

# WIRELESS WEEKLY

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

transmission by post as a newspaper.

VOL. 7. No. 17.

FRIDAY, FEBRUARY 19, 1926.

# 3D

## MAGNAVOX



Outstanding  
Feature,  
Magnavox  
5 Valve Beta,  
One Control.



M3 Loud Speaker



Anti Noise Tubes

"Widely Known for Quality—Tone"—Magnavox  
Fullest Particulars. Prices on Application.  
D. T. HINCHEN,  
Direct Factory Representative  
Challis House, Sydney. Wholesale Only. Tel: B 5807.

FEATURE  
—  
The  
All-Australian  
Receiver

INSIST ON

# Carter Radio PRODUCTS

STANDARD

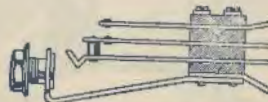
Your dealer will be glad to show you the new Carter Line. Every Jack, Rheostat, Potentiometer or Switch is of the finest quality and is not equalled anywhere at the price this line is offered.

### CARTER RECEPTACLE JACK



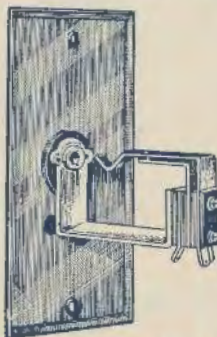
Carter Hold-Tite Jack, No. 101.  
One Spring, open circuit.

Retail Price, 4/9.



Carter Hold-Tite Jack, No. 103.  
Three Springs, one local make contact. Single filament control.

Retail Price, 6/3.

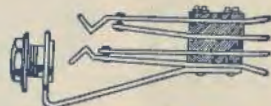


Compact radio outlet for buildings wired for radio service. Fits any standard radio plug.

Can be used on either series or parallel circuit. Provides effective way to ground the antenna when radio set is disconnected from antenna by removal of plug from this Jack. . .

Mounted on insulated 2 1/2 in. x 4 1/2 in. brush brass standard escutcheon plate; complete with "Radio" name plate and screws.

Retail Price, 8/3.



Carter Hold-Tite Jack, No. 104.  
Four Springs; breaks two contact. Double circuit.

Retail Price 7/-.



Carter Hold-Tite Jack, No. 105.  
Five Springs; opens two and closes one contact. Double filament control.

Retail Price, 7/9.

AT ALL DEALERS

## United Distributors Limited

(Wholesale Only)

72 Clarence Street, Sydney.  
345 Queen Street, Brisbane.

Cor. Jervois Quay and Harris Street,  
Wellington, N.Z.  
27 Chesser Street, Adelaide.

664 Bourke Street, Melbourne.  
28 Queen Street, Perth.

# COMPARED & ADJUDGED !

“ SUPREME IN EVERY TEST ”

## BRIGHT STAR Radio Batteries



**22 1/2 volt**  
**13/6**



**45 volt**  
**26/-**

DOUBLE DUTY

LONG LIFE

Manufactured by Creators of Quality

Sold by all Radio Houses of Quality

Distributed by Wholesalers of Quality

WHOLESALE

### International Radio Company Limited

200 Castlereagh St., Sydney

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



Trade Mark



Trade Mark

## ALWAYS FRESH—ALWAYS RELIABLE EVER-READY RADIO BATTERIES

These batteries are fresh daily—made in Australia by a new process which gives results well above the average. Only the finest materials are used, and used in such a way as to make the ideal battery.

ALL VOLTAGES. MANY TAPPINGS.

Note the economical pricing:

For Use with 1 and 2 Valve.		For Use with 2 to 5 Valve.	
WP 30 volt	9/6	XP 30 volt	18/-
WP 40 volt	12/6	XP 40 volt	21/-
WP 60 volt	18/-	XP 60 volt	31/6

Prices quoted apply only in N.S.W.

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

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

"When it is realised that my wireless room is an extremely hot place, and that some of the batteries have been used in the high-power transmitter, it speaks highly of the quality of the batteries, and I am more than satisfied with the service they have given."

Obtainable from all up-to-date dealers.

If unobtainable locally, write for address of nearest source of supply.

# EVER-READY CO. (Gt. Britain) LTD.

763 PITT STREET—SYDNEY

# After - Sale Bargains

Goods to be Offered for

## LESS THAN SALE PRICES

	each		each
Mullard Ora Valves Detector . . . . .	4/8	Crystal Detector complete with Cup and 4 N.P. Terminals . . . . .	11d.
Mullard Ora Valves Rde. Freq. Amp. . . . .	4/8	Crystal Detector, Mounted, with Crystal. . . . .	1/6
Cosser Valves . . . . .	6/6	Switches, best make . . . . .	7d.
Audio Frequency Transformer . . . . .	7/9	Single Slide Crystal Set, complete with N.H.M. Galena . . . . .	7/6
6 Ohm Vernier Igranite Rheostat . . . . .	3/6	Condenser, Fixed, .0005 . . . . .	9d.
3 Ohm Remler Rheostat . . . . .	1/6	Condenser, Fixed, .00025 . . . . .	9d.
6 Ohm Remler Rheostat . . . . .	1/9	Coil Holders, from . . . . .	8d.
2 Coil Holder Cam Vernier . . . . .	4/6	Remler 1 stage Amplifier, complete with DV3 De Forest Valve, 60v. H.T. Battery and 3v. "A" Battery . . . . .	£2/19/6
Rheostat Dials . . . . .	9d.	Phone Attachment . . . . .	5/6
Marco Low-Loss 3 Coil Holder . . . . .	12/6	3/20 Aerial Wire, 100ft. . . . .	2/3
3 Coil Cam Vernier Holder . . . . .	11/3	1/14 Copper Weld, 100ft. . . . .	2/9
Airway Variometer, Wood . . . . .	7/-	1/18 Enamel, 100ft. . . . .	1/9
Airway Variometer, Moulded . . . . .	11/6		
Marco, 5, 7, 9 & 11 Point Switches . . . . .	3/6		
Atlas Speakers . . . . .	£2/17/6		
Atlas Gramophone Attachment . . . . .	£1/12/6		
Baldwin Speaker Unit . . . . .	£1/9/6		

We have one of the most assorted stocks of any Radio House in Australia, and comprise:—

GEO VALVES  
MARCONI VALVES  
PHILLIPS VALVES  
RADIOTRON VALVES  
COSSAR VALVES  
MULLARD VALVES  
TRUE BLUE VALVES  
DE FOREST VALVES  
AMPLION VALVES  
BROWN'S SPEAKERS  
TRIMM SPEAKERS

A.W.A. PRODUCTS  
IGRANITE PRODUCTS  
EVER-READY BATTERIES  
NATIONAL CARBON BATTERIES  
DIAMOND BATTERIES  
HELLISEN'S BATTERIES  
ALAN BRADLEY PRODUCTS  
DUBILIER PRODUCTS  
ELECTRAD PRODUCTS  
HEATH PRODUCTS

GRODAN PRODUCTS  
RADIOAKES PRODUCTS  
EMMOO PRODUCTS  
CAV ACCUMULATORS  
EXIDE ACCUMULATORS  
ORMOND CONDENSERS  
JEFFERSON TRANSFORMERS  
GECO PRODUCTS  
SIGNAL TRANSFORMERS  
ALL AMERICAN

For prices refer to Wireless Weekly Advertisements



# COLVILLE-MOORE

## WIRELESS SUPPLIES, LIMITED.

10 ROWE STREET (NEXT HOTEL AUSTRALIA) SYDNEY

# BRANDES

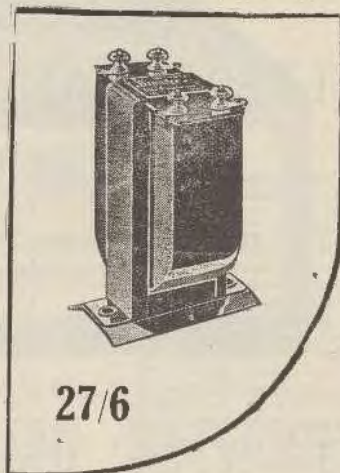
## THE NAME TO KNOW IN RADIO



### BRANDES MATCHED TONE HEADPHONES

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

30/- pair.



### BRANDES AUDIO TRANSFORMER

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

27/6 each.

FOR SALE BY ALL REPUTABLE DEALERS.

## INTERNATIONAL RADIO COMPANY, LTD.

200 Castlereagh Street, Sydney.

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



# WIRELESS WEEKLY

Published by Publicity Press Ltd., 12/18 Regent St., Sydney, Australia.  
Phones: Redfern 964 and 955.

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

Managing Editor: E. C. MUMFORD.

Editor: A. W. WATT. Technical Editor: C. W. SLADE.

Advertising Manager: J. T. REEDIE.

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

Subscription Rates.—Twelve months (62 issues), 12/6, post free. Six months (26 issues) 6/6, post free. Single Copies 3d. each, or post free 4d.

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

"Questions and Answers." All requests by non-subscribers calling for technical advice or drawings MUST be accompanied by postal note or stamps to the value of 1/6. A maximum of four questions is allowed. Agents in Great Britain.—The Colonial Technical Press Ltd., Dudley House, Southampton Street, Strand, W.C. 2.

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

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

## CONTENTS

	Page
A 3 Valve Receiver specially designed to suit Australian Conditions . . . . .	7
On the Air . . . . .	19
Amongst the Traders . . . . .	29
From Here and There . . . . .	31
Wireless Institute . . . . .	33
Club Notes . . . . .	33
Broadcasting . . . . .	37

### SETS FOR AUSTRALIAN CONDITIONS.

From time to time query letters reach us from readers containing extracts such as this: "I made up a set from an English (or American) wireless journal but results are not up to expectations." Then follows details of the circuit, and a list of queries as to the why and wherefore of poor reception.

Now we have no wish to "knock" any of those excellent journals published by our friends in America or England—the articles they publish are invariably good—but, bear this important fact in mind, they are written to deal particularly with the wireless conditions prevailing in the countries in which those journals are brought out.

For instance, comparing conditions in England with those of Australia, a perusal of the periodicals published over there shows that the designers of the circuits featured usually recommend two stages of radio to receive broadcasting over distances which in Australia could be—and are—covered with a single regenerative valve circuit. The reason for this lies in the fact that the range of Australian broadcasting stations compared on a power

basis with those of Great Britain is infinitely greater. All boiled down, it's a question of "miles per watt," with the balance heavily in favour of Australia. It is not the purpose of this article to discuss the technical aspects of this condition of affairs—the fact remains that it IS so, and that a person making up a set from a description published in an English journal may quite possibly be constructing something utterly unsuitable for Australia.

In America, the band of broadcast wavelengths does not extend above 600 metres, so obviously the average home constructed receiver would be useless in this country.

You cannot go wrong when building receivers described in "Wireless Weekly" because every set featured is first built and tested out on Australian broadcasting. Unless a set is absolutely suitable for Australia, a description of it will not appear in this paper.

In this issue appears a description of a receiver specially designed for our broadcast wavelengths and we recommend it to readers with the full assurance that it will do what is claimed for it.

A. W. WATT.

**IT'S LOOP  
OPERATED**



**THE NEW  
BURGINPHONE  
SUPER EIGHT**

An eight valve loop operated receiver having unexcelled distance getting ability together with unrivalled quality of TONE.

Wonderfully simple to operate.

LET US SHOW YOU HOW.

Radio Repairs of all descriptions. Headphones rewound, etc.

Sole manufacturers, Burginphone Wireless receivers

**Burgin Electric Co. Ltd.**

**340 Kent Street, Sydney**

Box 734, G.P.O.

Telephones: City 141, City 9886 and M 3069.

**THE FAMOUS HOUSE OF BURNDIPT**  
**Presents Two New Products**

63 Stations on the Loud Speaker and Loop Aerial with the

**ETHODYNE**

**7-Valve Super-Heterodyne**

— and —

**Burndipt British Super Valves**

**For all Purposes, from 10/6**

All Sets, Components and Accessories fully guaranteed  
Write, Phone or Call for particulars and demonstration

Broughton House  
TEL: M 3732

**BURNDIPT**

Australasia Limited

181 Clarence Street,  
Sydney



## A Three Valve Receiver specially designed to suit Australian Conditions

By "Wireless Weekly"

Reports from readers of "Wireless Weekly" and "Radio" prove conclusively that the back of panel views pictorially represented are very much appreciated. The constructional details to be described in this article are explained in such a simple way that we are certain any reader whether he has a knowledge of radio or not, will be able to construct and operate this very efficient receiver without any trouble whatever. Those who are more advanced will realise that the detailed instructions which are given here are not so much extraneous matter but necessary explanations for the beginner.

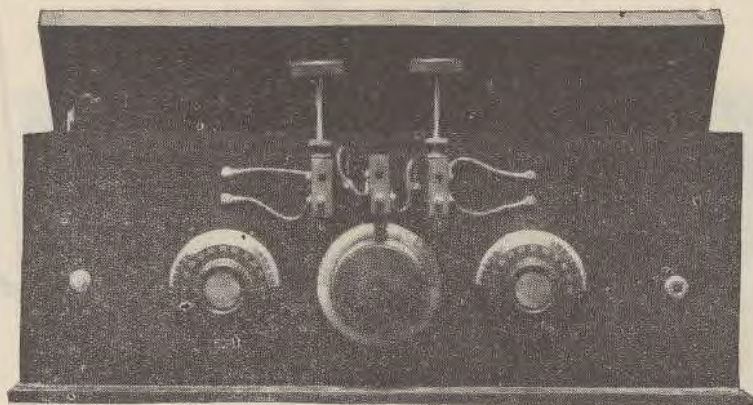
It is appreciated that, with the nearest radio authority perhaps fifty or 100 miles away, the country broadcast listener is seriously handicapped but if the pictorial views of the wiring and layout of the receiver described here is copied wire for wire and connection for connection, the set will operate successfully as soon as the battery switch is made.

The actual illustrated receiver is capable of giving very excellent loud speaker results from the A class stations at a range of from 350 to 500 miles and is extremely simple to operate. Much

greater distances however, will be obtained consistently, under good conditions and with a little more efficiency in tuning. The receiver is reasonably selective and yet is operated by a comparatively small number of controls. Aperiodic aerial tuning is used so that the very short wavelength stations are as easily and efficiently tuned in as the present broadcasting wavelengths. This receiver is essentially suited for for Australian conditions.

Figs. 1, 2, and 3 show clearly the correct positions of the components and the following parts are necessary:

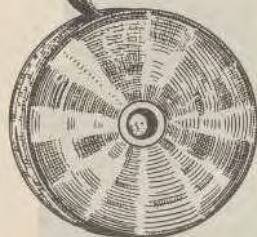
- 1 Radion or Bakelite panel 18 x 6½ x 3/16in.
  - 1 3-coil holder or 1 panel plug and coupling plugs.
  - 2 30 ohm rheostats (or rheostat to suit valves used).
  - 1 .001 variable condenser with vernier or with vernier dial.
  - 1 single circuit jack.
  - 4 Terminals (to take flexible connections from moving coil holders.)
  - 1 single pole switch.
- (All these are mounted on the panel in Fig. 1.)



Front view of panel. The condenser dials shown to the left and right of the uni-vernier dial are fixed to ordinary rheostat shafts. The order of coils, reading from left to right, is—ticker, secondary, and primary.

# TALKING TAPE

*The  
Perfect  
Radio  
Aerial*



**No Poles**

**No Insulation - No Lightning  
Arrestors**

**A Complete Aerial Equipment in One  
Piece for One Cheap Price**

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

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

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

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

**Ask your Dealer to show you this line**

**Retail Price 7/6 per 100 ft.**

**United Distributors Limited**

WHOLESALE ONLY

72 Clarence St.,  
Sydney.

343 Queen St.,  
Brisbane.

984 Bourke St.,  
Melbourne.

24 Queen St.,  
Perth.

27 Chesser St.,  
Adelaide.

Car. Jervois Quay and Harris St., Wellington, N.Z.

In addition you will require:

1 variable grid leak and condenser.

3 valve holders.

2 audio transformers.

1 .001 fixed condenser (across primary of first transformer).

1 baseboard 18 x 6 inches.

(These parts are shown in their respective positions on the baseboard layout in Fig. 2).

#### Method and Order of Construction.

These instructions should be most rigidly carried out:

First drill and mount the necessary parts on the panel, after which the valve holders, transformers and grid leak may be mounted on the base. Be sure that the relative positions of your components correspond with the positions shown in our Fig. 1 and 2.

Then, with your round nose pliers, side cutting pliers and 12 lengths of bus bar wire, you may commence to wire the components which you have already mounted on the radion panel. You will notice the various connections and others linked to them are numbered. You should follow these in their numerical order. No. 1 connects the two left hand connections of the rheostats and also follows on to one side of the filament battery switch. No. 2 and 3 connections link the variable condenser in parallel with the centre coil holder. Take particular notice that the fixed plate connection goes to the top and the moving plate con-

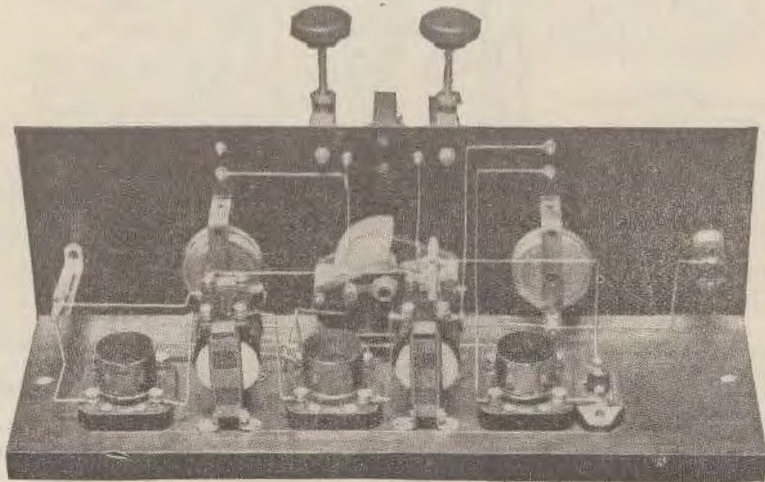
nection to the bottom terminal of the holder. Next link the two lower terminals of the first and second coils shown as No. 4. You may then put the panel on one side and commence wiring up the baseboard components, being careful that you copy exactly the connections shown in our drawing Fig. 2.

No. 5, connection is the first one to be fitted on to the baseboard components, and you will readily see that it links the two outside terminals of the first and third valve holder. No. 6 is a small link which is soldered to No. 5 and to the right hand terminal of the second valve holder. No. 7 links the remaining two F terminals to the second and third valve holder. You will probably notice that some of the American valve holders are marked -F and +F but don't be misled by this. Follow our connections exactly. No. 8 connects the -F of last transformer to the - of the C battery and No. 9 is a link taken from this to -F of the first transformer. Now you have four small connections -10, 11, 12, and 13 which are self explanatory from Fig. 2. You will notice that G of the valve goes to G of transformer and P of valve goes to P of transformer in each case.

#### Warning.

Where English transformers are used, the equivalent markings in lieu of P, +B, G and -F are: IP, OP, OS, IS, respectively.

After the 13th connection is completed the radion or bakelite panel and baseboard should next



*This is a clear view of the lay-out and wiring of the components.*

## DRY CELLS FOR EVERY PURPOSE

ALWAYS ASK FOR

# Diamond Radio Batteries

MORE THAN A MILLION SUPPLIED ANNUALLY.

TELEPHONE CELLS.

TELEGRAPH BATTERIES.

"Cost  
More  
To  
Build."



"Cost  
Less  
To  
Operate."

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

"Diamond Bat-  
teries make Good  
Sets Better."

Wireless A B & C Batteries

Produced Expressly for Radio Transmission Reception

Ignition Batteries

Wholesalers:  
AMALGAMATED WIRE-  
LESS (AUST.) LTD.  
NOTES BROS.  
E. A. SEGUR LTD.  
T. P. STEWART & CO.  
MARTIN DE LAUNAY LTD.  
HOLDSWORTH, MACPHER-  
SON & CO.

Retailers:  
ANTHONY HORDERNS'  
FARMERS LTD.  
GRACE BROS. LTD.  
E. R. CULLEN. HOWELL

Retail Price List	
BATTERY	
A	1 1/2 "Coil" 2/6
	1 1/2 "Boxer" Lamp 3/0
	1 1/2 "C'wealthtype" 5/6
	1 1/2 "Dominion" 4/6
1 1/2 "Navy Special" 3/0	
B	60 "Large Type" 15/0
	45 "Large Type" 26/0
C	4 1/2 "Bison" 2/9
	4 1/2 "1 1/2" Special 12/0
	6 0 "Ignite" 15/0

NOCK & KIRBY  
LASSETTERS LTD.  
EDWARD ARNOLD LTD.  
RADIO HOUSE  
COLVILLE-MOORE LTD.  
HAROLD HERBERT  
MISS WALLACE  
LEVENSON'S  
SLINGSBY & COLES LTD.  
MARK'S ELECTRICAL  
RADIO  
MICK SIMMONS LTD.  
MARK FOYS LTD.  
DAVID JONES.  
ECONOMIC RADIO CO.

All Leading Radio and Electrical Stores

Every Cell is Guaranteed.

Made by Australians, in Australia, for Australians.

Supplied to—

Postmaster-General's Department

New South Wales Government  
Railways and Departments

Factory Representatives:

**REG. ROSE & CO.**

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



1 1/2 Volt Boxer.  
High Amperage  
35 amps Sht. Circuit

Navy Department  
Public Works  
Water Board  
New South Wales Fire Bri-  
gades,  
Ordnance Stores etc.

Manufactured by

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

West Melbourne, Vict.

be firmly secured together and the remaining numbered in our Fig. 3 should be added. No. 14 nections which are shown in heavier lines and links the fixed plates of the variable condenser with the variable grid leak and condenser. No. 15 links the +C battery with the filament battery and the negative A connection. No. 16 and 17 are the reaction connections. Great care should be taken to see that the P of the valve holder is connected with the lower terminal of the tickler coil and that P of the transformer connects with the top connection of the tickler coil. If these two connections are reversed no regeneration will be obtained. No. 18 links the right hand side of the first rheostat with the left hand F terminal of the first valve holder. No. 19 links the second rheostat with the second and third valve and is

accumulator in the case where heavy consumption valves are used, but where the dry cell type of valves are employed, this may be replaced by three dry cells joined permanently in series. Viz., positive No. 1 to the negative of No. 2 and the positive of No. 2 to the negative of No. 3.

