

# WIRELESS WEEKLY

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

transmission by post as a newspaper.

VOL. 8. No. 4.

FRIDAY, MAY 21, 1926.



20,000 PEOPLE

Visited the Radio & Electrical Exhibition and became acquainted with

## "MAGNAVOX" SINGLE DIAL CONTROL SETS

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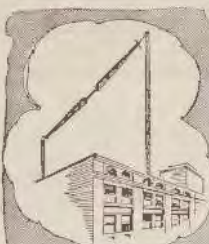
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4QG Queensland, 3AB Melbourne, 3LO Melbourne,  
5CL Adelaide, 7ZL Tasmania—

all these Stations can be brought in with a flick of  
the fingers.

**Simplicity "Extraordinary"**  
"In Harmony with the Home and Air"—Magnavox

Constructional  
Details of Winning  
Exhibits at  
Recent Radio  
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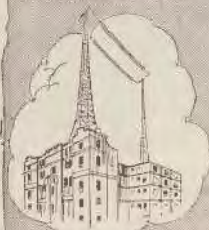
2.K.Y. SYDNEY



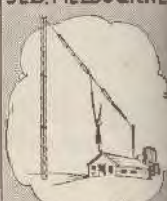
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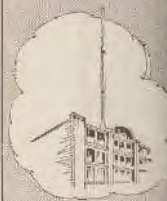
3.L.D. MELBOURNE



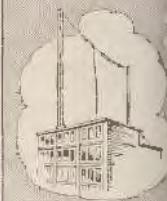
4.Q.G. BRISBANE



2.B.L. SYDNEY



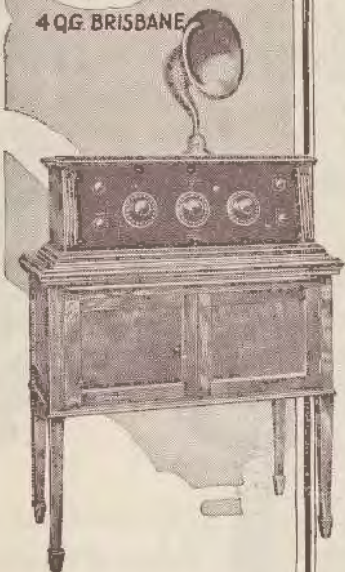
6.W.F. PERTH



7.Z.L. HOBART



5.C.L. ADELAIDE



*Distance no longer a bar!*  
**UDISCO**  
**RADIO RECEIVERS**  
*Lay Australia at your finger-tips.*

Matthew Flinders in his frail craft could never have dreamed that his feat of seamanship in circumnavigating Australia would be duplicated nightly but a short century later.

Yet this is so. Nightly, owners of "UDISCO" Radio Receivers—without sitting from comfortable homes—are accomplishing what to Flinders entailed many weary days of hunger and privation.

All "UDISCO" Sets, whether "Eights," "Sixes," "Fives," or "Threes," are built to a standard of excellence in efficiency and design never before equalled in the world. Only the best components—sembled with scientific precision by a specially trained corps of radio Engineers—are incorporated.

The "Capacidyne" circuit employed ensures reception of Stations operating on any wavelength between 20 and 2000 metres. This circuit—a purely Australian invention—gives selectivity, volume without distortion, superlative tone quality and ease of control.

Tuning dials synchronize—wavelengths are controlled with one switch—volume by another.

Housed in full polished cabinets of pleasing design, "UDISCO" Receivers are masterpieces of craftsmanship.

"UDISCO" Eight on Stand with Quam Loud Speaker, Clyde United Wet Accumulator, Ray-O-Vac B Batteries, Valves, and Aerial Equipment . . . 110 gns.  
 "UDISCO" Five, with Hawley Speaker, and complete Batteries. No Stand . . . £45

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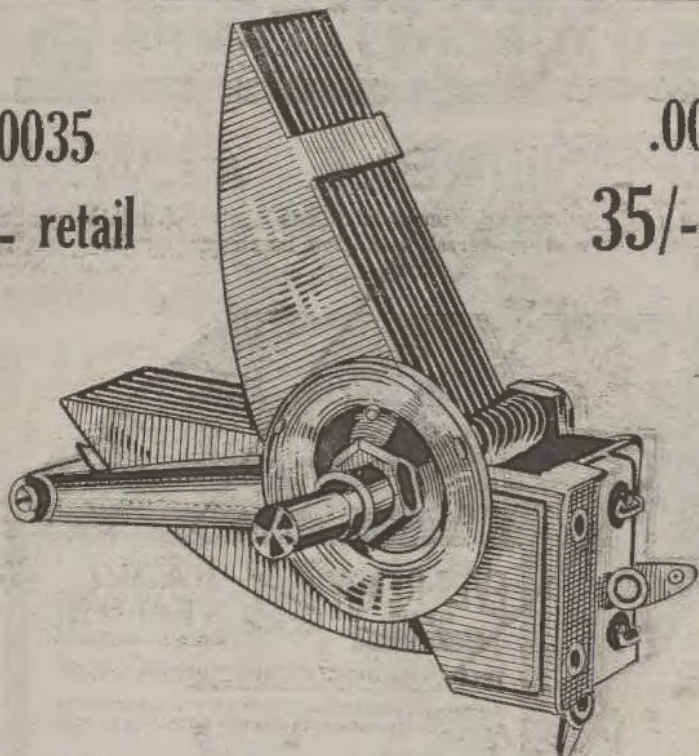
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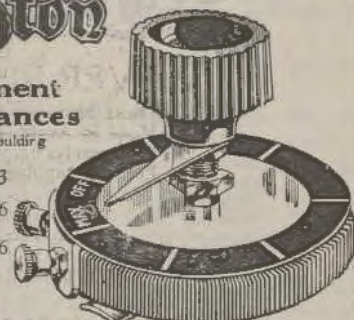
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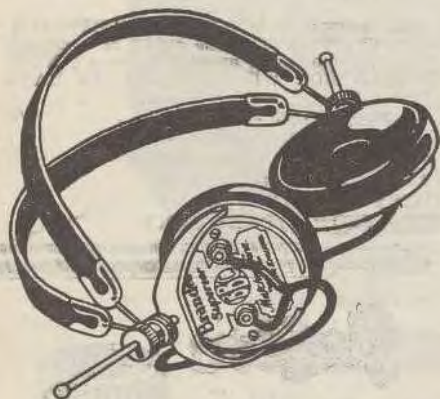
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# BRANDES

*The Name to Know in Radio*

## Brandes Headphones



### MATCHED TONE HEADPHONES

The whole secret of Matched Tone is that one receiver refuses to have any quarrel with its twin. Aply schooled in these generous sentiments by our specially erected Matched Tone apparatus, their synchronised effort discovers greater sensitivity and volume and truer tone. There is no possibility of the sound from one earpiece being half a tone lower than its mate.

NOW 30/- PAIR

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### THE AUDIO TRANSFORMER

Ratio 3 to 1 and 5 to 1. 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. Mechanically protected and shielded so that the transformers may be placed close together without interaction.

Ratio 3 to 1 and 5 to 1.

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THE WAVELENGTH QUESTION.

One of the most striking impressions gained from the Federal Conference of the Association for the Development of Wireless, held in Sydney early this month, was the unsympathetic attitude of the Postmaster-General's Department towards the question of a re-allocation of broadcasting wavelengths in the Commonwealth.

So far as New South Wales is concerned, perhaps the present Commonwealth system of bunching a group of high power stations within a narrow band is not a serious obstacle to reception, since the two Sydney stations are fairly well separated from the interstate stations.

It is, however, a very different proposition when looked at from the point of view of listeners located in other States, many of whom are complaining bitterly regarding the interference caused by local stations in the reception of interstate broadcasting. The present distribution of wavelengths may suit the listener residing a reasonable distance away from his nearest station, but so far as the city and suburban listeners are concerned the position is a most serious one, and certainly merits the earnest consideration of the Postmaster-General's Department.

Between 353 and 395 metres, a band of only 42 metres, there are four high power stations—EBL, 3LO, 4QG and 5CL. There is then a wide break of 85 metres to 3AR, and a further jump of 45 metres between 3AR and 7ZL, with 2FC, of course, away up in the clouds.

Obviously, when situated anywhere in close proximity to, say, 4QG, with the enormous power that station is using, the reception of a distant station separated only a comparatively few metres apart becomes an almost impossible task, without the aid of a super-selective receiver. It is quite easy, of course, to point out that the trouble lies with non-selective home-built receivers, but this is poor consolation to the listener who is not in a position to spend more money, but is yet anxious to receive interstate programmes.

Broadcasting to-day is a national question, and not a merely parochial matter, and as such requires an administration with the broadest possible vision. Surely the present position calls for immediate attention to the question of a wider separation of existing wavelengths, so that interference may be cut down and a better service be given to the public.

A. W. WATT.

# "BURGINPHONE" Wireless Receivers

**Australia's Best By Test**

At no time has any receiver stood away from its field of competitors more sharply in point of quality than does the present "BURGINPHONE" models.

Note the way the "BURGINPHONE" is built—no disappointing evidence of cheapening, no hurried workmanship—it's a quality receiver through and through, and it looks it!

All that the eye sees in its appearance of custom-built beauty, its better equipment, its many engineering features, is confirmed by the brilliancy of the machine's performance.

The "BURGINPHONE" trade mark is virtually a guarantee of dependability, of intrinsic worth, of practicability, because every "BURGINPHONE" product is scientific in principle and is not marketed until fully tested by competent Engineers.

Manufactured in Australia, for Australians, by  
AUSTRALIANS.

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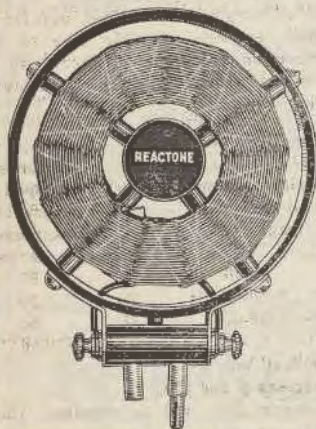
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# REACTONE Low Loss Coils

TENSION WOUND—Free from shellac or wax.

PRICES: 25 turns, 6/3; 35's, 6/9; 40's, 7/-; 50's, 7/6;  
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Also



## TUNGSTALITE-The Super Crystal

SENSITIVE AT EVERY POINT

CATSWHISKER SUPPLIED

IMPROVE YOUR RECEPTION WITH THESE GENUINE  
BRITISH PRODUCTS

Obtainable from Leading Radio Stores

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# EXHIBITION PRIZE WINNERS

## The Most Selective Crystal Set.

At the request of numerous "Wireless Weekly" readers, we have pleasure in giving constructional details of the most Selective Crystal and Valve Receivers. It is only fair to state that both gentlemen, who won these prizes with their respective receivers, have voluntarily given their information for the benefit of other readers of "Wireless Weekly."

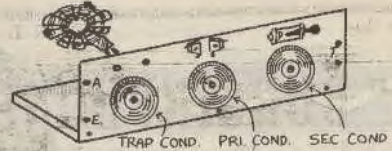
Mr. Langford Smith's Crystal Receiver was particularly efficient, and although it has three controls, the knife-like selectivity obtained makes long distance reception somewhat easy when used in conjunction with a good aerial. The circuit diagram, Fig. 1, is probably all that is required by the experienced home constructor, but for the benefit of beginners, we are publishing the popular back of panel view method showing the wiring and layout.

### Construction.

The panel, which is 14 x 7 inches affords ample room for the three variable condensers and their respective dials. (See Fig. 2). The primary and secondary coil holders are situated in the front of the panel immediately above the second condenser. The ordinary type of two coil holder may be used, or if preferred, a panel and coupling plug.

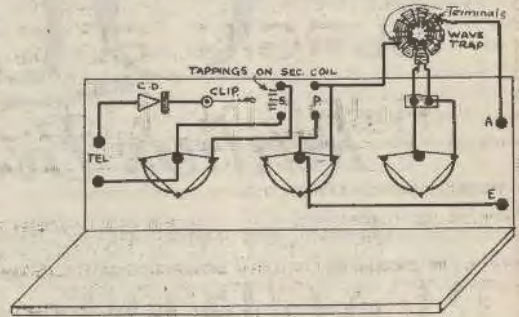
### The Wavetrap.

The second panel plug (which should be a deluxe type with its connections coming out from each end), must next be mounted at the back of the panel directly above the first condenser. This holder takes the wavetrap which consists of forty turns of No. 26 D.C.C. wire, wound on a spiderweb former, the two ends being connected in the usual manner to the pin and hole connections mounted on the former. The aerial coupling coil



Front Panel View of Crystal Set.

which consists of ten turns, is then wound on the same former, the two ends of which should be connected to two small terminals, which may be mounted on the former by punching two small holes in the cardboard. (See Fig. 3). One connection is then taken from one terminal to the aerial and from the other terminal to the top connection of the primary coil. Each of the secondary coils are tapped at every tenth turn from the centre, by means of a small piece of the wire being twisted together. It will be found that the tuning is not altered very appreciably when changing the taps,



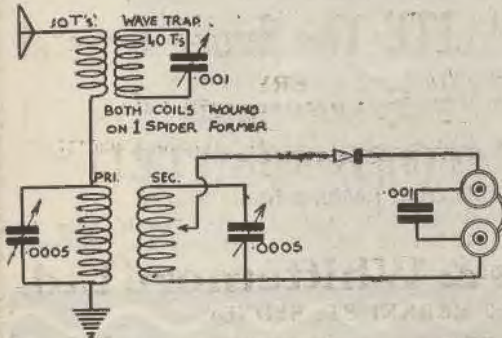
but for maximum selectivity, careful experiment is necessary with this secondary refinement. A convenient method of varying the tapped position is to place a small length of flexible wire on the crystal cup connection and with a battery clip on the other end of the wire, alterations and comparisons can quickly be made.

### COIL TABLE.

	Aerial couplings coil and wave trap	Secondary tapped at every 10th turn from centre.	
		Primary	Secondary
2BL	10-40	35	50
3LO	10-40	35	50
4QG	10-40	35	50
2FC	10-100	100	150

wave trap not always necessary for 2FC.

Smaller primary coils will be required where very large aerials are used.





The  
**QUAM**  
 Radio's Best Speaker

Invented and manufactured by James P. Quam, of the Quam Radio Corp., Chicago, U.S.A.,—the manufacturers of Quam Condensers, the only Condensers in the World with Pyrex end-plates—Quam Transformers, and numerous other of the very highest grade Radio products.

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

Mr. Quam, however, was not satisfied that any of the Loud Speakers available in Australia were giving satisfactory reproduction, and bent his inventive mind and whole energies towards producing something absolutely superior to the others, and satisfactory in all respects. The QUAM SPEAKER is the result.

One of the essential differences of the QUAM from all other Speakers is a Silver Drumhead Diaphragm of 3/1000 inch thick that not only faithfully reproduces every articulation of the human voice, but also gives a musical tone that cannot be equalled by any other Speaker on the market to-day.

**Price, £9/-**

See the QUAM on our Stall, No. 14, at the Radio Show; or at your nearest dealer—  
 —he will be pleased to demonstrate.

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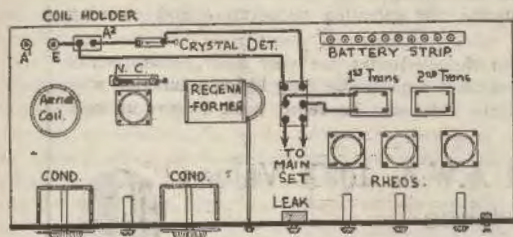
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 Launceston, Tas.

86 Chesser St., Adelaide  
 864 Bourke St.,  
 Melbourne.

Cr. Jervois Quay and  
 Harris Sts., Wellington,  
 N.Z.

### The Most Selective Valve Receiver.

Every one who visited the Amateur Stand at the Exhibition, admired Mr. T. P. Watson's Browning Drake Receiver, with which he won the prize for the most selective valve receiver. Apart from its capabilities as a selective receiver, the workmanship was very excellent indeed. A very novel method of receiving 2FC was also incorporated which we feel sure every city reader will be interested in. There are without a doubt, many radio set builders who have refrained from building the Browning Drake receiver owing to the fact that it is only suitable for the lower wavelengths, but by adding the crystal, as Mr. Watson shows, or converting the receiver to a straight out regenerative one for the high wave, all wave lengths can be



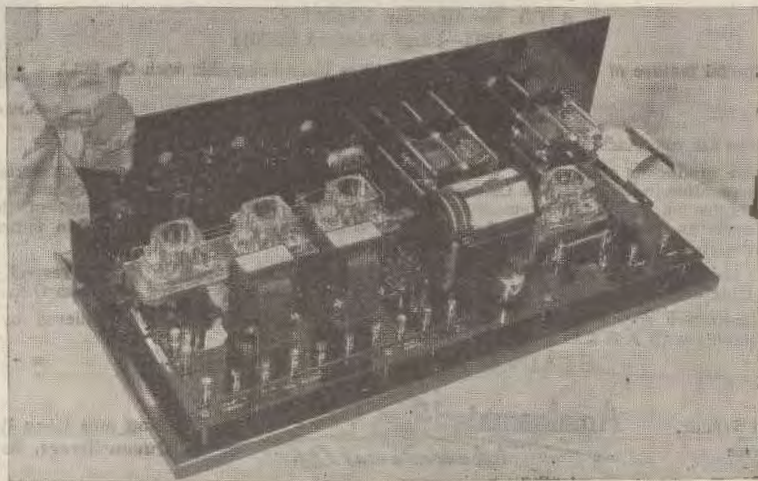
Back View, Showing Layout.

successfully received, whether, would-be owners are situated within crystal range or not. Mr. Watson, in passing along his information writes as follows: It is admitted that the best long distance

low wave receivers, are those built specially for low waves and neutralised, but it is not my intention here of discussing the merits of the Browning Drake receiver, as this has already been dealt with very ably and at length in these pages some time ago; however, I must add my tribute to its wonderful radio frequency amplification, its excellent selectivity, and quiet operation.

