

WIRELESS WEEKLY

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transmission by post as a newspaper.

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FRIDAY, JULY 2, 1926.



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The Lovisthan
Pty. Ltd.,
Melbourne.



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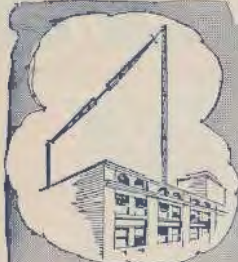
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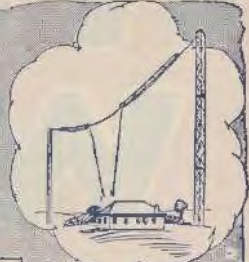
3A.R. MELBOURNE



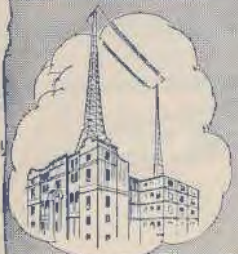
2K.Y. SYDNEY



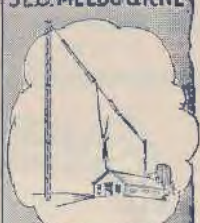
2F.C. SYDNEY



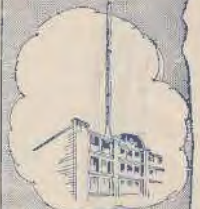
3L.O. MELBOURNE



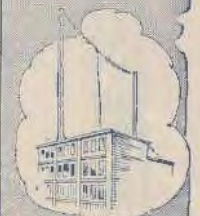
4Q.G. BRISBANE



2B.L. SYDNEY



6W.F. PERTH



7Z.L. HOBART



5C.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.

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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.

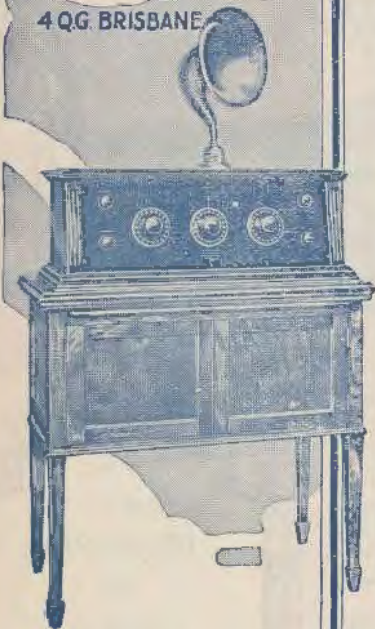
Tuning dials synchronise—wavelengths are controlled with one switch—volume by another.

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- | | |
|---|--|
| "UDISCO" Eight on Stand with Quam Loud Speaker, Clyde United Wet Accumulator, Ray-O-Vac B Batteries, Valves, and Aerial Equipment. 110 gns. | "UDISCO" Special Five on Stand with Quam Loud Speaker, Clyde United Wet Accumulator, Ray-O-Vac B Batteries, Valves and Aerial Equipment. \$75. |
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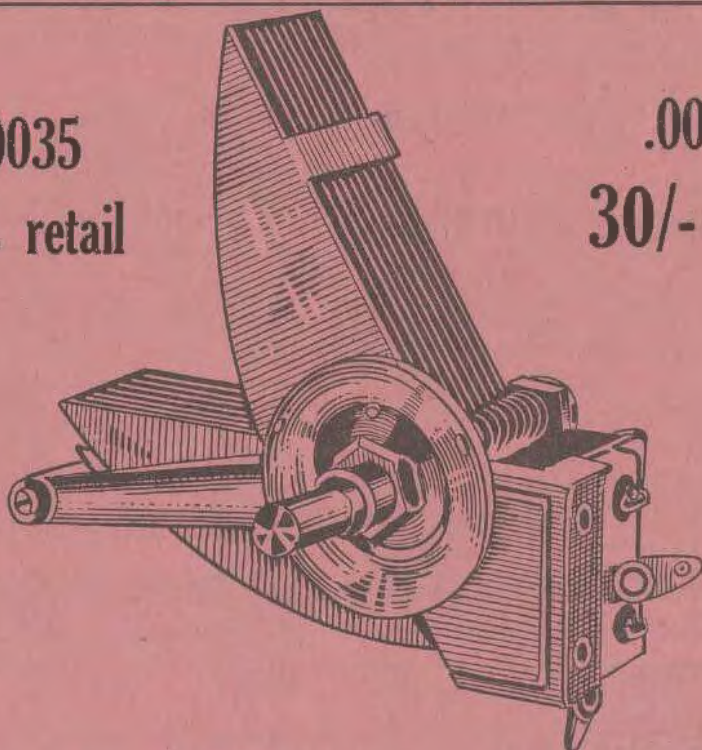
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The channel shaped framework is particularly rigid and in continuous electrical connection with the moving plates, preventing hand capacity effects.

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gives more light
than my Wuncells**

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Compare this with bright Valves, and even some Dull Emitters, and you'll readily understand that a white hot filament must naturally be subjected to considerable strains and stresses. It must expand, as it is

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**THE WUNCCELL
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Voltage, 1.8 volts.
Consumption, .8 amp.
W1 for Detector and
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W2 for H.F. Amplification, 12/6 each.

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All types available. Standard, American, or English Bases.

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the long life Dull Emitter
Cossor Wuncell

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WP30 volt	9/6	XP30 volt	16/-
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WP60 volt	18/-	XP60 volt	31/6

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A.W.A. Telephone Plugs and Jacks	1	6 "
Etc., etc.		

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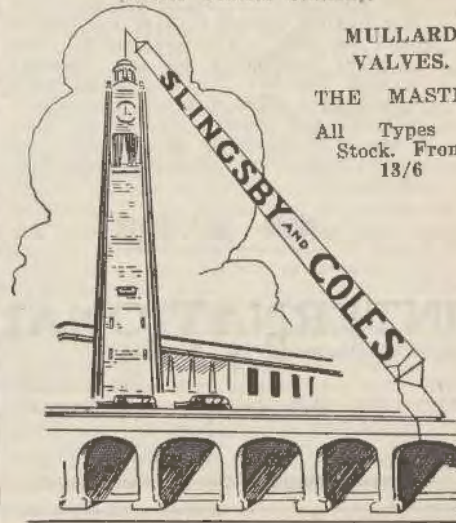
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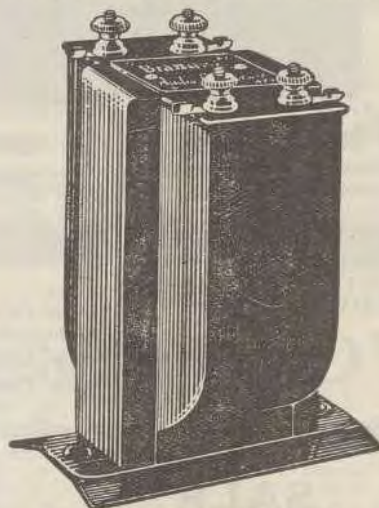
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The whole secret of Matched Tone is that one receiver refuses to have any quarrel with its twin. Ably schooled in these generous sentiments by our specially erected Matched Tone apparatus, their synchronised effort discovers greater sensitivity and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

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Ratios 3 to 1 and 5 to 1.