Care must be taken that all other battery connections correspond with the drawing. The +B terminal of the first transformer, you will notice, goes to the +22 volt tapping of the first "B" battery. You should carefully experiment with various voltages however, after you have the receiver working. The +B terminal of the second transformer however, should be permanently joined to the 90 volt terminal which is obtained by placing the two 45 volt batteries in series, viz., positive of No. 1 to the negative of No. 2. You

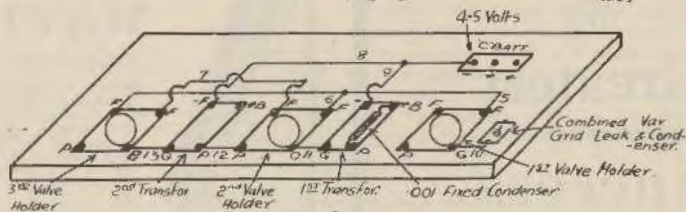
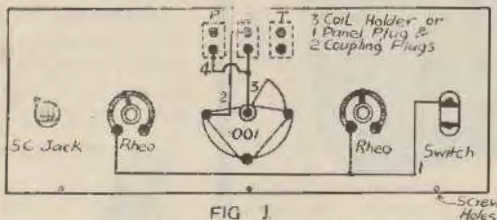


FIG 2.

soldered to No. 7. (See Fig. 2.) No. 20 links the top connection of the S.C. jack with the +B of the second audio transformer. No. 21 links the plate of the third valve to the lower lug of the jack and the final link No. 22 is taken from the moving plate connection to the +A bus bar which is shown as No. 5 in Fig. 2.

We have purposely refrained from numbering all the connections in the completed back of panel view, Fig. 3, so that readers will readily understand that those shown as numbered in this figure are the ones which must be added after the panel and baseboard have been secured together. This should act as an extra guide. The aerial and earth and battery leads must all be made of flexible connections a letter-box hole being cut in the back of the cabinet to allow them to pass through to the batteries, etc. The A battery is a six volt

must also note that the -B is coupled to +A. Now after checking and rechecking all your wiring and battery connections place in the necessary coils for the station you wish to receive, as per the table. Make the battery switch and plug in the phones for preliminary tuning. The dial settings for the various stations will soon be found, notes of which should be taken for future reference. Careful adjustments of the coupling of the primary and tickler coils is at all times very necessary to ensure purity with good volume. If the slightest amount of distortion is experienced, or if the set howls, the coupling of the tickler coil should be immediately decreased. With a little practice and patience, constructors will soon be familiar with the best methods of tuning.

Reference to the tuning coil table will readily show what size coils are suggested for the various



The  
**Greatest**  
 Success

Start Your Subscription with

No. 1

10/- PER ANNUM

**Radio Press Limited**

Bush House - Strand, London

### REACHING OUT.

The power behind 2BL's transmission is causing the station to be heard in various parts of the world. Recently letters were received from Pebble Beach, Montana County, California, and Regina, Canada, from two enthusiasts who have succeeded in obtaining the station at loud speaker strength. At California, jazz music transmitted by 2BL was heard to perfection and in sufficient volume to be danced to. The Canadian listener-in was able to give in correct sequence the names of half a dozen items as broadcasted, and the distance between Regina and Sydney is just over 10,000 miles.

### BROADCASTING AND THE BOOK TRADE.

In spite of predictions that the advent of broadcasting would seriously affect the sale of books, British publishers' records show that in 1925 more books were published than in any previous year.



The

## RAPINET

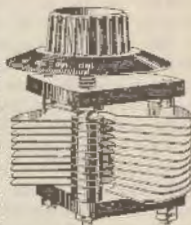
### Batteryless Fault-Finder

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, 2/6 each. Unmistakably printed 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" Specialties. From most dealers everywhere, or direct from us. Post free.



## RAPINET LIMITED

39-47 Grotton Road, Earlsfield, London, SW. 13

broadcast stations. It is advisable, however, to study well the short article "Coils used for tuning" published elsewhere in this issue. For the short wavelengths up to 400 metres, spider web coils will be found extremely efficient, the large gauge wire, 18 or 20 d.c.c. being used for the very small coils necessary for wavelengths up to 200 metres; and 24 to 26 gauge enamel wire should be used for all other sizes up to 75 turns. Be sure that all coils are mounted the same way—viz., either all of them with the outside end to the pin and inside end to the hole, or else all of them vice versa.

In conclusion we would like to point out that this receiver can be strongly recommended especially for beginners as it is very simply explained. If however, any difficulty is met with, we shall be glad to give any further advice required. Reports from readers constructing this set, giving details of reception will be appreciated.

#### COIL TABLE.

FOR USE WITH THIS RECEIVER.

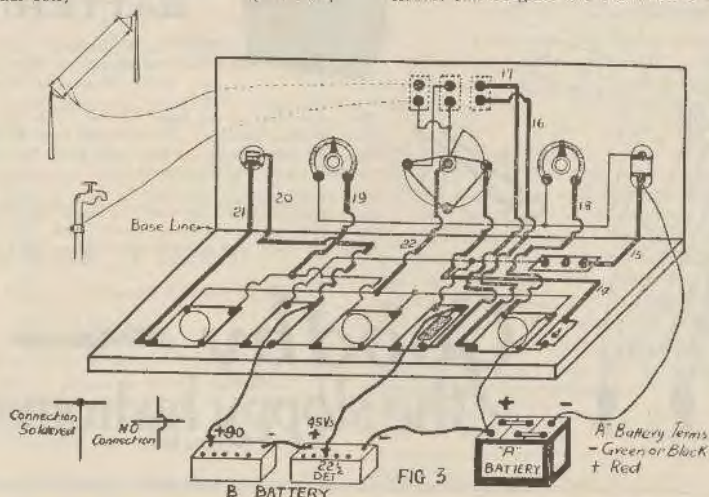
Station	Primary	Secondary	Tickler
(Aperiodic tuning)			
Wavelength up to 200	5	10, 20 or 30	10, 15 or 20
2WW	15	35	35 or 50
2KY	15	35	35 or 50
2BL	25	50	50 or 75
3LO	25	50	50 or 75
2FC	100	150	150 or 200
	(h.c. coil)		(h.c. coil)

#### COILS USED FOR TUNING.

"Wireless Weekly" is constantly replying to queries from our readers, who state that they receive 2BL and 2FC satisfactorily, but that their sets will not operate at all well on lower wavelengths.

Invariably the cause of this is due to the fault of the operator using too large a reaction coil. 95 per cent. of short wave troubles are caused through this mistake. Those of our readers who doubt this statement are requested to tune in some strong telephony from the near-by station using a large tickler coil. You will notice that as the value of the tuning condenser is reduced, the natural wavelength of the whole receiver is not decreased below a certain point which is determined by the size of the tickler. Now the point below which the reaction coupling has steadily to be increased to give maximum volume is the natural wavelength of the reaction coil.

No circuit can be expected to oscillate freely at a frequency higher than its natural frequency. Therefore the oscillations which are obtained a little below this point are forced and unstable and you find that as you still further decrease the value of the condenser no regeneration whatever is obtained. It must be remembered that although when we say that a set is oscillating, we really mean that it is generating oscillations of its own, yet the circuits of a receiver are oscillating when it is receiving signals, the oscillations being sustained by the distant transmitting station instead of the receiver. So for the same reason that a circuit cannot generate oscillations below the natur-



# BURGESS



**B**URGESS RADIO BATTERIES are used as standard in the U.S. Navy-Army and Air Force. The Canadian Government Railways use them also, and wherever excellence is needed, Burgess Radio Batteries will always be found. Coming nearer home we find them in use in a Sydney "A" Class Broadcasting Station, and this is what the Chief Engineer says: "Since installing Burgess Batteries I have reduced maintenance costs by half; in fact, they have already exceeded by 4 times the life we had been used to with the other types we had."

"A" Batteries, from 4/-

"B" Batteries, from 11/6

"C" Batteries, from 2/9



**PHILCO**  
DYNAMIC RADIO  
BATTERIES

Philco Radio Batteries have made an irresistible appeal to Australian Listeners. Why? Because an equal standard of excellence has never before been seen here.

The price, too, is not high; in fact, it is no more than that of other makes. "A" Batteries from £2/15/-; "B" Batteries from £2/14/-. Why not have the best when you can get it for those prices!

The Visible Charge Indicator is such a work saver, and there is no more messing with the sloppy Hydrometer. The V.C.I. will tell you quickly, clearly, and accurately everything you want to know about the state of the charge.

*Goodbye* —  
the sloppy hydrometer



al wavelength of either the grid or plate coils, it naturally cannot respond satisfactorily to a signal of a lower wavelength than that. This explains why the reaction coils take charge of the tuning as soon as the natural frequency of the grid circuit in the ordinary receiver is increased (i.e., its natural wavelength reduced) above the natural frequency of the plate circuit.

Remember then that the tickler coil must always be as small as possible to ensure that forced oscillations are not obtained. Many owners of good receivers do not realise how important this is, when they observe that below a certain wavelength they cannot obtain regeneration at all, they have not sufficient feed-back for the short waves. They, therefore, put in a larger reaction or tickler coil and so make matters worse.

Hence the policy should be that the smallest possible size tickler which will give only feeble regeneration should always be used.

#### REMARKABLE CRYSTAL RECEPTION.

Broadcaster (Sydney) Ltd. have received a letter from a broadcast listener in Coburg, Victoria, reporting reception of signals from 2BL on a small crystal set. On Sunday, January 31, between 10 and 10.15 a.m., he heard distinct signals from this station and the following phone: "3BL station calling. Wait a minute." And then: "There is too much interference; wait until 10 p.m. to-night." This reception is confirmed by 2BL.

#### RETURNED UNCLAIMED.

Recently we received a letter of inquiry from Mr. George Nash, Hood Street, Sherwood, and in replying to this address our letter was returned unclaimed.

WANTED.—All kinds Secondhand Wireless Sets Parts, Speakers, etc. Best prices given. JACK RAPKEN, 16 George Street West. MW 1241.

### GEORGE FIELD

297 Hunter Street, Newcastle (Phone 1185)

and at Hamilton.

Your mail orders despatched same day at lowest ruling prices. Write for lists.

THE LARGEST AND OLDEST RADIO SUPPLY HOUSE OF THE NORTH.

#### WHICH ANNOUNCER?

A neat compliment was paid to Broadcasting Station 2BL, Sydney, in a letter received lately from a listener at Warrandyte, Victoria. "One reason for the popularity of 2BL in this household" wrote the correspondent, "is the fact that you have the best announcer in Australia." "It is not that one can understand what he says better than what other announcers say, but because his voice is so friendly and has such an interested sound. Listeners get the feeling that he is talking especially to them personally."

It is alleged that a violent difference of opinion has arisen at 2BL between Uncle George and Uncle Jack, the well known announcers as to which is intended by the writer of the letter.

#### RADIO MARKET REPORTS.

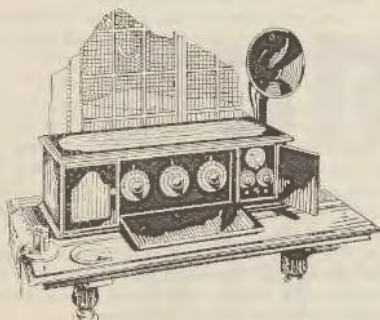
Correspondence received by Sydney Broadcasting Station 2FC has shown that the broadcasting of market reports has proved a boon to the man on the land. The prompt receipt of news concerning the state of the markets in Sydney is of great commercial value to the farmer and orchardist, and a request from Victoria last week gives further evidence of this. Victorian orchardists, who claim that they now supply over 70 per cent of the stone fruit sold in the Sydney Market, asked that reports in regard to the market in Sydney for Victorian fruits should be broadcasted. The request has been acceded to, and reports are being given at noon each day.

#### COUNTRY EXPERIMENTS.

Rockhampton hears Albury.

Radio enthusiasts in the country areas of N.S.W. are making their influence felt among "fans" and "hams" throughout Australia. Some of the keenest experimenters, indeed, have carried out their work without the natural advantages which metropolitan amateurs, such as those of Sydney, Melbourne, and Brisbane enjoy.

The latest report comes from Albury, where Mr. William Bullivant, Jun., who was recently granted a wireless transmitting license, under the call sign of 2WB, has received a card from an amateur in Rockhampton (Queensland), whose call is 4DO, stating that he had heard him experimenting on two occasions in November, but up till a week ago had not been able to obtain his address. Experiments are carried out at 10 p.m. each Sunday evening by 2WB, and irregularly at the same time on week nights. Mr. Bullivant states that any reports of reception of his station will be welcomed and acknowledged by card.



# A TRIUMPH!

**Champion Prize Awarded Gilfillan Neutrodyne at S.A.R. Radio Exhibition.**

Unequaled for Selectivity, Sensitivity and Volume

**QUALITY Sells Gilfillan Parts**

SOUTH AUSTRALIAN RAILWAYS INSTITUTE.  
*Wireless* SECTION.

## CHAMPION PRIZE.

FOR *Five Valve Gilfillan Neutrodyne*

AWARDED TO

*Messrs Harrington's Ltd*

*B. Gilfillan* *S. Johnson*

Director Hon. Sec. Radio Section

Practical Radio Section *Wooler, Electrical Exhibition* 1925

[Block by courtesy S. A. Wireless Weekly]

**Build Your Own Neutrodyne Receiver**

We will show you how, and supply you with Diagrams, Panel Layout, Photographs and Instructions

**FREE ON REQUEST**

**Gilfillan Neutrodyne Receivers. Gilfillan Neutrodyne Kits. Gilfillan Radio Parts**

Obtainable from Leading Radio Dealers, or

# Harringtons LTD

**Wholesalers and Retailers  
Photo. and Radio Warehouses**

Sydney . . . . . 356 George Street  
Katoomba . . . . . Katoomba Street  
Melbourne . . . . . 268 Collins Street  
Brisbane . . . . . 93 Queen Street  
Adelaide . . . . . 10 Rundle Street  
Wellington, N.Z. . . . . 43 Willia St.  
Auckland, N.Z. . . . . 140 Queen St.

# Read this Carefully——!

SERVICE TO "WIRELESS WEEKLY"  
:: AND "RADIO" READERS ::

In conformity with those ideals of service which this paper has always endeavoured to live up to, we are glad to announce that we have now made special arrangements for giving a still better service to the radio public.

For one hour each day (between 11 and 12 o'clock), the personal services of our Technical Editor will be available in an advisory capacity, to any reader of "Wireless Weekly" or "Radio."

If you have any radio problems, little or big, bring them in to "Wireless Weekly" and talk them over with the Technical Editor who will only be too pleased to give you authoritative and reliable advice and assist you as far as he possibly can.

There is no fee of any kind for this service so don't hesitate to come in if you feel that we can help you.

Now as we realise that country readers, while in town, may find this hour between eleven and twelve somewhat inconvenient, they are at perfect liberty to telephone us at Red. 964 or 930 and we shall make a special appointment for them.

Don't fail to take advantage of the "Wireless Weekly" service.

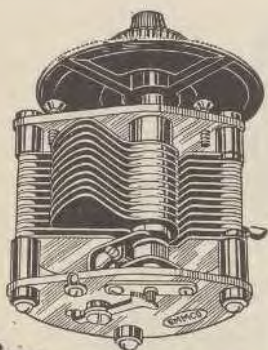
It is designed solely for your benefit.

## QUESTIONS AND ANSWERS.

In future, technical or other queries mailed to "Wireless Weekly" or "Radio" by direct subscribers to either of these papers, will be answered free of all charge, provided a stamp for return postage is enclosed. To readers other than subscribers, a fee of 1/- will still be charged.

## MORSE CODE LESSONS.

These will be recommenced shortly. A special announcement will be made next week.



Buy

**Emmco**  
RADIO PRODUCTS

## Emmco Radio Products

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

All Capacities with Direct Vernier.

Built like a Watch.

Most Minute Adjustment.

Absolute Insulation.

Grounded Rotor Metal End Plates.

Straight Line Wave Length. Square Law.

Most up-to-date Low Loss Condenser Made.

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

SEE THEM AT YOUR DEALERS

## Columbia 22½ Volt

"B" Battery No. 4766



**E**SPECIALLY adapted for use with soft detector tubes. Large size cells make it the most economical. Six Fahnestock spring clip connectors with a range of 16½ to 22½ volts.

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

Use only

## Columbia Radio Batteries

Made by the manufacturers of the Famous Columbia Dry Cell

# ON THE AIR

## HAWAIIAN MELODIES.

Mr. Reg. Harrison, a humorous entertainer of outstanding ability will make an appearance on Friday, February 19th. The Ahad Duo will present Hawaiian Melodies for which the listening-in public displays an insatiable appetite. The travelogue on this occasion will introduce the listeners-in to some of the joys and excitements of the Rivera.



The Ahad Duo—a distinctive couple handling ukuleles and steel guitars—are heard from 2BL regularly. They are very popular, and the demand for Hawaiian music seems to increase with each audition. Coming direct from Honolulu, this delightful couple have won the hearts of the listeners-in.

## BUSINESS TALKS.

On Thursday 18th, Mr. Frank Shepard's Dramatic Company present a sketch and at 9.30 Mr. Dally Watkins continues his series of business talks dealing on this occasion with the subject of Office Management and Staff Control. Miss Daisy Mangan and Mr. Norman Wright are also contributing artists.

## POPULARISING SCIENCE.

A group of young University Graduates fired



Mr. Roger Jones, baritone, who sings from 2BL.

with the spirit of youth and service are co-operating with Broadcasters in an endeavour to popularise scientific knowledge by presenting it in its most entertaining manner. A series of lectures are in course of preparation dealing with engineering and other matters and will be delivered at an early date. The romance of Bridge building and of engineering generally will be presented in such a way, that the listeners-in will be educated and thrilled simultaneously.

## TALKS ON WHITE ANTS.

Mr. David Andrew, who is one of the greatest authorities in Australia on Termites (White Ants), will deliver a series of talks covering the life history of these amazing creatures, dealing with their habits, colossal structures which they erect and the Life Cycle of their history generally, also, and this is perhaps of greatest importance, Mr. Andrew will deal with the question of their extermination.

## NITROGEN EXPLAINED.

Mr. A. T. Keeble, B.Sc., the Science Master of the Sydney Grammar School, returns to 2BL's programme on February 22nd, for a lecture on "Nitrogen from the air."

## PIANISTE OF DISTINCTION.

Miss Mary Charlton, pianiste, will appear on the programme of 2BL on February 23rd. Miss Charlton's work is marked by delicacy of touch and beauty of interpretation. She is a pianiste who is destined to go far. On the same programme there will appear Mr. Robert Turner, an entertainer of distinction.



# B.406

## A Revolution in Radio Reception!

Read what an Australian Radio Expert says about the B.406

### PHILIPS NEW WONDER VALVE

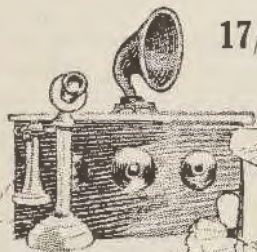
An unsolicited testimonial from a man who sells them:—

"We have to thank you for the prompt delivery of our order for Philips B.406 Valves. After testing six, selected haphazard, we feel compelled to let you know the amount of enthusiasm they have raised.

"We were considerably astonished to find that by using the B.406 on our standard 3 valve set, volume was raised about 30 per cent. over any other valve." But the writer's greatest satisfaction was the beautiful tone, for, in spite of the volume, both speech and music maintain a clarity that is astonishing, being devoid of all distortion. Of course, all valves have been tested in conjunction with high-grade apparatus, and therefore the comparison between the B.406 and other valves was a fair one.

17/6

Of All  
Dealers



**OPERATIC ITEMS.**

Mr. Andre Navarre, the distinguished baritone who has been achieving such a marked success in connection with the tour of Madame Elsa Stralia, is singing for 2BL on Tuesday, February 9th. On this occasion Mr. Navarre will present Operatic and other items from his repertoire and will be accompanied by Broadcasters' Trio.

**OLD TIME MINSTRELS.**

Wednesday, February 17th, will find Mr. Ward Lear and his delightful company of old time Minstrels presenting a mixed programme from the Studio of 2BL. While it cannot be said with any degree of certainty that radio has been responsible for the resuscitation of this type of entertainment it is an interesting fact that two of the Sydney Vaudeville Houses have both revived this form of entertainment following on its presentation to the vast audience of listeners-in. At the present time there is a demand for this type of entertainment which is being met. On the same evening Miss Margaret McKenzie will be heard in mezzo soprano numbers. An interesting feature of the programme of the 17th February, will be the first appearance of one of the greatest living authorities on "White Ants" in the person of Mr. David Andrew. Mr. Andrew has been engaged for many years in research work into the habits and life history of the terrimate and will unfold a fascinating story in a series of 4 lectorettes.

**A BROADCAST SKETCH.**

On Wednesday, February 24th, Miss Margaret McKenzie will sing mezzo soprano songs from her repertoire. Mr. Mayne Lynton and his charming and talented wife, Nancy Stewart have joined the ranks of Broadcasters Artists and will present a sketch on the evening of February 24th. As these two artists are each widely known in the theatrical world, their wireless re-appearance will be looked forward with considerable interest.

**TALKS ON HOLLYWOOD.**

Miss Helen Jean Beegling, a bright Australian girl who succeeded in pressing her personality on Americans to the extent of participating in the making of Moving Pictures at Hollywood and journalism in Los Angeles, made her debut as a wireless lecturer and added another success to her previous list. Miss Beegling is delivering a series of talks dealing with her experience as a Motion Picture Actress and also with the many distinguished Movie Stars with whom she came into contact.

**DRAMATIC ITEMS.**

Mr. Frank Shepard's Dramatic Company will present a sketch on February 25th, from the Studio

of 2BL. The fine work of this little band of artists continues to win the approval of all the listeners-in and their items are eagerly awaited. On the same programme, Miss Daisy Mangan, coloratura soprano will sing items, operatic and otherwise and Miss Alice Prowse, contralto will also be heard. Mr. Ward Lear's Minstrel Show continues to be a feature of the work of 2BL. The desire for Minstrel Shows continues to grow and many people have turned again to this old fashioned type of entertainment with infinite pleasure. To those who remember the Music Hall Shows of 25 or 30 years ago, many of the songs and jokes will be strangely familiar, while to those of the present generation, there is a decided novelty in this form of entertainment.

**SPORTING FEATURES.**

On Saturday, 20th February, the usual racing and sporting session in the afternoon from 2FC. A programme in the evening from the Crystal Palace Theatre. From the Studio — Mr. George Searle, comedian; Mr. David Craven, baritone. Miss Mabel Batchelor, soprano; and Miss Goodie Reeve, songs at the piano.

**EVER VERDANT JAZZ.**

A new Jazz Orchestra to provide syncopated music of tintinabulating tune for dancing feet is the True Blue Orchestra which will be put on the air for the first time on February 26th. Considerable curiosity exists in regard to this combination and those people who regularly dance to broadcast jazz will be keen to try out these artists.



Reg Harrison, very fine comedian, returns to 2BL.

# MICK SIMMONS' GENUINE SALE

Starts Friday, 12th inst.

All Lines not specially reduced are subject to a  
Special Discount

of 10 per cent.

(A few Proprietary Lines excepted).

## A FEW WIRELESS SPECIALS

### BAKELITE.

Cut to any desired size.

1/8in. . . . .  $\frac{1}{2}$ d. per square inch

3/16in. . . . .  $\frac{3}{4}$ d. per square inch

Less 10 per cent.