### Instructions for Construction.

Use a separate rheostat for each valve, if you have them, if not, you may use one for the two radio valves. Separate B voltage tappings should be taken to each valve, as it will be found that each works best with a certain potential. The connections to the reaction coil of the Regenaformer should first be made with flexible connections. Be particularly careful to see that the feed back energy is flowing in the right direction. If, when neutralising, the signals become stronger, as the capacity of the neutralising condenser is increased, it is a sure sign that the primary of regenaformer is connected the wrong way round. Reverse the connections and the trouble will disappear. Remember that the selectivity of the set depends to a remarkable degree on the correct neutralisation, and to simplify this, a DV3 or UV199 type valve should be used for the first valve. Now to pass on to the circuit that is to receive 2FC. It is well known that a good crystal followed by a two stage amplifier, will give excellent loud speaker results within crystal range. The radio enthusiast beyond crystal range may design a single valve circuit, to be incorporated in the set for 2FC, and



Photograph of Back View, showing excellent workmanship.

PHILCO—"All the Time"—BATTERIES

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

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

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

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

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

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



A.W.A. 99

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

### CHARACTERISTICS

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

### BASES

A.W.A. 33—Standard English 4 pin

A.W.A. 99—American UV199

A.W.A. 109X—Large Standard UX201a

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

A.W.A. VALVES ARE MATCHED



A.W.A. 109X

A.W.A. 33

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

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

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

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

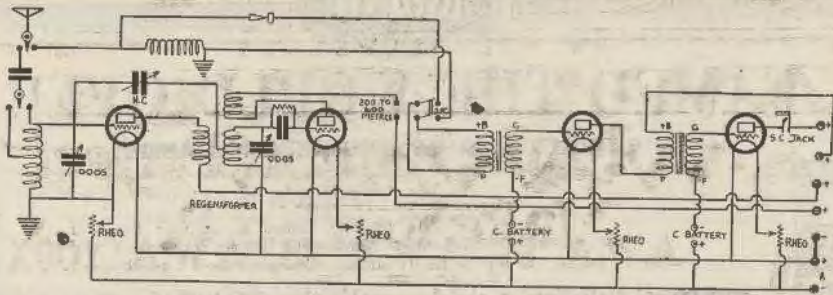
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**Amalgamated Wireless**  
(Australasia) Ltd.

King and King Building,  
Queen Street, Brisbane

97 Clarence Street, Sydney



Circuit Diagram of Mr. T. P. Watson's Receiver.

to be switched on in the same way (See below).

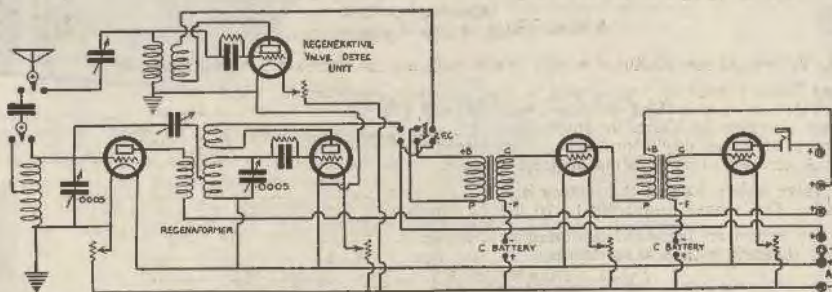
A D.P.D.T. switch is installed in front of the first transformer in order to change rapidly from one circuit to the other. Note carefully that the connections of the transformer go to the centre poles of the switch, and the connections of the Browning Drake which would usually go to the transformer are taken to the two poles on one side of the switch in their respective positions, so that B goes to B and P to plate when the switch is made in the left hand position. The two poles on the right hand side of the switch are connected to the simple crystal circuit in place of the ordinary telephones. In this way the last two valves act as audio amplifiers after crystal detection. The coil used for the reception of 2FC is tuned to the exact wavelength, this can be found by experiment. The exact number of turns cannot be stated here, as it varies with different aerials. It is advisable to use a fixed crystal, so that no adjustments whatever are necessary when it is desired to listen in to 2FC.

This combination of circuits have been tried and proved, and readers may construct it without any fear of failure.

2BL, 3L0, or any other nearby short wave station can also be provided for with the crystal detector circuit. This you will readily understand spells great economy in valves for ordinary use, where readers are situated within crystal range. The Browning Drake is then a standby for bringing in the distant stations at good volume.

"Wireless Weekly's" method of using the P.1 or Browning Drake should appeal to readers who are situated at distance beyond the crystal range of 2FC.

Editor's Note: Where extreme selectivity is required, as in the case where readers are situated close to local broadcasting stations, a separate tuned primary circuit is usually very necessary. (See "Wireless Weekly," dated 11th Sept., Page 18).



"Wireless Weekly" Suggestion for Readers out of Crystal Range Browning Drake or P1.

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

FOR SALE.—Three "BK" Exide B Batteries, 94 Volts, in Oak Case, £4. Very efficient Wave-trap, £2. 7 Etbam Ave., Darling Point. Tel.: FM 1880.

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



# FAMED THE WORLD OVER

FOR QUALITY, TONE AND DEPENDABILITY.

## IGRANIC.

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

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

## BROWN.

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

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

## OLDHAM.

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

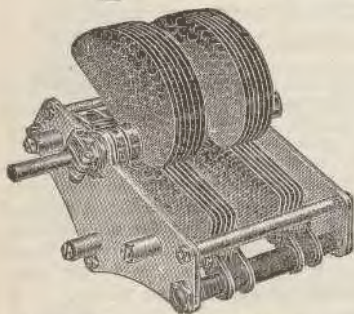
Due to the patented method of construction, the plates are rendered active right through, and not merely on the surface as in most batteries. The charge is obviously held much longer, with consequent large saving in charging costs.

## NOYES BROS.

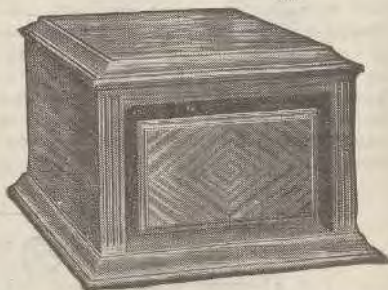
(SYDNEY) LTD. (MELBOURNE) PTY. LTD.

SYDNEY: 115 Clarence Street.  
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 HOBART: 145 Macquarie Street.  
 And at LAUNCESTON; also from J. W. R. Gardam, PERTH.

Write for Booklet No. 19, post free.



The IGRANIC Low Loss Dual Variable Condenser. Similar in design to the standard Igranic Variable Condenser, it comprises two sections which are accurately matched. Indispensable for tuning two oscillatory circuits simultaneously. Complete with 4 inch Bakelite Knob and Dial.



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

BRITISH **Brown** THROUGHOUT

## QUERIES MET BY EVERY BEGINNER

Although hardly a beginner's query, we have pleasure in publishing the following enquiry which has been received: "I have built quite a number of valve receivers published in "Wireless Weekly" from time to time and have invariably got excellent results. I am now anxious to build a super-heterodyne receiver, but have been somewhat scared by the remarks of my friends who state that they are very difficult to construct. Will you please advise me through your "Queries Met" column?"

The number of full proof super-heterodyne kits now available in Australia make it comparatively easy for the home constructor to build his own receiver. The main points to remember, however, are as follows:

(1) Don't **cramp** the components, especially if the unshielded type of intermediate frequency transformers are used.

(2) Place a potentiometer in the common grid return lead of the intermediate frequency valves. These valves must not oscillate, and it will be found that with all the standard super-heterodyne circuits a good type of potentiometer is by far the best method of controlling them.

Don't expect fabulous results with a seven-valve super-heterodyne. Remember that two of the valves, the oscillator and the frequency changer (commonly known as the first detector) are necessary for the correct operation of the receiver, and should not be regarded as amplifiers of high or low frequency currents. So many critics of the Super-heterodyne forget the above facts.

An efficient super-heterodyne is capable of receiving most of the "A" class stations in any part of Australia, using a loop, and its ease of operation is without a doubt one of its outstanding features.

Another reader asks: "What is the meaning of wavelength?"

Wavelength is the term given to the length of a radio wave; the length of the wave depends upon the adjustments of the tuning elements of the transmitting station. In broadcasting, a station transmits a steady wave called the carrier wave, which has a constant amplitude. This wave, occurring at the frequency to which the transmitter has been adjusted, is inaudible to the ear. By superimposing an audio frequency wave on it, however (by speaking into the microphone at the broadcasting station), the wave is modulated into varying amplitudes which are audible after detection by a crystal or valve.

"What causes crackling noises in a resistance coupled audio amplifier?"

The most probable cause of objectionable noises in such an amplifier will be found to be (1) unsuitable types of plate resistances, or (2) defective "B" batteries.

When considering the question of H.T. supply to the valves in a resistance coupled amplifier, it must not be forgotten that allowance must be made for the D.C. voltage drop across the resistance and higher H.T. values used accordingly. Quite a number of valve manufacturers state, in their valve data, the best working resistance together with the amount of H.T. voltage necessary to give best results. This should be carefully followed. Where this data is not available, readers should first use 90 volts then gradually increase until the best working voltage is found.

With regard to the plate resistance it must also be remembered that, when used in low frequency amplifiers, the actual D.C. current which they are called upon to carry is fairly high, and for this reason a good quality type of resistance is necessary. A cheap resistance, while giving excellent results at first, may speedily develop crackling noises owing to the disintegration of the resistance material by the passage of the moderately high, steady plate current.

### A MONTREAL CATASTROPHE.

A Montreal wireless enthusiast recently set his home on fire when trying to enlarge a lead-in hole.

He explained to the district fire chief that finding the hole too small he decided to enlarge it by using a red-hot poker. But, his house being a wooden one, the tarred paper used as an outside lining of the wall caught fire and the flames spread.

Quick work by the firemen checked their spreading to adjoining dwellings, though the wireless enthusiast will have to make good damage to his own house from ground to third floor.

### MORSE CODE COMPETITION.

The winner of the Morse Code Competition from 2WW on Thursday, April 29th, was J. Priestley, 54 Fuller's Road, Chatswood.

The word transmitted was ECNPXI-SAZB.

# Formo Transformers

## PERFECTION

### L.F. TRANSFORMER

Reproducing Voice or Music with the utmost fidelity, over the widest possible band of frequencies on an absolutely silent background. Made in two ratios: 1 to 1 and 1 to 3.



For those enthusiasts who require the last degree of accuracy in reproduction with the maximum amplification, this beautiful instrument supplies a long-felt want. It has been specially introduced for the critical lover of speech and music faithfully reproduced, and this result has been attained only by untiring research and experiment. Extreme care is taken in the selection of the finest raw materials, and also in every process of manufacture. Exhaustive progressive and final tests ensure that the finished instrument is as perfect as possible.

There are 30,000 turns of wire of comparatively heavy gauge, which ensures immunity from breakdown. As in the Popular Model, the construction is robust, and the windings are specially treated, rendering the instrument reliable in all climates. The terminals of the primary are remote from secondary terminals, i.e. at either end of the transformer in order to keep the grid connections away from those of the plate. All terminals are named, and, as an added refinement, their connections are also indicated.

PRICE . . . . . 36/-

## SHROUDED

### L.F. TRANSFORMER

A pioneer instrument yet still unchallenged. Specially adapted for use in hot or humid climates.



An instrument of surpassing merit, well made and well designed, giving distortionless reproduction with amplification on a silent background. Its consistent high quality has made it the favourite with every wireless enthusiast, with the result that it is in use in every quarter of the globe.

The handsome gilt finish is in pleasing contrast to the black terminal board, and all terminals are lacquered and provided with tags.

This model is wound with 12,500 turns of wire on a Stalloy laminated core, and is made in ratios of 1 to 1, 1 to 2, 1 to 3, 1 to 4, and 1 to 5. Under ordinary circumstances 1 to 5 should be used in the first stage of low frequency amplification, and 1 to 3 in the second stage. This Transformer is the finest general purpose instrument available.

PRICE . . . . . 18/6

Sole Agents in Australia:

**AUSTRALIAN PACIFIC TRADING CO.**

Kembla Building, 58 Margaret Street, SYDNEY.

OBTAINABLE FROM ALL LEADING RADIO DEALERS



# Radio and Electrical Exhibition

May 3rd to 8th, 1926.  
TOWN HALL, SYDNEY.

## AMATEUR EXHIBIT.

### PRIZE WINNERS.

The following were the prize winners in the entries for the Amateur Exhibit at the Radio-Electrical Exhibition, Town Hall, Sydney, May 3rd to May 8th, 1926. Special certificates of merit have also been awarded to all those whose entries were considered worthy of them.

#### Best Low Power Transmitter.

1st Prize, Walter Craig (Croydon Radio Club). No other entry received. 2nd Prize transferred to Mr. W. Brush.

#### Best Designed Short Wave Receiver.

1st Prize, Mr. Barker; 2nd Prize, Mr. Bates.

#### Best Home Made Piece of Apparatus.

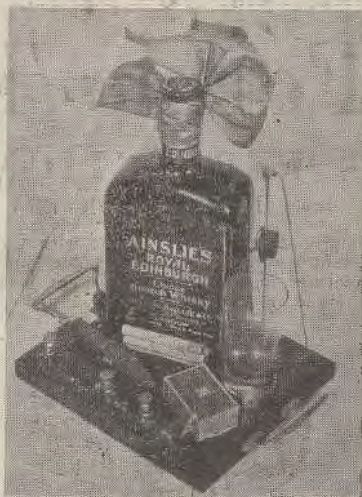
1st Prize, Mr. E. L. Norris; 2nd Prize, Mr. D. N. Sharp. Consolation Prizes: Mr. Switzer; Mr. Payne.

#### Most Novel Crystal Set.

1st Prize, Mr. F. Bowen; 2nd Prize, Mr. R. Templeton.

#### Most Selective Crystal Set.

1st Prize, Mr. Langford Smith; 2nd Prize, Mr. R. Williams.



*The Most Novel Crystal Set.*

#### Best Multi-Valve Set.

1st Prize, Mr. T. P. Watson; 2nd Prize, Mr. Hooper.

#### Special Prizes.

Mr. W. Bush (cabinet set); Mr. Frank Downes—The Blind Digger (2 valve set).



*The Amateur Exhibit at the Radio-Electrical Exhibition, Town Hall, Sydney, May 3 to May 8, 1926.*

*A variety of beautifully constructed home made apparatus was shown on this stand.*



INTERVALVE

# TRANSFORMER

TYPE AF 3

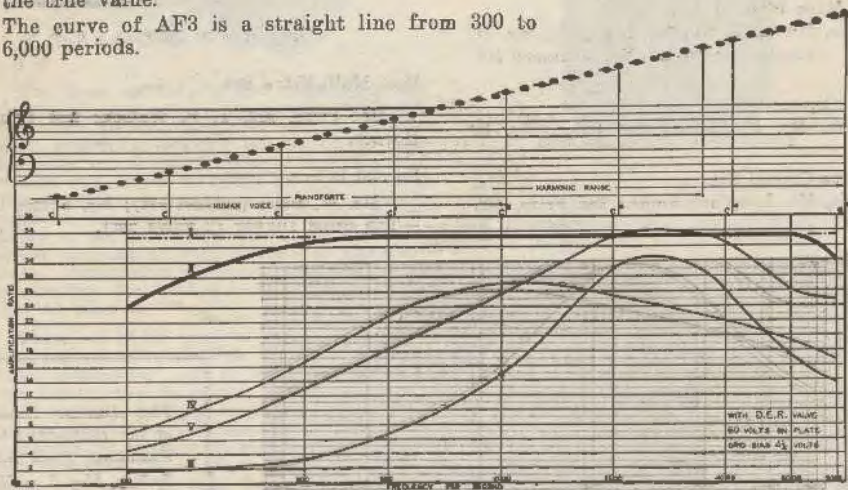
BRITISH MADE



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

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

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



Curve I. PERFECTION.

Curve II. FERRANTI AF 3. VERY NEARLY PERFECT.

**No BETTER Transformer is available at any Price**

Curve III. }

Curve IV. }

Curve V. }

Other Transformers on the Market.

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

Putting  
**QUALITY**  
*into*  
**RADIO**



**JEFFERSON**  
Super - Sensitive  
Amplifying  
**TRANSFORMERS**



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# AS PERMANENT AS RADIO ITSELF



**T**HERE is confidence in a good receiver, a set well designed and constructed of good parts and that will give faithful reproduction of local and Interstate broadcasting. But a good receiver requires a filament battery that will stand up hour after hour to the heavy demands made by a multi-valve set.

Such a battery is the CLYDE—in a class by itself. Constructed throughout on the soundest engineering principles—incorporating the very best materials—acid-proof and leak-proof—tested at each stage of manufacture by a staff of experts. These are some of the reasons why CLYDE represents the very best value in radio batteries to-day.

Behind every Clyde Battery stands the prestige and manufacturing ability of the Clyde Engineering Company Ltd., the largest and one of the oldest engineering and electrical houses in Australia. The Clyde imprint is significant of solidity and service.

**EVERY CLYDE BATTERY CARRIES A 15 MONTHS  
GUARANTEE.**

## CLYDE RADIO BATTERY

Manufactured by

**The Clyde Engineering Company Limited  
SYDNEY**

# ON THE AIR

## PHILOSOPHIC THOUGHT.

The Monday afternoon talks from the studio of 2BL, when Mr. J. M. Prentice deals with "A Course in Philosophic Thought," has attracted a considerable amount of attention and produced at least one unexpected comment. In the Bedtime Story letters was received a charming epistle from a listener in aged 10, who assured Uncle Jack that she had heard the talk on Philosophy during the afternoon, and was firmly determined to grow up and be a philosopher herself.



Miss Persia Rutter, soprano, a J. C. Williamson and 2FC artist.

## 2BL SUNDAY SERVICES.

For Sunday, May 23, Station 2BL announces an interesting programme of sacred and secular items. At 11 a.m. the Chalmers Street Presbyterian Church service will be broadcasted, with the Rev. D. F. Brandt preaching, while at 7 p.m. St. Mary's Roman Catholic Cathedral will provide the Benediction Service, which will also be transmitted. At 3.30 in the afternoon the Bible Class conducted by Mr. W. "Cairo" Bradley will be held as usual, and at 4 p.m. an organ recital will be broadcast from the Palmer Street Presbyterian Church, when an exceptionally delightful programme of organ music and vocal items will be transmitted. From the studio at 8.30 p.m., following on St. Mary's Cathedral service, the Manly Band will be broadcast.