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

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CONTENTS

	Page
The Proper use of Condensers in a Broadcast Receiver	7
Queries Met by Every Beginner.	11
Sydney's New High Power Station	13
On the Air	17
Points from 3LO	29
Amongst the Traders	33
Broadcasting	37

A WORLD'S RECORD.

The British Broadcasting Company, with its marvellous chain of efficient broadcasting stations flung like a network across the British Isles, reaching practically every point from Lands End to the North of Scotland, maintains from the principal centres, a comprehensive service covering nine hours of the day.

In Sydney, one station, 2FC, is giving a service commencing at seven o'clock in the morning and terminating at twelve midnight, which, allowing for the customary silent periods between the different sessions, totals fourteen hours. Further to this, 2FC with its tremendous power, covers both day and night, a far greater territory than that embraced by the whole of the B.B.C. stations combined. In other words, from the point of view of distance covered and hours of service, it is beyond question that Sydney possesses the leading station of the world.

It is almost impossible to appreciate fully the magnitude of the task of preparing this colossal programme, not merely once a week, but practically every day. Some idea of the extent to which the listening-in public is catered for may be gathered from the fact that the cricket scores are broadcasted at seven a.m. In order to get this news to the listening-in public, a special cable service from London quite apart from the ordinary newspaper service, has had to be established by 2FC.

This feature alone, makes broadcasting worth

while to thousands removed from the city area and thus deprived of the morning newspaper. Add to this the fact that the more important contents of the newspaper, which the city dweller reads on his way to business, has already been flashed through the air to the outback listeners, and that during the day this is supplemented by further news items, market and stock reports, and it is easily seen that this particular section of the great track traversed by the day's programme has an enormous value.

Not only do listeners in this State get the benefit of this all-day service, but as far away as Central Queensland, South Australia and New Zealand, many listeners tune in regularly to the Sydney station. In how many thousands of homes in the two thousand mile radius that comprises the daylight scope of 2FC the morning news service is discussed at the breakfast table, it would be impossible to estimate, but it is quite easy to determine that in no other country in the world is there a service so far reaching.

As has been pointed out, however, this is but one stage in the day's march. The rest of the programme embodies items that provide for the needs of every section of the community—domestic hints, lectures, operatic music, Jazz, theatrical broadcasts. At practically any hour of the ordinary day there is something to educate or to entertain. While we have services such as this, we can point with pride to the high standard of Australian broadcasting.

Important Notice

TRANSFER OF BUSINESS

THE General Public are invited to inspect our new premises which are regarded as one of the World's finest Radio Stores

WE STOCK EVERYTHING
IN RADIO

The Australian Wireless Company

140 Castlereagh Street, Sydney

(Between Market and Park Streets)

PHONES — M 2037, M 2038

Manufacturers of the well-known "RADI AIR" Radio Sets

The Proper Use of Condensers in a Broadcast Receiver

Since the inauguration of our "Queries Met" Columns, we have received very many letters of thanks and appreciation. One of our recent queries dealt with bye-pass condensers in a general way, but did not explain just how each and every one increased the all-round efficiency of a receiver. As several readers have suggested that this would make interesting and instructive reading matter, we have very much pleasure in publishing this simple non-technical article which briefly but concisely explains their many different functions.

To say that small fixed condensers play a very important part in a radio receiver is only putting it very mildly. There may be one or two which are optional, but there are many which are very necessary for proper operation.

Fig. 1, shows the circuit diagram of a five-valve receiver employing two stages of H.F. amplification, detector and two audio frequency amplifiers, one transformer coupled and one resistance coupled. Each condenser is numbered in numerical order. We will now proceed to explain the individual duties which each one performs.

In the first place, it is necessary to explain that a condenser has the faculty of passing only alternating, or varying, currents, and will under no circumstances allow direct current to flow through it, providing, of course, that it is not defective. Another property of condensers which is made use of is the fact that a condenser of given value will pass currents of high frequency much easier than the lower frequencies. After carefully examining Fig. 1, read on:

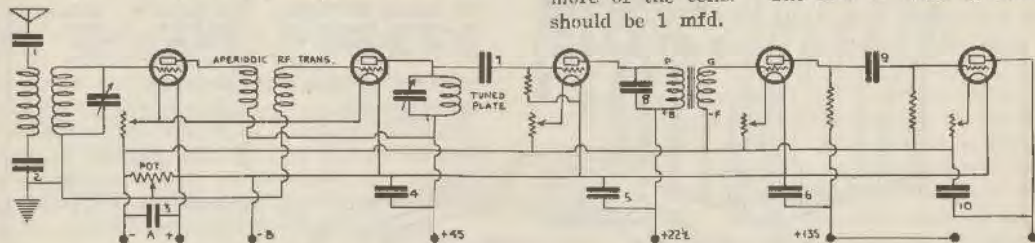
No. 1 condenser shows the usual series condenser in the aerial circuit. Many broadcast listeners are familiar with its use in this position, the effect of which is that of shortening the aerial without doing so physically. Large aeri-als are not usually selective, but by placing the series con-

denser as shown, increased selectivity is obtained without decreasing the pick-up property of the big aerial. The value of this condenser should be .0001.

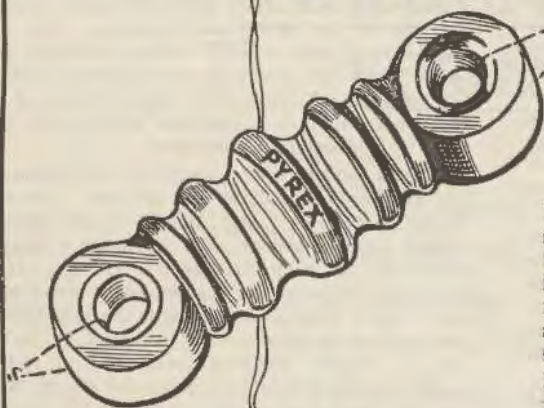
No. 2 is a fixed condenser placed in the ground circuit, and is made large enough so that there is no material resistance to the feeble radio frequency currents in the aerial-earth circuits. Its value should be at least 1 mfd. Where ordinary types of "A" and "B" batteries are used this condenser is not required, but with certain types of "B" eliminators, used in conjunction with certain hook-ups, it is absolutely necessary.

No. 3 condenser is connected directly across the "A" battery terminals of the receiver. Its value should be at least 1 mfd., but it may be increased to any amount desired as it is simply a bye-pass condenser, for radio frequency currents. If the battery leads are short, this condenser is not necessary, but if long leads are used, the selectivity of the receiver is considerably increased by its use. This is because the long leads tend to pick up energy and feed them into unwanted places. Where dry cell valves are used together with dry "A" batteries, No. 3 condenser is well worth while. Country readers who use portion of their lighting battery for operating the valves of their receiver will also be wise to incorporate this bye-pass condenser.