Bakelite Valve Sockets, 3/-, less 10 per cent. = 2/8

Poreclain Valve Sockets, 3/-, less 10 per cent. = 2/8

Cunningham Valves, Genuine 301A, 15/-, less 10  
per cent. = 13/6

Ultra Loud Speakers, 50/-, Specially Reduced to  
40/-, Less a further 10 per cent. = 36/-

Senior Manhattan Speakers, £8, Specially Reduced  
to £5

# Mick Simmons Ltd

THE WORLD'S GREATEST SPORTS STORE

Headquarters: HAYMARKET, SYDNEY

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

Your inspec-  
tion of the  
big display  
of  
everything  
that is new  
in the world  
of Wireless,  
is invited.

(Wireless -- Second  
Floor)

Anthony Hordern & Sons  
Limited,

Brickfield Hill, Sydney

Phone CI y 94 . . . . . Box 2713 G.P.O.






---

**THE AMBASSADORS' BAND, A  
REGULAR FEATURE FROM 2RL.**

*Left to right—Benny Abrahams, drums; Abe Romain, saxes (2), violin, clarinet; Claude McGlenn, violin, sax; leader, A. L. Hammitt violin, saxes (2), clarinet; Ormy Wills, Sousaphone, string, bass; William Bastin, banjo, piano; Billy Doyle, piano; Lenny Niyen, trumpet, saxophone; Harry Griffiths, trombone, saxophone.*

---

### CHEERO GIRLS AGAIN.

On Saturday, February 20th, a full programme by the Cheero Girls which will be performed at St. James' Hall will be broadcast. These delightful artists who have been working together for more than ten years and during which period have succeeded in extracting from the pockets of the public, no less a sum than £35,000 for charities, have made a profound impression on the listening-in audience. They include, Miss Edith Dickerson in Songs at the Piano, Mrs. Bennett White, Miss Dorrie Ward, mezzo soprano, Miss Edith Angel, Miss Grace Harris and Miss Molly Raynor.

### CHURCH SERVICES.

On Sunday, February 21st, there will be broadcast 2 Church Services from the Newtown Congregational Church, of which the Rev. Mearns Massey is the incumbent. The morning Service is entirely in the nature of a Children's Service and is one of the most attractive services of its kind at present being placed on the air. With the exception of the minister, practically all who participate are little children and their delightfully fresh young voices are heard not only in congregational singing but also in solos and duets. The night Service is the regular worship of the Congregational Church and as Mr. Massey is an exceedingly virile preacher, his addresses are invariably interesting, while the nature of the service appeals to many people. Following the Church Service at night, there will be a Studio Concert at which will appear Mr. Norman Wright, tenor, and Mr. Andre Navarre, baritone. There

will be the usual afternoon concert from the Studio.

### A SKETCH PROMISED.

A delightful sketch presented by two charming young artists in the person of Miss Tot London and Mr. Ken. Brown will be a feature of 2RL's programme on Monday, 22nd inst., and on the same programme there will be heard three fine artists in the persons of Mr. Roger Jones, baritone; Madame Iva Clarke, contralto, and Miss Gladys Hart, soprano, all of whom are thoroughly well known to radio audiences.

### A NEW STAR.

Miss Madge Helmrich, sister of Miss Dorothy Helmrich, who has achieved so notable a success in London, is the possessor of an exceedingly beautiful voice and appears on Broadcasters' programme for the first time on March 1st. Miss Helmrich possesses a wide repertoire of songs, all of which possess a heart appeal and it is anticipated that she will rapidly sing her way into the affections of the listeners-in. Mr. Roger Jones, baritone and Miss Mary Charlton, pianiste, appear on the same programme.

### THE BEST RADIO VOICE.

Miss Harriet Bennet, the new prima donna of the Royal Comic Opera Company at present playing in "Lilac Time" at the Theatre Royal, Melbourne, was said by the superintendent of the immense broadcasting station maintained by the Westinghouse Co. at Newark, N.J., to have the best radio

*(Continued on Page 27)*

## Ever Ready Radio Batteries

are manufactured from the finest materials obtainable. Owing to the exceptional life span for "EVER-READY" B Batteries we have now a fresh stock arriving from the factory almost daily, and all Batteries are tested on a special testing instrument before dispatch.



Illustration of No. 115 4.5 V. B. Battery.

Small Size Ever-Ready Battery is supplied with Wonder Plug

### Small Size

W.P., 30v.	8/6
W.P., 40v.	12/6
W.P., 60v.	18/-

### Large Size

X.P., 30v.	16/-
X.P., 40v.	21/-
X.P., 60v.	31/6

Superheterodyne Transformers. Rembar. 45,000 Cycle Superheterodyne Kit. 18/10/- per Set of 5.



Illustration of No. 115 4.5 V. B. Battery. (General Stocks of all types of Ever-Ready Tapes and Batteries.)

No. 115, 4.5V. B. Battery. 12.5 Ah. 30 min. discharge. 12.5 Ah. 30 min. discharge. 12.5 Ah. 30 min. discharge. 12.5 Ah. 30 min. discharge.

Ever-Ready B. Battery. 4.5V. 12.5 Ah. 30 min. discharge. 12.5 Ah. 30 min. discharge. 12.5 Ah. 30 min. discharge. 12.5 Ah. 30 min. discharge.

## Tested Before Delivery

Each Valve is tested and carefully packed by experts before despatch. Furthermore, all Valves sold by us are true to label and not equivalents.

Bullfinch 1V2015, 4 valve, 21	12/6
2100, A. 10p	12/6
Bullfinch 1V2016, 4 valve, 21	12/6
2100, B. 10p	12/6
Bullfinch 2012, 4 valve, 21	12/6
2100, C. 10p	12/6
Bullfinch 2013, 4 valve, 21	12/6
2100, D. 10p	12/6
Bullfinch 2014, 4 valve, 21	12/6
2100, E. 10p	12/6
Bullfinch 2015, 4 valve, 21	12/6
2100, F. 10p	12/6
Bullfinch 2016, 4 valve, 21	12/6
2100, G. 10p	12/6
Bullfinch 2017, 4 valve, 21	12/6
2100, H. 10p	12/6
Bullfinch 2018, 4 valve, 21	12/6
2100, I. 10p	12/6
Bullfinch 2019, 4 valve, 21	12/6
2100, J. 10p	12/6
Bullfinch 2020, 4 valve, 21	12/6
2100, K. 10p	12/6
Bullfinch 2021, 4 valve, 21	12/6
2100, L. 10p	12/6
Bullfinch 2022, 4 valve, 21	12/6
2100, M. 10p	12/6
Bullfinch 2023, 4 valve, 21	12/6
2100, N. 10p	12/6
Bullfinch 2024, 4 valve, 21	12/6
2100, O. 10p	12/6
Bullfinch 2025, 4 valve, 21	12/6
2100, P. 10p	12/6
Bullfinch 2026, 4 valve, 21	12/6
2100, Q. 10p	12/6
Bullfinch 2027, 4 valve, 21	12/6
2100, R. 10p	12/6
Bullfinch 2028, 4 valve, 21	12/6
2100, S. 10p	12/6
Bullfinch 2029, 4 valve, 21	12/6
2100, T. 10p	12/6
Bullfinch 2030, 4 valve, 21	12/6
2100, U. 10p	12/6
Bullfinch 2031, 4 valve, 21	12/6
2100, V. 10p	12/6
Bullfinch 2032, 4 valve, 21	12/6
2100, W. 10p	12/6
Bullfinch 2033, 4 valve, 21	12/6
2100, X. 10p	12/6
Bullfinch 2034, 4 valve, 21	12/6
2100, Y. 10p	12/6
Bullfinch 2035, 4 valve, 21	12/6
2100, Z. 10p	12/6



Radiotron 1V2015, 4 valve, 21	12/6
2100, A. 10p	12/6
Radiotron 1V2016, 4 valve, 21	12/6
2100, B. 10p	12/6
Radiotron 2012, 4 valve, 21	12/6
2100, C. 10p	12/6
Radiotron 2013, 4 valve, 21	12/6
2100, D. 10p	12/6
Radiotron 2014, 4 valve, 21	12/6
2100, E. 10p	12/6
Radiotron 2015, 4 valve, 21	12/6
2100, F. 10p	12/6
Radiotron 2016, 4 valve, 21	12/6
2100, G. 10p	12/6
Radiotron 2017, 4 valve, 21	12/6
2100, H. 10p	12/6
Radiotron 2018, 4 valve, 21	12/6
2100, I. 10p	12/6
Radiotron 2019, 4 valve, 21	12/6
2100, J. 10p	12/6
Radiotron 2020, 4 valve, 21	12/6
2100, K. 10p	12/6
Radiotron 2021, 4 valve, 21	12/6
2100, L. 10p	12/6
Radiotron 2022, 4 valve, 21	12/6
2100, M. 10p	12/6
Radiotron 2023, 4 valve, 21	12/6
2100, N. 10p	12/6
Radiotron 2024, 4 valve, 21	12/6
2100, O. 10p	12/6
Radiotron 2025, 4 valve, 21	12/6
2100, P. 10p	12/6
Radiotron 2026, 4 valve, 21	12/6
2100, Q. 10p	12/6
Radiotron 2027, 4 valve, 21	12/6
2100, R. 10p	12/6
Radiotron 2028, 4 valve, 21	12/6
2100, S. 10p	12/6
Radiotron 2029, 4 valve, 21	12/6
2100, T. 10p	12/6
Radiotron 2030, 4 valve, 21	12/6
2100, U. 10p	12/6
Radiotron 2031, 4 valve, 21	12/6
2100, V. 10p	12/6
Radiotron 2032, 4 valve, 21	12/6
2100, W. 10p	12/6
Radiotron 2033, 4 valve, 21	12/6
2100, X. 10p	12/6
Radiotron 2034, 4 valve, 21	12/6
2100, Y. 10p	12/6
Radiotron 2035, 4 valve, 21	12/6
2100, Z. 10p	12/6

A. 10p signifies the American Type Socket. B. 10p signifies the British Type Socket.

C. 10p signifies the British Type Socket. D. 10p signifies the British Type Socket.

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 and have your money refunded. We will also exchange for exactly what you want, or we will refund your money.

OUR MAIL ORDER DEPARTMENT: At Wile's Stores, in order to save you the trouble of waiting for a Mail Order Parcel, which involves prompt despatch, careful attention to packing, and all details, necessarily the use of airmail. Mail Order Service: We despatch within 24 hours. Make us better your order!

We use airmail throughout N.S.W. on all Radio goods other than Accessories, Coils, Resistor Sets, Batteries, Lamp Sockets, Bulbs and Publications, Valves, Cables and Wiring Kits, and goods sent by V.P. Parcel Post.

MAIL ORDER DEPARTMENT: 20 COLLEGE STREET, SYDNEY.

# WILE'S WONDERFUL WIRELESS and ELECTRICAL STORES

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

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

Branch,  
11 Pitt Street,  
(near Circular Quay).

## About Variable Condensers

Capacity effects and dielectric losses in a Condenser are directly traceable to end plates of insulating material. Such end plates also markedly increase equivalent series resistance. Most listeners-in are looking for distance, and spend money on new circuits which will never give distance with cheap condensers. The latest and most efficient strictly Low-Loss Condenser which will bring in distant stations is now available. In this Condenser the customary end plates are displaced with sturdy aluminium end plates, into which small solid pieces of hard rubber are forced, forming the insulation of the rotor from the stator plates. Grounding these end plates entirely eliminates "leakage" and any need for shielding. The metal end plates in this Condenser entirely prevents the warping, and consequently dis-alignment of plates common in Condensers using end plates of insulating material. Stator and Rotor Plates Spacing, supports and end plates are made practically all one rigid, non-warping piece of metal. Every element that could possibly decrease the efficiency of a Condenser at any time has been completely overcome in this new Condenser.

Before a single Condenser was placed on the market, it was submitted to leading testing laboratories for impartial analysis. Their findings placed it at the very peak of Condenser perfection. The New York Testing Laboratories found an equivalent series resistance of only 0.1 ohm and a phase difference of less than one minute.

The name of this Strictly Low-Loss "distance-getter" is the "Heath Non-dielectric Condenser." It is stocked by most Radio Stores, and the Sole Agents, Parsons & Whittemore Ltd., 30 Market Street, Sydney. Three local makers have, after exhaustive tests, adopted the "Heath" for the best sets. It is priced with geared vernier at .001, 35/6; .0005, 30/-; .00025, 27/-; Plain, 7/- less (.00035 Plain, 25/6). Dials, 3in., 4in., 5/- extra.

ADVT.

## Wireless Bargains

*Only two days left  
to purchase these.*

Sets and accessories are selling for absurd prices, many below a quarter of the original price. Buy while the stocks last.

### PHILLIPS VALVES

"DV." Usually 7/- . Sale Price, each, 5/-  
"DV1." Usually 7/- . Sale Price, each, 5/-

### JACKS

200 K & C open and closed Circuit Jacks.  
Usually they cost 4/3. Sale Price .. 1/-

### VARIOCOUPERS & VARIOMETERS

Amrad. Usually, 32/6. Sale .. 7/6  
Remler. Usually, 48/- . Sale .. 11/6  
Remler with panel, 60/- . Sale .. 15/-

### VARIABLE CONDENSERS

Master .001. Usually, 32/6. Sale, 7/6  
Walmart .001 Vernier, 40/- . Sale .. 15/-  
K. & C. .001. Usually, 30/- . Sale, 15/-  
K. & C. plate Vernier, 35/- . Sale, 15/-  
Master II. Usually, 35/- . Sale .. 7/6

### COUPLING PLUGS

Remler No. 43. 5/9. Sale .. 2/3

Radio Dept., 22 York Street.

## DAVID JONES' SALE

*Less 2/- in the £ for cash.*

*Continued from page 23*

voice ever tested. Listeners in to 3LO, Melbourne, have had opportunities of judging Miss Bennet's ability as several parts of "Lilac Time" have been broadcast, and she herself has talked into the microphone for the benefit of listeners in.



*Miss Bennet.*



*Miss Marie Churlton, a favourite from 2BL.*

### THE THEATRE.

The first act of "Katja" will be given from Her Majesty's Theatre (by permission of J. C. Williamson Limited) by 2FC on Friday, Feb. 19. From the Studio, Raine & Powell, English Harmony Duo, with their Dulciphone. A Record Review. Mr. Harold Tollemasche, baritone. A talk on Aborigines. A film talk. Mr. F. W. Jackson of the Sydney Grammar School who has recently returned from a tour abroad will describe "Paris Plays and Theatres."

### ST. ANDREW'S.

On Sunday, 21st February, 2FC will broadcast the Morning service from St. Andrew's Cathedral, preacher—The Dean of Sydney. Afternoon service from the Lyceum Hall on the occasion of Harvest Festival at which a special programme has been arranged. The evening service will also be taken from the Lyceum Hall — Harvest Festival programme. At 8.15 from the Prince Edward Theatre will be broadcast a special programme in connection with the first presentation of the new picture story, "The Iron Horse." The musical score will be conducted by Mr. Will Prior who will have the assistance of an orchestra, the Orchestral Organ played by Mr. Leslie Harvey; and other well known artists. The story of the picture will be given by Mr. Walter Hunt and vocal effects will be supplied by a Male Quartette.

### SPECIAL SESSION FOR THE FARMER.

When transmission commences at the new station at 4QG, a special session will be included in the ordinary programme for the farmer and men out back. This is partly a plan of the Queensland Government, whose many actions towards the betterment of the conditions of those out back have been thanked by those concerned, and this move to establish a session for their use should also be observed.

### SOME SET!

A reader in Rockhampton, Queensland, reports that he has had excellent results with his three valve set which is of the well known P-one circuit with a few slight improvements. Every broadcasting station with the exception of 6WF is received at such good loud speaker strength that they are audible at 200 yards from the speaker. Our correspondent who signs himself "Loud Speaker" says that 3LO, Melbourne comes through with great punch at Rockhampton. These results certainly speak volumes for the efficiency of the P-one.

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

# 'It's Too Cheap'

## "It Can't Be Any Good"

These are the phrases we hear some folks say regarding our goods.  
Our advice is:

"ASK OUR OWN CUSTOMERS."

	£	s.	d.
RADEX VALVES: 201A Standard. Nothing better . . . . .	0	9	9
CRESCENT AUDIO TRANSFORMERS: 6 to 1 . . . . .	0	13	6
CRESCENT PUSH PULL TRANSFORMERS: Per pair . . . . .	1	18	3
VALVE SOCKETS: 199 or 201A, each. . . . .	0	2	0
VALVE SOCKETS: Plain, 9d. Base Mounting . . . . .	0	1	3
LOW LOSS CONDENSERS: "Arteraft," 11-plate . . . . .	0	12	6
RHEOSTATS: Ormond, 10 ohms, each . . . . .	0	1	3
RHEOSTATS: "Ajax," 30 ohms, each. . . . .	0	2	3
POTENTIOMETERS: 400 ohms, each . . . . .	0	4	0
BUSWIRE: Timed Copper, Square, 2ft. lengths, doz. . . . .	0	0	11
FIXED CONDENSERS: .00025 and .001. . . . . 1s., 1s. 6d.,	0	2	3
NO LOSS CONDENSER: "Pyrex" Insulation, .0005 . . . . .	1	7	6
NO LOSS CONDENSER: "Pyrex" Insulation, Geared. . . . .	1	18	0
BATTERY CHARGERS: Philips "A" Battery Charger . . . . .	6	0	0
BATTERY CHARGERS: Philips "A" and "B" Charger . . . . .	6	17	6
BATTERY CHARGERS: Auto Type Charger . . . . .	8	10	0
MARSHALLSTATS: The Supreme Rheostat. . . . .	0	10	6
NEUTRODYNE KIT: 3 Wound Formers and 2 Neutrodons . . . . .	1	7	6
NEUTRODYNE KIT: 3 Wound Coils and Low Loss Condensers. . . . .	4	15	0

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

Don't forget to bring your RADIO PROBLEMS to "Insulator" Mr. W. L. Hamilton, every  
Friday evening at our Sydney Store

"Yours for lower prices."

**The ECONOMIC RADIO STORES**

28 Royal Arcade  
SYDNEY

569 Hunter St. West  
NEWCASTLE

Phone B 5891

Phone, Newcastle 1622

# AMONGST THE TRADERS

## NOVEL GRID CONDENSER.

An ingeniously constructed grid condenser has just been put on the Australian market by Messrs. Amalgamated Wireless (A'sia) Limited. This is the Electrad Certified Condenser, G.S. type. A feature is extending lugs which enable the condenser to be fitted directly to two adjacent sockets, thus making the wiring between the two valves unnecessary. As the condenser is fitted with grid leak clips, the whole arrangement can be made exceedingly compact. Additional soldering lugs are provided for use if required.

One special feature of Electrad Fixed Condensers is the "six pressure points":—

Ingenious riveting and binding method fastens parts securely at six different points and exerts even pressure upon the largest possible surface, so that they cannot loosen and change the value of the condenser.

Thin sheet copper is used in place of tin foil and a slip of the soldering iron cannot possibly melt or otherwise damage the copper and thereby ruin the condenser.

Scientific design insures perfect electrical contact always. The soldering lug and the binding strap are in one piece, so that neither can work loose from the other.

## A NEW VALVE.

The Economic Radio Stores have just landed an entirely new type of valve, similar to the standard 201A, which is known as the "Radex." This is quite new on the Australian market, and as it fits the standard American socket it should prove popular. The "Radex" is suitable for either detection or amplification purposes. It takes 5 volts on the filament, 20 to 100 on the plate and the filament amperage is .25. The "Radex" valve will also be available shortly in the 199 type, to fit the standard 199 socket. The filament voltage of this dull-emitter type is 3, filament amperage .06 and the plate voltage 20 to 80.

The valves sold at the Economic Stores are tested by an instrument known as the Jewell Tube Checker, which is especially designed for testing the characteristics of valves. It not only tests the filaments but indicates whether the valve is functioning exactly as it would when used in the receiver. Tests on this instrument show that the "Radex" valves are well above standard.

## WAVE TRAPS.

Colville Moore Wireless Supplies Ltd., are

showing an extremely neat make of wavemeter which has already deserved marked popularity in Sydney and which may be adapted to any receiver. This handy little instrument measures 6 x 8 x 7 inches, and the tuning control consists of a single knob in the centre of an attractive bakelite panel. At the top left hand corner of the panel is a switch which is used for cutting the wave trap in or out of circuit, without necessitating any change to the aerial connection. The instrument is attractively finished, and is very efficient.

## CRYSTAL DETECTOR.

Messrs. W. Harry Wiles have supplied us with a sample of a unique type of Crystal Detector known as the "Lion Micro." It is in the form of a Perikon Detector, the two crystals used being enclosed in glass to ensure freedom from dust and moisture, and all metal parts highly nickel plated finish. The combination of crystals used is Gillenham, a very rare mineral first discovered in South America in 1923. The other is a well-known silver crystal Tellurium. The detector is of the permanent type but should it so happen that an adjustment is at any time necessary, it simply means a slight turn of the micrometer adjusting screw.

Messrs. W. Harry Wiles claim most extraordinary results with this crystal, having received numerous letters of appreciation. One client living at Manly actually operates a Dragon Fly loud speaker off a single slide crystal set on one of the Sydney broadcast stations. This detector has previously been advertised in the columns of "Wireless Weekly" resulting in stocks being rapidly sold soon after arrival. A new shipment is to hand and stocks are arriving regularly.

## 2BL'S SHORT WAVE.

Station 2BL report that their experimental work in connection with the short wave length transmission has aroused general interest and obtained response from various parts of the world. On the first night of the short wave transmission it was picked up by an amateur station in the State of New York, close to New York City. Mr. Ray Allsop, 2BL's Engineer has been in touch with a number of amateur stations throughout Australia, New Zealand and America.

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

## RADIO on Easy Terms.

NO INTEREST.

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

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

OPEN ON FRIDAY NIGHT.

## Radio W'less Mfg. Co.

259 George Street,  
Opposite Hunter Street.  
B5747.

# HOWELL'S SALE & EXCHANGE

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

JEFFERSON STAR TRANSFORMERS	£ s. d.
7 Bakelite Engraved Terminals on Bakelite Base . . . . .	0 17 8
ADJUSTABLE SWITCH ARMS . . . . .	0 3 3
.0005 VERNIER CONDENSER . . . . .	0 0 9
.0005 Square Law Brass Plates, with Pigtail and Dial . . . . .	0 11 6
.001 Condenser, with Dial . . . . .	0 9 6
.0003 Condenser, Square Law Brass Plates, Pigtail & Dial . . . . .	0 9 0
Ormond, .001 Vernier, Square Law Bakelite Ends . . . . .	0 8 0
Ormond, .0005 Vernier, Square Law Bakelite Ends . . . . .	0 17 6
Ormond, .001 Vernier, Square Law Low Loss . . . . .	0 15 6
Ormond, .001 Square Law Low Loss . . . . .	0 17 6
Ormond, .0005 Square Law Low Loss, Vernier . . . . .	0 14 9
Ormond, .0005 Square Law Low Loss, Plain . . . . .	0 15 6
Ormond, .00025 Square Law Low Loss, Plain . . . . .	0 12 6
Egg Insulators . . . . .	dozen 0 6 6
Columbia No. 6 Cells . . . . .	0 2 6

HOW TO MAKE THE HOWELL REINARTZ STILL MORE  
SELECTIVE.