## COIN STORIES.

On Monday afternoon, May 24, a talk on Philosophic Thought from the studio and Tea Room Trio from Messrs. David Jones in George Street will provide the main entertainment. In the evening, at 8.30, Mr. D. Rymond will deliver some interesting Coin Stories in the second of his series of lectures. Mr. Clem Williams (baritone) and the Newtown Band will provide the remainder of the studio programme, together with a Sporting Talk provided by Messrs. Mick Simmons Ltd. There will also be a chat on "Electricity and the Motor Car" by Mr. Brown at 9.30 p.m.

## IRISH SOPRANO.

For Tuesday, May 25, the artist singing from Station 2BL will be Miss Nora Hill, the favourite Irish soprano, in numbers from her repertoire, and Mr. Norman Janson, baritone. Miss May Nancarrow, elocutionist, will provide some dramatic recitals, and Broadcasters' Instrumental Trio will also be heard. Mr. H. E. Crabb continues his series of talks on "The Story of Civilisation," and on this occasion will deal with the Decay of Civilisations. The other lecturer for the evening will be Mr. G. C. Barnes, who will deliver the second of his "Real Ghost Stories." At 8 p.m. the Ambassadors' Instrumental Salon Quartet, which is brilliantly directed by Mr. Claude McGlynn, will be heard in classical numbers.



Miss Joyce Gillespie, a mezzo-soprano artist from 2FC.

# Harringtons

NEW SHIPMENTS JUST LANDING!

## Thorola Loud Speaker

The greatest musical instrument of Radio. Pure Polished Bakelite Horn and gold Throat Band.  
£4/10/-.

### LOUD SPEAKER & BATTERY CORDS.

Phone cords, 5 ft. . . . .	2/6
Loud Speaker Cords, 10 ft. . . . .	5/3
Loud Speaker Cords, 20 ft. . . . .	9/-
"A" and "B" Battery Cords . . . . .	7/6

Gilfillan Audio Transformer (6-1 Ratio)	22/6
Gilfillan S.L.F. Low Loss Variable Condenser . . . . .	32/6
Gilfillan Special Audio Transformer (3½-1) . . . . .	32/6
Gilfillan Non-Microphonic UX Type Sockets . . . . .	6/-
Gilfillan Non-Microphonic UV199 Type Sockets . . . . .	5/6
Gilfillan Engraved Terminals, each . . . . .	9d.
Gilfillan Potentiometer and Dial . . . . .	7/6
Gilfillan Standard Valve Sockets . . . . .	4/6

Build the McLaughlin One Control Super Heterodyne—We have the necessary parts

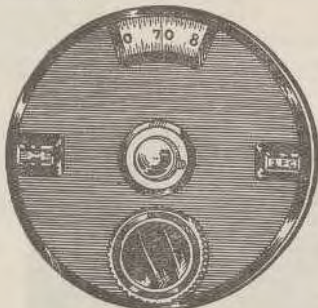
## Harlie

FOOL-PROOF  
DETECTOR

The wonderful New Rotary Crystal Detector—always in delicate contact. Price .. 7/6

MAR-CO Lines Just to Hand.

Mar-co Resisto Coupler (complete with By-Pass Condenser and Variable Resistance) . . . . .	20/-
Mar-co Variable Grid Leaks 1/5 to 5 megohms . . . . .	7/-
Mar-co Jacks, all types, from, each . . . . .	2/-
Marco Battery Switch, each . . . . .	2/3



Mar-co Vernier Dial, each . . . . . 16/6  
(Be sure you get the genuine Mar-co Dial)

Bradleystats . . . . .	15/-
Bradleyleaks . . . . .	15/-
Bradleyohm . . . . .	16/-
Bradleyometer . . . . .	22/-
Bradleydenser . . . . .	27/6

A.W.A. Audio Transformer . . . . .	25/-
.0003, S.L.F. Condensers . . . . .	12/6
.0005, S.L.F. Condensers . . . . .	17/6
"MARS" The Super Aerial, 50 per cent. more volume. 84 Strand in 100 ft. reels . . . . .	12/6

### SPECIALS.

See our windows for some Special Lines. They will interest You.

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# Harringtons

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Katoomba . . . . . Katoomba Street  
Melbourne . . . . . 286 Collins Street  
Brisbane . . . . . 93 Queen Street  
Adelaide . . . . . 10 Rundle Street  
Wellington, N.Z. . . . . 42 Willis St.  
Auckland, N.Z. . . . . 140 Queen St.



Miss Sybil Atholwood, an Australian by birth, is the daughter of Mr. J. B. Atholwood. She is a soprano from Madame Slapoffski's studio, and sings with the Harrison White Stringed Orchestra. Broadcasts from 2FC.

#### THE SYDNEY BAND.

Station 2BL announces a programme of more than ordinary interest for Wednesday, May 26. Mr. Robert Harper, Sydney's brilliant tenor, will be the main artist for the evening, and a splendid selection of band music will be transmitted, played by the City of Sydney Band, broadcasting from Barlow Chambers. Wednesday night is the regular evening on which the Foreign Affairs Talk is delivered by Mr. J. M. Prentice, and on this occasion written questions will be dealt with. Various events that have been transpiring in the larger world of the nations have caused an even greater interest in Mr. Prentice's

talks, and on a recent Wednesday it became necessary to almost forcibly suppress a number of people desirous of asking questions owing to the overrunning of the period allowed on the programme. Miss Hilda Lane, soprano, will also be heard. The lecturer appearing on this programme will be Dr. Donald Luker, who will deliver the second of his talks on "Japan—Moods and Reactions."

#### "THE ROTTERS."

The listening-in public who heard "The Laughter of Fools" presented by the Sydney Players from the studio of 2BL recently will be delighted to learn of their re-appearance on 2BL's programme for Thursday, May 27, when they are producing a brilliant sketch entitled "The Rotters." Mr. W. E. Lewis and Miss Dorrie Ward, two sterling artists, who are thoroughly well loved by the radio audience, will be heard in solo and duet numbers. Miss Ward in particular specialises in music of the light opera bouffe type, and sings exquisitely English ballad numbers. The duet numbers of these two artists are always exceedingly artistic and fully appreciated. The Waikiki Troubadours will provide Hawaiian music, and as stringed instruments of all types broadcast exceedingly well, their appearance on the programmes are eagerly watched for. Mr. Fraser Anderson, President of the Astrological Society, will speak on "Astrological Aids to Character."

#### EVENING'S JAZZ MUSIC.

On Friday, May 28, Mr. Cee Morrison's Gloom-chasers provide a splendid evening's jazz music for the benefit of the dancers generally. In addition to conducting his Gloom-chasers Orchestra, Mr. Morrison



Ruhos' Saxophone Band of Nine, who appeared for the first time in Australia with the 2FC artists in the Town Hall, Sydney, on Saturday, May 8, this being the last night of the Radio Exhibition.

**PHILCO—"For less worry and better results"—BATTERIES**

Hear More  
and Better  
with

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509**

**PHILIPS**

**IMPROVED  
201A TYPE VALVE**

PHILIPS RESEARCH DEPARTMENT have evolved a general service Valve showing marked improvements over the older types. On account of its very large plate output it is specially suitable as a Power Amplifier for Loud Speaker work, yet its design also makes it suitable for High Frequency stages as well as detector work. The Valve gives a unique purity of tone with a magnificent volume, sufficient for any loud speaker. No trace of distortion is discernible at any stage in operation. A 6-Volt Accumulator should be used to light the filament, controlled by a rheostat of at least 12 ohms resistance. The main characteristics are as follows:—

*Filament Voltage . . . . . 5 Volts*  
*Filament Current . . . . . 0.25 Amps.*  
*Saturation Current . . . . . 50 M.A.*  
*Plate Voltage . . . . . 20-120 Volts*  
*Plate Current . . . . . 10 M.A.*  
*Amplification Factor . . . . . 9*

**PRICE . . . . . 13s. 6d.**

Obtainable at all Radio Dealers—supplied with either Standard American or English Caps.





will also play jazz numbers on the piano upon receipt of requests by telephone, which are simultaneously broadcast. Miss Alice Prowse, contralto, will sing numbers, and Miss Hilda Boyle, whose recent operatic appearances were so successful, will sing arias and ballad numbers. The senior sporting expert of "The Sun" will discuss, as usual, racing form, and provide tips for the Saturday race meetings, replying to telephone inquiries. There is a growing inclination to place more and more reliance on the suggestions that this very sportive gentleman supplies, as his selections in recent weeks have been exceedingly good. The Travelogue on this programme will reveal more of the beauties and exotic splendours of Egypt. During the afternoon service on Friday, Mr. Prentice will continue his studies in Modern English Poetry. The literary value of these talks has been commented on by very many people who find the keenest delight in being introduced to the beauty of poetry at the hands of a capable exponent.

#### SPORTING RESULTS.

On Saturday, May 29, the afternoon session will be entirely devoted to the transmission of sporting results. In the evening, the harmonists, Broadcasters' Vocal Quartet, will sing concerted numbers, and Miss Hilda Lane will be the soprano soloist; the Ahad Duo, with their steel guitars, will produce the music of Waikiki and fill the air with Hawaiian strains; Mr. Victor Evans, baritone, and Mr. Maurice Fruanski, banjoist, will also appear. The lecturers on this programme are "Bringa," dealing with the Folk Lore of the Australian Aborigines, and Mr. Stanley Crittendon, delivering a Photography talk entitled "From Field to Wall." This is the first of a series which will deal with every phase of photography, from the actual taking of the picture to its framed resting-place.

#### LYCEUM THEATRE.

On Friday, 21st May, from the Lyceum Theatre, the Orchestral and Vocal programme will be broadcast by 2FC. From the Studio, Richo's Saxophone Quartette will appear. Soloists will include Charles Kingsley, comedian, Shirley Cook, comedienne, Norman Francis, tenor and Harry Thomas, elocutionist.

#### CRYSTAL PALACE.

On Saturday, 22nd May, Miss Jill Manner, the well-known soprano, will appear through 2FC. Miss Irene Jay, comedienne, Orchestral programme from the Crystal Palace. Dance music from the Wentworth and 2FC Studio Orchestra. Baritone solos by Lawrence Halbert.



#### RADIO NEEDS SERVICE SELLING CUSTOMERS' SATISFACTION.

A reliable service such as the radio purchaser wants, cannot be obtained with cheap and inferior batteries and accessories at bargain prices.

Radio Service covers quite a wide range and many highly efficient receiving sets have proved ineffective because in order to "cut down in price" the dealer has been compelled to include low grade "A" and "B" batteries and other parts.

#### Buyers will Demand Service.

There is a great tendency on the part of the public to realise that good service is of far more importance to them in the long run than the expenditure of a few extra shillings, to secure a set with accessories which are well known and of high standard. We all buy sets for results, and the success of the set in bringing these, is so closely allied with the efficient operation of the valves and batteries that we do not depreciate but immediately condemn the set itself.

#### Buy Satisfaction.

Whenever making a purchase, insist on obtaining the brand you ask for, and do not be content when given "something just as good, but cheaper."

It is now a recognised axiom in radio circles that as a general rule well advertised and well-known lines, such as Philips and Radiotron valves, Tungar Charges, Jewell Meters, Burgess Dry Batteries, and Philco Batteries can be bought with the knowledge that you are buying "satisfaction."

#### Wet or Dry "B" Batteries.

Several people who have seen the "Philco" advertisements of their Rechargeable "B" batteries type 83.X and 86.H, have asked me my advice. Undoubtedly they are a good proposition.

The initial expense is practically the only expense, whereas even the very best dry batteries have a limited life, and then have to be thrown away, whereas "Philco" can be recharged for a few pence. Besides, they are more efficient, for example, the average voltage of an 83.X is 5 to 10 per cent. higher than 90 volts of dry "B" batteries. This is because dry cells are rated at their initial voltage. A 90 volt dry battery delivers only 90 volts at the very beginning of its life. After that the voltage drops to 80, then to 70, then to 60 or below before the rated capacity of the battery is obtained, and is thrown away so that the average voltage of a 90 volt dry battery is only 72-75 volts.

An 83.X or 86.H starts at a little over 84 volts, which gradually falls to about 76 volts, before recharging is necessary, so that the average, even with infrequent charging, is 80 volts. In fact, the minimum voltage of an 83.X or 86.H is above the average voltage of a 90 volt dry battery. \*

**PHILCO—"Super Power"—BATTERIES**

# ! = AJAX = !

## DEFIES COMPETITION

The Superior Quality of AJAX PRODUCTS in conjunction with the fact that they can be obtained from us at the

### LOWEST PRICES IN AUSTRALIA

makes them most desirable to the experimenter when assembling his sets.

AJAX	3 in. Black Dials, neatly engraved	1/5
AJAX	4 in. Black Dials, neatly engraved	2/4
AJAX	4 in. Bakelite Dials (elsewhere 6/-)	3/9
AJAX	Metal Shell Valve Sockets, 201A,	
	1/11; 199	1/6
AJAX	30 or 6 ohm Rheostats	2/1
AJAX	30 ohm Super Bakelite Rheos.	3/6
AJAX	400 ohm Potentiometers	3/-
AJAX	"Arteraft" Low-Loss Condensers,	
	.0005	12/6
AJAX	Phone Cushions, for comfort, pair	2/7
AJAX	Detectors, ready for assembling..	9d.
AJAX	Galena or Silicon Crystals	6d.
AJAX	Phone Cords, 5 feet	2/3
AJAX	Loud Speaker Cords, 20 feet, 5/0;	
	5 feet	1/9
AJAX	Wooden Rotors, 3 in.	7d.
AJAX	Brown or Black Bakelita Sockets.	2/7

AJAX	Terminal Boards, engraved and	
	mounted	2/6
AJAX	Double Phone Plugs	1/9
AJAX	Single "Fantail" Jacks	1/9
AJAX	Double "Fantail" Jacks	2/4
AJAX	Improved Non-Solder Jacks, Single	2/6
AJAX	Improved Non-Solder Jacks, Double	4/-
AJAX	Aerial Earthing Switches	1/11
AJAX	Fixed Grid Leaks	1/-
AJAX	Ground Clamps	4d.
AJAX	Battery Clips	4d.

#### OTHER SPECIALS—

Headsets, K. & C. Special	15/6
3-Coil Holders, Columbia, inside mounting	11/6
Neutrodyne Kits, Grodan Adjusto-	
former	£1/12/6
No Loss Condensers, Pyrex Insulated,	
Geared .0005	£1/18/0

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Phone, Newcastle 1622

## AN EXHIBITION FORECAST.

If ever a slogan was needed in wireless it is one for the Trade itself, and the above is generously offered free of charge and without competition. If every Trader makes a large copy of the incontrovertible apothegm that "Trade follows the Crystal," and sticks it in his hat and binds it as a frontal between the eyes of his salesmen he will find that there'll be very little standing room in his shop, and that sales of super-sets also would increase in consequence. It is said on high authority that your Sydney Exhibition erred on the side of making too big a show of expensive and intricate sets, and no doubt Melbourne, which (breathe it soft and low) has hitherto followed Sydney in all its wireless Exhibitions, will commit the same blunder. However, we are credibly informed on the very nearest authority that this Melbourne show is by far the most important ever held in Australia, so it will be interesting to discover exactly what this authority regards as important. When one considers that only 45,000 listeners are licensed for the whole of Victoria, and that this number should really be regarded as only about the right proportion for the metropolis alone, it cannot be said that the wireless trade is likely to die of over-work. The trouble seems to be that salesmen pride themselves more on pushing supersets than on selling what they call the humble crystal. As a matter of fact, of course, the crystal set is by no means humble, as it is capable of giving perfect results anywhere in the metropolis, now that 3LO, Melbourne, and 3AR, Melbourne, are at their best. Nobody who is content with headphones needs anything better than a crystal set for the local stations, and it is quite certain that a vigorous Crystal Campaign would greatly increase the numbers of metropolitan listeners-in provided always that decent sets were substituted for the rubbish now being chosen by many traders. A good set at a moderate price can be made to operate even on an indoor aerial, and although the G.P.O. views the absence of an aerial with suspicion, much can be said in its favour. Those potential listeners-in who are tenants do not care about erecting aerials and poles on their landlord's premises, so that the advocacy of indoor aerials has much to commend it. The G.P.O. would not be going far out of its way, either, were it to authorise dealers to collect license fees from its customers, as it is well-known that very few offenders are "pirates" by choice, and in fact the term "pirate" is entirely inapplicable to a very great proportion, especially of those who dwell in the suburbs and are not in the habit of visiting their post offices during the day.

## VISITORS FROM 5CL, ADELAIDE, AT 3AR.

On their way home from the Sydney Wireless Convention held recently, Mr. A. R. Campbell (Old Timer), and Mr. W. C. Smalcombe (Uncle Radio), of 5CL station, called at 3AR stations. Their report of the work of 5CL was most encouraging. They claim that 5CL has the finest daytime programme in Australasia and are continually adding new attractions in all programmes.



Mr. Donald Macdonald.

## MR. MACDONALD IN AMERICA.

Mr. Donald Macdonald, consulting engineer to 3AR (Melbourne), 5CL (Adelaide), and 7ZL (Hobart), has cabled to say that he has left Cincinnati for Atlantic City to attend the Wireless Convention there. Mr. Macdonald is carrying out his mission of gaining new ideas and advantages for listeners to these three stations, and his report of this convention will be awaited with interest.

## 4CM ACTIVITIES.

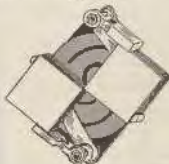
This station is one of Queensland's earliest transmitters, and has done much to improve transmission in general in that State. 4 CM was at one time Queensland's only broadcaster, although this was only done experimentally. Some weeks ago the entire station was removed from its old residence in Preston House, Queen Street, Brisbane, to the Observatory Tower on Wickham Terrace. The tower must be an ideal site for a radio station, as wonderful success has been met with since the removal. The aerial system consists of an "L" type squirrel cage aerial suspended from a mast about 100 feet high to the tower, which is located on one of the most elevated hills around Brisbane.

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

## SEPARATE THAT STATION

The Menominee Straight Line Frequency Condenser is unique and entirely different from any other condensers heretofore brought out; and it is at the same time extremely simple and fool proof. The distinct advantage in the condenser is that it gives true straight line frequency characteristics. This is accomplished solely through the use of the cam controlling the action of the plates.

PRICES:  
 .0005 mfd. } 28/6  
 .0025 mfd. } Each  
 .0035 mfd. }



PRICES:  
 .0005 mfd. } 28/6  
 .0025 mfd. } Each  
 .0035 mfd. }



This is an illustration of how the Menominee Straight Line Frequency Condensers separate stations. The illustration is from actual tests. The dial on the left is on the ordinary condensers and that on the right is of the Menominee straight line frequency. Note how the stations are separated, thereby eliminating interference. The only variable condenser with ALL desirable features.