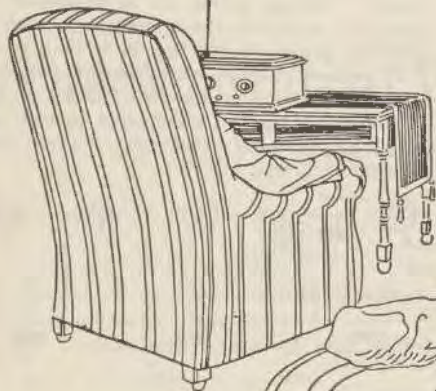
Condensers Nos. 4, 5, and 6 are also bye-pass condensers which prevent any radio frequency current entering the receiver through the "B" battery leads. Besides acting as an important bye-pass for R.F. currents, these condensers also perform another important function in tending to keep the "B" battery voltage more constant where the internal resistance of the "B" battery is high, due to either old age or a defective contact in one or more of the cells. The size of these condensers should be 1 mfd.



THE IMPORTANCE OF *PERFECT INSULATION* EMPHASISED



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PYREX INSULATORS have improved his radio reception a hundred fold. Now he gets every bit of energy that is on the air. Pyrex Insulators really insulate—they don't let energy leak away.

PYREX is the trade mark of a special composition possessing distinctive electrical characteristics. It is not an ordinary glass—it contains no lead. It is homogeneous and of a continuous uniform structure, and so does not depend for its insulating properties on the surface glaze.

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QUAM CONDENSERS—the world's lowest loss condensers use PYREX insulation throughout.

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Gr. Jervo's Quay & Harris St., Wellington, N.Z.	664 Bourke St., Melb.
	26 Queen St., Perth
27 Chesser St., Adelaide	
66 Charles St., Launceston	

The transmitting and receiving antennae of the McMillan Arctic Expedition are PYREX insulated. 34 Broadcasting Stations in the U.S.A. have recently replaced other insulators with PYREX. The U.S.A. Navy and Coast Guard Lighthouse and Air Mail Service specify and use genuine PYREX.

No. 7 is the grid condenser, and a whole "Wireless Weekly" could be written about its action. Sufficient is it to say that the grid condenser forms part of the secondary tuned (grid) circuit, and its capacity forms the required reactance of this circuit. The amplitude of the potential variations in the grid depend upon several factors, including the strength of the incoming signals and the grid filament current, but in general these voltage variations must not attain saturation limits on the characteristic curve of the receiving valve, or else distortion will occur. On the other hand, if the condenser is too large, the amplitude of the voltage variations in the grid is diminished, with the result of a reduction in volume. A .00025 mfd. is generally recommended, but those readers who are experimentally inclined will be surprised at the improved tone they will obtain by using a variable condenser with a .0005 maximum value for this duty.

No. 8 should have a capacity of from .0025 to .001 mfd., and is placed in this position to bypass any radio frequency currents around the high impedance of the primary of the first audio transformer. No hard and fast rule can be stated here as to the correct value to use, although a .001 mfd. is usually recommended.

No. 9 is the blocking condenser necessary with all resistance or choke coupled amplifiers. It keeps the high voltage direct current from the grid of the valve yet allows all variations of the current to act on the grid with little resistance. From this it will be seen that it carries out two duties, viz., a stopping condenser for one current and a good conductor for the other. Its value should be .1 mfd.

No. 10 is a very important one, which is often overlooked by the home constructor. It is a bypass condenser and the value is not critical, usually being about .05 mfd. It bypasses any radio frequency current which may have got over into the audio frequency side. It sometimes happens that a receiver will have a continuous high pitched whistle in the speaker which is very annoying. This whistle is often present at all positions of the dial whenever the valves are lit. This condenser will entirely eliminate this whistle, in almost every case, with no appreciable loss of volume. Nor is the tone of the receiver changed as is the case where a condenser is placed directly across the loud speaker terminals.

Let us now see what we have learned from the above article—which of the condensers are optional, etc.: No. 1 will depend upon the size of aerial we have in use, but is invariably an advantage.

No. 2 is not required unless we use "B" battery eliminators.

No. 3 is not necessary if the "A" battery is situated close to the receiver.

Condensers 4, 5, and 6 improve efficiency to a very marked degree, especially if the ordinary type of dry "B" batteries are used.

Nos. 7, 8, and 9 are also important and cannot be omitted.

No. 10 is also vitally important, as the quality of reproduction is invariably improved.

Reasonably cheap large capacity condensers are now available and those readers who are out to improve the all round efficiency of their receivers will be very wise to add these refinements.

THREE HUNDRED MILES ON A CRYSTAL SET.

Further evidence of long distance reception of 2FC Station is furnished by a letter received by Farmer's Broadcasting Studio from Mr. T. L. Newport, of "Pledgdon," Mt. Russell, N.S.W. This listener writes as follows:—

"With regard to your 2FC Station's transmissions of Saturday night, and for which you asked reports, I am pleased to send in my report. I received your entire programme excellently, using a single circuit crystal set. The set is used without amplifiers of any kind, and gives really good reception of your station using two pairs of headphones. All the items from the Town Hall came through perfectly, and the applause was very clearly heard. I am situated 16 miles west of the town of Inverell, the air line from that town to Sydney being 350 miles."

BOUQUETS FOR 2FC.

The broadcasting of Signorina Toti Dal Monte last Saturday, June 19, by Farmer and Co. Ltd. (Station 2FC), through the courtesy of Messrs. J. & N. Tait, was a signal success. On the following Monday morning the station received over a score of telegrams from Western Australia, South Australia, Victoria and Queensland, while quite a number of telegrams were received from within this State. The first mail on Monday afternoon brought in several hundreds of letters from the metropolitan area, while Tuesday morning's mail brought in a further batch of letters from the country. The afternoon's mail on Tuesday brought another large bundle from interstate centres.

The telegrams show that the transmission was very powerfully received at a distance of over 2000 miles away, and analysis of the letters so far discloses that the singing of this great artist was clearly received in every part of New South Wales and the adjoining States. All the communications so far received are uniformly complimentary of the excellent broadcasting of Signorina Toti Dal Monte.

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13/6

**UV-199
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Fl. Current	0.25 amps.		3.0 volts.
Detector Plate Voltage	20-45 volts.		0.06 amps.
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Grid Leak	2-9 megs.		46-90 volts.
Grid Condenser00025		2-9 megs.
Amplifier Constant	8		.00025
Plate Current in Millamps	40 volts .. 1.0	With	6.25
	60 volts .. 2.6	Zero	20 volts .. 0.25
	80 volts .. 4.8	Grid	40 volts .. 1.1
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Plate Current Consumption decreases with the use of a 4½ volt Grid Bias Battery,
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Queries Met by Every Beginner

Could I recharge my B Battery with a Clyde A Battery, or with a 12 volt Generator I have?

A. The process of recharging your high tension Philco battery with a 6-volt battery would take far too long, as you could only satisfactorily charge two cells at a time, viz., four volts. The charging rate for the Philco battery is 200 milliamps. This means that it would take you from twelve to fifteen hours to fully charge four volts.

