, tenor; Miss Thompson, soprano; Lecturette, Health Topics; Miss Lily Wallace, whistler; Lecturette, subject to be announced, Rt. Rev. C. A. Arundale.

THURSDAY, MAY 6.

12 noon—Special Luncheon Hour Service: Union Topics, Labor News, Items of general interest; Sporting Results; vocal and musical items, closing down at 2 p.m.

7.30—Latest News Items; Miss Tibbie Smith, monologues; Mr. Eric Goldrick, Hawaiian steel guitar; Lecturette, Readings from working class fiction, Miss E. L. Patrick; Lecturette, Mr. J. C. Eldridge, Social Science; Miss Butterworth, soprano; Mr. W. Thom, tenor.

3LO

BROADCASTING CO. OF AUST. PROP. LTD.

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

SUNDAY, MAY 2.

Morning Session, 11 a.m. to 12.15 p.m.  
11—Service from First Church of Christ, Scientist, Melbourne. Voluntary organ; Hymn No. 239; Scriptural Reading Isaiah 59: 1-4, 9; Ezekiel 18: 30, 31; Hebrews 12: 1, 2, 5, ("Ye"), 6, 11, 18, 22, 25, 28, 29; Silent Prayer, followed by the audible repetition of the Lord's Prayer, with its spiritual interpretation from page 16 of the Christian Science Text-book, "Science and Health with Key to the Scriptures," by Mary Baker Eddy. Announcements; solo; Lesson Sermon: "Everlasting Punishment"; Offertory (organ); Hymn No. 132; Reading, the Scientific Statement of Being from page 468 of the Christian Science Text-book, and the correlative scripture according to 1 John 3: 1-3; Benediction; Postulate (organ). 12.15—Close down.

PHILCO—"Play Safe"—BATTERIES



TUESDAY, MAY 4.

Afternoon Session, 3 to 4.30.  
 33—Services from Central Mission, Wesley Church, 5 Pleasant Sunday afternoon. Choirmen: Rev. J. H. Cain. Orchestral Selection; Hymn; Prayer; Hymn; Solo; Orchestral Selection; Solo; Notices, Offering and Orchestral Selection; Address: Very Rev. Dean Ha Bart (St. Paul's Cathedral) "The Australia of To-morrow"; National Anthem; Benediction; Orchestral Selection.  
 Evening Session, 8 to 8.45.  
 6—Children's Hour. Stories by Billy Bunny; The Lost Garden; The Loveliest L Flower; Red Huckle.  
 8.45—Close down.

1 Night Session, 7 to 10.  
 7—Services from Scot's Church. Preacher: The Rev. D. Dr. Borland; Organist, Mr. Mansley Greer. 1. Metrical Psalm 45; V. 3-5; O send Thy Light forth; Prayer; Hymn 144; Lesson: Deuteronomy 30: 11-20; Psalm (Prose Psalter) 42: As as the hart pants; Prayer of Intercession; Lesson: II. Corinthians 3; Anthem; The Lord's Prayer; Sermon; Hymn 133; Primitives; Offertory; Hymn 618; Benediction; Sevenfold Amen.  
 From the Studio.  
 8.30—Coburg City Band, Ravenswood (Rimmer), After to the Dawn (O'Hagan).  
 8.49—Nora Nora Wilcox, contralto (by permission of J. C. C. Williamson Ltd.), O Lovely Night (Ronald), Sing Joyous Bird (Phillips).  
 8.47—Coburg City Band: Daughter of Regiment (Dominicci).  
 8.57—Bert Bernard Manning (by permission of J. C. Wil Williamson Ltd.), O far into the night (Rachmankinoff), None will know (Ronald).  
 9.4—Coburg City Band: Cornet solo by R. Osborne; Last Chord (Sullivan), Serenade (Sullivan).  
 9.4—A' Argus' News Service.  
 9.20—Coburg City Band, Gladiator's Farewell, Musical Fragments (Rimmer), waltz, Unrequited Love.  
 9.35—Nora Nora Wilcox and Berard Manning, duets; Still ill as the Night (Goertz), At Love's Beguiling (Lehman).  
 9.45—Coburg City Band, march: Rubenstein (Bridgwood), For trout: Sleepy Time Gal, Sons of W. Wild (Rimmer).  
 10—God! Save the King.