YOU CAN'T IMAGINE HOW GOOD IT REALLY IS.  
IF INTERESTED, CALL IN AND SEE US.

## 19 BARLOW STREET, SYDNEY

Open till 9.30 Friday Night

Phone MA 1133

## "WETLESS" Duo-Lateral Coils

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

Coil No.	Unmounted.	De-Luxe Mounted.
20 . . . . .	1/6	6/6
25 . . . . .	1/7	5/6
35 . . . . .	1/8	5/6
50 . . . . .	1/10	6/7
65 . . . . .	2/-	6/9
75 . . . . .	2/1	6/10
100 . . . . .	2/3	7/1
120 . . . . .	2/3	7/2
134 . . . . .	2/6	7/3
150 . . . . .	2/6	7/3
170 . . . . .	3/-	7/6
200 . . . . .	3/-	7/6
250 . . . . .	3/6	8/6

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

AUSTRALIAN MADE.

Manufacturer:

Phone: Kog. 1155.

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

## Wm. Lambert Hamilton

Radio Specialist

Bring your troubles to me.

What I will do for you.

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

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

I will answer any enquiries immediately.

My charges will be moderate.

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

I am at your service in any radio wants.

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

Phone: B4543.

Private address:

16a Ness Avenue,  
Dulwich Hill.

# FROM HERE AND THERE

---

---

## "BRUNETTE DOWNS" WIRELESS STATION NORTHERN TERRITORY.

A striking instance of the utility of wireless in inland areas was demonstrated in the case of "Brunette Downs" in less than a fortnight after the station had been erected.

Word was received at that station that Dr. Cook, Commonwealth Health Officer, was stranded on the Booraloola Road. He had made the trip from Darwin by the "Kinchela," and started from Booraloola by car. The car broke down, and the remainder of the journey was done on horseback. The horses knocked up by the time they reached Anthony's Lagoon. Apparently word of their dilemma reached south by Newcastle Waters Telegraph Office, and the Postmaster at Camooweal received a wire asking him to send a car to the doctor's assistance. The Postmaster thereupon communicated with the Brunette Downs Station by radio. The manager of the station immediately sent a car to Anthony's Lagoon, and returned with the Doctor to Brunette Downs the same day.

From Brunette Downs the Doctor sent a radiogram south that all was well, and also made arrangements by radio to book his passage by aeroplane from Camooweal the following Saturday.

## RADIO SAFEGUARD ON TRAINS.

A wireless device designed to check the speed of train engines automatically when approaching danger was tested recently in America over a ten-mile stretch of a certain railway. The inventor is Mr. Thomas E. Clark, of Detroit, who explains that the device depends on its operation on the propagation of electro magnetic waves in the track rails with varying wavelengths, which actuate a visual signal in the engine-cab. Should the train be occupying a block, the rest of the rail surface within that block becomes automatically demagnetised, and another train entering the block from the rear or front will receive the danger signal and an automatic application of the brakes. The preliminary tests are reported to have been successful, and it is stated the Michigan Central Railroad has equipped ten locomotives with the Clark device.

## A "BEAM" STATION.

The first commercial Marconi "beam" station is to commence operation almost immediately. The station has been erected at Montreal, Canada, and operates on the principle of concentrating in one direction all the radio waves it generates, instead of, as in the case of the ordinary trans-

mitter, spreading the waves out in all directions round it. The beam system has been tried experimentally and the operations of the Canadian commercial station will be watched with interest by the wireless world.

According to the contract with the British Government, the Canadian Marconi company has to guarantee a service of 100 words of five letters each a minute. It is stated that tests which have already been made have given a much higher rate. Such a speed is, of course, considerably above anything that an ordinary telegrapher can accomplish, so that automatic transmitters are necessary. The operator, by simply typing the message, transmits it in dots and dashes to a tape, and this tape, which runs through the transmitting machine, like a record through a player piano, makes the transmitter send out the corresponding signals. The speed of the transmitter is governed by the speed of the tape through the automatic transmitter. The corresponding symbols cut on the tape at the receiving end can either be read by operators, who transcribe them visually, or can be fed into a special typewriter, which prints the corresponding alphabetical characters.

The Canadian station has been erected for telegraphic transmission, but could, if necessary, be used also for radio telephony.

## MORSE CODE LESSONS.

---

The lessons in Morse Code to be conducted by Wireless Weekly from station 2WW will be commenced on Tuesday, February 23rd, at 7.30 p.m. and will be continued every Thursday and Tuesday thereafter at that time.

The wavelength used will be 198 metres.

To enable listeners to tune in a series of dots will be sent on buzzer from 7.25 to 7.30 p.m.

Next week a special article will be published covering various aspects of these Morse Code lessons.



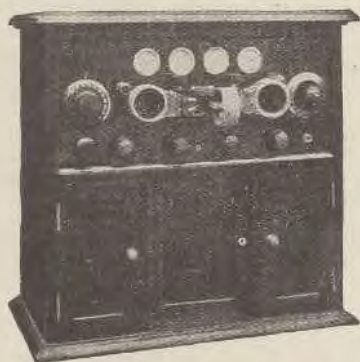
# A Real Radio Set at Last!

## 5 Valve Super Set - No Aerial or Earth

3LO Melbourne and 5CL Adelaide can be tuned-in on the Loop on the Loud Speaker.

We are now offering to the public this Set, complete, ready for use, on our remarkably easy terms system, at the very low price of £37/10/-.

A Child Can Tune It.



Terms :

# 10%

## Deposit

Balance Over Twelve Months

Come in and see it. Arrange a demonstration. We guarantee results.

503  
George  
Street,  
Sydney,



Opposite  
Crystal  
Palace  
Theatre.

WARRLES  
'Phone:  
City 870.

503 GEORGE ST.  
Opp. Crystal Palace  
Theatre

Sydney

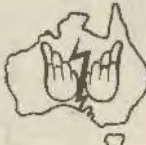
'Phone:  
City 870.

HEADQUARTERS  
Royal Society's House  
5 Elizabeth St  
SYDNEY, N.S.W.

# Wireless Institute of Australia

N.S.W. Div. Inc.

Incorporating the Affiliated Societies and The Australian Radio Relay League



W.L. Carter, Hon. Sec.  
Box 3120 G.P.O. Sydney  
Phone B2235  
A.H. Perrett, Publicity Officer

Commencing on 1st March, a new schedule for the transmission of the standard frequency signals will be put into operation. The following is the complete schedule of operations at 2W1 each week:—  
9.30 p.m.: Special information to experimenters and to members of the Institute and affiliated clubs. Short semi-

technical lectures and notices affecting the clubs and Institute members.

Transmission on phone on 100 metres, ending at 10 p.m.

10 p.m.: Standard frequency signals, on phone, 14'W, and 6'W.

Tuesday in Month.	Wavelength.	Code.	Frequency.
5th .....	20 metres	—	15,000,000 cycles
..	30 ..	—	10,000,000 ..
..	40 ..	—	7,500,000 ..
..	60 ..	—	5,000,000 ..
..	80 ..	—	3,750,000 ..
3rd .....	100 ..	—	3,000,000 ..
..	120 ..	—	2,500,000 ..
..	140 ..	—	2,144,000 ..
2nd .....	150 ..	—	1,875,000 ..
..	180 ..	—	1,667,000 ..
..	200 ..	—	1,500,000 ..
1st .....	220 ..	—	1,364,000 ..
..	240 ..	—	1,250,000 ..
..	260 ..	—	1,157,000 ..

Note.—When there are four Tuesdays in the month, the last two bands will be taken together. For kilo-cycle rating for wavelength is the frequency given divided by 1000.

Reports on the reception of these transmissions are asked for to be forwarded to the Secretary of the Institute.

It should be noted that until certain additional adjustments have been made to the transmitter it will not be possible to work on 20 and 40 metres, so that these signals may not be on the air at the end of March. Every effort will be made, however, to have these alterations completed in time.

## Round the Clubs

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

### SOUTH RANDWICK AND DISTRICT RADIO CLUB.\*

The last meeting was held at the club rooms on Monday, Feb. 8. An important discussion was held, and suggestions were put forward and received for consideration on the question of catering for the broadcast listener members of the club as well as the amateur experimenter. A special feature of the meeting was the period devoted to the answering of queries, and in this way quite a lot of instructive information was brought to light. The amateur operator's proficiency certificate and Morse classes also prove a very great success, and it is gratifying to see so much interest taken in this effort on the part of the club. A low loss short wave receiver was also demonstrated, showing how to obtain extreme sensitivity which is so necessary for ultra long distance reception.

The finances of the club are by a very satisfactory state, and the membership list of the club is steadily increasing. Those interested in adding their names to this list are invited to communicate with the Hon. Secretary, Mr. W. R. Hardy, 197 Maroubra Bay Road, South Kensington. All inquiries will be welcomed.

### BLACKWOOD RADIO CLUB (S.A.).

(Affiliated with the S.A. Div. of the Wireless Inst.)

The third annual meeting of the above club was held on Feb. 6, with the President, Mr. R. J. Lampe, in the chair.

After the minutes of the previous meeting were read and confirmed, two delegates were elected to attend the meeting of the Broadcast Listeners' League on Feb. 18, and

correspondence was dealt with. Two suggestions that a concert be held in Sturt and the proposed addition of two new rules were passed on to the committee for consideration.

The following members and their respective offices were elected for the ensuing 12 months:—President, Mr. R. J. Lampe; Vice-President, Mr. L. H. Griffiths, A.M.I.E. (Aust.); Secretary, Mr. O. K. Griffiths; Treasurer, Mr. K. D. Ragless; Delegate, Mr. J. Banyar; Pub. Officer, Mr. G. B. Ragless; Librarian, Mr. R. D. Ragless; Committee, Messrs. L. Maag, G. B. Ragless and J. Banyar, in addition to the Secretary, President, Vice-President, and Treasurer.

Reports of the progress of the club during the past year were entirely satisfactory financially and in all other respects. At the close of the meeting speeches were given, after which the club held its third annual dinner.

All inquiries addressed to the Secretary, Mr. O. K. Griffiths, Main Road, Blackwood, will receive prompt attention.

### STRATHFIELD AND DISTRICT RADIO CLUB.\*

The ordinary weekly meeting of the above club was held at the club room, corner Albert Road and Duke Street, Strathfield, on Wednesday evening, Feb. 10, the attendance being good. Our President (Mr. A. F. Jacob) occupied the chair, and, after business matters had been attended to, one of the members (Mr. Burman) gave us an interested talk on "His Wireless Experiences at the Front" during the war. Dealing with the circuits (now obsolete) which were then used, describing the methods under which "working stations" of "direction finding of enemy transmissions" for a while, provided very entertaining enjoyment to the members. A hearty vote of thanks to Mr. Burman was carried by acclamation.

The first Morse practice at the residence of the Secretary occurred on Tuesday evening, Feb. 9, two solid hours of both sending and receiving being indulged in by mem-



We have all read "The Adventures of Burgess," which are published from time to time. A friend of mine who spends his week-ends down at Mona Vale was just preparing for the run home last Sunday when he found that the car lights had all gone out of order. Darkness had set in, so it was too late to tinker about. At the critical moment, however, he remembered his trusty Burgess Focussing Torch. He carried this in his right hand pressed against the side of car, while with his left he steered. He told me that he got on quite well; in fact, the light from the torch was so satisfactory as to enable him to come right home at the usual speed.

Telling me about it, he wondered if the Burgess Battery Company would like to make an "Adventure" out of it. They might.

The "Phileo Retainer" (which is issued by the makers of the Phileo Battery), under date of December, 1925, says regarding the Radio Industry in the United States that "sales of Radio Receiving Apparatus to the public totalled close to half a million dollars to the public totalled close to half a million volume of business, and that 1925 is breaking all records, and the question arises as to where all the money comes from and how long it will keep coming."

From these remarks and from what I gather from the English Radio Press, it may be safely assumed that the Radio Industry in England and the U.S.A. has become a regular business, and the bogey of the slump seems quite finished.

Here in Australia, on a smaller scale, we have the same bright prospects, but we must bear in mind the lessons learned by John Bull and Uncle Sam. It has been found that quality is the one essential point, and the sale of high grade components means a bright future, jointly, for dealer and customer.

Journeying round the Radio Shops, I find everybody interested in the Yaxley Stand. This is arranged as to allow a minute inspection of each article. Something quite new in design is the Yaxley Potentiometer, which is Air-Cooled, and I was vastly intrigued this very fine piece of work. The Yaxley Rheostat is also Air-Cooled, and is well worth looking at.



## For faithful reproduction

There are few devices which guarantee it so assuredly as does the Igranic audio frequency transformer. High or low notes are reproduced under its influence with that fulness of tone which is so gratifying to the operator and so pleasing to the listener-in.



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

One of the IGRANIC quality products. The Audio frequency transformers. Designed and built on sound lines, and guaranteed free from distortion.  
Ratio 3:1. Ratio 5:1  
Price 30/- Price 32/6

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

**Refuse substitutes—insist on Igranic**

Stocked by all dealers.

Write for booklet No. 3 to

### NOYES BROS.

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

SYDNEY: 115 Clarence St.	MELBOURNE: 495 Bourke St.
NEWCASTLE: 11 Watt St.	ADELAIDE: Darling Bldg., Franklin St.
BRISBANE: Perry House.	LAUNCESTON: 123A Charles St.
HOBART: 145 Macquarie St.	Also, J. R. W. Gardam, Perth.

Sole Agents for IGRANIC and BROWN Loud Speakers. Distributors of PHILLIPS Valves.



bers. This will be a feature of this club's activities every Tuesday and Friday evening. The transformer for the club's transmitter is now being assembled, and other parts will shortly be procured.

All inquiries re membership will be welcomed and promptly answered upon application to the Secretary, Mr. Moore, "Brentwood," Cameron Street, Strathfield (one minute from Broadway, Enfield).

#### THE LEIGHARDT AND DISTRICT RADIO SOCIETY.\*

(Licensed Experimental Transmitting Station A2LH.)  
The general meeting of the above society was held on 9th inst. at the club rooms, 176 Johnston Street, Annandale. The President occupied the chair. The attendance was still poor; evidently Xmas is a long time departing. Owing to the unavoidable absence of the visiting lecturer the syllabus could not be adhered to, but Mr. Payne, one of our members, ably filled the breach with a talk on some tests carried out recently at Cronulla on various types of earthing arrangements when compared with results obtained with the same set a few miles distant. The outcome was very illuminating, and showed that even in a combination of circumstances providing apparently had earths excellent results may be obtained with a little ingenuity. The talk created a great deal of discussion and drew forth various experiences used by members when in bad districts as far as earths were concerned. The speaker was accorded a hearty vote of thanks for his efforts. Considerable discussion then took place with regard to the results of the third quarter's marking in the MacLurean Cup competition, and ways and means were suggested so as to cause the club to regain the lead they had lost. In view of the fact that it is only six weeks to the end of the final quarter, all members were asked to put their shoulder to the wheel for the final push.

Inquiries relative to the activities of the above club are cordially invited, and should be addressed to the Hon. Sec., Mr. J. G. Arkell, 148 Hereford Street, Forest Lodge.

#### THE WIRELESS SOCIETY OF NEWCASTLE.\*

The members of this society held their weekly meeting at the club room, 49 Everton Street, Hamilton, on Tuesday, the 9th inst., and were entertained by Mr. Swain, who gave a very interesting lecture on "Electrolytic Valve and Flame Rectification," and very clearly explained such method of rectification and showed the schematic connections for each type of rectifier.

This club reports having taken the lead in the third

quarter of the MacLurean Cup contest, and hopes to repeat this performance again next quarter.

Arrangements have been in hand for an improvement of the aerial system of the club transmitter, and this will be on the air and perking strongly in the next few weeks.

Anyone interested in the club's activities is invited to get into touch with the Secretary, Mr. L. Wilson, c/o Messrs. W. J. Wilson and Co., 25 Hunter Street, Newcastle, who will be pleased to give any information with regard to the activities of the society and membership thereto.

#### STRATHFIELD AND DISTRICT RADIO CLUB.\*

The usual weekly meeting of the above club was held at the club room, corner Albert Road and Duke Street, Strathfield, on February 9, 1925, and was well attended.

After a few business matters had been disposed of, our President and Chairman (Mr. A. F. Jacob) opened a debate, and the subject ("Low Loss v. High Loss" in receiving sets) provided members with some interesting entertainment. Messrs. Jacob, Harris, and Burman spoke on the excellent results obtained with high loss apparatus, and Messrs. Crane and Burman spoke in the strain on behalf of low loss. After speaking on behalf of high loss, Mr. Burman provided amusement by also speaking for low loss, and after debate had concluded in favour of low loss at least one member came to the conclusion that his apparently high loss set was really a low loss set, although apparatus was mostly standard. As a result of this debate, Mr. Crane, supported by Mr. Burman, will be the club's speaker on behalf of low loss debate to be held by the Wireless Institute at an early date.

A committee meeting held last week decided that two evenings a week will be devoted to buzzer practice, to be held at the residence of Mr. Moore, "Brentwood," Cameron Street, South Strathfield (one minute from Broadway train). Thus on Tuesday and Friday evenings there will always be some members available for practice, and as such will also be taught members should avail themselves of this generous offer.

Our worthy member, Mr. Kent, who is ably assisting us in the matter of the club's transmitter, is also refreshing his memory pending the exam. he will be required to pass to obtain the club's license.

All inquiries by intending members to the Secretary, Mr. Moore, "Brentwood," Cameron Street, Strathfield, will be welcomed and promptly attended to.

## WHAT OTHERS ARE SAYING.

### An Official Indiscretion.

It is unfortunate that all too frequently persons in official positions seem to make it their business to rush into print on controversial matters which are altogether outside their proper sphere of activity. Capt. Eckersley, the Assistant Controller and Chief Engineer of the B.B.C., is an extremely popular personality, but from time to time he throws discretion to the winds and records his innermost thoughts in print so openly that one suspects that the impulse of the moment is responsible and not the mature consideration of the Chief Engineer himself.

In a recent issue of the "Radio Times," under the title "A Talk to Home-Makers," Capt. Eckersley discusses the wireless industry and the home-constructor in terms which are calculated to astonish even those who for some time past may have suspected his lack of sympathy with those who make their own sets. If the policy which he advocates were enforced, we foresee that there would be con-

siderably more "home-wrecking" than "home-making." He states that the home-construction of sets hampers the wireless industry, and that the publication of instructions on how to build a particular set is unfair to those whose livelihood it is to sell sets at a legitimate profit to the public, and he proceeds to blame the amateur constructor without qualification for all the oscillation ether interference.

Capt. Eckersley seems to have totally overlooked how much the industry owes to the popularising of wireless, which, unquestionably, has been brought about, to a very large extent, by encouragement and the offer of facilities to the public to build their own sets by way of a hobby. There was a time, in the early days of broadcasting, when sets produced by the manufacturer, including even the simplest of crystal sets, were only available at exorbitant prices, and had it not been for the encouragement of home construction as a hobby, we think it is very doubtful whether the B.B.C. and the wireless industry as a whole would ever have arrived at its present state of development.—"Wireless World."

# 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 7 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 7 valve set without reconstruction. **£1** down secures immediate delivery. Balance **5/-** weekly.



**OFFER NO.3**

Pathé Home Cinema at **£18-19-0** 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 8ft x 6ft. **£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 cue, balls and marking board. **£1** down secures immediate delivery. Balance **5/-** weekly.

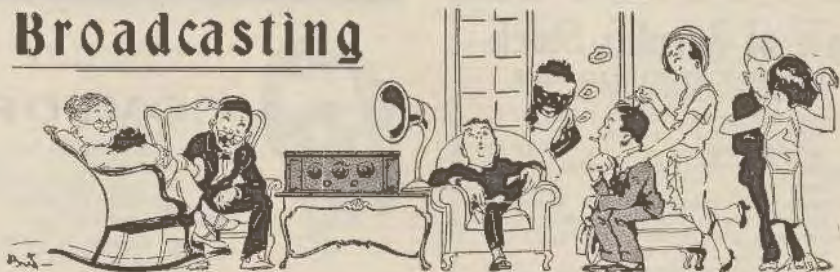
Call at once with a Pound Note and we will deliver immediately to your Home.

# HOME RECREATIONS LTD.

388 GEORGE STREET (Opp. Beard Watson's)



# Broadcasting



## 2KY

### WEEKLY BROADCASTING PROGRAMME

#### TRADE HALL.

Call Sign, 2KY. Wavelength, 280 metres.

#### FRIDAY, FEBRUARY 19.

##### Afternoon Session.

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

##### Children's Hour.

6.30—"The Man in the Moon."

##### Evening Session.

7.45—Latest news items; Miss Esme Diabl, L.J.D.M.; Miss Mavis Carroll, soprano; Mr. Alf. James, baritone; & Mr. Beard, technical designer of 2KY, wireless lecturer. Others to be announced.

#### SATURDAY, FEBRUARY 20.

##### Evening Session.

7.45—Latest news items and sporting results; Mr. George F. Munnell, Hon. Sec. Social Science Service of Australasia, lecturer, "Story of the Bath told by Fossil Remains," Part 1; Herbert Beaver, humorous odds & ends; Mr. J. Galley, tenor; Miss O'Neill, contralto; and others to be announced.

#### MONDAY, FEBRUARY 22.

##### Afternoon Session.

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

##### Children's Hour.

6.30—"The Man in the Moon."

##### Evening Session.

7.45—Latest news items; Miss Amy Rowald, entertainer; Miss D. Johnstone, soprano; Mr. W. Stead, tenor; Mr. Walker, Walker, musical baroque; lecturer, "Local Topics, Political and Industrial," Mr. J. S. Garden; wireless lectures, Mr. Beard, technical designer, 2KY, 7th Chapter of the Universal Chapter Play, "Perils of the Wild," serial story, will be broadcast from 2KY tonight.

#### TUESDAY, FEBRUARY 23.

##### Afternoon Session.

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

##### Children's Hour.

6.30—"The Man in the Moon."

##### Evening Session.

7.45—Latest news items; Mr. McKillop, tramway comedian; Miss Dorrington, soprano; Cec Morris and his Blue-

birds' Jazz Band; lecture, Miss E. M. Swain, "The Economy of Human Energy."

#### WEDNESDAY, FEBRUARY 24.

##### Afternoon Session.

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

##### Children's Hour.

6.30—"The Man in the Moon."