The 12-volt generator would be a little better, however, as you could then charge five cells at a time, viz., 10 volts. Always remember that it is not possible to charge the whole of an accumulator at once when the voltage exceeds that of the voltage of the generator, unless they are split up into groups, whose voltage is slightly less than the voltage of the generator. They may then be charged satisfactorily. See explanatory drawing. Other country readers who have 32-volt lightning generators may split their three batteries in larger voltage groups, viz., 24-volt units. See Fig. 2.

The wattage of the lamp which controls the charging rate will depend upon the voltage of the generator and the number of cells to be charged at any one time. In case some readers may think this splitting-up process means breaking or cutting the links, we wish to definitely state that the battery connections must not be altered in the slightest degree. The connections to the battery, which are shown coming from their respective studs of the switch, are made with small clips. As soon as the density of No. 1 group shows that that portion is charged, the switch should be made to No. 2 stud, which then charges the second group, and so on, until the whole eight groups are fully charged.

Readers need have no fear of damaging their batteries if they carefully follow our drawing and charge at the correct charging rate.

It will be observed that all the leads from the switch studs go to positive terminals, and the common negative from the resistance. The milliammeter is also placed in series with the negative lead. We would like to add further that we are at all times anxious to do all we can to help country readers to overcome their problems, and we thank Mr. Elliot, of Oxley Island, Manning River, for sending this one along. It will undoubtedly be very helpful to other readers.

In the near future we will be publishing full

detailed diagrams showing how the "A" or "B" battery may be charged from the standard 32-volt country lighting plant.

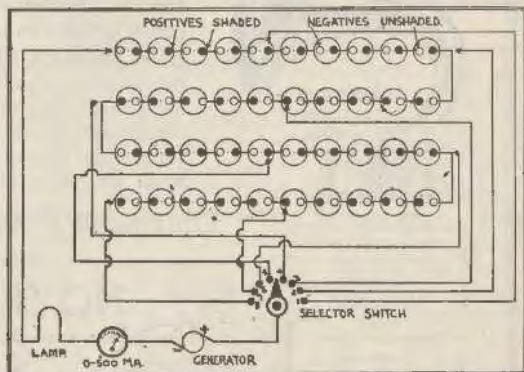
"Why do some circuits show the grid leak joined directly across the grid condenser and others go direct to the filament?"

A.: With radio, as in everything else, there is always the exception that proves the rule. There is no hard and fast rule that may be laid down as regards the correct connection of the grid leak, and now and again home constructors get into difficulties when building certain receivers through supposing that the commonly used connection for this device can be used in all cases.

There are two distinct methods for connection of the grid leak, as stated above. One is to connect the resistance directly across the condenser, while the alternate method is to connect the resistance from the grid of the detector valve directly to the positive side of the filament via the positive A connection. The former connection is used in most circuits, but for some hook-ups, such as the tuned anode, it cannot be used, and it becomes necessary to connect the resistance directly from the grid of the valve to the positive filament.

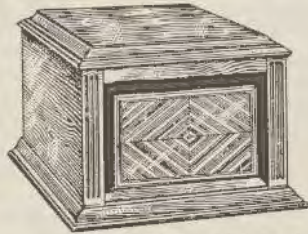
If the grid leak were placed directly across the condenser with the tuned plate receiver, the high plate voltage used on the H.F. amplifier would be impressed on the grid of the detector valve and would prevent this valve from operating.

When an H.F. amplifier valve is coupled to a detecting valve by other than inductive coupling arrangement (such as R.F. transformer) it is not generally possible to parallel the leak across the grid condenser.



Charging B. Accumulator from a Generator.

BRITISH **Brown** THROUGHOUT



Brown Cabinet Model.
2000 Ohms. £8/10/-



Brown HQ.
2000 Ohms.
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The Incomparable Brown in Seven Superb Models

Now that Broadcasting has awakened such an intense national interest, it is only natural to find that Loud Speakers, in common with many other commodities, Radio or otherwise, must be produced in a variety of types at prices that will be within the reach of all. It is for this reason, therefore, that there are now available seven superb models of **Brown** Loud Speakers.

Of all the Loud Speakers on the market to-day, the **Brown** is unique, because, by a brilliant application of an entirely original principle, it achieves results which can be obtained in no other speaker. **Brown** principles of design and construction can be found only in **Brown** Loud Speakers. The famous tuned reed mechanism, which permits the use of a supersensitive cone-shaped aluminium diaphragm as thin as paper, is responsible for a tonal purity and mellowness which must be heard to be fully appreciated.



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2000 Ohms.
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Perry House, Elizabeth St.
Agents for W.A.:
J. R. W. GARDAM,
136 Murray St., Perth.

A Katoomba reader's query: "I have constructed the Neutrodyne Receiver per instructions "Wireless Weekly," March 12th, 1926. I obtain excellent results from 3LO, 4QG, and 5CL, but 2BL is not even good phone strength, yet with the 'All Australian' Receiver he was excellent. Can you please advise me?"

A.: We cannot quite understand why you should get 3LO and 5CL and yet not be able to receive 2BL satisfactorily. Is the aerial in the same position as it was when you got such good results with the "All Australian" Receiver? If not, this may account for the difference in results from the Sydney Stations.

Very many strange effects are reported from the Mountain districts. For instance, some two

years ago our engineer was staying at Glenbrook, where he had no difficulty in operating a loud speaker from some of the New Zealand broadcast stations, yet 2BL was somewhat difficult.

When you are a little more familiar with the tuning of the Neutrodyne you will undoubtedly do better, but if you should still continue to get weak signals from Sydney stations we would advise changing the direction of the aerial. You might also try a counterpoise in lieu of the usual earth connection.

We shall be pleased to receive further reports from readers situated in the mountain districts, with the object of recording true and accurate data concerning any strange phenomenon they have experienced with their receivers.

Sydney's New High-Power Station

2BL ADVANCES

An addition to the already formidable list of Australia's high power broadcasting stations will be made shortly, when the new station of 2BL will be officially opened. For months, it has been known that preparations were in hand for providing increased power. The new arrangements effected by Broadcasters (Sydney) Ltd., should result in a greatly improved service to New South Wales listeners.

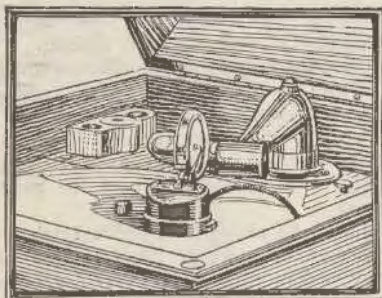
Station 2BL was the first commercial station to broadcast in Australia, although not the possessor of the first license. Starting towards the end of 1923, with a power of 500 watts, sufficient progress has been made by Broadcasters (Sydney) Ltd., to justify the complete rebuilding of the transmitting plant to operate on a nominal input of 5,000 watts. Actually, however, this amount of power will be greatly exceeded, and it is claimed that 2BL will rank easily as the highest powered station south of the Equator.