MONDAY, MAY 3.

Midday Session 12 noon to 2 p.m.  
 12 Noon—Transmission from Messrs. Allan & Co's Stand at the International Motor Show, Exhibition Buildings.  
 12.20—British Official Wireless News from Rugby. "Argus" and "Herald" News Services. Shipping Intelligence, Reuters & Australian Press Association Cables.  
 12.45—Stock Exchange Information.  
 12.50—Meteorological Information; Weather Forecasts for Victoria, Tasmania, South Australia, and New South Wales; Ocean Forecast; River Reports.  
 1—Time Signal.  
 1.1—Studio Orchestra, overture: Euryanthe (Weber).  
 1.19—Percy Bundell, tenor: Oft in the Stilly Night (Rindault), My Snowy Breasted Pearl, The Irish Emigrant.  
 1.20—Agnes Fortune, pianoforte solo: The Thruway (Nevin).  
 1.25—Station Trio, Spring's Awakening (Bac).  
 1.30—Percy Bundell, tenor: Homeland (Drummond), The Sound of Irish Bells (Trent), Joggins along the Highway (Samuel).  
 1.40—Studio Orchestra, Greenland Suite (Fredrickson).  
 1.50—Walter Smith, cornet solo: Castles in the Air (Clay Smith).  
 2—Close down.

Afternoon Session, 3 to 5.  
 3—Transmission from Messrs. Allan & Co's Stand at the International Motor Show at the Exhibition Buildings.

3.20—Miss MUIR Meyer, The Essences.  
 3.35—E. Mason Wood, baritone: The Lute Player (Allison), Hata off to the Stoker (Avondale), Ma Little Banjo (Dickmont).  
 3.45—Studio Orchestra, Romance (Rubenstein).  
 3.50—Miss Flora Pelel, Supervisor of Domestic Arts, Education Department; Domestic Economy.  
 4.5—Studio Orchestra, Scotch Intermazzo (Brahms).  
 4.10—Romola Hanstein, soprano: It's a year Almost (Lohr), Vale (Russell), Tiptoe Carew).  
 4.20—Bessie Gausson, Violin solo.  
 4.25—E. Mason Wood and Romola Hanstein, duets.  
 4.35—Studio Orchestra, selection:  
 4.45—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables; Stock Exchange Information.  
 5—Time Signal; Close down.

Evening Session, 6 to 7.15  
 6—Children's Hour. Stories by "Billy Bunny," Nursery Rhymes; The Peacock who wanted too much; "Black Beauty."  
 6.45—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables.  
 6.53—Weather Synopsis; Shipping Movements.  
 8.57—Stock Exchange Information.  
 7.2—Fish Market Report by J. R. Borrott Ltd.  
 7.4—Fruit Market Reports by the State Fruit Advisory Board.  
 7.6—Market Reports by the Victorian Producers Co-operative Co. Ltd., Haymarket Sales; Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