##### Evening Session.

7.45—Latest news items; Miss Eileen Chartres, soprano; Miss Dean, pianist; Mr. Don Ellis, harmonica; lecturer, "International Topics, Industrial and Political," Mr. J. S. Garden; lecturer, educational, Mr. She waltz.

#### THURSDAY, FEBRUARY 25.

##### Afternoon Session.

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

##### Children's Hour.

6.30—"The Man in the Moon."

##### Evening Session.

7.45—Latest news items; Messrs. Haydon and Price, comedians; Miss Tibbie Smith, monologue; Miss Beale Jones, contralto; 8th Chapter of the Universal Chapter Play, "Perils of the Wild"; Mr. Eric Goldrick, Hawaiian steel guitar; lecturer, "Austrian Poets," Mr. Thomas; lecturer, "Some Remarkable Cases by the Abrams Method"; Miss E. L. Patrick.

## 2BL

### BROADCASTER (SYDNEY) LTD.

Call Sign, 2BL. Wavelength, 353 metres.

#### FRIDAY, FEBRUARY 19.

##### Afternoon Session.

2—G.P.O. clock and chimes; weather report and social notes from the "Sun."

5.15—Music from the Studio.

6.30—G.P.O. clock and chimes; a talk on "Modern English Poetry" by Mr. J. M. Prentice.

7.45—Music from the Studio.

8—G.P.O. clock and chimes; music from the Studio.

8.30—G.P.O. clock and chimes; serial story entitled "The Treasure of Ho."

1.45—Music from the Studio.

4.55—Late market reports from the "Sun."

5—G.P.O. clock and chimes; "Sun"

news service.

9.15—G.P.O. clock and chimes. Close down.

##### Early Evening Session.

9—G.P.O. clock and chimes; Pavilion Dinner Orchestra, under the direction of Mr. Cec Morrison.

6.30—Sporting results from "Sun" Newspapers; the pupils of Miss Monica Scally will entertain the kiddies.

7.45—Late stock, hides and market reports by courtesy of Australian Mercantile Land and Finance Co.

7.50—Close down.

##### Evening Session.

By courtesy of Messrs. Parson and Whittemore, True Blue Jazz Orchestra, under the direction of Mr. Cec Morrison. On the same programme appear the Astley, Mr. Ross Harrison, and a collection of outstanding ability, and the Alad Duo in steel guitar selections. At 9 p.m. Mr. H. G. Morgan will speak on "Motoring," and at 10 p.m. there will be a "Round the World Teatime" by Mr. J. M. Prentice, O.C.B., C. de G.

#### SATURDAY, FEBRUARY 20.

2—G.P.O. clock and chimes; special sporting information broadcast direct from "Sun" office; music from the Studio.

5.15—G.P.O. clock and chimes. Close down.

##### Early Evening Session.

9—G.P.O. clock and chimes; Pavilion Dinner Orchestra, under the direction of Mr. Cec Morrison.

6.30—Sporting results from the "Sun" Newspapers; Uncle George and the Kiddies.

7.45—Late stock, hides and market reports by courtesy of Australian Mercantile Land and Finance Co.

7.50—Close down.

##### Evening Session.

A full programme by the Cheerio Girls, which will be performed at St. James' Hall, will be broadcast. These delightful artists include Miss Edith Dickerson in songs at the piano; Mrs. Bennett White, Miss Dorrie Ward, mezzo-soprano, Miss Edith Angel, Miss Graco Harris, and Miss Molly Raynor. Dance music until midnight, supplied by Bungowan Modern Dance Band, Shandy, under the direction of Mr. O. Theaker.

#### SUNDAY, FEBRUARY 21.

11—Children's Service broadcast from Newtown Congregational Church; minister, Rev. Mearns Massie.

3.30—Organ Recital broadcast from Chalmers Street Presbyterian Church.

4.30—Concert from the Studio.

6.30—Service broadcast from Newtown Congregational Church; minister, Rev. Mearns Massie.

## Sale of Surplus Stock

**MORE GENUINE BARGAINS FOR HOME CONSTRUCTORS.**

Marconi "Q" valve, complete with valve adaptor mounted on bakelite, each . . . . .	s. d.	
.01 and .0015 mf. Fixed Condensers, each . . . . .	19	6
Variable grid condensers, mica or Empire paper, dielectric, each	1	0
Crystal Cups with screws and nuts, each . . . . .		6
Crystal Detectors, mounted, each, 1/- and . . . . .	1	6
2oz. Reels, 20 to 30 gauge S.S.C. and D.S.C. winding wires, per reel, 4d. to . . . . .		9
Also larger reels in various gauges at under cost.		
2BA, 5BA and brass wood screws in gross lots, etc.		
Country Clients write for full particulars		
Special attention given to mail orders.		

### BASEMENT

Amalgamated Wireless (A/sia) Limited  
97 Clarence Street, Sydney.  
Address mail orders to Dept. F.

## M. H.



### Mica Fixed Condensers

- are
1. Of the permanent capacity engraved thereon.
  2. Instantly interchangeable.
  3. Of everlasting and unfalling service.

Unmounted.	Mounted Type.
Two Clips are supplied with each Condenser.	
each	each
0.0001 to 0.001nF, 3/-	0.0001 to 0.001nF, 4/6
0.0015 to 0.01nF, 3/9	0.0015 to 0.01nF, 5/6
0.015 to 0.04nF, 4/3	0.015 to 0.04nF, 6/8

Built by

L. McMichael Ltd., Wireless Engineers, London.

OSBOLDSTONE & CO. PTY. LTD.,

100 Flinders Street, Melbourne,

Sole Agents.



## COMFORT

The light weight and ease of adjustment of Ediswan 'phones make your listening-in not only hours of pleasure, but hours of comfort too.

Each receiver is fitted with cord 6ft. long. Total resistance, 4000 ohms.

Price per pair . . . . . 27/6

Edison Swan Electric Co. Ltd.,  
58 Clarence St., SYDNEY.

Leading Dealers  
Sell Them.

# EDISWAN

## Head 'Phones

## H. J. HAPGOOD

Challis House, Sydney

Telephone: BW 6753

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

Sales Agent for Renrade Products, also

Emmco Products Manufactured by

ELECTRICITY METER CO.

8.30—From the Studio: Andre Navarra, baritone.

### MONDAY, FEBRUARY 22.

Afternoon Session.

- 3.—G.P.O. clock and chimes; weather report and social notes from "Sun."  
 3.15—David Jones' Tea Room Trio.  
 3.30—G.P.O. clock and chimes; a talk on "A Course in English Literature" by Mr. J. M. Prentice.  
 3.45—Music from the Studio.  
 4.—G.P.O. clock and chimes; David Jones' Tea Room Trio.  
 4.15—Music from the Studio.  
 4.30—G.P.O. clock and chimes; serial story entitled "The Treasure of Ho."  
 4.45—Music from the Studio.  
 4.55—Late market reports from the "Sun."  
 5.—G.P.O. clock and chimes; "Sun" news service.  
 5.15—G.P.O. clock and chimes. Close down.

Early Evening Session.

- 6.—G.P.O. clock and chimes; Pavilion Dinner Orchestra, under the direction of Mr. Cec Morrison.  
 6.30—Sporting resume from the "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 and Finance Co.  
 7.50—Close down.

Evening Session.

- Ambassadors' Salon Quartet, under the direction of Mr. Claude McGlynn. From the Studio: Comedy sketches; Mr. and Mrs. Sid Owen in musical novelties; Roger Jones, baritone; Newtown Band broadcast from Industrial Hall, Newtown. Dance music until midnight, supplied by Ambassadors' Dance Band, under the direction of Al Hammett.

### TUESDAY, FEBRUARY 23.

Afternoon Session.

- 3.—G.P.O. clock and chimes; weather report and social notes from "Sun."  
 3.30—G.P.O. clock and chimes; "Hints on the Home" by G. A. Saunders.  
 3.45—Music from the Studio.  
 4.—G.P.O. clock and chimes; music from the Studio.  
 4.30—G.P.O. clock and chimes; serial story entitled "The Treasure of Ho."  
 4.45—Music from the Studio.  
 4.55—Late market reports from "Sun."  
 5.—G.P.O. clock and chimes; "Sun" news service.  
 5.15—G.P.O. clock and chimes. Close down.

Early Evening Session.

- 6.—G.P.O. clock and chimes; Pavilion Dinner Orchestra, under the direction of Mr. Cec Morrison.  
 6.30—Sporting resume from the "Sun" Newspapers; Uncle Jack and the kiddies.  
 7.45—Late stock, hides and market reports by courtesy of Australian Mercantile Land and Finance Co.  
 7.50—Close down.

Evening Session.

- Popular programme from the Studio. During the evening Miss Helen Jean Bevington will speak on "My First Day as a Movie Extra," and Mr. T. Allyn will speak on "Vitamines and Dietetics."

### WEDNESDAY, FEBRUARY 17.

Afternoon Session.

- 3.—G.P.O. clock and chimes; weather report and social notes from "Sun."  
 3.15—Broadcasters' Trio.

9.30—G.P.O. clock and chimes; special musical session.

- 4.—G.P.O. clock and chimes; Broadcasters' Trio.  
 4.30—G.P.O. clock and chimes; serial story entitled "The Treasure of Ho."  
 4.45—Broadcasters' Trio.  
 4.55—Late market reports from "Sun."  
 5.—G.P.O. clock and chimes; "Sun" news service.  
 5.15—G.P.O. clock and chimes. Close down.  
 Early Evening Session.  
 6.—G.P.O. clock and chimes; Pavilion Dinner Orchestra, under the direction of Mr. Cec Morrison.  
 6.30—Sporting resume from the "Sun" Newspapers; Uncle George and Uncle Jack with the kiddies.  
 7.45—Late stock, hides and market reports by courtesy of Australian Mercantile Land and Finance Co.  
 7.50—Close down.

Evening Session.

- Popular programme from Studio, featuring Mavis Linton and Nancy Stewart. Mr. David Andrew will speak on "Life History of White Ants," and Mr. J. M. Prentice will speak on "Foreign Affairs," and reply to any telephone question on the subject. Dance music supplied by Embassy Jazz Orchestra, under the direction of Mr. S. Bennett.

### THURSDAY, FEBRUARY 25.

Afternoon Session.

- 3.—G.P.O. clock and chimes; weather report and social notes from "Sun."  
 3.15—David Jones' Tea Room Trio.  
 3.30—G.P.O. clock and chimes; a talk on "Books" by Mr. G. A. Saunders.  
 3.45—Music from the Studio.  
 4.—G.P.O. clock and chimes; David Jones' Tea Room Trio.  
 4.15—Music from the Studio.  
 4.30—G.P.O. clock and chimes; serial story entitled "The Treasure of Ho."  
 4.45—Music from the Studio.  
 4.55—Late market reports by courtesy of the "Sun."  
 5.—G.P.O. clock and chimes; "Sun" news service.  
 5.15—G.P.O. clock and chimes. Close down.

Early Evening Session.

- 6.—G.P.O. clock and chimes; Pavilion Dinner Orchestra, under the direction of Mr. Cec Morrison.  
 6.30—Sporting resume from the "Sun" Newspapers.  
 7.45—Late stock, hides and market reports by courtesy of Australian Mercantile Land and Finance Co.  
 7.50—Close down.

Evening Session.

- Popular programme from the Studio: Broadcasters' Trio; Daisy Mangun, coloratura soprano; Alice Prowas, contralto; Trocadero Jazz Orchestra, under the direction of Mr. Jack Laiderton. At 9.30 Mr. D. W. Daly Watkins will speak on "Accountancy—Cost Accounts for Small Manufacturers."

## 3LO

BROADCASTING CO. OF AUSTRALIA, PROP. LTD.

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

### FRIDAY, FEBRUARY 19.

- Midday Session, 12 to 2.  
 12—Time signal; British official wireless news from Rugby; Reuter's and the Australian Press Association

cables; "Argus" and "Herald" news services; shipping intelligence.

- 12.45—Stock Exchange information.  
 12.50—Meteorological information; weather forecasts for Victoria, Tasmania, South Australia, and New South Wales; ocean forecast; river reports.  
 1—Time signal.  
 1.1—Studio Orchestra, "Norma" (Bellini)  
 1.45—Miss Beryl Pratt, soprano, "Good-bay and the Blackbird" (Gael).  
 1.41—Miss Tsama Tiernan, cello solo, "Koe Nedrei" (Bruch).  
 1.20—Miss Beryl Pratt, soprano, "The Little Road Home" (Brewer).  
 1.23—Miss Dorothy Roxburgh, viola solo, "Moment Musical" (Schubert), Ballet Music—"Rosmonde" (Schubert).  
 1.28—Studio Orchestra, "Morning Promenade" (Bendel).  
 1.38—Mr. Walter Smith, cornet solo, "The Last Rose of Summer" (Round).  
 1.45—Instrumental Trio, "Peer Gynt Suite" (Grieg).  
 2—Close down.  
 Afternoon Session, 3 to 5.  
 3—Time signal.  
 3.1—Studio Orchestra, selection, "The Street Singer" (Simson).  
 3.15—Mr. Victor Prince, entertainer, "I can't help loving that Gal," "Sing me to sleep."  
 3.22—Miss Beesie Gausson, viola solo, "Reverie" (Harrby).  
 3.28—Studio Orchestra, "At the Fair" (Fovall).  
 3.38—Miss Jill Manners, soprano, by permission of J. C. Williamson Ltd., "A Southern Song" (Ronald, "When Love was Kind" (Moore).  
 3.45—Miss Agnes Fortune, piano solo, "Waltz in F Major" (Chopin).  
 4.3—"An Part," of Buckley & Nunn Ltd., "Fashion Talk."  
 4.8—Studio Orchestra, "Two Sketches" (1) Serenade, (2) Romance.  
 4.18—Mr. Victor Prince, entertainer, "Murphy, McCarty, McGuity, and McGhee," "Mike, Mike, Mike."  
 4.25—Miss Dorothy Roxburgh, viola solo, "Larghetto" (Spohr).  
 4.31—Miss Jill Manners, soprano, "Down in the Forest," "My Dreamland Rose" (Phillips).  
 4.38—Mr. Walter Smith, cornet solo, "The Last Rose of Summer" (Round).

Evening Session.

- 4.45—"Herald" and "Argus" news services; Reuter's and the Australian Press Association cables.  
 5—Time signal. Close down.  
 Evening Session, 6 to 7.15.  
 6—"Children's Hour, Stories by Billy Bennet; "Minnie and the Gipsies," "The Magical Trip," "House of the Eagle."  
 6.45—"Herald" and "Argus" news services; Reuter's and the Australian Press Association cables; market reports; closing Stock Exchange information; weather synopsis; shipping movements; market reports by the Victorian Producers' Co-operative Co. Ltd.; fish market reports by J. B. Borrett Pty. Ltd.; fruit market reports by the State Fruit Advisory Board.

Night Session, 7.15 to 11.  
 7.15—Mr. R. H. Wilmot, "Colloids."  
 7.30—Under the auspices of the Development Australia League, Cr. J. S. Kent, Mayor of S. Melbourne, "South Melbourne, Hive of Industry."  
 7.45—Mr. Gus Black, who is playing "Wishes" in "Addie," will speak from his dressing room at His Majesty's Theatre, by permission of J. C. Williamson Ltd.



The Valve of Super Service

# DE FOREST

TYPE DV

*Bases of the Supreme Insulation*  
ISOLANITE



DV3.  
.06 Amps. 3 Volts.  
STANDARD SOCKET.

DV2.  
5 Volts. .25 Amps.  
STANDARD SOCKET.

Conceived for SERVICE, built for SERVICE, sold for SERVICE and renders SERVICE.

**Serves Better  
Lasts Longer**



Such VALVES and ONLY such valves are  
DE FORESTS

Ask your Dealer

INTERNATIONAL RADIO Co. LTD.

200 Castlereagh Street, Sydney.

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

- 8.—Collingwood Citizens' Band, march, "Mephistopheles"; trombone solo, "Lend me your aid," soloist—A. Thorne.
- 8.13—Miss Marjorie Duband, soprano, "Mattinata" (Toesti), "Snowflakes" (Covey).
- 8.21—Collingwood Citizens' Band, waltz, "Destiny"; fox trot, "Bonquet."
- 8.34—Mr. Mason Wood, baritone, "The Garden of Allah" (Marshall), "The Luteplayer" (Alltson).
- 8.41—Mr. E. Seitz and his bandoneon (for Swiss national instrument), "Adio la Casarona," "Bunuel polka" (Werner), "Jillyput" (Hollender), "Lauder" (Seitz).
- 8.56—Mr. E. A. Broinewski, "Famous Men of the Ages—Chopin."
- 9.10—Collingwood Citizens' Band, selection, "Memories of England."
- 9.25—Miss Peggy Lottie, contralto, "O Lovely Night" (Ronald), "Vale" (Russell).
- 9.32—Mr. E. Seitz, either solos, "Where Apposes are Flourishing" (Abt), "Remembrance of Zurich" (Seitz), xylophone "Carnival of Venice" bandoneon, "Yes, we have no Bananas."
- 9.47—Miss Marjorie Duband, soprano, "Wondering Why" (Clarke), "Love sends a Little Gift of Roses" (Openshaw).
- 9.54—Collingwood Citizens' Band, waltz, "Top Goes the Weasel"; cornet solo, "Serenade" (Schubert), soloist—S. J. Brannwell.
- 10.8—Mr. Mason Wood, baritone, "O Flower of all the World" (Finden), "Parted" (Toesti).
- 10.15—Argus' news service.
- 10.20—The Collingwood Citizens' Band, march "Argandab"; hymn, "Rock of Ages"; selection, "March Militaire" (Schubert).
- 10.34—Miss Peggy Lottie, contralto, "You in a Gondola" (Clarke), "Sannah" (Lange).
- 10.41—The Collingwood Citizens' Band, gavotte, "The Cost is Woeing"; cornet duet, "Two Friends," J. Armour, A. Francis; march, "Stars and Stripes Forever."
- 11—"God Save the King."
- SATURDAY, FEBRUARY 20.**
- Midday Session, 12 to 2.
- 12.—Time signal; British official wireless news from Rugby; Reuter's and the Australian Press Association cables; "Argus" and "Herald" news services; shipping intelligence.
- 12.45—Stock Exchange information.
- 12.50—Meteorological information; weather forecasts for Victoria, Tasmania, South Australia, and New South Wales; ocean forecast; river reports.
- 1.—Time signal.
- 1.10—Studio Orchestra, "The Barber of Seville" (Rossini).
- 1.14—Miss Billie Jones, soprano, "In an Oriental Garden."
- 1.14—Miss Tamara Tiernan, 'cello solo, "Abide with me" (Liddell).
- 1.24—Miss Billie Jones, soprano, "I'll not leave Susan."
- 1.24—Miss D. Roxburgh, viola solo, "Margretin Romaulien" (Simonetti).
- 1.30—Result of the St. Clair Trial Handicap from the V.A.C. Meeting.
- 1.33—Studio Orchestra, "Sunshine and Flowers" (Schonfeld).
- 1.35—Miss Billie Jones, soprano, "Come sing to me."
- 1.42—Mr. Walter Smith, cornet solo, "When you come Home" (Squire).
- 1.49—The Station Trio, "Flower Song" (Bizet).
- 2.—Time signal. Close down.
- 2.30—Result of the Alma Stakes. Afternoon Session, 3 to 5.
- 3.—Time signal.
- 3.1—Studio Orchestra, "Lilac Time" (Schubert).
- 3.11—Result of the Woodcliffe Handicap.
- 3.18—Mr. Joe Delaney, baritone, "My Dream" (Toesti), "If I might come to you" (Squire).
- 3.23—Miss Bessie Gausson, violin solo, "Skat d'Amour" (Elgar).
- 3.31—Studio Orchestra, "Algerian Song" (Ketchik).
- 3.39—Miss Agnes Fortune, piano solo, "Scherzo in E Minor" (Mendelssohn).
- 3.46—The Studio Orchestra, fox trots, "Tangletons" (Rose), "Don't wake me up" (Boas).
- 3.46—Result of the Futurity Stakes.
- 3.49—Studio Orchestra, "Pettite Suite Moderne" (Rosae).
- 3.54—Miss Tamara Tiernan, 'cello solo, "Reve Angelique" (Rubenstein).
- 4—Mr. Joe Delaney, baritone, "I'll sing you songs of Araby" (Clay), "Un-til" (Sanderson).
- 4.7—Studio Orchestra, "Little Dutch Girl" (Kalmann).
- 4.23—Result of the Stanley Steeple.
- 4.23—Miss D. Roxburgh, viola solo, "Three French Dances" (Marnia).
- 4.30—Station Trio, "Prelude" (Rachmaninoff).
- 4.37—Studio Orchestra, "Fifth Nocturne" (Leybauf).
- 4.45—"Herald" and "Argus" news services; Reuter's and the Australian Press Association cables; sporting results.
- 5.—Time signal. Close down. Evening Session, 5.45 to 7.15.
- 5.45—All sporting results, local, country and interstate.
- 6—Children's Hour. Stories by Mary Gunkel, "The Rainbow," "A Little Girl's Lullaby," "Babies in the Woods," "Africa Fairy Story," "The Queen of the Pigeons," "Jack and the Beanstalk."
- 6.45—Sporting results; "Herald" and "Argus" news services; Reuter's and the Australian Press Association cables; market reports; closing Stock Exchange information; shipping movements; weather synopsis; market reports by the Victorian Producers Co-operative Co. Ltd.; fish market reports by J. B. Borrett Ltd.; fruit market reports by the State Fruit Advertisers Board.
- 7.—Night Session, 7.40 to 11.
- 7.46—Dr. J. A. Leach, "The Economic Value of Australian Birds."
- 8—Studio Orchestra, "On the Mountains" (Greig).
- 8.15—Mr. Alan Mitchell, tenor, "The Mountains of Mourne" (Collinson) (Adams).
- 8.22—Miss Dorothy Roxburgh, viola solo, "In the Hall of the Mountain King."
- 8.30—Mr. Norman Pih, humorist, "Our Alpine Village," "The Farm on the Hill."
- 8.40—The Station Trio, "Mountain Echoes."
- 8.50—Miss Thelma Neill, soprano, "The Net Mender" (Clarke), "Over the Breckland Sea" (Phillips).
- 8.57—Miss Agnes Fortune, piano solo, "Sea Process" (Macwell).
- 9.5—Mr. Norman Pih, humorist, "Advice for the Seaside," "Swim, Sam, Swim."
- 9.14—Studio Orchestra, "Calm Sea."
- 9.24—Mr. J. Hewlett Ross, "The Australian Post and Writer, A. G. Southland."
- 9.44—Studio Orchestra, "By the Lake of Geneva."
- 9.54—Miss E. Biddell, contralto, "Kil-larney," "Loch Lomond."
- 10.1—Miss Tamara Tiernan, 'cello solo, "The Swan" (St. Saens).
- 10.7—Mr. Alan Mitchell, tenor, "Song of the Velga Boatmen."
- 10.10—Mr. Walter Smith, cornet solo, "On the River's Brink."
- 10.16—Miss Ella Riddell, contralto, "Donn the Burn."
- 10.20—Miss Ella Riddell, contralto, "The Shalott Vale" (d'Alton).
- 10.23—Miss Bessie Gausson, violin solo, "The Duluge" (St. Saens).
- 10.29—Miss Thelma Neill, soprano, "Down the Vale," "In the Valley of Laughter."
- 10.30—Studio Orchestra, "Sahara."
- 10.33—Mr. Alan Mitchell, tenor, "I desert, love song, "I will await thee."
- 10.47—Studio Orchestra, "Desert Suite" (Grunm).
- 11—"God Save the King."
- SUNDAY, FEBRUARY 21.**
- Morning Session, 11 to 12.15.
- Morning Service from Scots' Church, Collins Street.
- 11—Conducted by Rev. W. Borhad, M.A., B.D.; organist, Mr. Mansley Greer.
- Afternoon Session, 3 to 4.30.
- 3—Pleasant Sunday Afternoon Service from the Central Mission Wesley Church, Chairman, Rev. S. J. Hoban. Evening Session, 6 to 6.45 p.m.
- 6—Children's Hour. Stories by Billy Bunny; "Bible Battles" and other stories.
- 6.45—Close down. Night Session, 7 to 10.
- 7—Service from St. Paul's Cathedral. From the Studio:
- 8.30—The Collingwood Citizens' Band, march, "Brilliant"; cornet solo, "Holy City," soloist—T. Collett (winner of the champion cornet solo, Brunswick Carnival).
- 8.43—Miss Bryl Walley, soprano, now playing in "Lilac Time" at the Theatre Royal, by permission of J. C. Williamson Ltd.
- 8.50—Cornet duet, "Tda and Dott" (request), T. Ball and W. Henry.
- 8.53—Mr. Harry Ratcliffe, baritone, now playing in "Lilac Time" at the Theatre Royal by permission of J. C. Williamson Ltd.
- 9.3—Mr. Harold Rodgers, piano solo, "O Minor Nocturne" (Chopin).
- 9.10—Miss Margery Richardson, contralto.
- 9.17—The Collingwood Citizens' Band, "Bells across the Meadows" (request).
- 9.24—Miss Bryl Walley, soprano.
- 9.31—Cornet solo, "Abide with me," soloist—W. Henry.
- 9.39—Duet, Miss Margery Richardson & Mr. Harry Ratcliffe.
- 9.47—"Argus" news.
- 9.52—"The Collingwood Citizens' Band, Kyrie and Gloria" (Mozart).
- 10—"God Save the King."
- MONDAY, FEBRUARY 22.**
- Midday Session 12 to 2.
- 12.—Time signal; British official wireless news from Rugby; Reuter's and the Australian Press Association cables; "Argus" and "Herald" news services; shipping intelligence.
- 12.45—Stock Exchange information.
- 12.50—Meteorological information; weather forecasts for Victoria, Tasmania,