## WILES' WONDERFUL WIRELESS and ELECTRICAL STORES

(W. Hay Wiles)

Head Office and Shops Pitt and Goulburn  
Streets, DNEY.

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

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

Mail Order Department 60 Goulburn Street

## PURITY OF RECEPTION

ADD an "EVER-READY" No. 126 Grid Bias "C" Battery to your valve set and note the wonderful improvement in the reception. No doubt many listeners-in are obtaining wonderful volume for 2, 3, 4, and 5 valve sets, but what about the purity?

By connecting an "EVER-READY" No. 126 Battery to your set the improvement is astounding. Not only is the reception improved, but the life of your "B" battery.



PRICE:  
 2/9  
 Each

PRICE:  
 2/9  
 Each

Different makes of valves require different voltages for a Grid Bias. The "EVER-READY" No. 126 Battery is suitable for all types of valves, as it has 2 terminals, giving either 14, 8, or 4½ volts.

Write and tell us the type and number of valves you are using in your set, and we will supply you with a diagram showing how to connect the "EVER-READY" No. 126 Battery to your set.

Complete stocks of "EVER-READY" B Batteries made in Australia and always fresh.

OUR MAIL ORDER DEPARTMENT, 60 Goulburn Street, is under supervision of a Mail Order Expert, which ensures prompt despatch, careful attention to packing, and all details necessary for an efficient Mail Order Service. We despatch within 24 hours. May we have your order? Open Friday Nights until 9 p.m. Complete parts for all circuits. Advice gratis. Your own Set required by experts. Satisfaction guaranteed. Established over 20 years.

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

(H. J. HAPGOOD).

CHALLIS HOUSE, MARTIN PLACE,  
SYDNEY.

Tel.: BW 6753.

Agents for all Styles of Radio Products.

Agents for Clyde Batteries.

Elec. Meter Mfg. Co., "Emmco"

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

Write for Special Catalogues.

Write for Indent List.

We Represent 34 Foreign Radio Manufac-  
turers.**Your Boy  
Knows!**

**T**HOUGH you may not understand wireless technicalities, your boy does, and probably knows, too, that Ediswan accessories are best.

The long life and dependability of your set lies in the components used, so be certain they are—

**EDISWAN**

WIRELESS ACCESSORIES

EDISON SWAN ELECTRIC CO. LTD.,  
58 Clarence Street, Sydney;  
and at Melbourne, Brisbane, and Adelaide.**General Radio  
Productions**

Illustrated Low Loss Coil Former,	5/6
Plugs for above. Price .. ..	1/-
Base Mounts. Price, 4 .. ..	7/6
Base Mounts. Price, 2 .. ..	5/6
Wound Coils, 50 to 150 metres also 200 to 600 metres. Price, each .. ..	9/6
Variable Condensers—	
.00025 Plain. Price, each .. ..	26/-
.00025 Vernier. Price, each .. ..	33/9
.00025 Tandem. Price, each .. ..	43/-
.0005 Plain. Price, each .. ..	30/-
.0005 Vernier. Price, each .. ..	37/6
.0005 Tandem. Price, each .. ..	48/9
V. T. Sockets. Price, each .. ..	7/6
199 Sockets. Price, each .. ..	3/9
Cushions. Price, each .. ..	2/-
Rehostats. 6, 10, 20 or 30 ohms. Each	9/6
400 ohm Potentiometers. Each	22/6
A. F. Transformers 2-1 or 6-1. Each	45/-
Wave Meter and Trap. Each .. ..	75/-
Socket Adaptors standard V. T. to U.K. Price, each .. ..	2/3
.5 microfads fixed Condensers. Each	7/6
.00025 Table Mounting Condensers	52/6
.0005 Table Mounting Condensers	54/6

**DAVID JONES'**

# FROM HERE AND THERE

## WHAT IS THE TIME?

It is a truism that in present day life a clock is not only a necessity but an actual habit. So much is this the case that in many cases the sudden stopping of a clock will throw a whole household, office, or factory, completely out of gear. In the larger life of cities the same thing obtains, and it is within recent experience that the temporary stoppage of the G.P.O. Clock in Melbourne caused much comment and inconvenience. Such an occurrence is, of course, very rare, so that this particular clock has undoubtedly become an essential part of the business and social life of the city.

Here, as everywhere else, radio broadcasting has stepped in, and 3AR, Melbourne, with their usual enterprise have succeeded in bringing the G.P.O. Clock in Melbourne into every home and office within a radius of miles of the city.

Commencing recently, the time signals at 12 midday, 4 p.m., 8 p.m., and 10 p.m., 4 times daily are being broadcasted direct from the clock at the General Post Office, Melbourne. At these times the well known chimes of this clock will be heard through every tuned in loud speaker over a larger radius than it would be possible to either hear the chimes or see the face of the clock. This will undoubtedly prove a great boon in many places, enabling people to correct their watches and household timepieces with the certainty that the time given is reliable and correct. It is reasonable to suppose that every advantage will be taken of this easy and dependable addition to our domestic and commercial facilities.

At a date to be announced shortly an expert talk will be given from 3AR Studios dealing with the inception and installation of this service.

## BLIND MAN'S RADIO ON SHOW AT EXHIBITION.

Among a number of extraordinary exhibits shown at the Radio and Electrical Exhibition was a two-valve set built by Mr. Frank Downes, the blind digger.

It is a wonderful piece of work. Mr. Downes knows each wire in the set by the number of knots he has tied in it, and he has a system also of identifying the colours of the wires. He drilled every hole himself and built the cabinet unaided. The director of the exhibition provided Digger Downes with a season ticket, and the blind man was there daily, wandering about the stalls. He enjoyed "seeing" the exhibits and seemed to find his way round as well as anyone.

## SOME GOING.

Still they come! Geoffrey Adams, 86 Queen's Road, Hurstville, Sydney, using a crystal set comprising a spider web coil and a variable condenser, regularly picks up 4QG, 3LO, and, of course, the Sydney A and D stations. On Sunday, May 9, he heard the whole of the service from St. Paul's Presbyterian Church, Spring Hill, Brisbane, through 4QG, and when 4QG returned to the studio heard the State election results. After 2BL closed down, he received the selections broadcast from 3LO by the Malvern Municipal Tramway Band. Congratulations, Geoffrey.

## WIRELESS AND ELECTIONS.

Although radio is very young in Queensland, it has played many important parts. Amongst the most valuable to the man outback, who is interested in politics, is the broadcasting of the election figures.

On the occasion of the last Federal election, 4QG transmitted from 6.30 p.m. until 2.30 a.m. the next morning. This was a record for the transmission of any temporary station.

Again, on the night of the State election, Saturday, May 8th, the figures were broadcasted, and two of Brisbane's daily newspapers utilised radio instead of the old-time scoring board. Hundreds of persons outside the buildings were given the up-to-date figures and entertained between announcements by concert items from 4QG. Only three speeches were allowed to be broadcast in this campaign. They were delivered by the leaders of the respective parties engaged in the campaign.

## PROGRESSIVE CHARITY.

Over twelve months ago, United Distributors Ltd., presented a Udisco multi-valve set to the Strathfield Childrens' Home where there are thirty children.

Quite recently however, United Distributors took the receiver away again—but replaced it with one of their very latest models. It would be difficult to describe the joy this kindly act has brought to these little kiddies.

Not to be outdone by United Distributors, however, Clyde Engineering Coy. Ltd. have supplied an "A" Battery, British Ever-Ready Co Ltd. will keep a perpetual supply of "B" batteries, Philips Glowlamps Ltd., have given a battery charger and Mr. C. D. Maclurcan will be the ancient, honorable, and perpetual father of wireless to the hospital.

No praise could be too high for the sentiments that prompted these kind actions. They give the lie direct to that fossilised saying that "There's no sentiment in business."

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

# The REAL Pure tone Valve



**GIVES EVERY  
NOTE ITS  
TRUE VALUE**

**D**ESIGNED to give pure and strong amplification in all L.F. stages. Produces abundant volume free from distortion and will operate all loud speakers.

## MULLARD Double Green Ring VALVES

Type D.3 for 2-volt accumulator EACH  $13/6$       Type D.06 for 2 or 3 dry cells or 4-volt accumulator EACH  $13/6$

NOTE: MULLARD D.3 DOUBLE GREEN RING VALVE IS A 2-VOLT POWER AMPLIFIER.

GET ONE FROM YOUR RADIO DEALER

# Mullard

## THE · MASTER · VALVE

MULLARD VALVES CAN BE OBTAINED FROM ALL RADIO AND ELECTRICAL DEALERS.  
Advertisement of the Mullard Wireless Service Co. Ltd., Balham, London, S.W.12, ENGLAND.  
(ARKS. B2)

**4QG CONSISTENTLY HEARD IN AMERICA.****NUMEROUS REPORTS.**

Quite a number of letters reporting clear reception from station 4QG, Brisbane in America have been received by the Director, Mr. J. W. Robinson.

Mr. F. Bignell, of Regina, Sask., Canada, wrote stating that he had picked up the station very, very clearly and had heard a good deal of the programme. Mr. Bignell quoted portions of the programme which he had heard as proof of his reception, and examination of the log at station 4QG proved him to be correct. Mr. Bignell sent a further letter reporting very clear reception, quoted the various items which he had heard and said that while he was listening a snow storm was raging and was slightly interfering with him. He added that the volume was too loud for an aerial so he disconnected his set and used an interior loop. With this interior loop, he was able to work a loud speaker quite clearly.

Mr. Wilfred S. Gartley, of Wrangell Lumber and Power Co., Wrangell, Alaska, received the station very clearly on March 24th. He expressed appreciation of the vocal efforts of Mrs. Robt. Bell, and stated that the Hawaiian selections by the Kalua Trio came through very clearly. He also heard an appeal for the "Dorrigo" Relief Fund.

Mr. J. Moskovita, of San Pedro, California, U.S.A., also wrote reporting clear reception on March 27th. From Aluetian Islands, Unalaska, Alaska, Mr. L. L. Carp has written stating that the programme on the night of March 10th came in very, very clearly, and that a tenor solo "In the Garden of My Heart," by Signor Corti, was much appreciated. Mr. Carp estimates that he is just about 7,000 miles away from 4QG. Mr. Charles E. Smith, of Wrangell, Alaska, also heard station 4QG on March 26th, and in support of his communication quoted programme items which correspond with the log at station 4QG.

**IMPROVEMENTS IN 4QG'S PROGRAMMES.**

Since the opening, the programmes from 4QG have undergone a vast improvement, and they will soon be quite in line with those that are broadcasted from the stations in the other states.

An afternoon session has been introduced, during which some of the most popular artists and orchestras are being broadcast. The kiddies session too, has been enlarged and now is a nightly feature on the programmes. The story-tellers, too, have been increased, and now two Sandmen, Little Miss Brisbane, Mabel Sunshine, and Uncle Ben, entertain the young folk.

**BROADCASTING COMPANY'S ESSAY COMPETITION.**

The Broadcasting Company of Australia (3LO), has offered prizes to the amount of twenty guineas for essays on "Broadcasting—its Advantages and its Possibilities." Prizes of £3/3/-, £2/2/-, and £1/1/- will be awarded for the best essays by pupils over 14 years, and similar amounts for essays by pupils under 14 years, attending any type of Victorian State school; also half a guinea each for the eight next best essays in both sections. Essays in the senior section should be of about 800 words, and, in the junior section, of about 600 words. Each essay should have attached to it the head teacher's certificate that it is the unaided work of the competitor. Essays should be forwarded to the Manager, Broadcasting Company of Australia, Cambridge Buildings, 193 Collins Street, or The Headmaster of the School, not later than the 31st May, 1926.

**NEW ZEALANDER'S OBSERVATIONS.**

Comparing notes with other listeners, a writer in a New Zealand paper assesses the relative strength of the Australian broadcast stations, as heard in Wellington during the past week, as follows:—4QG, Brisbane, 10 points; 2BL, Sydney, 8 points; 3LO, Melbourne, 6 points; 2FC, Sydney, 6 points; 5CL, Adelaide, 3 points. The tone of these stations may be classed as follows:—2BL and 2FC, 10 points; 3LO, 8 points; 5CL, 8 points; 4QG, 5 points.

**RADIO FROM ARCTIC.****RECEIVED IN NEW SOUTH WALES.**

On Thursday, of last week, Mr. R. C. Whitelaw, the well known Benalla owner-operator of experimental radio station 3HB, received a message sent direct to his station from Captain G. S. Wilkins, the Polar explorer, through Lieut. Messer, of the U.S. Army, located at Fairbanks, Alaska, and for personal transmission only to the Hon. the Prime Minister (Mr. S. M. Bruce). The message, which contains progress reports of the present trip to reach the North Pole, is not available for publication until received by the Prime Minister, but the achievement of receiving the message is one that is well worth being proud of. The message illustrates the development of wireless to a large degree and Mr. Whitelaw recently received a message from Dublin, a distance of 12,000 miles, and from Hawaii and Kent.





No. 6  
3/6 each

# BRIGHT STAR Batteries

## Awarded America's Highest Tests

No. 6A . . . . . each 3/6  
 1 1/2 volts. Supreme in quality and service for all Standard Dry Cell Requirements.

Cat. No.	Gtd. Shelf Life.	Diameter	Height	Weight
6A	12 Mos.	2 1/2 in.	6 1/2 in.	2 lbs.



Cat. No. 15-90      List Price Each 13/6      Gtd. Shelf Life 9 months      Length, Width, Height 6 1/2 x 4 3/16 x 3 1/4      Weight 5 lbs.

No. 15-90 . . . . . each 13/6  
 22 1/2 volts. Five positive brass screw terminals arranged to give 16 1/2, 18, 19 1/2, 21 and 22 1/2 volts from the negative. This battery is specially designed for use with soft detector tubes.



Cat. No. 30-05      List Price Each 28/-      Gtd. Shelf Life 9 Months.      Length, Width, Height 6 1/2 x 8 x 3      Weight 9 1/2 lbs.

No. 30-05 . . . . . each 26/6  
 45 volts. 30 cells. Standard square type. Gives most economical service on 3 and 4 tube sets. Six positive brass screw terminals give 16 1/2, 18, 19 1/2, 22 1/2, and 45 volts from the negative. Designed for sets using 45 or 90 volts. Taps make it suitable for use with soft detector tubes.

# INTERNATIONAL RADIO CO. LIMITED

200 Castlereagh St., Sydney.

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

## AMONGST THE TRADERS

### BRANDES MATCHED TONE HEADPHONES.

The secret of Matched Tone is that one receiver is in perfect tune with the other. Literally, ear to ear, they see "eye to eye." All this gives greater sensitivity, volume and a truer tone. With Brandes Matched Tone Headphones it is assured that there is no possibility of one earpiece being half a tone lower than its mate. Agents: International Radio Co. Ltd., Sydney.



### THE BALKITE BATTERY CHARGER.

The Fansteel Balkite Battery Charger, handled by O. H. O'Brien, Sydney, agents for the well-known All American transformers, is an entirely new type of electrolytic charger, depending for its action on a new metal specially developed for the purpose called Balkite. This, unlike other metals, is not subject to wet corrosion of any sort and when used with standard battery electrolyte, lasts indefinitely. Being very simple, efficient, economical, and durable, it is designed especially for home-use and based as it is upon the new principle of using Fansteel Balkite, it does away with all vibration, noise, and, as it has the quality of acting as a valve, fragile bulbs.

Other than occasionally filling the cell with distilled water, the charger requires no care. It is unfailing in operation and cannot discharge the battery or deteriorate with use or disuse.



### FORMO TRANSFORMER.

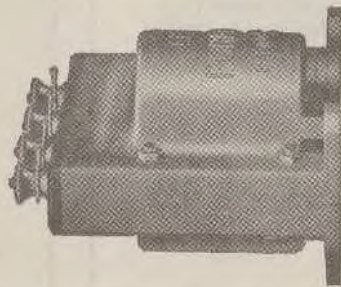
Quite new on this market is the Formo Audio Frequency Transformer, a British product. A test report by C. D. MacLurcan reads as follows:

"The test was carried out with special apparatus designed for this work and consisted of a 2 valve audio amplifier using 201A valves and a voltage of 70 on the plates. The output from a

gramophone tone-arm was fed through another valve and from the plate of this on to the primary of the first transformer.

The cheaper grade "Formo" Transformer proves to be very little different from various other makes that were tested against it. The amplification and tone was up to the standard of the others.

The better grade "Formo" Transformer with



the large number of turns did not give the same amplification, due no doubt to their being of a low-step ratio. However, the tone qualities were far superior to any of the other makes tested against it."

The transformer is beautifully finished, ruggedly constructed and should prove a very good all purpose instrument. Selling agents, Manufacturers Products Sales Company (H. J. Hapgood), Challis House, Sydney.

### FOOTE CRYSTALS.

A triple test is applied to the Foote Galena in the Foote Laboratories by expert operators, and according to the literature available an authoritative test found that this crystal averaged 114 on the audibility meter, while other standard makes showed 55. By broadcast tests on the few crystals returned to the laboratory of the Foote Corporation only 1 in 1000 was below the advertised standard. They are fully guaranteed. Agents: Keith Stokes Pty. Ltd., King Street, Sydney.

### TERPSICHOPE.

The Social Club of Amalgamated Wireless A/sia Ltd., are organising a dance which will be held at Sargents, Market St., on Thursday, May 27th.

Tickets: Double, 12/6; Single, 7/6. Dancing till 12.

**BURGESS—"Over twice the Life"—BATTERIES**



Why not have  
"Wireless Weekly"  
mailed direct to  
your home regular-  
ly every week?

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

Mail your sub-  
scription TO-DAY  
to The Editor,  
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12/16 Regent St.,  
Sydney.



# HOWELL'S SALE & EXCHANGE

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

	s.	d.
3 Plate Condenser . . . . .	3	0
Spitfire Loud Speaker . . . . .	1	17 6
"Jefferson" 41 Transformers . . . . .	20	0
"Ediswan" Transformers . . . . .	15	0
12 Point Inductance Switches . . . . .	2	6
Single Jack . . . . .	1	9
Double Jack . . . . .	2	0
7-22 Aerial Wire, per 100 feet . . . . .	3	0
Standard 201A Sockets . . . . .	1	6
.0005 Straight Line Frequency Low Loss Con- densers . . . . .	13	6
.00025 Straight Line Frequency Low Loss condensers . . . . .	11	6

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

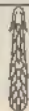
HAVE YOU TRIED THE HOWELL REINARTZ?