At one time this station had the distinction of operating for a greater number of hours per day than any other station in the world, and a similar schedule is being reverted to. From now on, the day's transmission will begin at 7.25 a.m. and carry on practically up till midnight. The early morning session will run until 8 a.m. and will be devoted exclusively to news. Indeed the provision of a news service unapproachable to its value and utility is a feature that Broadcasters (Sydney) Limited specially aims at. From 10 a.m. until 2 p.m., transmission will be continuous and will

feature talks to the community of women, information re mails, shipping, weather, social functions and a host of other matters. At the luncheon hours, from 1 p.m. to 2 p.m., an orchestra will be broadcast. The afternoon session will extend from 3 p.m. to 5.30 p.m. and will cover music, entertainment and lectures. Bedtime stories each evening will be from 6 p.m. till 6.45 p.m., and will be followed by half an hour's dinner music. At 7.15 p.m. a special country session will supply cattle, grain, fruit and vegetable information to the worker on the land. The increased power will mean that even at this relatively early hour transmission throughout the state will be clearly audible.

The evening session, devoted chiefly to music and entertainment, will start at 8 p.m. and terminate at midnight.

Numerous new features are under consideration and will be introduced as time goes on. The whole policy of the company is to provide in the fullest sense for every division of the community, so that every interest is catered for. It is anticipated that the developments so outlined will increase enormously the value of radio to the community and create a new interest in broadcasting. Broadcasters (Sydney) Limited, have been responsible for many innovations in the past and the present plans as projected suggest that these will be surpassed in every way. The Company has passed through many vicissitudes but has never waned in public favour. Starting on the roof of a building in Phillip Street in a temporary building, the studios



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THE WONDERFUL TONE AND
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SOLVE YOUR LOUD SPEAKER
WORRY AND EXPENSE BY
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LOUD SPEAKER PER MEDIUM
OF THIS WONDERFUL
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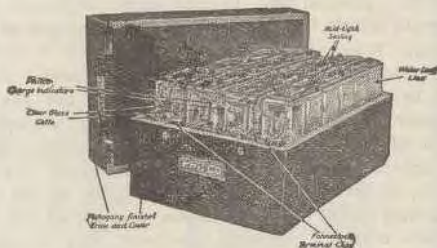
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THE NEW 83X.

(Specially designed for Super-Hets or Sets
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248DXO, 48 volt, 3000 M.A.H.	26	4	0
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83X, replaces 90 v. Dry Battery, 3000 M.A.H.	28	15	0
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New System Telephones Pty. Ltd.

280 CASTLEREAGH STREET,
Also MELBOURNE & ADELAIDE.

of the Company are now palatially housed in the A.M.L. & F. Coy.'s Building in Bligh Street, with the transmitting plant at Coogee. Every move has been evidence of expansion and growth and the ideal aimed constantly was to provide a utility that would become indispensable. Since its association with "The Sun," 2BL's news service has been of particular value, to the country dweller, especially.

Radio is now so much an integral feature of life that it would be difficult to think of a community in which it was not to be found. The possibilities in regard to further development are beyond calculation and it is only a matter of time when broadcasting will rank with the greatest of the public utilities. In bringing this about, Broadcasters (Sydney) Limited will have played no small part as far as this State is concerned.

FIJIANS SING TO 3LO.

"Oft times when dance music is being broadcasted we have a dance at our house," writes Mr. L. Noerr, of Suva, a subscriber to "Wireless Weekly." "Just recently I took the set with me to one of the outlying Islands and with a single wire hoisted among the coconut trees we had remarkable results. The Pacific Coast stations of America came in as loud as 2BL and the expressions of amazement on the faces of the Fijians was worth everything. The most realistic part of the whole affair was when I tuned in 3LO on the Sunday night. They were broadcasting the Anzac Memorial Service, and as many of the anthems sung were familiar to the Fijians, it was wonderful to hear the voices of the church choir singing in English and the natives taking up the tune in their own tongue. It would fill a book to give you all the strange little episodes here in connection with wireless."

Mr. Noerr uses the "Sure Fire Circuit," described in "Wireless Weekly," July 31st, 1925, and has met with remarkable success. 2FC, 2BL, 4QG, 3AR, 3LO, 7ZL, 5CL, and 6WF are received at loud speaker strength on three valves. Friends living over 200 yards down the road often sit on their verandah listening-in and the next morning report the whole programme. Best results have been had from KGO, KFI, WGN, Chicago, and WJAR, Providence, Rhode Island, 7500 miles away.

FOR SALE—3-Valve Set complete, Loud Speaker, Phones, Batteries, UV.201A Valves, Best Parts; £17. 178 Homebush Rd., South Strathfield.

WANTED.—All kinds Secondhand Wireless Sets, Parts, Speakers, etc. Best prices given. JACK RAPKEN, 16 George Street West. MA 1198.

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No. 175	-	3/3
No. 200	-	3/6
No. 250	-	3/9
No. 300	-	4/0



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FINSTON FILAMENT RESISTANCES
ON BAKELITE MOULDING

7 ohms., 2/3; 15 ohms., 2/6; 30 ohms., 2/8

All British. Manufactured by

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Apply for Liberal Export Trade Terms

Cables: Wyrflinston Sowest. Code: Western Union.

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They NEVER Vary!

Not so much the gloriously pure tone or their astonishing range nor the valve power volume, but it is by their day-in and day-out consistency—the absolute certainty of getting perfect and uninterrupted programmes—that these super crystals have made a new pleasure in Radio. They NEVER vary!

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GENUINE
Russell's
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PURPLE LABEL

Price 1/6 per box.

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The L. G. Russell Laboratories, 1-7 Hill Street, BIRMINGHAM.

AGENTS:—Messrs. MOREY'S PROPRIETARY LTD.,
98 QUEEN STREET, MELBOURNE.

Clarity - Volume - Efficiency

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WONDERFUL LITTLE

MANHATTAN JUNIOR ADJUSTABLE LOUD SPEAKER

Not merely a headphone attached to a horn, but a specially designed Speaker with large diaphragm, which ensures you the same faithful reproduction and purity of tone without distortion in Speech, Song, or Music.



The "Manhattan Junior," should meet the demand of the man of modest requirements, for there is no finer Loud Speaker at the price on the market
(Postage: Anywhere in Australia, 2/6)

5 VALVE NEUTRODYNE KITS, Panel Drilled, complete with everything ready to build, 250 to 2,000 metres

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45 Volts

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BAKELITE PANELS. Cut to any desired size. 3/16 inch, ¾d. per square inch

ALL WIRELESS SETS CAN BE PURCHASED FOR CASH OR TERMS.

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£11

13/-

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Money on
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Equipment
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Anthony
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"The World's Greatest Sports Store"

Headquarters: HAYMARKET, SYDNEY

ON THE AIR

ENMORE TABERNACLE.

On Sunday, July 4th, Station 2BL will broadcast a service from the Enmore Tabernacle. In the afternoon Mr. W. "Cairo" Bradley will conduct his Bible class, and at 4 p.m. an organ recital will be broadcast. The evening service is being transmitted from the Palmer Street Presbyterian Church, and the preacher on this occasion will be the Rev. A. Hay Holden. Following this will be a concert broadcast from Fuller's Theatre and organised by the Newtown Band.