- South Australia, and New South Wales; ocean forecast; river reports.
- 1.—Bingo signal.
- 1.1.—The Studio Orchestra, selection.
- 1.2.—"Fugate" (Tanna Tieren).
- 1.6.—Selection, "The Firefly" (Ermi).
- 1.15.—Mr. Victor Prince, entertainer.
- 1.16.—"Almazan" of "Aladdin," permission of J. C. Williamson Ltd., "I don't want to live in."
- 1.17.—Miss Thelma Tieren, cello solo.
- 1.18.—"Star of Eve" (Wagner).
- 1.24.—Mr. Victor Prince, entertainer.
- 1.25.—"Heaven Help the Sailors."
- 1.27.—Miss Dorothy Roxburgh, viola solo.
- 1.28.—"Moment Musical" (Schubert).
- 1.34.—Orchestra, fox trot, "Peaches & Cream" (Lous).
- 1.39.—Mr. Victor Prince, entertainer.
- 1.41.—"I win, I win, I win."
- 1.42.—Mr. Walter Smith, cornet solo.
- 1.43.—"Al and Pal" (Short).
- 1.49.—Orchestra, "La Paloma" (Yradior).
- 1.54.—Fox trot, "Duke Lady" (Whiting).
- 2.—Time signal. Close down.
- Afternoon Session, 3 to 5.
- 3.—Time signal.
- 3.1.—The Studio Orchestra, selection.
- 3.2.—Songs from the Old Folks" (Lake).
- 3.13.—Mr. Walter Smith, cornet solo.
- 3.14.—"Old Black Joe" (Lous).
- 3.20.—Orchestra, "Nally" (Kern).
- 3.29.—Mr. Darrall Thomas, tenor.
- 3.30.—"Sometimes in my Dreams" (d'Hardelt).
- 3.31.—"Bases of Forgiveness" (d'Hardelt).
- 3.37.—Miss Flora Pell, "Domestic Economy."
- 3.52.—Orchestra, "Andante from Clock Symphony" (Haydn).
- 4.—Miss Marie Bremner, soprano, by permission of J. C. Williamson Ltd.
- 4.1.—"The Little Diamond" (Novello).
- 4.2.—"Now sleeps the crimson petal" (Quary).
- 4.7.—Miss Agnes Fortune, piano solo.
- 4.8.—"Duetto" (Mendelssohn).
- 4.15.—Mr. Darrall Thomas, tenor.
- 4.16.—"The Little Irish Girl" (Lohr).
- 4.17.—"Cassy the Fiddler" (Wood).
- 4.22.—Orchestra, "The Jester's Serenade" (Herbert).
- 4.29.—Miss Marie Bremner, soprano.
- 4.3.—"A Pevian Song of Spring," "The Song of Florian" (Godard).
- 4.36.—Miss Bessie Gausson, violin solo.
- 4.37.—"Taranella" (Papini).
- 4.41.—Orchestra, fox trot, "I can't realise you love me" (Donaldson).
- 4.45.—"Argus" and "Herald" news.
- 5.—Time signal. Close down.
- Evening Session, 8 to 11.5.
- 6.—Children's Hour. Stories by Billy Bunny: "Nursery Rhymes," "The Magical Trip," "Houses of the Eagles."
- 6.45.—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
- 6.53.—Weather synopsis; shipping movements.
- 6.57.—Stock Exchange information.
- 7.2.—Fruit market reports by J. R. Dorrett Ltd.
- 7.4.—Fruit market reports by the State Fruit Advisory Board.
- 7.6.—Market reports by the Victorian Producers' Co-operative Co. Ltd.
- 7.8.—Night Session, 7.30 to 11.
- 7.40.—Mr. C. R. Long, M.A., "The Ballet School of Australian Poets—The Idylls."
- 8.—The Studio Orchestra, overture, "Bohemian Girl" (Balle).
- 8.15.—Madame Evelyn Ashley, soprano.
- 8.16.—"I dream that I dwell" "Bohemian Girl" (Balle).
- 8.17.—"Tis the harp we hear the air" "Mariana" (Wallace).
- 8.22.—Mr. Walter Smith, cornet solo,

- "Seenas that are brightest" "Mariana" (Wallace).
- 8.29.—Mr. D. J. Collins, tenor.
- 8.30.—"There is a flower that bloometh" "Mariana" (Wallace).
- 8.31.—"Let me like a soldier fall" "Mariana" (Wallace).
- 8.32.—The Studio Orchestra, overture, "Mariana" (Wallace).
- 8.50.—Miss Lily Morris, the famous English comedienne, will speak from her dressing room at the Tivoli Theatre by permission of Masgrove Theatres Ltd.
- 9.5.—The Calays, Scotch entertainers (Mr. George Walker and Miss Jessie Bunting).
- 9.6.—"Bells the Bells of Dundee" "My ain folk" "Annie" "Come back to me" "My Native Highland Home."
- 9.35.—The Studio Orchestra, overture, "Merry Wives of Windsor" (Nicola).
- 9.50.—Mr. D. J. Collins, tenor.
- 9.51.—"Alce, when art thou" "Sally Homer."
- 9.57.—"Argus" and "Herald" news services.
- 10.4.—The Calays, Scotch entertainers.
- 10.5.—"Come back, Nannie," "Sitting on top of the world," "I think I'll get away this summer-time" "Loch Lomond."
- 10.32.—The Studio Orchestra, suite, "Night in Japan" (Braham).
- 10.44.—Madame Evelyn Ashley, soprano.
- 10.45.—"Japanese Lullaby" (Elkin).
- 10.46.—"The Almond Tree" (Schumann).
- 10.51.—The Studio Orchestra, suite, "Cockney Suite" (Ketelby).
- 11.—"God Save the King."

## TUESDAY, FEBRUARY 23.

Midday Session, 12 to 2.

- 12.—Time signal; British official wireless news from Rugby; Reuter's and the Australian Press Association cables; "Argus" and "Herald" news services; shipping intelligence.
- 12.45.—Stock Exchange information.
- 12.50.—Meteorological information; weather forecast for Victoria, Tasmania, South Australia, and New South Wales; ocean forecast; river reports.
- 1.—Time signal.
- 1.1.—The Studio Orchestra, overture, "Peter Schmall" (Weber).
- 1.2.—"Viennese Melody" (Kreisler).
- 1.15.—Mr. Harry Ratcliffe, now playing "Koppel" in "Ladie Time," by permission of J. C. Williamson Ltd.
- 1.16.—"Banjo Song" (Homer).
- 1.18.—Mr. Walter Smith, cornet solo.
- 1.19.—"My heart, thy sweet voice" (Saint-Saens).
- 1.20.—Orchestra, "Elsa's Dream" (Wagner).
- 1.30.—Mr. Harry Ratcliffe, baritone.
- 1.31.—"Autoplayer" (Allitt).
- 1.33.—Miss Bessie Gausson, violin solo.
- 1.34.—"Indian Canzonetta" (Dvorak).
- 1.40.—Orchestra, fox trot, "Picaninny Blues" (McKernan).
- 1.45.—Mr. Harry Ratcliffe, baritone.
- 1.46.—"Young Tom of Devon" (Russell).
- 1.48.—Orchestra, selection, "Wildflower" (Youmans).
- 2.—Close down.
- Afternoon Session, 3 to 5.
- 3.—Time signal.
- 3.1.—The Studio Orchestra, suite, "Atlantis" (The Lost Continent) (Saf-rack).
- 3.2.—Tanna Tieren, cello solo.
- 3.3.—"Serenade" (Widor).
- 3.15.—Miss Belle Pollard, soprano.
- 3.16.—"If Love were All" "Marchetta" (8.22).
- 3.22.—Orchestra, "My Sweet Australian Wattle Girl" (Henler).
- 3.28.—Miss Doreen Roxburgh, "Chanson de nuit" (Bisgar).

- 3.34.—Matron Moreland, "Infant Welfare."
- 3.49.—Instrumental Trio, "A Perfect Day" (Jacobs-Bond).
- 3.55.—Mr. Jack Dorman, by permission of J. C. Williamson Ltd., "There are maidens in Japan" (Finden).
- 4.—"The Way Home" (Liddle).
- 4.—The Studio Orchestra, "Serenade Espagnole" (Kumpff).
- 4.4.—"Au Ball" of Buckley & Nunn Ltd., "Fashion Talk."
- 4.21.—Miss Agnes Fortune, piano solo.
- 4.22.—"Nautilus" (Maddowell).
- 4.26.—Miss Belle Pollard, soprano.
- 4.27.—"Ob-scrination" (de Luccianalle).
- 4.28.—"Pale Moon" (Lousan).
- 4.33.—The Studio Orchestra, "Lazy Blue Waltz" (Schobeel).
- 4.38.—"Valse Pastiche" (Baron).
- 4.45.—"Herald" and "Argus" news; Reuter's and the Australian Press Association cables.
- 5.—Time signal. Close down.
- Evening Session, 8 to 7.15.
- 6.—Children's Hour. Stories by Merry Gumley: "Mr. Nobody" (a lullaby); for the littles ones, "How Sue looked after Baby"; boys and girls, "The Boy of Hinnetha."
- 6.45.—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
- 6.53.—Weather synopsis; shipping movements.
- 6.57.—Stock Exchange information.
- 7.2.—Fruit market reports by J. R. Dorrett Ltd.
- 7.4.—Fruit market reports by the State Fruit Advisory Board.
- 7.6.—Market reports by the Victorian Producers' Co-operative Co. Ltd.
- 7.8.—Night Session, 7.30 to 11.
- 7.20.—Under the auspices of the New Settlers' League, Miss Janet Mitchell, B.A., "Livin' Accommodation for Women Workers in Country Districts."
- 7.40.—University Extension Lectures, Professor D. B. Conland, "Peace and the League Pact."
- 8.—Ernest G. Gram and the Tivoli Orchestra, and the first half of the programme transmitted from the Tivoli Theatre by permission of Masgrove's Theatres Ltd.
- 9.10.—Dr. Loftus Hill, D.Sc., "Popular Science," "The infinitely great and the infinitely little."
- 9.25.—The League Concert Orchestra, march, "Imp" (Hind).
- 9.29.—Group of Indian Love Lyrics (Finden), (a) The Temple Blues, (b) Less than the Dust, (c) Kashmiri Song, (d) Till I wake.
- 9.50.—Miss Louise Moorhead and Mr. William Tassan in "The Brass Door-Knob," a play in one act by Matthew Boulton.
- 10.—The League Concert Orchestra, fox trot, "Yearning" (Davis & Burke), fox trot, "Peter Pan" (King & Robertson).
- 10.7.—Mr. F. Steinfur, violin solo.
- 10.8.—"Ternozzo" from "Cavalleria Rusticana" (Masagn).
- 10.10.—Mr. Darrall Thomas, tenor.
- 10.11.—"Oft in the Still Night" (Moors).
- 10.12.—"The Little Irish Girl" (Lohr).
- 10.17.—The League Orchestra, "Post & Packet" (Suppe).
- 10.20.—Trobane solo, Mr. W. Nial, "My heart at thy sweet voice" "Samson and Delilah."
- 10.35.—Mr. Darrall Thomas, tenor.
- 10.36.—"Brown eyes beneath the moon" (duet, Miss D. Danc and Mr. Darrall Thomas).
- 10.37.—"Sympathy" (special request).
- 10.38.—The League Concert Orchestra, waltz, "The Blue Danube" (Strauss).
- 10.44.—Violin and trumpet duet, Messrs.

- F. Steinfort and A. Robinson, "By the Waters of Minnelonka," (Licarinc).
- 10.47—The League Orchestra, waltz, "Pal of my Cradle Days" (Montgomery).
- 10.53—Cornet solo, Mr. C. Giken, "Serenade" (Schubert).
- 10.56—The League Concert Orchestra, "The Trenchers" (Williams).
- 11—"God Save the King."

## WEDNESDAY, FEBRUARY 24.

- Midday Session, 12 to 2.
- 12—Time signal; British official wireless news from Rugby; Reuter's and the Australian Press Association cables; "Argus" and "Herald" news services; shipping intelligence.
- 12.25—Lenten midday address by the Prime Minister, Rt. Hon. S. M. Bruce, transmitted from St. Paul's Cathedral.
- 12.55—Stock Exchange information.
- 1—Meteorological information; weather forecasts for Victoria, Tasmania, S. Australia, and N.S.W.; ocean forecast; river reports.
- 1.1—Time signal.
- 1.11—Orchestra, "Russian Rural Dance" (Erml).
- 1.17—Miss R. Harting, soprano, "Where my Caravan has Rested" (Lohr).
- 1.20—Orchestra, "Out on Murrumbidgee River," "We've got an Aeroplane."
- 1.27—Miss R. Harting, soprano, "The Silver Tree" (Gartlan).
- 1.30—Miss Bessie Gannon, violin solo, "Andante" (Tschaiikowsky).
- 1.35—Orchestra, "Prince Ador Suite" (Rybnr).
- 1.47—Miss R. Harting, soprano, "My Dear Soul" (Sandman).
- 1.50—Instrumental Trio, "Op. 1, No. 1, 1st Movement" (Buetloeven).
- 2—Time signal. Close down.
- 2.15—Result of the Men Handicap from the Manton R.C. Meeting.
- 2.45—Result of the Welter Plate.
- 3—Afternoon Session, 3 to 5.
- A special programme will be arranged by the Studio Orchestra. Results of the Manton R.C. Meeting will be given throughout the afternoon as they come to hand.
- 3.30—Stater Purcell, "Mothercraft."
- 3.45—"Argus" and "Herald" news services; Reuter's and the A.P.A. cables.
- 5—Time signal. Close down.
- Evening Session, 6 to 7.15.
- 6—Children's Hour. Stories by Wally Bill; New Tales of the Magic Circle; "The Loss of Oberon's Ring."
- 6.45—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
- 6.53—Weather synopsis; shipping movements.
- 6.57—Stock Exchange information.
- 7.2—Fish market reports by J. R. Borrett Ltd.
- 7.4—Fruit market reports by the State Fruit Advisory Board.
- 7.6—Market reports by the Victorian Producers' Cooperative Co. Ltd.
- Night Session, 7.30 to 11.
- 7.30—Mr. W. Thomas, Assistant General Superintendent of Transportation, "Railway Conditions in America."
- 7.40—Mr. A. E. McMicklen, "Grea Writors"—J. M. Burrie."
- 8—The Studio Orchestra, "Dance of the Dwarf and Giant" (Brooks), "The Woodland Fairy" (Greig).
- 8.13—Miss Rosalind Harting, contralto, "The Fairy Pipers" (Brewer), "The Sandman" (Brahms).

- 8.20—Miss Agnes Furlans, piano solo, "Golfwooge Cake Walk" (Rachmaninoff).
- 8.26—Mr. Frank Davies, bass, "The Pixie Piper Man" (Elliott), "From Oberon in Fairyland" (Slater).
- 8.33—The Studio Orchestra, selection, "The Fire" (Fauré).
- 8.43—Miss Isabel Eckersall, soprano, "Fairy Laundry" (Phillips), "The Fairy Song" (Boughton).
- 8.50—The Lopez Hawaiians, ukulele selections, "Hilo March Madley," "Drowsy Waters," "Hula Girl," "Ukulele Lady."
- 9.2—Captain Peters, "Books, Wise and Otherwise."
- 9.17—Nigger Minstrel Show, produced by Mr. Darvall Thomas, late of the Tivoli Minstrels, which will include the following soloists: Mr. Darvall Thomas, "Lily of Laguna"; Mr. Tom Brudrick, "Poor old Jem"; Mr. Vernon Robertson, "Juanita"; Mr. Howell Williams, "Hundred Bathoms Deep"; interspersed with topical gags and melodious ensembles.
- 10.2—"Argus" and "Herald" news.
- 10.5—The Lopez Hawaiians, ukulele selections, "Hawaiian Smiles," "Sweet Hawaiian Girl of Mine," "Hawaiian Hotel."
- 10.15—Miss Rosalind Harting, contralto, "That's All" (Brahm), "Till I Wake" (Pindon).
- 10.22—Miss Tamara Tierman, cello solo, "Dreams of Love" (Liszt).
- 10.28—Mr. Frank Davies, bass, "Still as the Night" (Bokm), "The Floral Dance" (Moss).
- 10.35—Mr. Walter Smith, cornet solo, "When You Come Home" (Squire).
- 10.40—Miss Isabel Eckersall, soprano, "My Sweet Repose" (Schubert), "Lullaby" (Brahms).

- 10.46—The Studio Orchestra, "The Arcadians" (Monckton).
- 11—"God Save the King."

## THURSDAY, FEBRUARY 25.

- Midday Session, 12 to 2.
- 12—Time signal; British official wireless news from Rugby; Reuter's and the Australian Press Association cables; "Argus" and "Herald" news services; shipping intelligence.
- 12.45—Stock Exchange information.
- 12.50—Meteorological information; weather forecasts for Victoria, Tasmania, S. Australia, and N.S.W.; ocean forecast; river reports.
- 1—Time signal.
- 1.1—The Studio Orchestra, overture, "Prometheus" (Beethoven).
- 1.9—Fox trot, "The Kinky Kids' Parade" (Donaldson).
- 1.14—Mr. Harry Ratcliffe, now playing "Kappel" in "Lilac Time" at the Theatre Royal, by permission of J. O. Williamson Ltd., "Memory Lane."
- 1.17—Miss Tamara Tierman, cello solo, "Elegie" (Goens).
- 1.24—Orchestra, "Meditation" (Tschaiikowsky).
- 1.31—Mr. Harry Ratcliffe, baritone, "Old Shako."
- 1.34—Instrumental Trio, "Londonderry Air" (Kreisler).
- 1.41—Orchestra, "Say, who is that Baby Doll" (Lange).
- 1.46—Mr. Harry Ratcliffe, baritone, "Indian Summer" (Luko).
- 2—Time signal. Close down.
- Afternoon Session, 3 to 5.45.
- 3—Time signal.
- 3.1—The Studio Orchestra, selection, "Old Folks at Home and in Foreign Lands."
- 3.13—Mr. Walter Smith, cornet solo, "The Hard Norsooman" (Round).
- 3.20—Orchestra, "Night Song" (Williams).
- 3.28—Miss Violet Jackson, soprano, "Jewel Song" (Gounod), "Robin Adair."
- 3.5—Orchestra, "Evolution Blues" (Olson), "Spanish Serenade" (Erml).
- 3.45—Miss Louise Moorhead and Mr. William Tansh in "The Perfect Pair," a dialogue by Vera Beringer.
- 4.5—The Studio Orchestra, "Serenade" (Rachmaninoff).
- 4.13—Miss Violet Jackson, soprano, "Una Voce poco fa" (Rossini), "Lass with the Delicate Air."
- 4.20—The Studio Orchestra, "Momento Capriccioso" (Waber).
- 4.28—Miss Bessie Gannon, violin solo, "Walther's Praesled" (Wagner).
- 4.34—Instrumental Trio, "La Serenata" (Bran).
- 4.40—The Studio Orchestra, fox trot, "Ukulele Lady."
- 4.45—"Argus" and "Herald" news; Reuter's and the Australian Press Association cables.
- 5—Choral Evensong, from St. Paul's Cathedral.
- 5.45—Time signal. Close down.
- Evening Session, 6 to 7.15.
- 6—Children's Hour. Stories by Mary Gumbrell; Poems "Rice Pudding," "Milkmaid" for the Billets, ones, "Playing on the Sand"; boys and girls, "The Story of Hiawatha."
- 6.45—"Argus" and "Herald" news services; Reuter's and the Australian Press Association cables.
- 6.53—Weather synopsis; shipping movements.
- 6.57—Stock Exchange information.
- 7.2—Fish market reports by J. R. Borrett Ltd.

Complete Parts for Loose Coupler Sets, 11/6.

The Marvellous Talking Taps, 7/6

Loud Speakers:

Sterling Dinkie, £1/10/6.

Ediswan Dulcivox, £2/10/.

Amplifiers Complete with Valves and A and B Batteries from £3/10/.

Valve Sets Complete from 26/.

Terms arranged on all kinds of Radio Goods.