Night Session, 7.15 to 11.  
 7.20—Under the auspices of the New Settlers' League—Mr. F. H. Dodge, Fishing Hints.  
 1.40—Under the auspices of the Department of Agriculture—Dr. S. S. Cameron, Director of Agriculture, Broadcasting for Farmers.  
 8—Steinfors' Broadcasters, overture.  
 8.12—The Sunbeam Singers (Pupils of Miss Eileen Pascoe-Webbe), Ensemble.  
 8.16—Little Ellen Bailey (1st Prize Radio Voice, under 8 years).  
 8.20—Rev. K. Henderson: Australian Education.  
 8.35—Steinfors' Broadcasters, violin solo.  
 8.38—Joyce Mundy (1st Prize Radio Voice, under 11 years).  
 8.42—Edna Harley and Mavis Yeomans, vocal duet.  
 8.46—Steinfors' Broadcasters, trio.  
 8.50—Jean Potter.  
 8.54—Steinfors' Broadcasters.  
 8.57—Little Joy Dunstan (3rd Prize Radio Voice, under 8 years).  
 9—Mrs. J. H. Moss, A Flight to Holland.  
 9.15—Steinfors' Broadcasters.  
 9.18—Mavis Yeomans, humorous recital.  
 9.22—Miss Pascoe-Webbe, songs.  
 9.29—Steinfors' Broadcasters.  
 9.35—Sunbeam Glee Party, selected.  
 9.40—Joyce Mundy, song.  
 9.44—Steinfors' Broadcasters.  
 9.55—Eileen Locke.  
 10.2—Steinfors' Broadcasters.  
 10.5—"Herald" News Service. British Official Wireless News from Rugby. Notes on to-day's activities on the Melbourne Stock Exchange. Meteorological information.  
 10.20—Eileen Pascoe-Webbe, Musical monologue.  
 10.25—Steinfors' Broadcasters.  
 10.35—Jean Potter and Mavis Yeomans, Descriptive duet.  
 10.40—Steinfors' Broadcasters, fox trots, waltz, one step.  
 11—God Save The King.

Midday Session 12 noon to 2 p.m.  
 12 Noon—Transmission from Messrs. Allan & Co's Stand at the International Motor Show, Exhibition Buildings.  
 12.20—British Official Wireless News from Rugby. "Argus" and "Herald" News Services. Shipping Intelligence, Reuters & Australian Press Association Cables.  
 12.45—Stock Exchange Information.  
 12.50—Meteorological Information; Weather Forecasts for Victoria, Tasmania, South Australia, and New South Wales; Ocean Forecast; River Reports; Reuters and the Australian Press Association Cables; Stock Exchange Information.  
 1.1—Studio Orchestra, overture.  
 1.13—Dorothy Roxburgh, violin solo.  
 1.18—Oliver Pascoe, baritone.  
 1.25—Station Trio.  
 1.30—Walter Smith, cornet solo.  
 1.35—Oliver Pascoe, baritone.  
 1.42—Agnes Fortune, pianoforte solo.  
 1.47—Studio Orchestra, valse.  
 2—Close down.

Afternoon Session, 3 to 5.  
 3—Transmission from Messrs. Allan's Stand at the International Motor Show at the Exhibition Buildings.  
 3.20—Grace Evans, soprano.  
 3.27—C. Richard Chagg, Flute solo.  
 3.37—Matron Moreland, Infant Welfare.  
 3.52—Studio Orchestra, valse.  
 3.57—Louie Hilburn, contralto.  
 4.4—C. Richard Chagg, Flute solo.  
 4.11—Grace Evans and Louie Hilburn, duet.  
 4.17—Au Fait, of Messrs. Buckley & Nunn Ltd., will give a Fashion Talk.  
 4.32—Station Trio.  
 4.37—Bessie Gausson, violin solo.  
 4.45—"Herald" and "Argus" news services. Stock Exchange Information.  
 5—Close down.  
 Evening Session, 6 to 7.15  
 6—Children's Hour. Stories by Mary Gunkles, Poems—My Daddy's Eyes, Halfway down, Story for the littlest one. Doll o' dreams. For the bigger ones—Story of Mozart, the child composer, with musical illustrations.  
 6.45—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables.  
 6.53—Weather Synopsis; Shipping Movements.  
 6.58—Stock Exchange Information.  
 7.2—Fish Market Reports by J. R. Borrott Ltd.  
 7.4—Fruit Market Reports by the State Advisory Board.  
 7.6—Market Reports by the Victorian Producers Co-operative Co. Ltd.; Haymarket Sheep Sales, Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