AMBASSADORS' BAND.

On Monday, July 5th, there will be the regular session at 10.55 a.m. for cricket information, and during the afternoon session, which commences at 3 o'clock, Mr. J. M. Prentice will continue his talks on "A Course in Philosophic Thought." During the evening session the Orphans' Wail from the Warringah Hall, Neutral Bay, will be broadcast at 8 o'clock, and from 9 to 9.30 the Ambassadors' Dance Band will be broadcast from the Ambassadors', together with social notes and a description of frocks by Mrs.

Potts. At 9.30 the programme will resume from the Warringah Hall, and from 11 p.m. until midnight the Ambassadors will be broadcast.

SYDNEY'S DISTINGUISHED TENOR.

On Tuesday, July 6th, the usual morning and afternoon sessions, when entertainment is provided from the Studio, and at 8 p.m. 2BL will broadcast Hoyt's Imperial Orchestra, under direction of Mr. L. Hart. The artists for a particularly pleasing programme will be Mr. Robert Harper, Sydney's brilliant tenor; Miss Helena Stewart, who is one of the most distinguished sopranos singing from 2BL; and Mr. Norman Janson, the well-known baritone. Mr. Ward L. Havard will lecture on "Australian Scenic Treasures—Caves and Caverns," and Mr. C. F. Laceron will speak on "The Art of the Bronzemaker."

MALE CHOIR.

Wednesday, July 7th, will see Station 2BL on the air with the mid-morning session and the afternoon session, which includes an operatic talk illustrated by gramophone records, together with Hillier's Orchestra, under the direction of Miss Caryl Castling.



Famous California's Orchestra, broadcast every evening from 2KY by permission of J. C. Bendrodt Ltd. The leader (Mr. Beeban) is the happy-faced artist with the saxophone. Numerous interstate reports are being received of reception of this orchestra through 2KY, including trunk line calls from Melbourne for request numbers.

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

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RADIO DEALERS will find it to their advantage to link up with the "HARRINGTONS" ORGANISATION and see us the printing of their catalogues, leaflets and circulars at greatly reduced rates. Remember you are dealing with a House of 37 years' trading reputation.

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Aerovox Resisto-formers for Resistance coupling—single stage 15/-
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STRAIGHT-LINE-FREQUENCY CONDENSERS.

Wonderful Value! ——— Quality Products.
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Wellington, N.Z. 42 Willis St.
Auckland, N.Z. 140 Queen St.

At 6 p.m. the Pavilion Dinner Orchestra, under the direction of Mr. Cee Morrison, will be broadcast. At 8 p.m. the Sydney Orpheus Society, whose magnificent Male Choir is winning golden opinions amongst the listeners-in, will be broadcast, while the City of Sydney Band will also be heard. Mr. Frank D. Marshall will be the lecturer, dealing with the third of his series of talks on "Radio Therapy and the Treatment of Cancer," and Mr. J. M. Prentice will deal with Foreign Affairs, dealing with written questions.



Miss Ahad, of the Ahad Duo, experts in Hawaiian music and popular favourites from 2BL.

"THE ART OF ACCOMPANYING."

On Thursday, July 8th, Station 2BL will broadcast Miss Molly Raynor, comedienne of outstanding ability, and Mr. Richard McClelland. Miss Leonore Gotsch will also be heard in items from her repertoire, the Waikiki Troubadours will provide strains of Hawaiian music, and Mr. Leslie McCallum, baritone, will sing. Mr. Algernon H. Lindo will commence the first of a series of lectures on "The Art of Accompanying." As Mr. Lindo has accompanied many of the most famous artists in all parts of the world, his remarks will be listened to with intense interest, and as he possesses a particularly marked vein of humour it is anticipated that the listeners-in will be entertained as well as instructed. On the same programme Miss Mary Edwards, who is an artist of great distinction in oils and water-colours, will commence a series of travelogue talks, the first of which will be entitled "The South Sea Isle." Mr. J. C. Morrell, the Deputy Commissioner of the War Service Homes Commission, will also speak on "War Service Homes."

RACING FORM AND TIPS.

On Friday, July 9th, 2BL will present its morning session, and during the afternoon session Mr. J. M. Prentice will speak on "Modern English Poetry." During the evening session Mr. Clem Williams, a favourite baritone, will be heard in songs from his repertoire; the Ahad Duo will present numbers on their steel guitars; and Mr. Stanley Catlett, the distinguished tenor, will present items in English and Italian. Miss Hilda Lane, who is a favourite contralto, will also be heard in items, and the travelogue talk will deal with "Sights and Scenes in Egypt." The senior sporting expert of the "Sun" will also advise the sporting members of the community in regard to racing form and tips, and will deal with the prospects of racing on the Saturday.

SPORTING ITEMS.

On Saturday, July 10th, the day sessions will be devoted by 2BL almost entirely to the presentation of sporting items and information. During the evening programme, Mr. Lance Jeffree, who has been honoured by being chosen as the tenor to sing the part of Rhadames in the forthcoming Philharmonic Society's production of "Aida," will be heard, and Mr. and Mrs. Sid Owen also present a series of solos and instrumental selections, using guitars. Mr. Russell Phillips also figures on the programme, and there will be a Forestry Talk by Mr. D. G. Stead, entitled "Timber Trees and their Uses."



Jack Wright, novelty pianist and brilliant exponent of jazz music from 2BL.



Happiness and Contentment

A perfect night's entertainment brings its own peace and happiness.

PHILIPS VALVES, which give perfect reception, bring a nightly entertainment into your home via Wireless. Purity of tone, and wonderful volume, combined with the undoubted economy in current consumption of these valves, make them the ultimate choice of the discerning buyer. There is a *type for every purpose*, but for Loud Speaker reception, the B406, the New Wonder Valve, is unexcelled. The main characteristics are as follows:

Filament Voltage, 3.4-4.0 volts. Filament Current, 0.1 amp.
Saturation Current, 30 m.a. Plate Voltage, 20-120 volts.

Let your next Valve be a PHILIPS.

Price 13/6

Obtainable with either Standard English or American Caps, also the New U.X. Cap. Sold by all Radio Dealers.

Makers of the Famous Philips Lamps.

Specify

PHILIPS

2FC FEATURES.

On Friday evening, the 2nd July, Mr. Walter Kingsley, the well-known English baritone, will make his first appearance from 2FC. The vocal programme will be strengthened by items from Dorothy Ewbank, soprano, and by Mr. Bryson, tenor. On Saturday July 3rd, Australia's foremost tenor, Alfred O'Shea, will be heard on the air. He is singing at the Chapell Ballad concerts at the Conservatorium. On Sunday, the 4th of July, the afternoon programme will be devoted to a concert to be given by the Blind Musicians of the Blind

King, basso, who, by the way, leaves for America at the end of July. From the Palace Theatre, an act of the Comedy play "Sunday," will be transmitted. Band Concert by the Metropolitan Band.