**Slingsby & Coles Ltd.**

THE RELIABLE RADIO HOUSE,

482 PITT STREET

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

- 7.4—Fruit market reports by the State Fruit Advisory Board.  
7.6—Market reports by the Victorian Producers' Co-operative Co. Ltd.  
8—Night Session, 7.30 to 11.  
7.20—Madame S. E. Soward, "Los Enos de Mr. Belasco."  
8—The Studio Orchestra, "Lazy."  
"Don't bring Lulu."  
8.10—Violet Jackson, soprano, "Hark, hark, the lark" (Schumann), "Creole Cradle Song" (Chasman).  
8.17—The Studio Orchestra, one step, "Simplicity," "Arabia."  
8.27—Alabama Bob Albright, the cow boy comedian, will speak from his dressing room at the Tivoli Theatre, permission Musgrove Theatres Ltd.  
8—The Studio Orchestra, waltz, "When I dream of the last waltz with you," "Lassie o' Mine."  
8.52—Kenneth Impett, baritone, "Ho, Jolly Jenkin," "Hope the Hornblower" (Ireland).  
9—The Studio Orchestra, fox trot, "Tangletoes," "I'm sitting on top of the World."  
9.12—Olive Deaven, mezzo-soprano, "Photos of Arady" (James), "Glamours" (H. Wilson).  
9.10—The Studio Orchestra, fox trot, "Uncle Lady," "Honeymoon Blues."  
9.29—Norman Pill, entertainer, "An 'ot water bottle 'ot," "The Lounge."  
9—The Studio Orchestra, waltz, "Honest and Truly," "Haunting Melody."  
9.46—Violet Jackson, soprano, "Four Leaf Clover," "Charlie is my Darling."  
9.53—The Studio Orchestra, fox trot, "Puter Pan," "Yearning."  
10.3—"Argus," news service.  
10.6—Kenneth Impett, baritone, "Song of the Waggoner," "By the North Sea."  
10.13—The Studio Orchestra, waltz, "If the rest of the world don't want you," "Wait till the morning after."  
10.25—Olive Deaven, mezzo-soprano, "My Little Welsh Home," "April Morn" (Batten).  
10.30—The Studio Orchestra, fox trot, "Say, who is the Baby Doll," "Chu Chu Sen."  
10.40—Norman Pill, entertainer, "No, I don't like to do that," "A serial story."  
10.47—The Studio Orchestra, fox trot, "Pleasantly Blown," "Hamadan."  
11—"God Save the King."

## 3AR

Wavelength, 484 metres. Power, 1600 Watts.

## FRIDAY, FEBRUARY 19.

- Morning Session.  
12 noon—Time Signal; 1st Weather Forecast; Events of the Day; The Age News Bulletin; British Official Press, received by 3AR's operator, from Rugby Super Station, England.  
12.15—Musical Selections.  
12.30—Stock Exchange News.  
12.35—Market Report.  
12.40—Musical Selections.  
12.45—Mail Notices; Shipping Movements.  
1—Selections from Hoyt's De Luxe.  
2—Close down.  
Afternoon Session.  
3.30—Selections by Hoyt's Premier Orchestra, under the direction of Miss Alice Brown.  
4.35—Grenich Social News.  
4—Time Signal.  
4.1—2nd Weather Forecast.

- 4.30—Mr. Stanley Haines of Brunning's Pty. Ltd., will speak to the children on "Interesting Botany."  
4.43—Selections by Hoyt's Premier Orchestra.  
5—Close down.  
Early Evening Session.  
6.45 to 7.30—The Children's Corner by Uncle Peter, 1. The Bedtime Story; 2. Talk on Hobbies; 3. The Children's Jig Saw Painting Competition.  
7—Time Signal.  
8.1—Mr. Fred Mitty, special Racing Commissioner, to 3AR will give his weekly Racing Anticipations.  
8.10—Mr. R. Stanley Haines will speak on "Vegetables, and What to Grow."  
8.25—Miss Margaret Driffin (soprano).  
8.30—Madame Royer-Easton (French talk), Etude des voyelles à lettre—a-Hist'ou'ra Jaques—  
8.38—Miss Wynne Daniels (soprano).  
8.50—Mr. Anthony Lucas (flautist).  
8.55—Miss Constance Evans (mezzo-soprano).  
9.05—Mr. Reg. Hayward (baritone).  
9.12—Miss Ruby Callbane (solo pianiste).  
9.18—Miss Leahy Callahan (solo pianiste).  
9.26—Miss Margaret Driffin (soprano).  
9.30—Mr. Anthony Lucas (flautist).  
9.37—Miss Wynne Daniels (soprano).  
9.41—Mr. Reg. Hayward (baritone).  
9.45—Miss Leahy Callahan (solo pianiste).  
9.53—Miss Constance Evans (mezzo-soprano).  
10—Time Signal.  
10.1—The Age News Bulletin, exclusive to 3AR.  
10.15—Hoyt's Premier Orchestra until closing down. National Anthem.

## SATURDAY, FEBRUARY 20.

- Morning Session.  
12—Time Signal; 1st Weather Forecast; The British Government Wireless Press, received by 3AR's operator, from Rugby Super Wireless Station, England; The Age News Bulletin.  
12.15—Musical Selections.  
12.30—Stock Exchange News.  
12.35—Market Reports.  
12.40—Musical Selections.  
12.55—Mail Notices; Shipping Movements.  
1—Close down.  
Afternoon Session.  
Golfed Races.  
1.30—Result of St. Lais Trial Handicap.  
2.30—Result of Alma Stakes.  
3.5—Result of Woodville Handicap.  
4.30—Hoyt's Premier Orchestra.  
4.35—Description white racing of Futurity Stakes.  
4—Time Signal.  
4.20—Description white racing of Stanley Sweick.  
4.35—Result of Hawkeburn Handicap.  
4.5—The Evening Amusement Guide.  
5—Close down.  
Early Evening Session.  
6.45 to 7.30—The Children's Corner by Uncle Peter, 1. The Bedtime Story; 2. The Talk on Hobbies; 3. The Children's Jig Saw Painting Competition. This week's special prize will be £10.  
7—Time Signal; Sporting Results: Local News.  
7.15—Dance Night. The Rykdale Dance Orchestra, roared from the Maison De Luxe, Broadway, St. Kilda.  
9.30—Week-End Travelers Information, supplied by the Victorian Railways Department and the Tramways Board.  
9.50—The Maison De Luxe Dance Orchestra.  
11—National Anthem and Close down.

## SUNDAY, FEBRUARY 21.

- Morning Session.  
10.30—Bells from St. James' Old Cathedral.  
11—Service from St. James' Old Cathedral, Perth, Scotland. Now the Bright Lily the Sky; Venio; Psalm 51; Lesson; Gospel; XIX. 12-20; Te Deum; Ante Communion Service; Hymn; When Wounded rose the Stricken Heart; Sermon; Rev. A. A. Bennett; Hymn; O Jesus Thou art Standing.  
Afternoon Session.  
3—Time Signal. Transmission from the Queen's Hall, Collins Street, by arrange-

- ment with the Debuting Music Club. The Debuting String Quartet (Haydn No. 1) 2nd and 3rd Movements; Miss Dorothy Mattingley (solo pianiste); Miss Margaret Driffin (soprano); Miss Alice Davies (solo violinist); Interval; Miss Sheila Marie will lecture on "The Life of the Musical Student in London."  
Evening Session.  
6.30—The Bells from St. James' Old Cathedral.  
7—Service from St. James' Old Cathedral, Perth, Scotland. Now the Bright Lily the Sky; Venio; Psalm 51; Lesson; Gospel; XXII. 1-20; Canticle; Lesson; To The Great God O'er All; Sermon; Canon Lambie; Hymn; Antiphon in Time Thy Mercy's Day; Recessional; Antiphon with Mr. G.  
8.50—From the Studio, Captain H. J. Larkin will speak on Aeronautes.  
9—The Ellipen Grand Orchestra, relayed from the Ellipen Theatre, Port Melbourne, Debuting under the direction of Mr. George Henry.  
9.50—The Age News Bulletin exclusive to 3AR.  
9.55—National Anthem and Close down.

## MONDAY, FEBRUARY 22.

- Morning Session.  
12 noon—Time Signal; 1st Weather Forecast; The British Government Wireless Press, received by 3AR's operator, from Rugby Super Wireless Station, England; Events of the Day; The Age News Bulletin.  
12.15—Musical Selections.  
12.30—Stock Exchange News.  
12.35—Market Reports.  
12.40—Musical Selections.  
12.55—Mail Notices; Shipping Movements.  
1—Selections from Hoyt's De Luxe.  
2—Close down.  
Afternoon Session.  
3.30—Hoyt's Premier Orchestra.  
3.45—The Graphic News.  
4—Time Signal.  
4.1—2nd Weather Forecast.  
4.25—Hoyt's Premier Orchestra.  
4.5—The Evening Amusement Guide.  
Early Evening Session.  
6.45 to 7.30—The Children's Corner by Uncle Peter, 1. The Bedtime Story; 2. Talk on Hobbies; 3. The Children's Jig Saw Painting Competition. This week's special prize £17.1; 2nd Prize, 10/6.  
7—Time Signal.  
8.1—Mr. Norman Sheppard (baritone).  
8.8—Miss Vera Fortong (soprano).  
8.15—Miss Phyllis Shattock (solo pianiste).  
8.23—Miss Anne Jefferys (concertinist).  
8.30—Mr. R. G. Cole (baritone).  
8.38—Miss Therese Grove (solo violinist).  
8.45—Miss Phyllis Hall (mezzo-soprano).  
8.52—Miss Lois Lathlean (mezzo-soprano).  
8.55—Miss Phyllis Shattock (solo pianiste).  
9.7—Miss Vera Fortong (soprano).  
9.15—Transmission from the Queen's Hall, by arrangement with I. Borosford Fowler, the second Act of Gilda Sowerby's grand drama "Rutherford and Son" will be presented by the "Little Art Company."  
9.45 (Approximately). From the Studio Miss T. Crowe (solo violinist).  
9.51—Miss Anne Jefferys (concertinist).  
10—Time Signal.  
10.1—The Age News Bulletin, exclusive to 3AR.  
10.10—Hoyt's Premier Orchestra until closing down. National Anthem.
- TUESDAY, FEBRUARY 23.  
Morning Session.  
12 noon—Time Signal; 1st Weather Forecast; British Government Wireless Press, received by 3AR's operator, from Rugby Super Wireless Station, England; The Age News Bulletin; Events of the Day.  
12.15—Musical Selections.  
12.30—Stock Exchange News.  
12.35—Market Reports.  
12.40—Musical Selections.  
12.55—Mail Notices; Shipping Movements.  
1—Selections from Hoyt's De Luxe.  
2—Close down.

Afternoon Session.  
 3.30—Musical Selections by Hoyt's Premier Orchestra.  
 3.45—Graphic News.  
 4—Time Signal.  
 4.1—2nd Weather Forecast.  
 4.15—Hoyt's Premier Orchestra.  
 4.55—Evening Amusement Guide.  
 5—Close down.

Early Evening Session.  
 6.45 to 7.30—The Children's Corner by Uncle Peter, 1. The Bedtime Story; 2. Talk on Hobbies; 3. The Children's Jig Saw Painting Competition. This week's special prize, £1/1/-; 2nd Prize, 10/6.  
 8—Time Signal.

8.1—Miss Dorothy Mattingley (solo pianiste).  
 8.2—Mrs. Cruikebank (soprano-soprano).  
 8.15—Mr. Eugene Donald (tenor).  
 8.22—Mr. David Shaw (baritone).  
 8.29—Mr. Julian James (baritone).  
 8.36—Miss Isabel Hertz (soprano).  
 8.43—Miss D. Borchers (elocutionist).  
 8.50—Mrs. John Beaman (soprano).  
 8.57—Miss Dorothy Maudgley (pianiste).  
 9.4—Mrs. Eugene Donald (tenor).  
 9.11—Mrs. Cruikebank (soprano-soprano).  
 9.18—Mr. Julian James (baritone).  
 9.2—Mrs. David Shaw (baritone).  
 9.22—Miss Elsie Mitchell (soprano).  
 9.29—Miss D. Borchers (elocutionist).  
 9.46—Miss Isabel Hertz (soprano).  
 9.53—Miss Margaret Green (contralto).  
 10—Time Signal.  
 10.1—The Age News Bulletin, exclusive to 3AR.  
 10.10—The Premier Orchestra until closing down. National Anthem.

WEDNESDAY, FEBRUARY 24.

Morning Session.  
 12 noon—Time Signal; 1st Weather Forecast; The British Government Wireless Press, received by 3AR's operator from Rugby Super Wireless Station, England; The Events of the Day; The Age News Bulletin.  
 12.15—Musical Selections.  
 12.30—Stock Exchange News.  
 12.35—Market Reports.  
 12.40—Musical Selections.  
 12.55—Mail Notices; Shipping Movements.  
 1—Selections from Hoyt's De Luxe.  
 2—Close down.

Afternoon Session.  
 Mentone Races.  
 2.15—Result of Open Handicap.  
 2.45—Result of Welter Plate.  
 3.15—Description while racing of Brash Steeple.  
 3.30—Hoyt's Premier Orchestra.  
 3.45—Description while racing of Mentone Handicap.  
 4—Time Signal; Graphic News.  
 4.1—2nd Weather Forecast.  
 4.2—Hoyt's Premier Orchestra.  
 4.15—Result of Trial Welter.  
 4.20—Hoyt's Premier Orchestra.  
 4.35—Result of Jumpers Flat.  
 4.55—The Evening Amusement Guide.  
 5—Close down.

Early Evening Session.  
 6.45 to 7.30—The Children's Corner by Uncle Rad, 1. The Bedtime Story; 2. Talk on Hobbies; 3. The Children's Jig Saw Painting Competition. This week's special prize, £1/1/-; 2nd prize, 10/6.  
 8—Time Signal.

8.1—Mr. Frank Hardman (baritone).  
 8.8—The Advance Orchestra; Selections, overtures, jazz.  
 8.25—Miss Margaret Chisholm (contralto).  
 8.30—Mr. J. Fraser will talk on Swimming (1st Series).  
 8.35—Miss Beryl Hawker (soprano).  
 8.42—Miss Boris Hawker (solo pianiste).  
 8.50—Miss Madge Fraser (elocutionist).  
 8.57—Miss Margaret Chisholm (contralto).  
 9.14—Mr. Howard Andrews (baritone).  
 9.21—Miss Beryl Hawker (soprano).  
 9.28—Miss Madge Fraser (elocutionist).  
 9.36—Mr. Leo McEwan (tenor).  
 9.43—The Advance Orchestra; Popular Selections.  
 10—Time Signal.  
 10.1—The Age News Bulletin, exclusive to

3AR.  
 10.19 Hoyt's Premier Orchestra, until closing down; National Anthem.

THURSDAY, FEBRUARY 25.

Morning Session.  
 12 noon—Time Signal; 1st Weather Forecast; The British Government Wireless Press, received from Rugby Super Station, England; The Age News Bulletin.  
 12.15—Musical Selections.  
 12.30—Stock Exchange News.  
 12.35—Market Reports.  
 12.40—Musical Selections.  
 12.55—Mail Notices; Shipping Movements.  
 1—Selections from Hoyt's De Luxe.  
 2—Close down.

Afternoon Session.  
 3.30—Hoyt's Premier Orchestra.  
 3.45—Graphic News.  
 4—Time Signal.  
 4.1—2nd Weather Forecast.  
 4.30—Mons. Robando, of Paris, will give his weekly talk on "Fashions".  
 4.50—Special Big and Giant Report, supplied by Messrs. McPhail, Anderson & Co.  
 4.55—The Evening Amusement Guide.  
 5—Close down.

Early Evening Session.  
 6.45 to 7.30—The Children's Corner by Uncle Peter, 1. The Bedtime Story; 2. Talk on Hobbies; 3. The Children's Jig Saw Painting Competition. This week's special prize, £1/1/-; 2nd, 10/6.  
 8—Time Signal.

8.1—Lecturette: The Care and Feeding of Infants.  
 8.15—Hoyt's Premier Orchestra.  
 8.30—Weekly Radio Chat by "Radex" (Mr. J. Len Bain) and under the auspices of the Popular Radio Weekly. Subject: High Frequencies and Short Waves.  
 9—Dance Night. The Rhythmic Dance Orchestra, under the direction of Mr. George Lewis, relayed from the Maison De Luxe, Broadway, St. Kilda.  
 9.30—Hoyt's Premier Orchestra.  
 10—Time Signal.  
 10.1—The Age News Bulletin, exclusive to 3AR; The Maison De Luxe Dance Orchestra.  
 11—National Anthem and Close down.

Evening Session (6.30 to 10.30).  
 6.30—G.P.O. Chimes.  
 6.31—Bedtime Stories for the Children.  
 7.30—Stock Exchange and Market Reports.  
 7.40—Sporting Talk by Old Timer.  
 8—G.P.O. Chimes.

8.1—Studio Concert, under direction of Miss Linda Wald; piano solo: Selection; Miss Mary Messing; quartets: In this hour of untold splendour; Calm as the Sea, Misses Linda Wald and Jean Sinclair; and Mezzo, J. Riley and Mianji Skinner; soprano songs: Sing Joyous Birds; Carissima; The Plumes of Arcady; Miss Linda Wald; vocalists: The Lost Chord; A Miniature; Si meo vera avient des ailes; Miss Jean Sinclair; tenor songs: Nirvana; It is a Charming girl I Love; Friend of Mine; Mr. Jim Hiley; baritone songs: The Sun God, Kathleen Song; Marabla; Mr. Moxey; Soprano; Duet: Venetian Song; Misses L. Wald and J. Sinclair; Land of Long Ago, Messrs. J. Riley and M. Skinner; violin solo: Andantino from String Quartette (Tchaikowski-Kreisler); Meditation (Giazoumoff), Romances (Wieniawski); Miss G. Mangory; recitals: The Coming out of the White Swan; The Ladies, Mr. F. Part; humorous monologue: Selected, Mr. F. Part; Accompanist, Miss May Mogan.

9—G.P.O. Chimes.  
 9.1—Weather Reports.  
 9.2—Studio Concert, Continued.  
 10—G.P.O. Chimes.  
 10.1—Studio Concert, Continued.  
 10.15—Advertiser News Service.  
 10.30—Station Announcements; To-morrow's programme; National Anthem; Good-Night.

SATURDAY, FEBRUARY 26.

Morning Session (10.30 a.m. to 12 Noon).  
 10.30—G.P.O. Chimes.  
 10.31—The SCL Studio Orchestra will play: Selection: Little Dutch Girl (Kalaid); violin solo: Song my Mother Taught me (Dvornak); fox trot: Scenes that are Brightest Hargreaves; instrumental trio: Ballet of Trees (Dyckman); waltz: Caretina Moon (Schmidt); columbine suite: (Elliot); cornet solo: The world is waiting for his Sunrise (Brett); oriental: Chinese Lantern Dance (Eugene Bores); finale: Selection: carmen (Bisot).  
 11.45—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis.  
 12—G.P.O. Chimes.

Afternoon Session.

Relay from the feather Ball Course. Running description of the Races.  
 Evening Session (6.30 to 10.30).  
 6.30—G.P.O. Chimes.  
 6.31—Bedtime Stories for the Children.  
 7.30—Market Reports.  
 7.40—A review of the world's chief sporting events.  
 8—G.P.O. Chimes.

8.1—Studio Concert arranged by Miss Florence Clement; Quartets: Mrs. Miss M., Mr. C. Turner and Mr. Rice; piano solo: Miss D. Clement; song: Miss M. Turner; recital: Miss G. Rowney; violin solo: Mr. J. Prider; solos: Mr. C. Turner; monologue: Miss F. Clement; song: Miss D. Clement; cornet solo: Mr. F. Waldman; violin solo: Mr. J. Prider; duet: Miss M. and Mr. C. Turner; recital: Miss B. Russell; A.L.C.M.; piano solo: Mr. L. Prider; song: Miss G. Rowney; violin solo: Mr. J. Prider; song: Miss M. Turner; recital: Miss F. Clement; song: Miss D. Clement; cornet solo: Mr. F. Waldman; song: Mr. C. Turner; duet: Miss M. and Mr. G. Turner; Quartette: Mrs. Miss M., Mr. G. Turner and Mr. Rice.  
 9—G.P.O. Chimes.  
 9.1—Weather Reports.  
 9.2—Studio Concert, continued.  
 10—G.P.O. Chimes.  
 10.1—Studio Concert, continued.  
 10.15—Advertiser News Service.  
 10.30—Station Announcements; To-morrow's programme; National Anthem; Good-Night.

5CL

CENTRAL BROADCASTERS LTD.  
 Call Sign, 50L. Wavelength, 395 metres. Input, 5 K.W.

FRIDAY, FEBRUARY 19.

Morning Session (11.30 a.m. to 2 p.m.)  
 11.30—G.P.O. Chimes.  
 11.33—Stock duo Art and Aerial Vocalian recitals.  
 12—G.P.O. Chimes.  
 12.1—News and Cable Service.  
 12.10—The SCL Studio Orchestra will play: Selection: The Maid of the Mountains (Sinclair); cornet solo: Ruses of Peardy (Haydn Wood); soprano peitto: (Zanussi); fox trot: Rags and Silks (McCarthy); instrumental: Let's Air (Bach); Ballet barbarian; (Zanussi); musical: (Donatelli); waltz: After the Dawn (Hagen); finale: Lucia di Lammermoor (Donizetti).  
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and official weather synopsis.  
 2—G.P.O. Chimes.  
 2—G.P.O. Chimes.  
 2.4—P.M. Chimes.  
 2.45—Afternoon Session (3 to 5).  
 3—Relay from Maple Leaf café; Orchestral numbers.  
 3.15—Broadcast from the Studio: Social Story.  
 4—G.P.O. Chimes.  
 4.1—Broadcast from Arcadia Cafe; Orchestral numbers.  
 4.55—Stock Exchange Reports and General Information.  
 5—G.P.O. Chimes.

## SUNDAY, FEBRUARY 21.

- 11—Broadcast from Blundells Street Baptist Church—Divine Service.  
Evening Session.  
6.30—Bedtime Stories for the Children.  
6.45—Broadcast from Rose Park Congregational Church—Divine Service.  
8.15—Mr. P. H. Nicholls: The Power of Thought.  
8.40—Broadcast from Elder Park Rotalunda Band Concert; Station announcements; to-morrow's Programme; National Anthem; Good-Night.

## MONDAY, FEBRUARY 22.

- Morning Session (11.30 a.m. to 2 p.m.)  
11.30—G.P.O. Chimes.  
11.51—Stock duo Art and Acolian Vocalian recitals.  
12—G.P.O. Chimes.  
12.1—News and Cable Service.  
12.30—The SCL Studio Orchestra will play: Overture; Cello solo; fox trot; Instrumental Trio; Novalette; Selection; romance; waltz; finale.  
1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis.  
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.  
4.3—Broadcast from Arcadia Cafe: Orchestral numbers.  
4.55—Stock Exchange Reports and General Information.  
5—G.P.O. Chimes.  
Evening Session (6.30 to 10.30).  
6.30—G.P.O. Chimes.  
6.31—Bedtime Stories for the Children.  
7.30—Stock Exchange and Market Reports.  
7.40—Swimming talk by Mr. Brentwight.  
8—G.P.O. Chimes.