There's Nothing Better — Let us Rewire your Set  
WE GUARANTEE RESULTS.

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

Phone MA 1133

No  
More  
Distorted  
Music



Even the poorest Receiver with its harsh repro-  
duction can be converted into a mellow-toned  
musical instrument with the new

## MACLURCAN TONE PURIFIER AND STATIC REDUCER

(Patent app. 26131)

NOW READY FOR SALE **PRICE 21/-** WITH A MONEY  
BACK GUARANTEE

— AN EMMCO PRODUCT —

Particulars from

**CHAS. D. MACLURCAN**  
FRATTEN BUILDING JAMIESON ST., SYDNEY

Manufactured by Electricity Meter Mfg. Co. Ltd., Sydney

**CLARKE'S "ATLAS" RADIO SPECIALITIES**

**"ATLAS"—The King of Coils**

The makers claim to have evolved the finest and most efficient Coil ever yet put on the market, for the following reasons:—

- (a) Its inherent low self-capacity.
- (b) The least resistance to High Frequency currents.
- (c) Cutting out unwanted stations.
- (d) Guarantee of Quality and Efficiency.
- (e) The special design of the male inserts in our Plugs comprising a protuberance at the end of the insert which, possessing a double saw-cut, enables same to accommodate itself to practically any make of Coil Stand.

Write for our latest reduced prices and special stocking allowances to—



**THE GENERAL TRADING COMPANY**

70 PITT STREET—SYDNEY

Sole Wholesale Distributors for Australia.

Telephones: BW 6938 and B 4917

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

Set of  
3 Adjusto Formers  
and  
2 Neutralising  
Condensers

**32'6**

MINIMUM CAPACITY

The Grodan Folding  
**LOOP AERIAL**

Constructed of 60 strands of best Beiden Wire. Folds like an umbrella into a tube 20 inches by 3 inches. When open, the Grodan Loop stands 25 inches high.

PRICE—39/8

**GROSE & DANIELL**

OFF HOLDEN STREET, REDFERN

Phone: Red. 373

## Why the *new* Wecovalves will improve your set!

**G**REATER sensitivity is assured from Wecovalves, for when operated at a dull red heat, the new patented tape filament used in the improved Weco-valve gives fourteen times the electron emission of thoriated tungsten filaments operating at a bright red heat.

Owing to the unique rigidity of their construction and the special method of supporting the valve elements, Wecovalves are positively free from the parasitic noises common to other valves of the dull emitter type.

The extremely low temperature at which Weco-valves operate, due to the special oxide coated filament used, ensures longer life than that usually obtainable from ordinary dull emitter valves.

Wecovalves are specially graded as detectors and as radio or audio frequency amplifiers.



The new Weco-valves are now available from regular radio dealers at

17/6

### Standard Telephones and Cables (Australasia) Limited

FORMERLY

Western Electric Company (Australia) Ltd.,

192-4 CASTLEREAGH STREET, SYDNEY

272



PANELS, Genuine Bakelite.

We have for sale a quantity of used panels in sizes 24 x 12 and smaller. 1/- and 6d. each.

COLVILLE MOORE WIRELESS SUPPLIES LTD.,  
10 Rowe Street, Sydney.

## Sale of Surplus Stock

The following are a few of the lines we are offering.

Mounted and unmounted honeycomb coils, fixed and variable condensers, 6 and 30 ohm rheostats, drilled Bakelite panels (12 x 8 5/8 x 3/16 inch) and pieces, Ebonite washers and distance pieces, Polish-ed Maple Boxes (10 1/2 x 10 x 4 1/2 ins.) suitable for 2 or 3 valve receivers, Double and single slide tuners, Loose Couplers, Telephone Plugs and Jacks, Single and Double silk covered and Enamel wire, etc., etc., at gift prices.

On View:

Basement

Amalgamated Wire-  
less (A/sia) Ltd.,

97 Clarence Street,  
SYDNEY.

Country readers  
write to Dept. "F"  
for full particulars.

## ESPERANTO

From the International Central Esperanto Committee, Geneva, we have received a report in four languages setting out the advances made by Esperanto of late. Each sphere of activities is dealt with under a separate heading from amongst a host of which we have selected that labelled "Esperanto and Wireless."

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

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

The report concludes: "Esperanto is now being studied in 100 countries. The Universal Esperanto Association with headquarters in Geneva, whose object is the practical application of the international auxiliary language has members at the present time in 82 different countries.

19 international reviews and 40 national journals form a permanent link between Esperantists throughout the world."

### RUSSIA AND ESPERANTO.

Comments contained in our article on Russian broadcasting and Esperanto on November 27th, 1925, portions of which have been taken exception to by the editor of "Radio Amatoro," Moscow, (vide our issue of April 23rd, 1926), are fully borne out in a particularly explanative article which we reprinted in "Radio," on January 20th last. The following is an extract:

"So keen is Moscow on the solution of the problem of rapid communication with all parts of the country that considerable encouragement is given to all amateurs in the purchase of finished wireless receivers of a suitable pattern for the reception of near and distant stations, or for the home construction of sets with the components manufactured by the radio factory group of the Russian Broadcasting Company.

Advisory offices have been opened in many quarters of the larger cities to give the necessary technical assistance to enthusiasts; every desire of listening to lectures, and in very many instances,

the absence of a receiving license is winked at by the authorities!

In furtherance of the same scheme, plans have now been made to open 12,000 reading rooms, 6,500 artisan's clubs, and 4,000 peasant inns, all of which will be fitted with receivers and loud-speakers."

The latter paragraph is especially illuminating insofar as no similar organisation has been attempted elsewhere, and we are given to understand that at the present time quite a large number of these are actually in operation. Under the circumstances it is not surprising that in the general scheme of educating peasant folk, a variety of subjects is chosen, and that some should evince a preference for subjects having a higher intellectual appeal.

Esperanto is one of these subjects and reports from Russia leaves no doubt in one's mind about the progress it is making. Otherwise how can one explain the use of Esperanto in the newest postage stamps to draw attention to one of the world's first radio experimenters, Popov? And how is it that the Radio Branch of the Russian Governmental Board of Professional Associations adopted Esperanto as its official language for international correspondence?

But the Editor of "Radio-Amatoro" provides the best answer of the Russian attitude to Esperanto himself. His journal, a copy of which was sent to us a few weeks ago, represents the interests of professional and amateur radio societies throughout Russia, and this high-standard publication not only gives a summary in Esperanto at the head of all constructional articles and items of general interest, but has a series of lessons in this language running through its pages.

It may therefore be accepted as definite that the complaint was not prompted by any extravagant reference to Esperanto, but to a remark having a political flavour—a fact for which we again express our regret.

### CATALOGUE RECEIVED.

We have just to hand a well printed brochure describing the wireless equipment manufactured by B.S.A. Radio Ltd., who have recently entered the wireless field in Great Britain. There are complete receivers of various types contained in beautiful cabinets and adapted so that the tuning range extends from 300 to 1600 metres. Amongst other things shown in the book are loud speakers, headphones, B.S.A. valves, sockets, etc. B.S.A. Radio Ltd. is a branch of the famous Birmingham Small Arms Co. Ltd, so that this is a quite sufficient guarantee that the standard of the wireless manufacture is a very high one.

# Better Radio results at less cost

## RANGE, ECONOMY, QUALITY

For those who prefer to make their initial Radio installation as inexpensive as possible A.G.E. Receiving Set No. 3 was designed, and realising that most users would shortly desire to add to this installation A.G.E. Receiving Set No. 3 and balanced amplifier was designed to go with it. This set was designed for outlying districts where distant receptions may be held at minimum expense.

Booklet mailed free.

### Australian General Electric Co. Ltd.

Wentworth Avenue, Sydney, N.S.W.  
Hunter Street West, Newcastle, N.S.W.  
Cr. Queen and Little Collins Streets, Melbourne, Vic.  
Cr. Queen and Edward Streets, Brisbane, Q.  
27 Grunfell Street, Adelaide.

Agents.  
Atkins (W.A.) Ltd., 804 Hay Street, Perth, W.A.  
Oliver & Oliver Pty. Ltd., Hobart and Launceston,  
Tasmania.



## 2FC NOTES

### BAND CONCERTS TO BE BROADCAST.

Arrangements have been made by 2FC to carry out a series of Sunday evening band concerts during the winter season and these will commence with a concert by the Leichhardt District Band, the champion band of New South Wales, on Sunday night, 16th May. Other well known bands will be engaged to carry out these winter Sunday night concerts.

### PAVLOVA'S LAST NIGHT.

Messrs. J. C. Williamson Limited have given permission to Farmer's Broadcasting Service to transmit the final night of the Pavlova season on Thursday, 20th May. Arrangements have also been made for Mr. Alfred O'Shea to sing at the studio on that evening.

### NEW ARTISTS FOR 2FC.

Miss Jill Manners, the popular J. C. Williamson soprano, will sing from 2FC studios again on Saturday, 22nd May.

### EMPIRE DAY.

Monday, 24th May, will be marked by special service from 2FC, and they will transmit from the Hotel Australia the dinner given by the Royal Colonial Institute, at which the Governor General, the Prime Minister, and the State Governor will attend.

### THEATRICAL TRANSMISSIONS.

2FC announces the following transmissions from the theatres. Thursday night, 20th May, Pavlova's last night, at which the whole orchestral programme will be given. On the same night, Miss Renee Kelly will speak from her dressing room at the Criterion Theatre. On 26th May, will be given the second act of "Lilac Time," being the last performance in Sydney, will be transmitted. Mr. Arthur Stignant will talk from his dressing room.

### SUNDAY FEATURES, MAY 23rd.

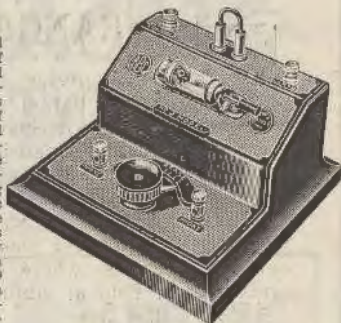
Morning Service from St. Andrew's Cathedral through 2FC. Special Empire Day Service in the afternoon from the Lyceum Theatre, and also from the Town Hall, the Boy Scouts Annual Service, at which His Excellency the Governor General will preside. In the evening the service will be taken from St. Matthew's Church of England, Manly, at the close of which a Band Concert will be given.

### BROADCAST HELP FOR AUTHORS.

The officials of the Brussels broadcasting station have decided to assist Belgian authors. Extracts are to be read before the microphone from new books as they are published.

### SPECIFICATION.

Embodying all the features of the Standard "Brownie" Receiver, this model is of unique and pleasing appearance, moderate price, and capable of resisting extreme climatic conditions. The outer casing is hydraulically moulded under a pressure of 60 tons, forming a pleasing and substantially designed piece of apparatus.



The receiver has a natural wavelength up to 600 metres, and a standard plug-and-socket coil attachment is provided, which, with the aid of the suitable coils, makes the set adaptable to any wavelength in the world. All fittings are nickelled. Retail Price 10/6. Supplied attractively cartoned.

## The renowned "Brownie Wireless"

The Brownie Wireless Model No. 2 has been called the World's Receiver. Small wonder, when you consider that it is penetrating to every corner of the globe and has been universally acclaimed as the finest crystal set in the world. Within a distance of 25-30 miles from a broadcasting station it brings in the concert with an astounding degree of sustained volume. The latest "Brownie Wireless" product—the "Permatector"—the "always ever-set" crystal detector—is destined to enjoy the same popularity. It eliminates adjustments with the cat-whisker, and once you've set it for the loudest signals, you can actually shake the receiver without affecting reception. Heavily nickel-plated. It can be fitted instantly to any model "Brownie Wireless" Receiver, and, in addition, brackets and screws are provided for fitting it in a few minutes to any other receiver.

## BROWNIE WIRELESS

### Model No. 2 & Permatector

AGENTS are required in all broadcasting centres. Send for full particulars from the manufacturers.



The Permatector—the always ever-set crystal detector.

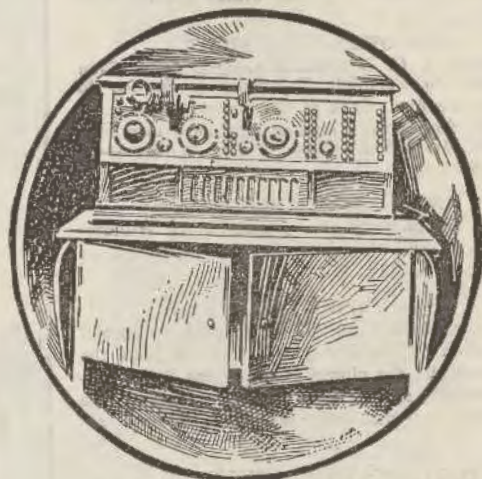
The Brownie Wireless Co. (of Gt. Britain) Ltd., 310a - 312a, Euston Road, London, N.W.1., England.



# SENSATIONAL OFFER

**PAYMENT £1** will insure immediate delivery in the Metropolitan Area  
**OF**

- (1) By purchasing a Single Valve Unit Set you secure the foundation of the most up-to-date 4 Valve Set
- (2) The Second Unit gives more volume.
- (3) By fitting the Third Unit full Loud Speaker volume is secured
- (4) The Fourth Unit combines the previous results with distant reception
- (5) A Built-in Loud Speaker is fitted in the Cabinet with the Single Valve Set
- (6) A Low Loss & Broadcasting Receiver in one
- (7) Each Unit is complete with the necessary accessories
- (8) Not a penny wasted. Add to your Foundation Receiver at will and you don't have to scrap your previous Set
- (9) We show you how to work it, and it is guaranteed.
- (10) Crystal Clearness — Simplicity of Operation throughout



## VALVE WIRELESS

**SET** on an exclusive unit system

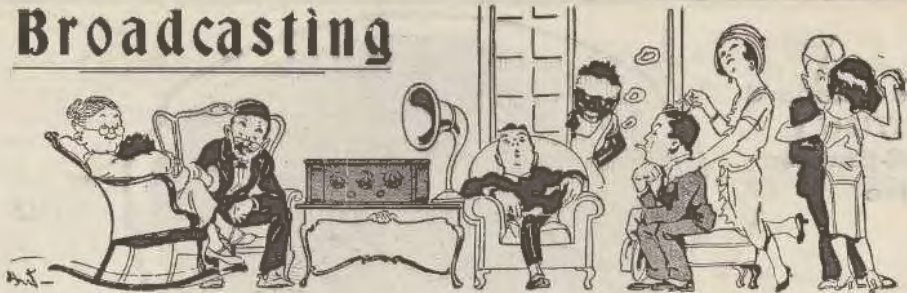
This set is built in a handsome foundation cabinet and has a 1 valve set with headphones and a loud speaker permanently built in.

Applicable to all classes of reception. Extra valves can be added to a full strength 4 valve set without reconstruction.

**£1** down secures immediate delivery  
Balance 5/- weekly.

**Home Recreations Ltd**  
388 George St., Sydney  
(opp Beard Watson's)

# Broadcasting



## 2BL

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

FRIDAY, MAY 21.

### Afternoon Session.

- 10.55—Special Cricket Session with Music from the Studio.  
 9—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.  
 3.15—Music from the Studio.  
 3.30—G.P.O. Clock and Chimes; A talk on English Poetry by Mr. J. M. Prentice.  
 3.45—Music from the Studio.  
 4—G.P.O. Clock and Chimes; Music from the Studio.  
 4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramoni.  
 4.45—Music from the Studio.  
 5—G.P.O. Clock and Chimes; The Sun News Service.  
 5.15—G.P.O. Clock and Chimes; Close down.  
 Early Evening Session.  
 6—G.P.O. Clock and Chimes; Sporting Resume from the Sun Newspapers; The pupils of Miss Monica Scully will entertain the Kiddies.  
 6.45—Broadcasters' Dinner Orchestra.  
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.  
 7.50—Close down.  
 Evening Session.  
 Cec. Morrison and His Gloomchasers. Mr. Cec. Morrison will play any number asked for by telephone when the request will be broadcast. Senior Sporting Expert of "The Sun," on racing form and tips for the following day's Races. Miss Nora Mack, soprano, and travelogue dealing with Egypt, by Mr. J. M. Prentice.

SATURDAY, MAY 22.

### Afternoon Session.

- 10.55—Special 20 minute Cricket Session with Music from the Studio.  
 2—G.P.O. Clock and Chimes; Special Sporting Information broadcast direct from Sun Office.  
 5.15—G.P.O. Clock and Chimes; Close down.  
 Early Evening Session.  
 6—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.  
 6.30—Sporting Resume from Sun Newspapers; Uncle George and the Kiddies.  
 7—A Talk to the Kiddies by "Brin-za."  
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.  
 Evening Session.  
 The Abad Duo with their steel guitars. Broadcasters Harmonists Vocal Quartette. Mr. Maurice Fransky in bunjo solos and Mr.

Victor Evans, baritone in items from his repertoire. Brin-za will speak on the Australian Aborigines, and Mr. Stanley Crittenden will give the second of his series from Field to Wall.

SUNDAY, MAY 23.

- 11—Chalmers Street Presbyterian Church, sermon by Rev. D. F. Brandt.  
 4—Organ Recital from the Palmer Street Presbyterian Church Church.  
 6—Service for the Kiddies from the Studio by Uncle George.  
 8.30—Manly Municipal Military Band broadcast from Ocean Beach, Manly.  
 9.30—From the Studio: Vocal Items and Broadcasters Instrumental Trio.

MONDAY, MAY 24.

### Afternoon Session.

- 10.55—Special Cricket Session with Music from the Studio.  
 9—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.  
 3.15—David Jones' Tea Room Trio.  
 3.30—G.P.O. Clock and Chimes; A talk on A Course in English Literature, by Mr. J. M. Prentice.  
 3.45—Music from the Studio.  
 4—G.P.O. Clock and Chimes; David Jones' Tea Room Trio.  
 4.15—Music from the Studio.  
 4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramoni.  
 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 Resumes from Sun Newspapers; Uncle George and the Kiddies.  
 7.30—"What's On," a guide to the visitors and citizens of Sydney.  
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.  
 7.50—Close down.