Night Session, 7.15 to 11.  
 7.20—Under the auspices of the Town Planning Association, Cr. W. A. Wharington, Removal of the North Melbourne Cattle Yards.  
 7.40—Under the auspices of the University Extension Board, Mr. J. T. Sutcliffe—Trade Unionism.  
 8—Ernest C. Oram and the Tivoli Orchestra, transmitted from the Tivoli Theatre by way of Masgroves Ltd.  
 9—Ed. Gantier—How to Train Animals (by permission of Masgroves Ltd.)  
 9.10—Dr. Loftus Hilla, Popular Sciences.  
 9.25—Edouard and Raymond Lambert.  
 9.38—Children's Hospital Appeal.  
 9.38—Eileen Starr, soprano.  
 9.48—Raymond Lambert, pianoforte solo.  
 9.54—Raymond Ellis, baritone.  
 10.3—Edouard Lambert, violin solo.  
 10.4—"Herald" news service. British Official Wireless News from Rugby. Notes on to-day's activities on the Melbourne Stock Exchange. Meteorological information.  
 10.20—Eileen Starr, soprano.  
 10.36—Raymond Lambert, piano solo.



- 10.45—Raymond Ellis, baritone.  
10.53—Edouard Lambert, violin solo.  
11—God Save The King.

## WEDNESDAY, MAY, 5.

- Mil-day Session, 12 noon to 2 p.m.  
12 Noon—Transmission from Messrs. Allan & Co.'s Stand at the International Motor Show, Exhibition Buildings.  
12.20—British Wireless News from Rugby. "Argus" and "Herald" News Services. Shipping Intelligence, Reuters & Australian Press Association Cables.  
12.45—Stock exchange information.  
12.50—Meteorological information. Weather forecasts for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecasts, river reports.  
1—Time signal.  
1.1—Studio Orchestra, overture.  
1.15—Rev. R. Sherwood, Precentor of St. Paul's Cathedral will be hosted to the highest part of the Cathedral, and whilst suspended in mid-air will deliver a message from Archbishop Leger and will also give a description of the work now in progress.  
1.35—Kenneth Impetti, baritone.  
1.42—Studio Orchestra.  
1.47—Kenneth Impetti, baritone.  
1.54—Studio Orchestra, valse.  
2—Close down.  
Afternoon Session.  
3—Transmission from the stand of Messrs. Allan & Co. at the International Motor Show, at the Exhibition Buildings.  
3.20—Miss S. V. Parker, in travel talk—Kashmir.  
3.35—Alma Horlock, soprano.  
3.45—Professor Pietro Sarcoti, violin solo.  
4—Alma Horlock, soprano.  
4.10—Professor Pietro Sarcoti, violin solo.  
4.25—Sister Peck, of the Victorian Baby Health Association, Mothercraft.  
4.40—Studio Orchestra.  
4.45—"Herald" and "Argus" news services. Stock Exchange Information.  
Evening Session 6 to 7.15  
6—Children's Hour. Stories by "Little Miss Kookaburra" who will tell a story about Five Little Boys and a Watermelon and Marcia's Holiday Guest.  
6.45—Argus and Herald news services. Reut-

- ers 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. Barrett Ltd.  
7.4—Fruit market reports by the State Fruit Advisory Board.  
7.6—Market reports by the Victorian Producers' Co-operative Co. Ltd. Newmarket sales. Cattle, Pigs, Carcass Meat, Grain, Chaff, Hay, Straw, Juice, Dairy Produce, Potatoes and Onions.

## Night Session 7.15 to 11

- 7.20—Under the auspices of the Department of Agriculture, Mr. R. Crowe, Exports Superintendent—Market Reports and Prospects.  
7.40—Mr. P. W. Pearce, Exercises for Constipation.  
8—Raymond Ellis, baritone.  
8.10—Children's Hospital Appeal.  
8.15—University Conservatorium Orchestral Concert will be transmitted from the Auditorium, Collins Street.  
10—com the Studio—Capt. Peters: Books, Wise and Otherwise.  
10.15—Edouard and Raymond Lambert.  
10.20—"Herald" News Service. British Official Wireless News from Rugby. Notes on today's activities on the Melbourne Stock Exchange. Meteorological information.  
10.30—Raymond Lambert, pianoforte solo.  
10.35—Edouard Lambert, violin solo.  
10.41—Raymond Ellis, baritone.  
10.51—Raymond Lambert, pianoforte solo.  
10.56—Edouard Lambert, violin solo.  
11—God Save The King.