- 8.1—A special programme of Band Music, interspersed with vocal items, by Campbelltown Band.  
9—G.P.O. Chimes.  
9.1—Weather Reports.  
9.5—Band Music, continued.  
10—G.P.O. Chimes.  
10.1—Band Music, continued.  
10.15—Advertiser News Service.  
10.30—Station announcement; To-morrow's Programme; National Anthem; Good-Night.

## TUESDAY, FEBRUARY 23.

- Morning Session (11.30 a.m. to 2 p.m.)  
11.30—G.P.O. Chimes.  
11.51—Stock duo Art and Acolian Vocalian recitals.  
12—G.P.O. Chimes.  
12.1—News and Cable Service.  
12.10—The SCL Studio Orchestra will play: Overture; cornet solo; fox trot; dance; passepied; Allegro Moderato from undivided symphony; oriental; waltz; finale.  
1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis.  
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.  
4.3—Broadcast from Arcadia Cafe: Orchestral numbers.  
4.55—Stock Exchange Reports and General Information.  
5—G.P.O. Chimes.  
Evening Session (6.30 to 10.30).  
6.30—G.P.O. Chimes.  
6.31—Bedtime Stories for the Children.  
7.30—Stock Exchange and Market Reports.  
7.40—Physical Culture talk by Mr. Noel H. Hubble.  
8—G.P.O. Chimes.  
8.1—Studio Concert arranged by Madame Bernstein: Piano solo; song; violin solo; song; piano solo; song; violin solo; songs (3);

- violin solo; song; selected; (by request); piano solo.  
8.30—A cookery talk arranged by S.A. Gas Co.  
8.40—Studio Concert, as above, continued.  
9—G.P.O. Chimes.  
9.1—Weather Reports.  
9.3—Studio Concert, as above, continued.  
9.15—Studio Concert arranged by Mrs J. Keith Soward, Accompanist: Miss W. A. Cook, A. L. G. M. Songs: Bread my Lattice, Summer Song, My Day at Inslong, Mrs Eric Clark; Songs: Selected, Mr. Clive Roberts; Songs: Little Brown Cottage, Juanesca, The Vessaire, Mrs. W. Harry; Piano solo: Mr. Clive Robert; songs: A benediction, Morning, The Moorish Maid, Mrs. W. Keith Soward; songs: Selected, Miss May Howard; Items by Kiera Main Quartette; songs: Mr. Suedes; Mandolin items: La Serrata, Yearning, Mis Tasker and Miss King; recitals: Mr. George Goldsmith; Mandolin solo: Miss Kleitz, etc., etc.  
10—G.P.O. Chimes.  
10.1—Studio Concert, continued.  
10.15—Advertiser News Service.  
10.30—Station Announcements; To-morrow's Programme; National Anthem; Good-Night.

## WEDNESDAY, FEBRUARY 24.

- Morning Session (11.30 a.m. to 2 p.m.)  
11.30—G.P.O. Chimes.  
11.51—Stock duo Art and Acolian Vocalian recitals.  
12—G.P.O. Chimes.  
12.1—News and Cable Service.  
12.30—The SCL Studio Orchestra will play: Selection: cornet solo; fox trot; intermezzo; caprice; selection; violin song from 'Tina'; waltz; finale.  
1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis.  
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 and General Information.  
5—G.P.O. Chimes.  
Evening Session (6.30 to 10.30).  
6.30—G.P.O. Chimes.  
6.31—Bedtime Stories for the Children.  
7.30—Stock Exchange and Market Reports.  
7.40—Boy Scouts' Lecture.  
8—G.P.O. Chimes.

- 3.1—Vocal and instrumental items under the direction of Mr. Hedley Ellis: Orchestral numbers by the Premier Jazz Band; vocal items: selections: violin solo; cello; subsidiary items: pianoforte solo; pianoforte duet.  
9—G.P.O. Chimes.  
9.1—Weather Reports.  
9.5—Band Music, as above, continued.  
10—G.P.O. Chimes.  
10.1—Concert, as above, continued.  
10.15—Advertiser News Service.  
10.30—Station Announcements; To-morrow's Programme; National Anthem; Good-Night.

## THURSDAY, FEBRUARY 25.

- Morning Session (11.30 a.m. to 2 p.m.)  
11.30—G.P.O. Chimes.  
11.51—Stock duo Art and Acolian Vocalian recitals.  
12—G.P.O. Chimes.  
12.1—News and Cable Service.  
12.30—The SCL Studio Orchestra will play: Selections: violin solo; fox trot; instrumental trio; cornet solo; side trios; suite: music poems; novalette; finale.  
1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis.  
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 and General Information.  
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.  
7.35—Health Talk arranged by Mr. A. M. Whitcomb.  
7.50—Stock Exchange and Market Reports.  
7.40—A Talk on Poultry by Mr. A. M. Whitcomb.  
8—G.P.O. Chimes.  
8.1—Royal Hotel Lodge No. 2, Independent Order of Oddfellows Manchester Unity 84th Anniversary. Programme arranged by Brother A. J. Radford: Overture; song: moonlight; song: tropical; decl: personalities; song; song: merriment; community singing song; song; humoristics; song: recital; song: songs; personalities; and the piano: Broc. Ben C. Watson and Chas. J. Hewitt.  
9—G.P.O. Chimes.  
9.1—Weather Reports.  
9.3—Oddfellows' Anniversary, continued.  
10—G.P.O. Chimes.  
10.1—Oddfellows' Anniversary, continued.  
10.15—Advertiser News Service.  
10.30—Station Announcements; To-morrow's Programme; National Anthem; Close down.

4QG

## QUEENSLAND RADIO SERVICE.

Wavelength, 385 metres.

## FRIDAY, FEBRUARY 19.

- Middy Session.  
12.55—Tune-in signal.  
1—Market reports supplied by the Council of Agriculture; Stock Exchange information supplied by the Committee of the Brisbane Stock Exchange; weather information supplied by the Commonwealth Weather Bureau; 'Daily Standard' news service. Close down, Night Session.  
8—Time-in to the Tivoli Theatre.  
8.5—From the Studio: Centralo solo, 'A request' (Woodford-Pinden), Mrs. Chas. Wilkey; banjo mandolin, 'Yearning' (Davis & Burke), Mr. Bartfield; baritone solo, 'Friend' (Cara Davley), Mr. S. Mitchell; instrumental number, 'Privious Cupid' (Leary) the Studio Trio; tenor solo, 'The Bloom is on the Rye' (Bishop), Mr. John Steel; cornet solo, 'The Flight of Ages' (Bevan), Mr. S. Henry; soprano solo, 'Salce Salce' from 'Oleale' (Ford), Miss Beryl Solomons; group of banjo numbers by Mr. N. Gould; bass solo, 'The Last Call' (Sanderson), Mr. C. Harvey.  
8.50—Weather information officially supplied by the Commonwealth Weather Bureau.  
8.55—Announcements.  
9—Centralo solo, 'The King's Way' (Eggar), Mrs. Chas. Wilkey; banjo mandolin, 'Moon River' (Lee David), Mr. F. Sutcliffe; baritone solo, 'The Company Sergeant-Major' (Sanderson), Mr. S. Mitchell; instrumental number, 'Fun Filtration' (Jackson), the Studio Trio; tenor solo, 'Go, Lovely Rose' (Gullter), Mr. John Steel; cornet solo, 'Schachtel' (Harlan), Mr. S. Henry; soprano solo, 'From the Land of Sky-Blue Water' (Codman), Miss Beryl Solomons; group of banjo numbers by Mr. N. Gould; bass solo, 'Yale' (Kennedy Russell), Mr. C. Harvey; vocal solo, 'At the Hill in the Morning' (Drummond),

(b) "Live, Laugh and Love" (Lkein), Mrs. Robt. Bell. 9.55—The "Daily Mail" news service. 10—Close down.

SATURDAY, FEBRUARY 20.

Morning Session. The complete morning service from the Seventh Day Adventist Church at Buraanda will be relayed.

10.55—Tune-in. 11—Opening hymn, "The Lord in Zion Reigneth," words by Pastor G. O. G., music by H. P. Danks; prayer; offertory and organ solo; solo, "Nearer My God to Thee," words by Sarah Adams, music by Lowell Mason, sung by Mr. H. Fallows; Scripture reading; hymn, "Men of God Arise," words by G. M. Anderson, music by J. Holbrook; sermon, "The Everlasting Gospel to all the World in this Generation," Pastor J. S. Stewart; hymn, "Where are the Reapers," words by Eben E. Rexford, music by Geo. F. Root; Benediction. Close down.

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.

8.25—Tune-in signal. 8.30—The Children's Hour. Nursery rhymes and music; bedtime stories by "The Sandman."

7.5—Close down. Night Session. 8—Tune-in to the Tivoli Theatre.

8.5—From the Studio: Baritone solo, "Shipsmate o' Mine" (Sanderson), Mr. G. B. McCutcheon; Aeolian selection, Hawaiian number, "Waltz of the Rigs"; contralto solo, "Sapphic Ode" (Brahms), Miss Vera Parker; mouth organ solo by "The Sandman"; bass solo, "Roses of Picardy" (Wood), Mr. A. L. North; Duo Art selection, by request, "Pierrot and Company"; soprano solo, "Happy Song" (Del Borgo), Miss Mabel Parker; Aeolian selection, Hawaiian music, "Somewhere in Honolulu" (Vandersloot); soprano solo, "Because" (D'Hardet), Miss Eileen McLennan; mouth organ solos by "The Sandman"; baritone solo, "The Blind Ploughman" (Clarke), Mr. G. B. McCutcheon; vocal duet, "Rose of My Heart" (Lohr), Misses Mabel and Vera Parker; bass solo, "Falmouth is a Pine Town" (Ronald), Mr. A. L. North; soprano solo, "Smilin' Through" (Penn), Miss Eileen McLennan.

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

8.55—Announcements.

9—From Lennon's Ballroom: By courtesy of the proprietors an hour and a half's dance music by Miss Max Dobbyn's Vice-Regal Orchestra will be relayed from Lennon's Ballroom.

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

SUNDAY, FEBRUARY 21.

Morning Session. The complete morning service from All Saints' Church will be relayed. 10.55—Tune-in signal. 11—First Sunday in Lent. Music by Herbeck; Introit, "The Past as

Present"; sermon by the Rev. R. O. S. Free; offertory hymn, "Forty Days and Forty Nights," No. 75; Communion hymn, "Jesus, these Eyes have never seen," No. 421; hymn after blessing, "Father, we thank Thee."

Afternoon Session. The band concert provided in the Botanical Gardens will be relayed.

3.10—Tune-in signal. 3.15—Band concert. 4.30—Close down.

Evening Session. The complete evening service from All Saints' Church will be relayed.

7.10—Tune-in signal. 7.15—Organ; Psalms Nos. 6 and 32; 1st Lesson, Genesis xiii, v. 1 to 19; offertory hymn, "Forty Days," No. 75; Magnificat; 2nd Lesson, St. Mark xiv, v. 1 to 10; Nunc Dimittis, Creed, etc.; hymn, "My God, I love Thee," No. 39; sermon by Rev. J. Cull; hymn, "Jeau, Lover of my soul," No. 414; intercessions; Litany, No. 632; blessing. The numbers refer to the English Hymnal.

Band Concert. At the conclusion of the church service the concert provided by the Greater Brisbane Municipal Concert Band in Wickham Park will be relayed. Overture, "Margherita D'Anjou" (Meyerbeer); piccolo solo, Scherzo, "Sylvia" (Le Tendre), Mr. H. Hall; song, "The Lover and the Bird" (Oughelmo), Mrs. C. Thomas; selection from "Samson and Delilah" (Saint-Saens); humoresque, "Has anybody here seen Kelly?" (Ballatet); song, "I Wonder if Love is a Dream" (Poster), Mrs. Con Thomas; selection from "Patience" (Sullivan).

MONDAY, FEBRUARY 22.

Morning Session. 9.25—Tune-in signal.

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

Night Session. The Children's Session.

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

6.25—Tune-in signal. 6.30—The Children's Hour. Nursery rhymes and music; bedtime stories by "The Sandman."

6.15—Close down.

Night Session. 8—Tune-in to the Tivoli Theatre.

8.5—From the Studio: Baritone solo, "Asleep in the Deep" (Lamb), Mr. P. C. Lloyd; lecturette, wireless, "Aerials," Mr. J. W. Robinson; contralto solo, "Children Asleep" (E. L. Mott), Mrs. Chas. Willey; organ solo, "Through Shadowed Valies" (Smith), Mr. W. H. Davies; baritone solo, "Adieu, Marie" (Adams), Mr. Laurence Sheridan; elocutionary number, "My Lady's Lamp" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-

den" (C. R. Brown), Mr. C. W. Cowan; tenor solo, "Dana" (McGill), Mr. John Steel; cornet solo, "Kathleen Mavourneen" (Fouch), Mr. W. H. Davies; motorists' corner, talk by Mr. W. J. Donohue; soprano solo, "Love's Gar-



- U-Double S-I-E" (Maya Crossley); waltzes, "Louisiana" (Wallace and Free), "Memory Lane" (L. Spier & Conrad), "Moonlight Memories" (V. Ross); one stanza, "If you knew Susie" (L. W. Gilbert and A. Baker); fox trots, "Bambalina" (V. Youmans and E. Stetart), "California, Here I Come" (A. Johnson), "Follow the Swallow" (R. Henderson); waltzes, "In Our Little Corner" (C. Clegg and W. Edwards); the Waltz Song from "Little Miss Bluebeard," "So this is Love" (Geortz).
- 10.—From the Studio: The "Daily Mail" news service. Close down.

**WEDNESDAY, FEBRUARY 24.**

## Midday Session.

- 12.55—Tune-in signal.  
1.—Market reports supplied by the Council of Agriculture; Stock Exchange information supplied by the Committee of the Brisbane Stock Exchange; weather information supplied by the Commonwealth Weather Bureau; "Daily Standard" news service. Close down.

## The Children's Session.

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

- 6.25—Tune-in signal.  
6.30.—The Children's Hour. Nursery rhymes and music, bedtime stories by "Little Miss Brisbane."  
7.15—Close down.  
Night Session.  
8.—Tune-in to the Tivoli Theatre.  
8.5.—From the Studio: Bass solo, "The Last Waltz" (Sanderson), Mr. J. P. Cornwall, pianoforte solo, "Waltz,"

- Op. 70 (Chopin), Miss Rae Phillips; soprano solo, "Elizabeth's Greeting" (Wagner), Miss Verna Morcom; group of banjo numbers by Mr. N. G. Gould; tenor solo, "Fauquier Funicular" (Dennis), Signor Corti; instrumental number, "Evenside" (Drigo), the Studio Trio; baritone solo, "Symphony" (Chas. Marshall), Mr. G. B. McCutcheon; Aeolian selection, waltz, "Lovely Lady" (Wood-Tavise-Rupp); cornet solo, "Maria Mari" (di Capua), S. Henry; baritone solo, "Joggin' along the Highway" (Samuel), Mr. S. Mitchell; Duo Ari selection, by request, "Three O'Clock in the Morning" (Rohde).

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

## 8.55—Announcements.

- 9.—Instrumental number, "Exquisite D'Arour" (Rose), the Studio Trio; bass solo, "Youth" (Allister), Mr. J. P. Cornwall; pianoforte solo, Sonata, "Balletique" (Beehoven), Miss Rae Phillips; soprano solo, "Thoughts I have Wings" (Lehmann), Miss Verna Morcom; group of banjo numbers by Mr. N. Gould; tenor solo, "O Sole Mio" (Di Capua), Signor Corti; cello solo, "Romance" (Berthold Four), Miss Petropoulos; baritone solo, "Tires for Jack" (Squire), Mr. S. Mitchell; cornet solo, "Pride Song" (Wagner), Mr. S. Henry; baritone solo, selected, Mr. G. B. McCutcheon; Aeolian Vocalion selection, quartette, "Honey, I want you now" (Coe); instrumental number, fox trot, "Sweet Man" (Pinkard), the Studio Trio; Aeolian selection, male quartette, "Plantation Lullaby" (Holman), sung by "The Shannon Four";  
9.55—The "Daily Mail" news service.

10.—Close down.

**THURSDAY, FEBRUARY 25.**

## Midday Session.

- 12.55—Tune-in signal.  
1.—Market Reports supplied by the Council of Agriculture; Stock Exchange information supplied by the Committee of the Brisbane Stock Exchange; Weather information supplied by the Commonwealth Weather Bureau; "Daily Standard" News Service; Close down.

## Night Session.

- 8.—Tune-in to the Tivoli Theatre.  
8.5.—From the Studio: Bass solo, Torcedor, song from "Carmen" (Bizet), Mr. A. L. North; Bookman's Rhapsody, A talk on Literature, by Mr. W. A. Brazier; contralto solo, An Emblem (Thompson), Mrs. Chas. Willey; instrumental number, Gossac Ravita (Tschakoff), The Studio Quartette; baritone solo, When my ship comes sailing home (Dorel), Mr. G. V. Woodland; soprano solo, Vias d'Arin from "La Tosca" (Puccini), Miss Beryl Solomons; Aeolian Vocalion selections, Orchestral No. No. Nancette, parts 1 and 2, played by The Revue Orchestra; bass solo, A ship off the old block (Squire), Mr. A. L. North; Duo Ari selection, Prelude (Rachmaninoff); contralto solo, The Wrath (Rae), Mrs. Chas. Willey; cello solo, Simple Ave (Thome), Miss Petropoulos; soprano solo, (a) The Star (Rogers), (b) What a wonderful world it would be (Lohi), Miss Beryl Solomons; instrumental number, Hungarian Dance No. 5 (Brahms), The Studio Quartette; baritone solo, I did not know (Totter), Mr. G. V. Woodland.  
8.50—Weather information officially supplied by the Commonwealth Weather Bureau.  
8.55—Announcements.  
9.—From the Band room: An impromptu programme of music by the Greater Brisbane Municipal Concert Band, under the leadership of Mr. E. Jackson, will be relayed from the band's room.  
9.55—From the Studio: "The Daily Mail" News Service; Close down.

**REDUCES STATIC.**

The very latest in Radio sets is now being manufactured by Sandel's Broadcasting Service 140 Balfour Road, Bellevue Hill, Sydney.

The set provides the missing link in good radio reception.

It employs resistance coupling but not with the usual type of resistance. The resistances are something altogether different.

For example, they stop the heavy drain on the B batteries, actually the set uses less current than a set with transformer coupling.

The tone is better than that given by any other resistance coupled set, and above all, the set only amplifies static to a very low degree.

Actually the set cuts out over 75 per cent. of the static heard with any other make of set.

This has been tested by us with an audibility meter both in the city and country.

3LO can be received without any interference from 2BL.

A special country model gives the same volume 500 miles away as it gives in the city. This was

proved by a test held at Wagga with a 4-valve set, when 2BL, 2FC, 3LO, 3AR, 5CL and 6WF together with a number of B class stations, could all be heard over 100 yards from the speaker.

The manufacturers will be very pleased to demonstrate this set or supply any further information.

No radio frequency amplification or reflex circuits are employed in any model under six valves.

(Advt.)

**WIRELESS OFFICERS.**

- List of Marine Staff Changes for Week ending Feb. 4, '26.  
E. T. Prentiss (Sen.) signed off "Aurora" in Sydney.  
J. W. Jacobs (3rd) signed off "Aurora" in Sydney.  
J. W. Jacobs (3rd) signed on "Large Bay" in Sydney.  
J. E. Gilligan (2nd) signed off "Large Bay" in Sydney.  
J. G. Cookson (3rd) signed off "Large Bay" in Sydney.  
T. O. Souton (2nd) signed on "Large Bay" in Sydney.  
J. E. Hall signed off "Nichols" in Sydney.  
R. B. Lacey signed off "Moorool" in Newcastle.

Margie: "And he had radio eyes?"

Sue: "What do you mean, radio eyes?"

Margie: "Oh, just eyes with a broad cast."

**AWA**



**Big Reductions**  
IN  
**AMPLION LOUD SPEAKERS**

	£	s.	d.
AR.102 Dragonfly .....	1	15	0
AR.67 Amplion Gramophone Attachment .....	2	15	0
AR.111 Amplion Junior, New Type .....	3	10	0
AR.35 Amplion Concert Gramophone Attachment .....	3	15	0
AR.114 Amplion Junior De Luxe .....	4	0	0
AR.19 Amplion Dragon .....	6	10	0
AR.15 Amplion Swan Neck .....	8	0	0

AT ALL DEALERS

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

97 Clarence Street,  
Sydney.

147/9 Queen Street,  
Melbourne.

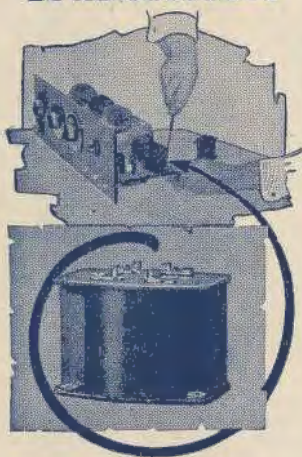
IN USE IN  
BRITAIN  
IRELAND  
NORWAY  
SWEDEN  
FRANCE  
HOLLAND  
ITALY  
BELGIUM

IN USE IN  
AMERICA  
AUSTRALIA  
NEW ZEALAND  
S. AFRICA  
INDIA  
DENMARK  
SPAIN  
JAPAN

**AMPLION**

# Stromberg-Carlson

## Stromberg-Carlson No. 3-A Transformer



Correctly designed and suitable for both 1st and 2nd stage. Uniform amplification. Satisfaction assured and guaranteed.

Reasonable 32/6 Price.

### L. P. R. BEAN & CO. LTD.

229 CASTLEREAGH ST., SYDNEY.

Phones: M 2141, M 2142.

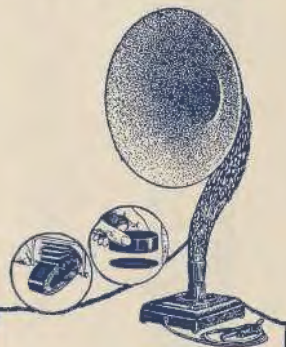
MELBOURNE: HENRY G. SMALL & CO.,  
360 P.O. PLACE.

BRISBANE: HOME RADIO SERVICE LTD.,  
COURIER BUILDINGS.

The  
Apparatus  
with a Life  
Guarantee



Ask your  
Dealer, or  
write to



A high quality Speaker,  
with Wool Horn.  
TRUE IN TONE.  
£5/17/6.

### Stromberg-Carlson

HEADSET No. 2-A.  
REAL 35/- VALUE.