### Evening Session.

- Ambassadors Salon Quartette under the direction of Mr. Claude McGivern. From the Studio: Mr. Clem Williams, baritone; Talk on sporting by courtesy of Messrs. Mick Signons Ltd. Newtown Band broadcast from Industrial Hall, Newtown. Al. Hammett and the Ambassadors Dance Orchestra, broadcast from the ballroom of the Ambassadors. Mr. D. Raymond on "Interesting and Coinciding; Mr. Brown on Electricity and the Motor Car.

TUESDAY, MAY 25.

### Afternoon Session.

- 10.55—Special 20 minute Cricket Session with Music from the Studio.  
 9—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.  
 3.15—Music from the Studio.  
 3.30—G.P.O. Clock and Chimes.  
 3.45—Music from the Studio.  
 4—G.P.O. Clock and Chimes; Music from the Studio.  
 4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramoni.  
 4.45—Music from the Studio.  
 4.55—Late Market Reports from The Sun.  
 5—G.P.O. Clock and Chimes; Sun News Service.  
 5.15—G.P.O. Clock and Chimes; Close down.

### Early Evening Session.

- 6—G.P.O. Clock and Chimes; Sporting Resume from "Sun" Newspapers; Uncle Jack and the Kiddies.  
 6.45—Broadcasters' Dinner Orchestra.  
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.  
 7.50—Close down.

### Evening Session.

- From the Studio: Miss Nora Hill; Irish Soprano; Mr. Norman Janson, baritone; Miss May Nancarrow, elocutionist; Mr. H. E. Craib on The Story of Civilisation No. 7; The decay of Civilization; Mr. G. C. Barne will tell Real Ghost Stories.

WEDNESDAY, MAY 26.

- 10.55—Special 20 minute Cricket Session with Music from the Studio.  
 Afternoon Session.  
 3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.  
 3.15—Broadcasters' Trio.  
 3.30—G.P.O. Clock and Chimes; Special Operatic Talk by Mr. J. M. Prentice.  
 4—G.P.O. Clock and Chimes; Broadcasters' Trio.  
 4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramoni.  
 4.45—Broadcasters' Trio.  
 4.55—Late Market Reports from The Sun.  
 5—G.P.O. Clock and Chimes; Sun News Service.  
 5.15—G.P.O. Clock and Chimes; Close down.  
 Early Evening Session.  
 6—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.  
 6.30—Sporting Resume from Sun Newspapers; Uncle George and Uncle Jack with the Kiddies.  
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.  
 7.50—Close down.

**BURGESS—"Fit all Cabinets"—BATTERIES**

The Standard  
BRITISH  
Dull-Emitter  
Valve



## Choose the Wuncell and be money in pocket

EVERY week sees several thousand wireless enthusiasts leaving the ranks of the bright emitter valve users and changing over to Wuncells. And each month these new adherents make a practical saving of several shillings in reduced accumulator re-charging fees. But this is not the only economy effected. The new Wuncell possesses a filament having exceptional long-wearing qualities. Owing to the fact that the valve operates at its best when the filament is barely glowing, it is subjected to very few stresses. The Wuncell filament is made under a process known only to Cossor. It is built up layer upon layer. Each layer means additional strength. This process ensures a filament wonderfully productive of electrons—and when allied to the well-known Cossor electron-retaining design of Grid and Anode, obviously

an ultra-sensitive valve is the result.

Now is the time to change over to Wuncells—and start saving money. If yours is a multi-valve Set operated from a 4 or 6-volt accumulator it is unnecessary for you to discard all your valves at once, you can change over one by one as your existing valves become useless. For your convenience the W.R. series of Wuncells has been evolved. These are 1.8 volt valves with special bases which permit the Wuncells being used with 2-volt, 4-volt, or 6-volt accumulators without the slightest alteration to Set. A small in-built resistance controlled by a switch enables the valve being used on any voltage between 2 volts and 6 volts. Get acquainted with these super-economy valves without delay—your dealer can supply you with interesting descriptive folders free of charge.



The Wuncell Dull Emitter.  
Voltage, 1.8 volts. Consumption, 3 amp.

\*W1 for Detector and L.F., 13/6 each.

\*W2 for H.F. Amplification, 13/6 each.

Cossor Loud Speaker Valves.

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

P3. Voltage, 4.5 volts. Consumption, 1.75 amp. Price, 24/- each.

\*Also in WR Series, with special switch and resistance in base to enable valve being used with 2-, 4-, 6-volt Accumulator.

WR1 for Detector and L.F., 18/- each.

WR2 for H.F. amplification, 18/- each.

## Cossor Valves

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

**Evening Session.**

City of Sydney Band, broadcast from Barlow Chambers. From the Studio: Mr. Robert Harper, Sydney's brilliant tenor; Miss Bilda Lane, soprano; Foreign Affairs Talk, by Mr. J. M. Prentice, when all telephone questions and answers will be broadcast.

**THURSDAY, MAY 27.**

- 1.55—Special 20 minute Cricket Session with Music from the Studio.
- Afternoon Session.
- 3—C.P.O. Clock and Chimes; Weather Reports and Social Notes from the Sun.
- 3.15—David Jones' Tea Room Tylo.
- 3.30—C.P.O. Clock and Chimes.
- 3.45—Music from the Studio.
- 4—C.P.O. Clock and Chimes; David Jones Tea Room Trio.
- 4.15—Music from the Studio.
- 4.35—Late Market Reports from the Sun.
- 4.50—C.P.O. Clock and Chimes; Sun News Service.
- 5.15—C.P.O. Clock and Chimes; Close down.
- Early Evening Session.
- 6—C.P.O. Clock and Chimes; Sporting Resume from "Sun" Newspapers; Uncle Jack and the Kiddies.
- 7.30—Close down.

**Evening Session.**

From the Studio: Miss Dorrie Ward, soprano and Mr. W. E. Lewis, baritone, in solo and duet numbers; Waikiki Troubadours; Sydney Players will present a sketch entitled, The Runners; Mr. Frazer Anderson will speak on Antropological Aids to Character; and Dr. Donald Luker on Japan—Moods and Reactions No. 2: The Medieval and the Modern.

**4QG**

**QUEENSLAND RADIO SERVICE.**

Wavelength, 385 metres.

**FRIDAY, MAY 21.**

**Middy Session.**

- 12.55—"Tone-in" Signal.
- 1—Market Reports supplied by the Council of Agriculture; Stock Exchange Information supplied by the Committee of the Brisbane Stock Exchange; Weather Information supplied by the Commonwealth Weather Bureau; "Daily Standard" News Service; Close down.
- 3.30—From the Studio—Soprano solo, Miss Olga Harris; Aeolian Vocalion Selection; baritone solo, Mr. J. Caldwell; Monologue by Miss Mabel Carmac; soprano solo, Mrs. S. B. Harris; Duo Art Selection, fox trot; soprano solo, Miss Olga Harris; Aeolian Vocalion Selection, band number; baritone solo, Mr. J. Caldwell; soprano solo, Mr. S. B. Harris.
- 7—The Farmers' Session, Market Reports; Lecture—"The Queensland Tick and How it Can be Eradicated," by Mr. C. J. Pound (Government Bacteriologist).

**Night Session.**

- 15—Lecture Session—A talk arranged by the Workers' Educational Association.
- 3—Gavotte, The Federal Band (under the leadership of Mr. W. H. Davies); soprano solo, Miss Lillian Brown; waltz, The Federal Band; quartette solo, Miss Vera Parker; fox trot, The Federal Band; soprano solo, Miss Lillian Brown; cornet solo, with band accompaniment; contralto solo, Miss Vera Parker; March, The Federal Band.
- 15—Weather Information officially supplied by the Commonwealth Weather Bureau.
- 15—Announcements.
- 6—Opera, The Savoy Orchestra (conductor, Mr. A. R. Featherstone); bass solo, Mr. Stanley Tamblin; fox trots, The Savoy Or-

chestra; The Phillip Sisters in a Musical Comedy Act; selection, The Savoy Orchestra; cornet solo, Mr. S. Henry; waltz, The Savoy Orchestra; bass solo, Mr. Stanley Tamblin; Orchestral, The Savoy Orchestra; March, The Savoy Orchestra.

10.30—Close down.

**SATURDAY, MAY 22.**

- The complete morning service will be relayed from the Seventh Day Adventist Church, Buranda.
- 11—Voluntary: Hymn; Prayer; Offertory; Sermon: The Crumbling of Earthly Kingdoms as Foretold in Prophecy, Pastor F. Knight; solo, Mr. H. Fallows; Hymn; Benediction.
- 12.15—Close down.

**The Children's Hour.**

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

- 6.25—Tune-in Signal.
- 6.30—The Children's Session; Bedtime Stories by Uncle Ben, assisted by Mabel Samhins.
- 7.15—Close down.

**Night Session.**

- 7.45—Lecture Session—A Sporting Talk, by Rugby League Officials.
- 8—Vocal duet, Mrs. Robt. Bell and Miss Ruth Portrate; baritone solo, Mr. J. Morgan; Hawaiian Instrumentalists in Native Numbers; The Kalua Trio; tenor solo, Mr. E. Ungerer; vocal duet, Mrs. Robt. Bell and Miss Ruth Portrate; soprano solo, Mrs. S. B. Harris; Hawaiian Instrumentalists, The Kalua Trio; baritone solo, Mr. J. Morgan; vocal duet, Miss Mae King and Miss Nance King; Musical Monologue, Miss Eileen McLennan; baritone solo, Mr. J. Caldwell; Hawaiian Instrumentalists, The Kalua Trio; tenor solo, Mr. E. Ungerer.
- 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
- 8.55—Announcements.
- 9—From Lennon's Ballroom—By courtesy of the proprietors of Lennon's hotel, ten minutes dance music by Miss May Dohbyn's Vice Regal Orchestra will be relayed from Lennon's Ballroom.
- From the Studio—Soprano solo, Miss Nance King; baritone solo, Mr. J. Caldwell.
- From Lennon's Ballroom—Ten minutes of Dance Music.
- From the Studio—Soprano solo, Mrs. S. B. Harris.
- From Lennon's Ballroom—Ten Minutes Dance Music.
- From the Studio—Soprano solo, Miss Nance King; Musical Monologue, Miss Eileen McLennan; contralto solo, Miss Mae King.

**SUNDAY, MAY 23.**

**Morning Session.**

- The complete morning service will be relayed from the Albert Street Methodist Church.
- 10.55—Tune-in.
- 11—Morning Service.
- 12.30—Close down.

**Afternoon Session.**

- The Combined Bands of Brisbane will provide a concert in the Botanical Gardens in aid of the funds of the Queensland Band Association. The concert will be relayed.
- 3.10—Tune-in.
- 3.15—Band Concert. The following will participate: The Greater Brisbane Municipal Concert Band, The Metropolitan Band, The Federal Band, The Excelsior Band, The Citizens' Band.
- 3.30—Close down.

**Night Session.**

The complete evening service will be relayed from St. Andrew's Presbyterian Church.

- 7—Evening Service.
- 8.30—Benediction.

**Band Concert.**

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

- 8.30—Band Concert.
- 9.30—Close down.

**MONDAY, MAY 24.**

**Market Reports.**

- 1.30—Close down.
- 3.25—Tune-in.
- 3.30—From the Tivoli Theatre—By courtesy of the Directors of Haymarket Theatres Ltd., music by the Tivoli Operatic Orchestra will be relayed.
- 3.40—From the Studio: soprano solo, Mrs. T. Thornton; Monologue, Miss Eileen McLennan; contralto solo, Miss Winifred Anderson; Duo Art Selection, fox trot; soprano solo, Mrs. T. Thornton; monologue, Miss Eileen McLennan; contralto solo, Miss Winifred Anderson.
- 4.15—News Service supplied by "The Telegraph."
- 4.30—Close down.
- Early Evening Session:

- 5.25—Tune-in.
- 6.30—The Children's Session—Stories by "The Sandman"
- 7—The Farmers' Session—Market Reports supplied by the Council of Agriculture. Lecture—A Brief History of the Sugar Industry, by Mr. H. T. Easterby (Director of the Bureau of Sugar Experimental Stations).
- 7.20—News Service supplied by "The Telegraph."
- 7.30—Close down.

**Night Session.**

- 7.45—Lecture Session—Motorists—Correct Lubrication Talk No. 6, by "Gargyle."
- 8—The Monster Citizens' Empire Meeting, which will be held in the Exhibition Concert Hill will be relayed.
- 9—Baritone solo, Mr. Les. Faulkner; Hawaiian Instrumentalists, The Kalua Trio; contralto solo, Mrs. Charles Willey; pianoforte solo, Miss Rae Phillips; baritone solo, Mr. D. K. Symes; soprano solo, Miss Lillian Brown.
- 10—"The Daily Mail" News Service; National Anthem by 4QG Artists. Close down.

**TUESDAY, MAY 25.**

**Middy Session.**

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

**Afternoon Session.**

- 3.25—Tune-in.
- 3.30—Opera, The Savoy Orchestra; soprano solo, Miss Olga Harris; orchestral, The Savoy Orchestra; obnoxious number, Miss Foo Todd; orchestral, The Savoy Orchestra; soprano solo, Miss Olga Harris; selection, The Savoy Orchestra; baritone solo, Mr. Chas. O'Mara; orchestral, The Savoy Orchestra; obnoxious number, Miss Foo Todd; march, The Savoy Orchestra.
- 4.15—"The Telegraph" News
- 4.30—Close down.

**Early Evening Session:**

- 6.25—Tune-in.
- 6.30—The Children's Session—Stories by "The Sandman"
- 7—The Farmers' Session; Market Reports; Lecture—Bunbury Top in Bonanza, by Prof. sur. Goddard (University of Queensland).
- 7.20—"The Telegraph" News.
- 7.30—Close down.

**BURGESS. "Constant satisfaction assured"—BATTERIES**

# BAKELITE PANELS

Cut to any desired size

3/16in. . . . . **3d.** PER SQUARE INCH.

This Price is the Lowest in Sydney

Preferred Straight Line Frequency  
Condensers, .0005 22/6; .0003 .. **20/**

Preferred Vernier Dials, 20-1  
Ratio. Note the Price .. **7/-**

American Brand Condensers, .0005 **11/**

Winchester, 45 v., large capacity,  
B Batteries, each . . . . . **26/-**

Winchester, 22½ v., large capacity,  
B Batteries, each . . . . . **13/-**  
(Fresh Stocks Just Landed)

**5 VALVE NEUTRODYNE  
KITS**, panel drilled, com-  
plete with everything ready  
to build, 250 to 2000 meters **£11**

**NEUTRON CRYSTAL.** The  
World's Greatest Crystal. "The  
Crystal with Valve Power."  
New stocks just to hand . . . **2/3**

## ALL MAKES OF VALVES STOCKED.

All valves are tested in our Jewell Tube  
Checker and carefully packed for  
dispatch.

# Mick Simmons Ltd

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**Night Session.**

- 7.45—Lecture Session—Popular Science Talk No. 3, by Mr. F. McDonnell.
- 8—From the Studio—Brisbane Apollo Club.
- 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
- 8.55—Announcements.
- 9—From the Studio—Brisbane Apollo Club.
- 9.15—From the Centennial Hall—By courtesy of the lessee a programme of dance music by the Centennial Hall Orchestra will be relayed from the Hall.
- 9.55—"The Daily Mail" News Service.
- 10—Close down.

**WEDNESDAY, MAY 26.**

**Midday Session.**

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

**Afternoon Session.**

- 2.25—Tune-in.
- 3.30—Soprano solo, Mrs. R. G. Allen; Group of banjo numbers by Mr. G. Deane; contralto solo, Miss Irene Elphinstone; Duo Art Selection; baritone solo, Mr. J. Caldwell; Aeolian Vocation Selection; Duo Art Selection; contralto solo, Miss Irene Elphinstone; Group of Banjo numbers by Mr. G. Deane; baritone solo, Mr. J. Caldwell; soprano solo, Mrs. R. G. Allen.
- 4.15—"The Telegraph" News.
- 4.30—Close down.

**Early Evening Session.**

- 6.25—Tune-in.
- 6.30—The Children's Session—Stories by Little Brisbane.
- 7—The Farmers' Session; Market Reports; Lecture—The Lot of the Dairy Farmer, by Mr. R. Wight (Radio Office, Council of Agriculture).
- 7.20—"The Telegraph" News.
- 7.30—Close down.

**Night Session.**

- 7.45—Lecture Session—Tourist. Talk.
- 8—A Nautical Night.
- 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
- 8.55—Announcements.
- 9—A Nautical Night, continued.
- 10—"The Daily Mail News Service; Close down.

**THURSDAY, MAY 27.**

**Midday Session.**

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

**Afternoon Session.**

- 2.25—Tune-in.
- 3.30—Pianoforte duet, Miss Doris Valentine and Miss Feo Todd; contralto solo, Miss Dorothy Brown; Aeolian Vocation Selection, Descriptive Fantasia, played by the Albany Symphony Orchestra; soprano solo, Mrs. Robt. Bell; pianoforte duet, Miss Doris Valentine and Miss Feo Todd; contralto solo, Miss Dorothy Brown; Aeolian Vocation Selection; soprano solo, Mrs. Robt. Bell; Duo Art Selection.
- 4.15—"The Telegraph" News.
- 4.30—Close down.

**Early Evening Session:**

- 6.25—Tune-in.
- 6.30—The Children's Session—Stories by "The Sandman"

- 7—The Farmers' Session; Market Reports; Lecture—Building up a Rural Civilization, by Mr. J. P. F. Reid (Editor, Agricultural Journal).

7.20—"The Telegraph" News.

7.30—Close down.

**Night Session.**

- 7.45—Lecture Session—A Talk on Books by Mr. W. A. Braden (McLeod's Bookstore).

The first portion of the programme will comprise the broadcasting of a special recital by the Choir of the City Tabernacle, and will be relayed from the City Tabernacle.

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

8.55—Announcements.

- 9.30—From the Studio—Weather Information officially supplied by the Commonwealth Weather Bureau; Announcements; Studio Concert.

10—"The Daily Mail" News Service. Close down.

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**FRIDAY, MAY 21.**

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

**Evening Session.**

- 7.30—Latest News Items; Miss Esme Dicht, L.L.C.M.; Miss Maizie Carroll, soprano; Mr. Alf James, baritone; Mr. Boyd, technical

designer of 2KY, wireless lecturette; Labor Research Bureau, political and industrial topics; Mr. David Edelsten, monologues; Andro Addison's String Orchestra.