## THURSDAY, MAY 6.

- Mil-day Session 12 noon to 2 p.m.  
12 Noon Transmission from Messrs. Allan & Co's Stand at the International Motor Show, Exhibition Buildings.  
12.20—Community Singing under the auspices of Community Singers and Concert Goers, Association, transmitted from the Assembly Hall, Collins Street.  
1.45—Stock Exchange Information; Meteorological information; Weather Forecast for Victoria, Tasmania, South Australia, and New South Wales.  
2—Close down.

## Afternoon Session: 3 to 5

- 3—Transmission from Messrs. Allan & Co.'s stand at the International Motor Show, at the Exhibition Buildings.  
3.20—Eileen Starr, soprano.  
3.30—Mr. T. S. Mould, The Domestic Fire-plate.  
3.45—Eileen Starr, soprano.  
3.55—Mary Gooseleaf will talk to the Mothers during which she will describe Eastertide at Florence. She will also give a short recital of Australian poems  
4.15—Oliver Peacock, baritone.  
4.22—Studio Orchestra, selection.  
4.33—Oliver Peacock, baritone.  
4.40—Studio Orchestra, Spanish dance.  
4.45—Herald and Argus news services. Reuters and the Australian Press Association Cables. Stock exchange information.  
5—Close down.  
Evening Session: 6 to 7.15  
6—Children's Hour. Stories by Mary Gooseleaf. Poems—The King's Breakfast, The Little Prince; Story for the littlest ones. Concerted Curly Tail; For the bigger ones. A trip through a farmyard, by Mary Gooseleaf and Peter Boomerang.  
6.45—Argus and Herald news services. Reuters 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. Barrett, 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, 7.15 to 11.  
7.20—Mr. Alex. Cameron, Chairman of the Melbourne and Metropolitan Tramways Board—Melbourne's Tramways.  
7.40—Under the auspices of the Health Association of Australia—Dr. Polack, "Oral Hygiene."  
8—Harold Rodgers, Organ recital.  
8.15—Allan's Vocal and Instrumental Recital, transmitted from the Auditorium, Collins St.  
10.45—"Herald" News Service. British Official Wireless News from Rugby. Meteorological Information. Notes on today's activities on the Melbourne Stock Exchange.  
11—God Save The King.

## ESPERANTO AND WIRELESS.

The progress in the wireless world is uninterrupted. Almost all the important broadcasting station in Europe and many in America, Asia, and Australia, hold courses in Esperanto or broadcast in that language. Some of them have weekly programmes entirely in Esperanto for the benefit of foreign listeners.

Statistics show, from 1 January, 1923, to 1 April, 1925, 118 lectures (68 on Esperanto and 50 in Esperanto) and 20 lessons were broadcast from 50 stations in 19 countries in 3 continents. Since then the number has considerably increased. The Tokio station now takes part in the dissemination of Esperanto by wireless.

## THE COMPLETE FLAT.

From New York comes the news that fourteen large new apartment houses, overlooking the Hudson River and covering nearly six acres, have been equipped with wireless receiving sets. There

are 356 apartments in all, each of which is supplied with a loud speaker.

An expert operator adjusts four sets to bring in entertainment for the listeners in the apartments.

It is claimed that this is the first time such an installation has been made on such a large scale, and is regarded as the final touch designed to make the apartments irresistible to prospective tenants.

In each apartment there is a brass plate on the wall having four outlets, and it is only necessary for the tenant to place his loud speaker into any one of the four outlets.

## FRENCH OPERATORS DISCONTENTED.

A strike is threatened by French wireless operators who, according to reports, have rejected as insufficient an offer of a 15 per cent. increase in their salaries.