On Wednesday, the 7th, the reception to the All Blacks Football Team at the Town Hall will be broadcast. A very interesting programme has been arranged. The night of Thursday, the 8th of July, will be devoted to lovers of classical music. It will include a programme by the Sydney Madrigal Society, instrumental items by the Sydney Trio, and an orchestral programme from the Lyceum Theatre. Comedy relief will be given by Ad Cree, the well-known Scotch comedian.



Miss Helena Stewart, beautiful dramatic soprano from 2BL. Miss Stewart took the part of Marguerite in "Faust" for the Sydney Philharmonic, also at the Dunedin Exhibition and at other places in New Zealand.

Institute, arranged by Mr. Hedger, the manager. It is interesting to note that the street singer, Daniel Mansfield, has been offered six months' tuition in the Blind Institute to enable him, if he desires to learn Braille Music. This interesting personality has been given a further chance of enlisting public approval by his appearance at the Tivoli Theatre on Monday, July 5th.

Monday, July the 5th, will be devoted to the usual transmission from the Haymarket Theatre, and plays by Walter Hunt will be given from the Studio. Vocal items on that evening will be rendered by Ernest Archer, tenor, and Russell Rix, baritone. On Tuesday evening, the 6th, the well-known Sydney soprano, Madame Vera Tasma, will sing at the Studio in association with Mr. Oliver

ANOTHER "ROSE MARIE" BROADCAST.

On Friday, the 9th of July, in response to requests by very many listeners, Messrs. J. C. Williamson Ltd., have given permission to 2FC to transmit an act of this sparkling musical comedy. It is considered to be one of the finest musical transmissions ever put across by 2FC, the music being particularly adapted for broadcasting. The leading comedian, Fred Bentley, will be interviewed in his dressing-room by Miss Goodie Reeves, who has returned to 2FC after a long illness.

NEWCASTLE STATION CARRIES WELL.

Good reports from distant points are being received by station 2HD ("B" class), owned and operated by H. A. Douglas, Newcastle. Loud speaker strength is reported from Colac, Castlemain (Vic.), Armidale, Casino, and as far away as Greymouth, N.Z. Without exception, every letter quoted perfect modulation.

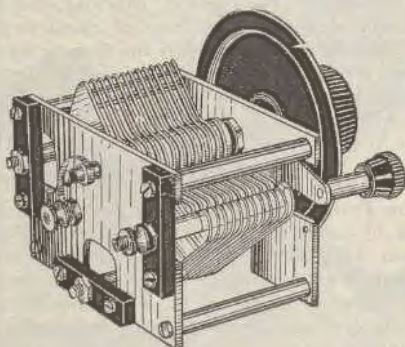
OBITUARY.

With the deepest regret we record the death of Mr. A. E. Graham, Head of the House of Graham, the old established British concern which manufactures the famous Amplion Loud Speakers. Mr. Graham was an outstanding figure in British commercial circles, possessing technical genius of a very high order combined with the business ability which has enabled him to build up the largest production of loud speakers of any individual organisation in the world.

According to a cable received by Mr. William Blogg, managing director of Amplion (A'sia) Ltd., Mr. Graham passed away after an operation on June 15th. His death will leave a very big gap in the British Wireless Industry where he has long been recognised as a leading authority on loud speaking telephones and wireless loud speakers.

During his business career he gathered around him many eminent engineers and commercial men, who will carry on the business along the same lines.

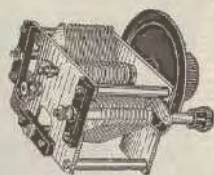
Certified Low Loss



In answer to many enquiries for CERTIFIED LOW LOSS CONDENSERS, we beg to advise that stocks have now arrived.

CERTIFIED LOW LOSS CONDENSERS.

Size .0003	12/-
Size .0005	12/-
Size .001	15/9



VARIABLE CONDENSERS.

With Brown Bakelite Ends.

.0005	8/6
.001	10/9

MIDGET LOW LOSS CONDENSERS.

For use in Balancing, Neutralising, or Tuning.
5 Plates 3/-

SPECIAL PURCHASE. 250 Ebonite Panels. Size, 12 x 9 x 3/16. Trimmed square. Suitable for the "Wireless Weekly" Reflex and other similar sets. Price, each .. 2/6

ACCUMULATOR "B" BATTERIES.

"Exide." Special Plates	20 Volts.. . . .	£1 10 0
Glass Containers	40 Volts.. . . .	3 0 0
	60 Volts.. . . .	4 10 0
Wooden Crate. 2500 M/A hours	80 Volts.. . . .	6 0 0

Exide "A" Battery Accumulators. Type DTG. Capacity 20AH.

Type DFG. 2 Volts	£0 16 0	2 Volts.. . . .	£0 8 6
4 Volts	1 12 0	4 Volts.. . . .	0 17 0
Capacity 45 AH. 6 Volts	2 8 0	6 Volts.. . . .	1 5 6

"D" Battery Eliminators:—"Phillips" High Tension from the power point. No hum. Arriving shortly. Order yours now. Price, £9/15/-

Every Friday evening, at our Sydney Store, see Mr. W. L. HAMILTON, who will solve your problems Free.

"Yours for Lower Prices."

The ECONOMIC RADIO STORES

28 Royal Arcade
(3 doors from Pitt Street, left side)

569 Hunter St. West

SYDNEY

NEWCASTLE

Phone M 3049

Phone, Newcastle 1622



"SOCKET POWERS."

RUN YOUR RADIO FROM YOUR HOUSE
CURRENT.

EASY AS TURNING ON AN ELECTRIC LIGHT.

Thousands of Radio owners have been asking, "Why can't we use our house current for Radio power? Why can't we operate our Radios as easily as we operate our electric lights?"

Now, they can!

If all New System Telephones Pty. Ltd. claim for the new Philco Socket Powers is correct.

Philco Socket Power "B" eliminates both Dry and Storage "B" batteries. It will efficiently operate any set having from 1 to 9 valves.

There is no hum—no distortion—no falling off in reception as with ageing Dry batteries.

SUPER "B" BATTERIES.

It is said Philco types X, DX, DXG and DHO are the aristocrats of the "B" battery field. Due to square cells, these batteries take up less space. Their mahogany finish cases and tightly sealed construction make them ideal for the living-room. Extra solution capacity makes filling with water necessary only once a season. Visible built-in charge indicators tell at a glance when battery needs charging.

THE NEW 83.X.

With the introduction of the two new types of Philco glass jar "B" batteries 83.X (3000 M.A.H.) and 86.H (6000 M.A.H.) there is no reason why Radio users should put up with the annoyances and expense of replacing Dry "B" batteries. The life of either the 83.X or 86.H is many times greater than the life of the very best Dry battery ever built, and whereas reception steadily falls off as Dry batteries age, reception with Philco Storage batteries is easily maintained at its maximum at all times. The average voltage is 5 to 10 per cent. higher than Dry batteries.

Quality and volume of reception at their best at all times. Cost of operation less than 1d. a day.