**SATURDAY, MAY 22.**

- 7.30—Latest News Items and sporting results; Mr. J. O'Sullivan, baritone; Lecturette, Flute on Motors, Mr. W. H. Burgess; Mr. Frank Rodman, monologues; Lecturette, Labor Legis, Mr. J. C. Eldridge; Mr. Robertson, baritone; Nellie O'Sullivan, dramatic scenes; Mr. W. Masters, banjo solos.

**MONDAY, MAY 24.**

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

- 7.30—Latest News Items; Miss Amy Busfield, entertainer; Miss D. Johnstone, soprano; W. Strain, tenor; Lecturette, Local Topics, Industrial and Political, Mr. J. S. Gordon; Mr. Beard, Technical designer of 2KY, wireless Lecturette; Mr. J. Gray, baritone; Miss Nellie Graves, soprano; Mr. Tom O'Connor, tenor; Miss Muriel Jones, soprano; Master Clarke, violin solo.

**TUESDAY, MAY 25.**

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

- 7.30—Latest News Items; Miss Dorrington, soprano; Lecturette, Organic Evolution, Mr. Geo. E. Manuel; Miss Zara Nilsson, soprano; Lecturette, Fighting Cancer Series, Mr. R. V. Markham; flute solos, Mr. Les. Springle; Mr. McDougal, Hawaiian steel kuitar; Mr. David Lloyd, pianist; Mr. A. Jamieson, tenor; Master Cedric, boy soprano; Miss Betty, mezzo soprano; Lecturette by the Sun Democracy League.

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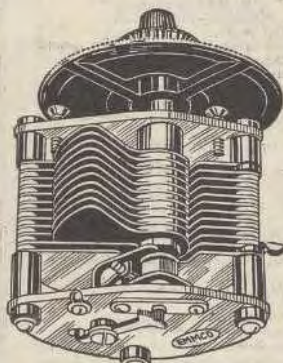
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## WEDNESDAY, MAY 26.

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

12.10—Latest News Items: Miss Eileen Charters, soprano; Miss Dean, pianist; Lecturette, International Topics, Industrial and Political, Mr. J. S. Garden; Mr. R. Webster, baritone; Mr. Percy Brown, monologues; Mr. Sullivan, tenor; Miss Thompson, soprano; Lecturette, Health Topics; Miss Lily Wallace, whistler; Lecturette, subject to be announced, Rt. Rev. G. A. Arundale; Results of the Lawn Tennis Competition.

## THURSDAY, MAY 27.

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

12.10—Latest News Items: Miss Tibbie Smith, monologues; Mr. Eric Goldrick, Hawaiian and guitar; Lecturette, Readings from Working Class Fiction, Miss E. L. Patrick; Lecturette, Mr. J. C. Eldridge, social science writer; Miss Butterworth, soprano; Mr. W. Thom, tenor; Miss Sheehy, monologues; Cross word puzzle night.

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## FRIDAY, MAY 21.

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

- 11.30—G.P.O. Chimes.  
 11.31—Featuring a Steek Duo Art number.  
 11.40—"Advertiser" News Service.  
 12—G.P.O. Chimes.  
 12.1—News and Cable Service.  
 12.10—Featuring a Steek Duo Art number; The 5CL Studio Orchestra Selection: cornet solo; fox trot; waltz in A minor; rustic festival; intermezzo; selection instrumental trio; finale.  
 12.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcements.  
 1—G.P.O. Chimes.

## Afternoon Session (3 to 5).

- 1—G.P.O. Chimes.  
 1.1—Relay from Maple Leaf Cafe: Orchestral numbers.  
 1.5—Broadcast from Studio: Serial Story.  
 1—G.P.O. Chimes.  
 1.1—Broadcast from Arcadia Cafe: Orchestral numbers.  
 1.55—Stock Exchange Reports, General Information and Station Announcements.  
 1—G.P.O. Chimes.

## Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.  
 6.31—Bedtime Stories for the Children.  
 7.30—Stock Exchange, Market Reports and Station Announcements.  
 7.40—Sporting Talk by "Old Timer."  
 8—G.P.O. Chimes.  
 8—Studio Concert arranged by Miss Linda Wald.  
 8—G.P.O. Chimes.  
 8.1—Weather Reports.  
 8.1—Studio Concert—continued.  
 10.15 approx.—Advertiser News Service.  
 10.30—Station Announcements; National Anthem.

## SATURDAY, MAY 22.

10.30—G.P.O. Chimes.  
 10.31—The 5CL Studio Orchestra will play: Selections: cello solo; fox trot; oriental; an idyll; waltz dance; selection; serenade; finale.  
 Sporting Results when available.  
 Steek Duo Art and Vocalion Numbers.

## Evening Session.

- 6.30—G.P.O. Chimes.  
 6.31—Bedtime Stories for the Children.  
 7.30—Market reports and station announcements.  
 7.40—A review of the world's chief sporting events.  
 8—G.P.O. Chimes.  
 8.1—From Studio—Mr. Mervyn Hulme-Smith's "Six Virginians."  
 8.45—Too II Lecture.  
 9—G.P.O. Chimes.  
 9.1—Weather Reports.  
 10.31—"Advertiser" News Service.  
 10.30—Station Announcements; National Anthem.

## SUNDAY, MAY 23.

## Morning Session:

- Broadcast from Black Forest Church—Divine Service.  
 10.55—Organ Preludes.  
 11—Call to Worship. Sermon: Rev. W. Keith Steward.  
 Afternoon Session.  
 3—Relay from Exhibition Building—Mission Service of Gipsy Smith.

## Evening Session:

- 6.30—G.P.O. Chimes.  
 6.31—Bedtime Stories for the Children.  
 7 (approx.)—Relay from Exhibition Building—Holden's Band from Studio, Station Announcements. National Anthem.

## MONDAY, MAY 24.

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

- 11.30—G.P.O. Chimes.  
 11.31—Featuring a Steek Duo Art number.  
 12—G.P.O. Chimes.  
 12.1—News and Cable Service.  
 12.16—Featuring a Steek Duo Art number: 5CL Studio Orchestra will play: Selection: violin solo; fox trot; waltz; cornet solo; intermezzo; suite; selection; finale.  
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcements.  
 2—G.P.O. Chimes.

## Afternoon Session. (3 to 5).

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

## Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.  
 6.31—Bedtime Stories for the Children.  
 7.30—Mr. Breton will speak on "How to Remember."  
 7.50—Miss Wanda Edwards will speak on "Dancing."  
 8.1—Dance Programme, interspersed with vocal numbers by "Hallstone's Club Royal Dance Band," conducted by Mr. Ross Kelton, from the Grosvenor.  
 8.20—Twinkler's Original Humorous Talk (Mr. F. J. Mills).  
 8.40—Dance Programme, continued.

9.3—Dance Programme, continued.  
 10.30—Dance Programme, continued.  
 10.45—Station Announcements; To-morrow's Programme; National Anthem.

## TUESDAY, MAY 25.

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

- 11.30—G.P.O. Chimes.  
 11.31—Featuring a Steek Duo Art number.  
 12—G.P.O. Chimes.  
 12.1—News and Cable Service.  
 12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play: Selection: cornet solo; noveltie; fox trot; prelude in C sharp minor; waltz; sextette; suite; finale.  
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis and Station Announcements.  
 2—G.P.O. Chimes.

## Afternoon Session. (3 to 5).

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

## Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.  
 6.31—Bedtime Stories for the Children.  
 7.30—Stock Exchange, Market Reports and Station Announcements.  
 8—G.P.O. Chimes.  
 8.1—Studio Concert arranged by Miss Haken-dorf, assisted by Miss Elsie Wilson, Messrs. Gerald Healy and L. Clark (vocalist).  
 8.20—Talk by Mr. Hudson, "Pine Forests."  
 8.30—Cookery Talk arranged by S.A. Gas Co.  
 8.40—Studio Concert.  
 9—G.P.O. Chimes.  
 9.1—Weather Reports.  
 9.3—Studio Concert.  
 10—G.P.O. Chimes.  
 10.1—Studio Concert.  
 10.36—"Advertiser" News Service.  
 10.50—Station Announcements; National Anthem.

## WEDNESDAY, MAY 26.

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

- 11.30—G.P.O. Chimes.  
 11.31—Steek Duo Art and Aeolian Vocalion Recitals.  
 12—G.P.O. Chimes.  
 12.1—News and Cable Service.  
 12.16—Featuring a Steek Duo Art number: 5CL Studio Orchestra will play: Overture; violin solo; fox trot; reverie; oriental; waltz; selection; cornet solo; finale; selection.  
 Overture; cello solo; fox trot; reverie; waltz; oriental; selection; instrumental trio; finale.  
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis, and Station Announcements.  
 2—G.P.O. Chimes.

## Afternoon Session. (3 to 5).

- 3—G.P.O. Chimes.  
 3.1—Broadcast from Maple Leaf Cafe: Orchestral Numbers.  
 3.45—Serial Story from the Studio.  
 4—G.P.O. Chimes.  
 4.1—Relay from Arcadia Cafe: Orchestral numbers.



4.55—Stock Exchange Reports, General Information and Station Announcements.  
5—G.P.O. Chimes.

Evening Session (6.50 to 10.30).

6.50—G.P.O. Chimes.  
6.51—Bedtime Stories for the Children.  
7.20—Copeck Lecture, Ven. Archbishop Moyes.  
8—G.P.O. Chimes.  
8.1—Studio Concert, arranged by Miss Hilda Wheeler.  
8.35—Science Lecture arranged by Messrs. F. H. Faulding & Co.  
9—G.P.O. Chimes.  
9.1—Weather Reports.  
10.30—From the Studio, Musical Numbers.  
10.40—Station Announcements; National Anthem.

THURSDAY, MAY 27.

11.30—G.P.O. Chimes.  
11.51—Featuring a Steck Duo Art number.  
11.40—"Advertiser" News Service.  
11.55—Vocalian Number.  
12—G.P.O. Chimes.  
12.1—"Advertiser" News Service.  
12.15—Featuring a Steck Duo Art number; 5CL Studio Orchestra will play: Overture; waltz solo; fox trot; an waltz; novellette; waltz; conjurer's dance; corset solo; finale.

1.55—Ward & Co.'s Stock Exchange Intelligence, Official weather synopsis, and station announcements.  
2—G.P.O. Chimes.

Afternoon Session.

3—G.P.O. Chimes.  
3.1—Relay from Maple Leaf Cafe, orchestral numbers.  
3.45—Broadcast from Studio, Serial Story.  
4—G.P.O. Chimes.  
4.1—Broadcast from Arcadia Cafe, orchestral numbers.  
4.55—Stock Exchange Reports, general information, and station announcements.  
5—G.P.O. Chimes.

Evening Session.

6.30—G.P.O. Chimes.  
6.31—Bedtime Stories.  
7.15—Health Talk, given by School for Mothers, arranged by Mr. A. M. Whittenbury.  
7.30—Market Reports.  
7.40—Poultry Talk by Mr. A. M. Whittenbury.  
8—G.P.O. Chimes.  
8.1—5CL Orchestra in instrumental numbers.  
9.3—Studio Orchestra.  
10.1—Studio Orchestra.  
10.30—Studio Orchestra.

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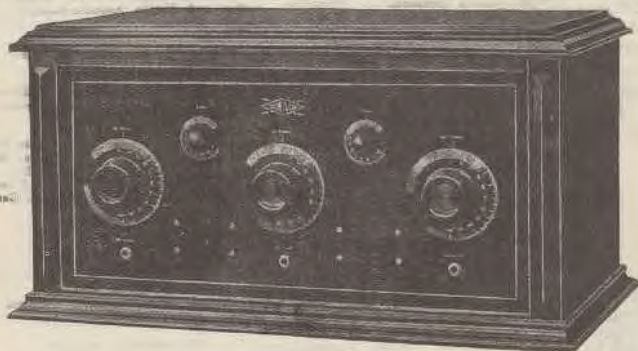
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FRIDAY, MAY 21.

Midday Session.

12 noon—Transmission from Messrs. Allan & Co.'s Stand at the International Motor Show at the Exhibition Buildings.  
12.20—British Official Wireless News from Rugby; Reuters and the Australian Press Association cables.  
12.45—Stock Exchange Information. Weather Forecasts for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecast; River Report.  
1—Time Signal.  
1.1—Studio Orchestra.  
1.10—Stanley Adams, violin soli.  
1.20—Harold Rodgers, organ.  
1.30—Studio Orchestra.  
1.35—Stanley Adams, violin soli.  
1.45—Harold Rodgers, organ.  
1.55—Studio Orchestra.  
2—Close down.



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Afternoon Session.

- 3.—Latest Australian Eleven Cricket Scores—by courtesy of Reuters Ltd.
- 3.3—Studio Orchestra.
- 3.11—Edouard and Raymond Lambert.
- 3.17—E. Mason Wood, baritone.
- 3.24—Studio Orchestra.
- 3.34—Raymond Lambert, piano solo.
- 3.39—Edouard Lambert, violin solo.
- 3.43—Romela Hanstein, soprano.
- 4.50—Air Fut, of Messrs. Buckley & Nunn Ltd., Fashion Talk.
- 4.5—Raymond Lambert, piano solo.
- 4.12—Edouard Lambert, piano solo.
- 4.17—E. Mason Wood and Romula Hanstein, duet.
- 4.24—Walter Smith, cornet solo.
- 4.35—"Herald" News Service; Latest Australian Eleven Cricket Scores by courtesy of Reuters; Stock Exchange Information.
- 5.—Close down.

Evening Session.

- 6.—Children's Hour; Stories by Billy Bunny; Nursery Rhymes; The Porcupine, Black Beauty.
- 6.16—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables.
- 6.51—Weather Synopsis; Shipping Movements.
- 7.—Stock Exchange Information.
- 7.2.—Fish Market Reports by J. R. Borret Ltd.

7.4.—Market Reports by the Victorian Producers Co-Operative Co., Ltd.; Haymarket Sales, Poultry, Grain, Cattle, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

Night Session.

- 7.20.—Under the auspices of the Develop Australia League—Mr. L. J. Levy, Corowa, N.S.W.—To Help Our Sons.
- 7.30.—Mr. Norman Macowan, now appearing in the "Admirable Crichton," will speak from his dressing room at the King's Theatre, by permission of J. C. Williamson Ltd.
- 7.—Collingwood Citizens' Band.
- 8.—Miss McCormack, soprano.
- 8.18.—Collingwood Citizens' Band.
- 8.26.—Euphonium solo, played by R. Spencer.
- 8.35.—Under the auspices of the Department of Agriculture—Mr. J. Brake, Senior Inspector of Agriculture, Wheat Varieties recommended by the Agricultural Department.
- 8.55.—Collingwood Citizens' Band.
- 9.3.—Miss McCormack, soprano.
- 9.12.—Roma Wily, pianoforte solo.
- 9.22.—Mr. Charles Nettall, in a Travologue, Java.
- 9.42.—Collingwood Citizens' Band.
- 9.57.—Oliver Peacock, baritone.
- 10.—"Herald" News Service; British Official Wireless News from Rugby; Meteorological Information; Notes on today's activities on the Melbourne Stock Exchange.
- 10.4.—Roma Wily, pianoforte solo.
- 10.14.—Collingwood Citizens' Band.
- 10.26.—Cornet solo, played by F. Robinson.

- 10.34.—Oliver Peacock, baritone.
- 10.51.—Collingwood Citizens' Band.
- 11.—God Save The King.
- 10.57.—Raymond Lambert, piano solo.
- 10.43.—Edouard Lambert, violin solo.
- 10.46.—Collingwood Citizens' Band.
- 11.—God Save the King.

SATURDAY, MAY 22.

Morning Session.

- 11.—Harold Rodgers, organ recital.
- 11.15.—Somora Recital.
- 11.25.—Harold Rodgers, organ recital.
- 11.37.—Somora Recital.
- 11.44.—Harold Rodgers, organ recital.
- 12.—Time Signal, British Official Wireless News from Rugby, Reuters and the Australian Press Association Cables, Latest Australian Cricket Eleven Scores, by courtesy of Reuters, "Argus" and "Herald" News Service, Shipping Intelligence.
- 12.20.—Time, British official wireless news from Rugby, Reuters 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 Report.
- 1.—Time Signal.
- 1.1.—Studio Orchestra.

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- 1.11—Oliver Penneck, baritone.  
 1.12—Agnes Fortune, piano solo.  
 1.23—Studio Orchestra.  
 1.29—Oliver Penneck, baritone.  
 1.36—Tasma Treiman, cello solo.  
 1.41—Studio Orchestra.  
 1.51—Hessie Gunnson, violin solo.  
 2—Result of Korooro Hurdle — Williamstown Races, Close down.

## Afternoon Session.

- 2.35—Result of Encourage Stakes, Williamstown Races, Close down.  
 Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd.  
 3—Robins and Taylor's Roany Orchestra.  
 3.10—Result of Bayview Handicap, Williamstown Races.  
 3.11—Robins and Taylor's Roany Orchestra.  
 3.35—Result of Autumn Steeplechase, Williamstown Races.  
 3.47—Robins and Taylor's Roany Orchestra.  
 4.29—Result of Gellibrand Handicap, Williamstown Races.  
 4.21—Robins and Taylor's Roany Orchestra.  
 4.45—Sporting Results: "Herald" and "Argus" news services.  
 4.55—Result of Beach Welter, Williamstown Races.  
 5—Close down.