## PAVLOVA'S PIANIST.

### MISS AGNES FORTUNE HONOURED.

Miss Agnes Fortune and 3LO, Melbourne are particularly honoured by Mile. Pavlova's choice of a pianist for rehearsals and practice during her Melbourne season. The greatest of all dancers is not easily satisfied—all over the world she has had the choice of the most accomplished musicians for accompaniments in rehearsals. All her dances are to music which requires extraordinary ability and understanding by the accompanist, so Miss Agnes Fortune has reason to be proud of the fact that she was Pavlova's choice from dozens of musicians for the duty of Melbourne accompanist.

It is hardly necessary to mention that Miss Fortune is pianist for the 3LO, Melbourne, Studio Orchestra, and accompanist for most of the vocal and instrumental items broadcasted from the Collins Street home of wireless entertainment. However, wireless "fans" are apt to take much for granted. Few appreciate the difficulties with which a studio accompanist is beset. A piano player with ordinary touch would drown all accompanying vocal effort, and jar the microphone considerably, yet Miss Fortune adapts her playing to accompaniments of vocalists of all grades and volume.

Thus, it is only to be expected that her achievements have always been beyond the ordinary. As a child, Miss Fortune won many competitions, her University career also being marked with brilliantly won honours and scholarships. Later she appeared on the concert platform as accompanist to such distinguished artists as Peter Dawson and Madame Alberto Zelman. As a teacher of piano-forte, Miss Fortune has imparted much of her own brilliance to her pupils, their record examinations being particularly good.

### 3LO'S LONG REACH TO BRING A SON TO HIS MOTHER.

Away up in Central Queensland where the Gidvea plains extend for miles there are many cattle and sheep stations which greatly appreciate the programmes transmitted from 3LO, Melbourne. During an announcement made the 7th April last, one of these long distance listeners-in at Longreach, Q., was interested to hear that it referred to a young fellow he had met that day. He at once rang up the Avondale station and informed the owner, Mr. Rutherford, that his new station hand, Mr. F. Creber, was wanted urgently in Melbourne where his mother lay sick. Mr. Creber at once set out and arrived in Melbourne after a journey

of 2,000 miles in nine days. Mr. Creber had not seen his people for the last three years and had been working from station to station in the far north without keeping those at home informed of his whereabouts. When one looks at the map and realizes that this message was delivered at a distance equivalent to that of Italy from England and that there was no other possible hope in life for Mr. Creber's whereabouts becoming known to his relatives in such a wonderfully short space of time, one realizes the great boon that wireless has become to those who use it not only as an entertainment, but as a service to humanity.

### TRADE IN IRELAND.

From the official figures recently issued by the Ministry of Industry and Commerce of the Irish Free State, it is clear that there was a falling off last year in the demand for sets and apparatus in that country. The imports during the nine months ending with September last only attained a value of £34,964 as contrasted with £78,615 in the corresponding period of 1924.

All the imports, except £941 are credited as ports of shipment to Great Britain and Northern Ireland. Although the figures include goods intended for general electrical purposes, it may be mentioned that the nine months' imports of batteries and accumulators advanced from £17,111 to £22,163, and those of insulated wires and cables from £52,032 to £81,737.

### COMMERCIAL WIRELESS TELEPHONE IN OPERATION.

It may not be generally known that a practical automatic wireless telephone service is already in operation in the United States. The system is used between the Hawaiian Islands of Oahu and Lanai, which are separated by a distance of sixty miles, and has been in use for over a year.

Subscribers to the ordinary telephone system on both islands are able to communicate by wireless through the Honolulu station KYB and Lanai City station KRQ. The transmission is said to be perfect.

### NEW ZEALAND WITHOUT AERIAL.

Mr. D. B. S. Shannon, a Sutton Coalfield (England) experimenter, whose recent success in telephony transmission and reception without aerial or earth aroused considerable interest, claims to have communicated by Morse with New Zealand and Mexico, again dispensing with aerial or earth.

Mr. Shannon states that he used an input power of only 15 watts.



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**RADEX 199 VALVES**

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## ROUMANIAN WIRELESS AFFAIRS.