## Evening Session.

- 5.45—All sporting results, Local, Country, and Interstate.  
 6—Children's Hour. Stories by Mary Gunleaf; Poems: Regulating the traffic; A lot of Babies; Story for the Littlest ones, Friday, the Kittens; Another little play by Mary Gunleaf and the Gnomes Babies.  
 6.45—"Argus" and "Herald" News Services, Reuters and the Australian Press Association Cables.  
 6.53—Weather Synopsis; Shipping Movements.  
 6.57—Stock Exchange Information.  
 7.2—Fish Market Reports by J. R. Barrett Ltd.  
 7.4—Market Reports by the Victorian Producers Co-operative Co. Ltd. Grain, Cattle, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

## Night Session.

- 7.20—Mr. Frederick Chapman, Story of Linnæus.  
 7.40—Dr. J. A. Leach, Tails of Birds.  
 8—Official opening of the Wireless Exhibition, by the Prime Minister, the Right Hon. Stanley Bruce, P.C., M.C., at Werth's Olympia.  
 8.20—Stevens' Silver Band.  
 8.27—Cornet Solo, played by H. V. Stevens.  
 8.32—E. Mason Wood, baritone.  
 8.39—Stevens' Silver Band.  
 8.49—From the Studio: Edward and Raymond Lambert, piano and violin.  
 8.59—Eileen Pascoe, Webbe, contralto.  
 9.6—Stevens' Silver Band.  
 9.16—Edward Lambert, violin solo.  
 9.24—Raymond Lambert, pianoforte solo.  
 9.29—E. Mason Wood, baritone.  
 9.36—Eileen Sturt, soprano.  
 9.42—Eileen Pascoe Webbe, contralto.  
 9.49—Raymond Lambert, pianoforte solo.  
 10—Edward Lambert, violin solo.  
 10.10—"Argus" News Service. Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd.; British Official Wireless News from Rugby; Meteorological Information; Notes on to-day's activities on the Melbourne Stock Exchange; Sporting Results; Races, Football, Metropolitan Soccer League, Metropolitan Amateur Association.  
 10.30—Eileen Sturt, soprano.  
 10.37—Trombone solo.  
 10.43—Stevens' Silver Band.  
 11—God Save The King.

## SUNDAY, MAY 23.

## Morning Session.

- 11—Services from Scots Church, Collins Street, Melbourne, Minister: The Rev. W. Borland, Sermon Ye Shall Receive Power, Acts 1, v. 8.  
 12.15—Close down.

## Afternoon Session.

- 3—Pleasant Sunday Afternoon Service—Wesley Mission, Lonsdale Street, Chairman: Rev. C. Irving Benson, Address: Dr. and Mrs. Howard Taylor (China Island Mission), The Crisis in China.  
 4.30—Close down.

## Evening Session.

- 6—Children's Hour. Stories by Billy Bunny; The Lost Garden; The Loveliest Life; Dreams.  
 6.45—Close down.

## Night Session.

- Service from Baptist Church, Collins St., Melbourne.  
 6.50—Organ Prelude.  
 7—Sanctus. Call to Worship. (The hymns were chosen by an invalid lady listener living in one of the Melbourne suburbs. Till wireless came she had been cut off for years from church services of any kind. The hymns are her favourites).  
 From the Studio.  
 8.00—Coburg City Band.  
 8.37—Leo Darnum, baritone (by permission of J. C. Williamson Ltd.)  
 8.44—Coburg City Band.  
 8.56—Alice Mallon, soprano (by permission of J. C. Williamson Ltd.)  
 9.3—Coburg City Band.  
 9.9—Leo Darnum, baritone.  
 9.16—Coburg City Band.  
 9.24—Alice Mallon, Soprano.  
 9.31—"Argus" News Service.  
 9.45—Coburg City Band.  
 10—God Save The King.

## MONDAY, MAY 24.

## Midday Session.

- 12 noon—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. British Official Wireless News from Rugby, Reuters and the Australian Press Association Cables. "Argus" and "Herald" News Service, Shipping Intelligence.  
 1.1—Time Signal.  
 1.2—Studio Orchestra.  
 1.10—Tom Foster, tenor.  
 1.19—Studio Orchestra.  
 1.25—Community Singing by the Students of the Melbourne University, transmitted from the Club House, Melbourne University, Carlton.  
 2—Close down.

## Afternoon Session.

- 3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 3.1—Studio Orchestra.  
 3.10—Mr. J. R. Locke—First of a series of Travel Talks on Persia.  
 3.25—May Alberta, soprano.  
 3.32—Studio Orchestra.  
 3.42—Roy Warren, bass.  
 3.49—Tasma Tremain, cello solo.  
 3.54—Miss Flora Pell, Supervisor of Domestic Arts, Education Department; Domestic Economy.  
 4.0—Studio Orchestra.  
 4.15—May Alberta, soprano.  
 4.22—Walter Smith, cornet solo.  
 4.30—Roy Warren, bass.  
 4.37—Studio Orchestra.  
 4.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Herald" News Service, Stock Exchange Information.  
 5—Close down.

## Evening Session.

- 6—Children's Hour. Stories by Billy Bunny; Nursery Rhymes; A Caterpillar who was tired of himself. Black Beauty.  
 6.40—Latest Australian Eleven Scores, by courtesy of Reuters Ltd. "Argus" and "Herald" News Service, Reuters and the Australian Press Association Cables.  
 6.50—Weather Synopsis; Shipping Movements.  
 6.57—Stock Exchange Information.  
 7.2—Fish Market Report by J. R. Barrett Ltd.  
 7.2—Fruit Market report by J. R. Barrett Ltd.  
 7.4—Market reports by the Victorian Producers Co-operative Co. Ltd., Haymarket Sales: Poultry, Grain, Cattle, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

## Night Session.

- 7.20—Under the Auspices of the Develop Austral League, Mr. Daniel James, of Brisbane—Queensland, the Champion of White Australia.  
 7.40—Under the auspices of the Department of Agriculture—Mr. I. M. Ward, Horticultural Superintendent, The Fruit Industry—Review of.  
 8—Transmission from the Wireless Exhibition, Werth's Olympia, South Melbourne City Band.  
 8.10—Kenneth Impett, baritone.  
 8.17—South Melbourne City Band.  
 From the Studio.  
 8.25—The Pascent of Empire, presented by Madame Ethel Ashton, Music by Sir Edward Elgar.  
 9.10—Professor Pietro Sarcoli, violin recital.  
 9.20—Joe Delaney, tenor.  
 9.27—South Melbourne City Band.  
 9.34—Madame E. Ashton, soprano.  
 9.41—Professor Pietro Sarcoli, violin recital.  
 10—South Melbourne City Band.  
 10.10—Kenneth Impett, baritone.  
 10.17—South Melbourne City Band.  
 10.30—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" News Service, meteorological Information, British Official Wireless News from Rugby.  
 11—God Save the King.

## TUESDAY, MAY 25.

## Midday Session.

- 12 noon—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. British Official Wireless News from Rugby, Reuters and the Australian Press Association Cables. "Argus" and "Herald" News Service, Shipping Intelligence.  
 1.15—Stock Exchange Information.  
 1.25—Meteorological Information; Weather Forecasts for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecast; River Reports.  
 1—Time Signal.  
 1.1—Studio Orchestra.  
 1.10—Tom Foster, tenor.  
 1.17—Dorothy Roxburgh, viola solo.  
 1.22—Studio Orchestra.  
 1.30—Moana Ima Duo Hawaiian instrumentalists.  
 1.45—Tom Foster, tenor.  
 1.52—Studio Orchestra.  
 2—Close down.

## Afternoon Session.

- 3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 3.7—Bernard Julian Russell, pianoforte solo.  
 3.10—Alma Horlock, soprano.  
 3.17—C. Richard Clugg, flute solo.  
 3.27—The Four Shiks.  
 3.40—An Air of Mecca, Buckley & Nunn Ltd.—Fashion Talk.  
 3.55—Oliver Penneck, baritone.  
 4.2—Studio Orchestra.

4.10—Alma Hoslock, soprano.  
 4.17—Bessie Gausson, violin solo.  
 4.22—C. Richard Chugg, flute solo.  
 4.32—The Four Shicks.  
 4.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Herald" News Service. Stock Exchange Information.  
 5—Close down. Results of the Gaming at Geelong will be given as they come to hand.

Evening Session.

6—Children's Hour. Stories by Mary Gurneaf, Poem, Learning to chant; Baby's Game; The Adventurous Geese; Story for the littlest ones; The lost baby; for the bigger ones: A talk about Our Empire.  
 6.40—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" and "Herald" news services. Reuters and the Australian Press Association Cables.  
 6.53—Weather Synopsia; Shipping Movements.  
 6.58—Stock Exchange Information.  
 7.2—Fish Market Reports by J. R. Barrett Ltd.  
 7.4—Market Reports by the Victorian Producers Co-operative Co. Ltd.; Hay-market Sheep Sales, Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

Night Session.

7.20—Under the Auspices of the Town Planning Association. Capt. Kempsey, Secretary of the Town Planning Council, Economic Aspect of Town Planning.  
 7.40—Under the auspices of the University Extension Board—Mr. O. de R. Founder, O.U. Australian Currency.  
 8—Transmission from the Wireless Exhibition, Wirth's Olympia, Steinfort's Broadcasters.  
 8.10—Roy Warren, bass.  
 8.17—Steinfort's Broadcasters.  
 8.23—Roy Warren, bass.  
 From the Studio.  
 8.35—A short lecture will on Schubert, by Mr. Felix Hart, the following illustrations will be rendered during the lecture. Miss Lillian Stott, soprano; Miss Jean Hambleton, contralto.  
 9.30—Bert Howell, and his Concert Orchestra, transmitted from the Victory Theatre, St. Kilda.  
 10.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" News Service. British Official Wireless News from Rugby. Meteorological Information.  
 11—God Save The King.

WEDNESDAY, MAY 25.

Midday Session.

12 noon—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. British Official Wireless News from Rugby. Reuters News Service. Shipping Intelligence.  
 12.45—Stock Exchange information.  
 12.50—Meteorological Information. Weather forecasts for Victoria, Tasmania, S.A. and N.S.W. Ocean forecast. River reports.

1—Time Signal.  
 1.1—Ham Johnson's Monte Carlo Band.  
 1.15—Oliver Peacock, baritone.  
 1.22—Ham Johnson's Monte Carlo Band.  
 1.40—Oliver Peacock, baritone.  
 1.47—Ham Johnson's Monte Carlo Band.  
 2—Close down.  
 2.15—Result of Hurdle Race—Aspendale Races  
 2.45—Result of Maiden Plate—Aspendale Races.

Afternoon Session.

3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 3.1—Studio Orchestra.  
 3.10—Miss S. V. Parker—Sir Rabindranath Tagore.  
 3.25—Result of Aspendale Plate—Aspendale Races.  
 3.26—Romola Hanstein, soprano.  
 3.32—Studio Orchestra.  
 3.42—The Four Shicks.  
 3.49—Result of Aspendale Park Handicap.  
 4.51—Studio Orchestra.

4.2—Tasma Tinnan, cello solo.  
 4.7—The Four Shicks.  
 4.17—Result of Aspendale Race.  
 4.18—Sister Purcell, of the Victorian Baby Health Association, Mothercraft.  
 4.32—Romola Hanstein, soprano.  
 4.39—Studio Orchestra.  
 4.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Herald" News Service. Stock Exchange Information. Result of Welter Handicap.  
 5—Close down.

Evening Session 6 to 7.15

6—Children's Hour. Stories by Little Miss Kookaburra.  
 6.45—Argus and Herald news services. Reuters and the Australian Press Association Cables.  
 6.53—Weather Synopsia. Shipping movements.  
 6.58—Stock exchange information.  
 7.2—Fish market reports by J. R. Barrett Ltd.

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FRIDAY, MAY 21.

Morning Session.

11.30—The British Official Wireless Press, received from Rugby Super Wireless Station, England; The Age News Bulletin.  
 12—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer, and thermometer readings; 1st Weather Forecast; Events of the Day.  
 12.5—Musical Selections from Hoyt's De Luxe, Bourke Street.  
 12.30—Stock Exchange News.  
 12.35—Market Reports.  
 12.40—Musical Selections.  
 12.55—Mail Notices; Shipping Movements.  
 1—Time Signal.

Afternoon Session

2.30—Hoyt's Premier Orchestra, under the direction of Miss Ella Brine, relayed from the Hoyt's De Luxe, Bourke Street.  
 4—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer and thermometer readings; 2nd Weather Forecast.  
 4.5—Hoyt's Premier Orchestra.  
 4.30—Mr. R. Standley Haines (of Braming's Pty. Ltd.), will speak to the children on "Historical Wonders."  
 4.55—The Evening Amusement Guide.  
 5—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer and Thermometer readings. Close down.  
 6.45 to 7.30—The Children's Corner by Uncle Ned. 1, The Bedtime Story; 2, Talk on Hobbies.

8—Time Signal from the G.P.O., Elizabeth St., Melbourne; Studio barometer and thermometer readings.

8.1—Racing Anticipations by "Horashee."  
 8.10—Mr. R. Standley Haines, Weekly Gardening Talk, Preparing for Rose Planting.  
 8.25—Miss Helen Macpherson (soprano).  
 8.32—Madame Royer-Estou, French Talk.  
 8.45—Mr. Harold Davies (baritone).  
 8.53—Mr. Roy Rumage (cello solo).  
 9—Miss Nellie Winterason (elocutionist).  
 9.7—Miss Hazel Ralph (mezzo soprano).  
 9.14—Miss Hazel Whyte (soprano).  
 9.19—Mr. Roy Rumage (cello solo).  
 9.25—Miss Irene Tullis (contralto).  
 9.32—Miss M. Bevan (piano solo).  
 9.39—Miss Nellie Winterason (elocutionist).  
 9.46—Miss Helen Macpherson (soprano).  
 9.53—Mr. Harold Davies (baritone).  
 10—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio Barometer and thermometer readings.  
 10.1—The Age News Bulletin, exclusive to 3AR.

10.5—Hoyt's Premier Orchestra.  
 10.40 approx.—National Anthem and Close down.

SATURDAY, MAY 22.

Morning Session.

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

Wireless Station, England; The Age News Bulletin.

12—Time Signal, Chimes from the tower of the General Post Office, Melbourne; 1st Weather Forecast; Events of the Day.  
 12.5—Musical Selections, relayed from Hoyt's De Luxe, Bourke Street.  
 12.30—Stock Exchange News; Foreign Exchange, supplied by Messrs. Abos, Cook & Son.  
 12.35—Market Reports.  
 12.40—Selections from Hoyt's De Luxe, Bourke Street  
 12.55—Mail Notices; Shipping Movements.  
 1—Close down.

Afternoon Session.

Williamstown Race; Results also at ¼ hourly intervals.  
 2—Description while racing of Kororoi Hurdle.  
 2.35—Result of the Encourage Stakes.  
 2.40—Hoyt's Premier Orchestra.  
 3.10—Result of the Bay View Handicap.  
 3.15—Hoyt's Premier Orchestra.  
 4—Time Signal Chimes from the tower of the G.P.O., Elizabeth St., Studio barometer and thermometer readings.  
 4.10—Result of Gellibrand Handicap.  
 4.15—Hoyt's Premier Orchestra.  
 4.45—Result of Beach Welter.  
 4.55—The Evening Amusement Guide.  
 5—Time Signal Chime from the G.P.O., Elizabeth St., Studio barometer and thermometer readings; Close down.

Early Evening Session.

6.15 to 7.30—The Children's Corner by Uncle Ned. (1) The Bedtime Story. (2) Talk on Hobbies.

Evening Session:

8—Time Signal Chime from the G.P.O., Elizabeth Street. Studio barometer and thermometer readings; the British Official Wireless Press, received by 3AR's operator from Rugby Super Wireless Station, England; Sporting News; Local News.  
 8.15—Dance Night. The Rhythmic Dance Orchestra under the direction of Mr. George Lewis, relayed from the Maison De Luxe, Broadway, St. Kilda.  
 9.30—Week-End Traveller's Information: Supplied by the Victorian Railway's Department and Tramways Board.  
 9.50—The Maison De Luxe Dance Orchestra.  
 10—Time Signal Chime from the G.P.O., Elizabeth St., Studio barometer and thermometer readings.  
 10.5—The Maison De Luxe Rhythmic Dance Orchestra.  
 11—National Anthem and Close down.

SUNDAY, MAY 23.

Morning Session.

10.30—The Bells from St. James Old Cathedral.  
 11—Service from the Independent Church, Collins Street; Preacher, Rev. J. Ernest James, B.D.; Sermon by the Archbishop of Melbourne: Rev. J. Harrington Lees.

Afternoon Session.

3—Pleasant Sunday Afternoon from St. Mark's Church, Fitzroy; Chairman: Rev. R. G. Nichols; Vocal and Instrumental Selections.

Evening Session.

6.30—The Bells from St. James Old Cathedral.  
 7—Service from the Collins Street Independent Church. Preacher: Rev. J. Ernest James B.D. From the Studio.  
 8.30—Mr. Dudley Thorpe (baritone).  
 8.37—Mr. Edwin Brins (cornet solo).  
 8.44—Miss Queenie Brown (contralto).  
 8.50—Mr. Jack Prince (baritone).  
 8.57—Miss Violet Wharton and Mr. J. Fausyibo (duologue).  
 9.15—Miss Queenie Brown (contralto).  
 9.24—Mr. Dudley Thorpe (baritone).  
 9.26—Mr. Edward Brins (cornet solo).  
 9.30—The Eclipse Grand Orchestra, relayed from the Eclipse Theatre, Port Melbourne.  
 9.50—The "Age" News Bulletin, exclusive to 3AR.  
 9.55—National Anthem and close down.

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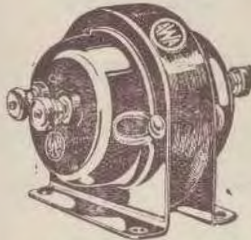
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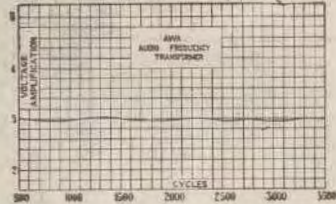
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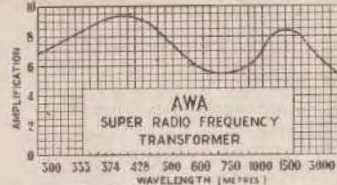
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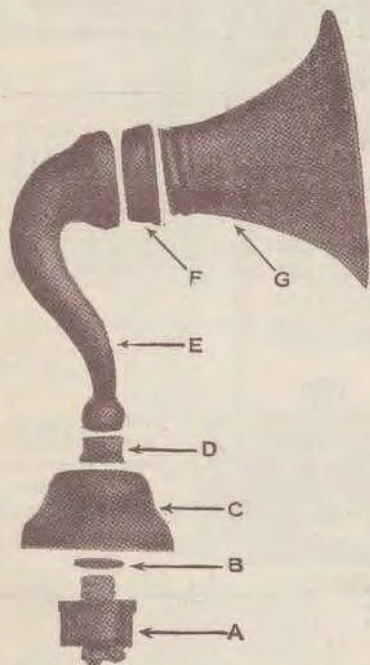
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