After the appearance of the radio regulations in July, 1925, it looked as though radio progress would proceed rapidly, and that, in Roumania, a numerous and enthusiastic community of radio amateurs would develop its activities. However, only to the most miserably disappointing degree have these expectations been fulfilled.

According to the Roumanian radio regulations, the exploitation of broadcasting remains an absolute State monopoly. A transmitting company can begin operations only with the permission of the State and under its supervision. Up to the present, however, no such regulated station has come into existence; a condition which does not permit the progress of radio to attain any force. The foreign stations are so far from our frontiers that they can be received only by means of expensive apparatus, and, so far, such cannot be procured to any extent. The difficulty of obtaining a permit for the use of a receiving set is also a contributory cause.

Until quite recently, there was absolutely not a single receiver in many of the districts in New Roumania. The "fifty kilometre zone" was another obstacle; that is a zone along the frontier, 50 kilometres wide, within which no receiving apparatus was permitted. The penalties for breach of the radio regulations are extraordinarily severe. For instance, anyone possessing a receiver without a license will be imprisoned for from six months to a year. The rules for aerial construction should be approximately coincident with those of other countries. The length of aerial must not be more than 50 metres, and the aerial must not be attached to trees or chimneys. Testing fees are imposed in specific districts, but the grading of the amounts does not compare equitably with the power of the apparatus; for instance, the test fee of a crystal detector is 50 lei. For a valve set up to three valve 200 lei, for more than 3 valves, 250 lei. Besides, the regulations show great omissions.

The experimenter is absolutely non-existent. There are no amateurs who could assist in the general extension of broadcasting. There is no inexpensive radio literature, which can indicate the most outstanding discoveries; those books which are obtainable there are so costly that very few can compass the purchase of even a single volume. There are no manufacturers, or at all events, far too few, and practically no radio laboratories and research institutes. Under such conditions there can be no real progress in radio.

If the State would give radio the opportunity for development, if the transmitting stations

would start up and hasten forward the progress, then radio might attain, in Roumania, its legitimate place.

## WORLD'S LARGEST RECEIVER. WIRELESS IN HOSPITALS.

The London Hospital has established a record, for it has the distinction of possessing what is claimed to be the world's largest broadcast receiver and upon this one thousand patients are able to listen-in at once. Naturally, the design and construction of such a receiver had to be given a great deal of thought and attention, but in spite of the complicated nature of the installation an ordinary tumbler switch controls the whole of the set and battery charging plant and the receiver is equally as easy to operate as a simple crystal set.

The whole of the apparatus is housed in an asbestos lined hut on the roof of the Hospital, and, with such a powerful receiver all that is necessary for an aerial is a small metal plate. Headphones are supplied to each of the 842 beds in the wards, and loud speakers provide entertainment to the kiddies in the children's wards. The system of recharging the batteries is very interesting. The whole process is controlled by automatic starting switches and when the receiver is switched off, the motor generators which are used for the purpose, start up. When the batteries are fully charged the automatic switches stop the generators.

The first portion of the receiver is built with parts contained in an Igranic six valve super-heterodyne outfit and is followed by a ten valve amplifier, making sixteen valves in all, the super-heterodyne circuit giving sensitivity, selectivity, and absolute reliability, and the manner in which the phone amplifier is connected to the headphones results in uniform volume of suitable strength right throughout the system.

What this broadcast receiver must mean to the hundreds of sick and suffering people can be imagined. The wonder and joy of the little children as the kindly porter touches the magic switch and the children's hour is announced, provides convincing evidence that radio is really materially assisting medical science to alleviate pain and suffering.

The complete installation was designed and presented to the London Hospital by the Igranic Electric Company in connection with the "Daily News" "Wireless for the Hospitals Fund" recently launched in London.





## New Season's Price List

### BIG REDUCTIONS FOR THE WINTER SEASON.

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	Cash Price.
2 VALVE SETS .. . . . .	£13 0 0
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### THE WONDER SET.

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The above Sets are complete with the following Accessories, viz.:—Radiotron Valves, Phones, A and B Batteries, and Aerial Equipment.

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