DRYDYNAMIC.

Good reception is sure with both Philco "A" and "B" batteries or Socket Powers. Furthermore, you avoid getting a stale battery by demanding a Philco Drydynamic, a battery shipped dry without acid, but charged. Since its life doesn't start until after the dealer pours in the acid, you are sure to get full battery life.*

WIRELESS BARGAINS

Never have there been such drastic reductions in Radio goods before. Consider these values immediately. Also note the we are offering a Standard £55 five Valve set for £35 less the discount.

Radio Department 22 York Street

Peto and Radford Accumulator, P.D., 11R., 60 amp., actual extra heavy service battery.

Usually £7/2/6
Sale Price £5/7/7

"Walnut" Variable condenser, "K and C," also
"Master" 43 plate. Usually 21/-
Sale Price 15/-

Detector Units. Usually, 32/6. Sale, 7/6

Extension Handles. Usually 1/6
Sale Price 6d.

Jacks, Frost. Usually, 5/6. Sale Price, 2/3

Slider Bars. Usually, 2/3. Sale Price, 1/-

S.P.D.T. Switches. Usually 2/6
Sale Price 1/-

D.P.D.T. Switches. Usually 4/-
Sale Price 1/6

Ivory Scales. Usually 8d.
Sale Price 1d.

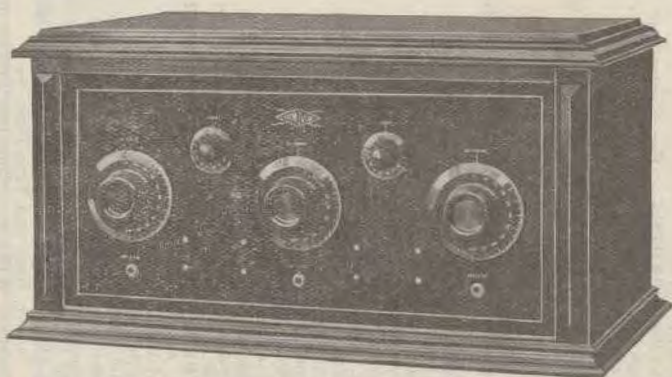
*Phones (French). Usually 13/-
Sale Price 10/6

All Less 2/- in the £ for Cash.

DAVID JONES' SALE

Colmovox Super Five Models

1926



Price, £52 10s.

FULFILS YOUR UTMOST DESIRE IN BEAUTY AND PERFORMANCE.

The 1926 SUPER COLMOVOX is beautiful to look at — lends an atmosphere of dignity and worth to Library or Drawing Room.

Naturally you expect unusual performance from so beautiful a Radio Set and unusual performance is exactly what you get.

Tuning, for example, is controlled by three dials only—so perfectly adjusted that each station comes in always at the same dial settings.

It never varies. Powerful locals may be on full blast, yet you can tune them out completely and bring in distant stations. Tone reproduction is always clear and true, the volume always adequate.

Non regenerative and extremely silent in operation, this Receiver comprises two stages of tuned Radio Frequency Amplification, Detector and Two stages of Distortionless Audio Amplification. Before you choose the receiving set to occupy the place of honour in your home, be sure to see and try the COLMOVOX. Its beauty you will recognise at a glance. Its extraordinary capabilities we will be always glad to demonstrate.

ALL THE ABOVE AND 250,000 OTHER PARTS
OBTAINABLE FROM

COLVILLE MOORE WIRELESS SUPPLIES LIMITED

— 10 ROWE Street (near Hotel Australia) SYDNEY —

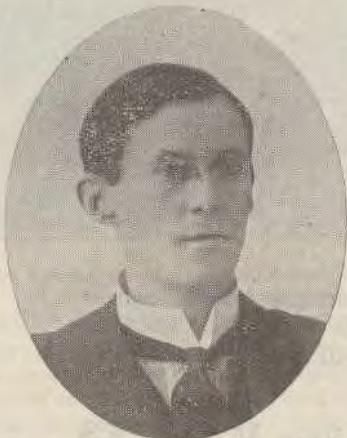
2KY ITEMS.

Mr. C. G. C. Christie, LL.B., is broadcasting from 2KY, a most interesting series of lectures covering the following subjects: Australia's First Church, Theatre, Post Office, Racecourse, Newspaper, School of Arts, Mail Boat, etc. This series commenced on June 21st, and is now running.

There has been an interruption to the broadcasting of the Standard time at 1 p.m. each day for benefit of ships at sea, owing to certain adjustments necessary in the station plant. Until these are fixed, the times will be broadcast whenever possible.

A radio research laboratory is being established under the supervision of 2KY's Engineer, Mr. H. P. J. Sinclair.

On Monday each week, Mr. Beard (technical designer of 2KY) answers radio questions over the air by means of talking back on the telephone.



C. G. C. Christie, LL.B. (Syd.), Editor and Director 2KY Broadcasting Station. Mr. Christie has dabbled in a variety of things, such as banking, accountancy, journalism, sociology, athletics, the Labour movement, and advertising.

Summed up in his own words, "Psychology is his hobby, Law his profession, and 2KY his wife."

Every scrap of his past experience is required in his job of directing 2KY.

This is a very popular item. Watch the published programme of the Station and ring City 546 at the appropriate time. Last Monday listeners-in were ringing up for an hour and a half before the specified time, trying to book early door seats, so to speak.

Much public interest has been aroused by the thumb nail sketches of leading Labour men by C. G. C. Christie and also by the Station's evening Editorial on topical subjects.

2KY will specially broadcast not only the music at the Movie Ball on the 29th June, but a well known artist will broadcast a description of the wonderful costumes as they parade at the Palais Royal. This is by kind permission of J. C. Bendrodt Ltd.

Every Friday, evening the Station broadcasts its own Theatrical Critique.

2KY'S VERSATILE DIRECTOR.

C. G. C. Christie, who directs the destinies of that popular station, 2KY, although only 34 years of age, has had a wonderfully varied career. For two years he was in the business of banking, under Sir John R. French, of the Bank of New South Wales. After a spell of accountancy he studied at the University of Sydney from 1911 to 1920, taking such subjects as Arts, Philosophy, Science and Law, and graduated as LL.B. in 1920. In the same year he was admitted as a solicitor. He spent 8 years with the law firm of Stephen, Jacques and Stephen and until recently was a partner in the firm of J. W. Maund & Christie, working exclusively on Company Commercial Law and Finance. He was prominent in the Manchester Unity Society and conducted extensive educational lectures. Sociology interested him intensely and he spent two years in slum research work in Sydney and had practical experience in numerous factories and primary and secondary industries. Becoming identified with the Labour movement, Mr. Christie, has held executive office in Labour Leagues.

2KY AN AERIAL NEWSPAPER.

The Director's aim, to make 2KY an aerial newspaper is steadily progressing. The daily Editorial on various topical subjects is creating great interest. A new feature is being added each week and the Station is now featuring An Editorial, Theatre Critiques, N.R.M.A. Radiograms, and news is specially catered for, in regard to which any extraordinary news is broadcast immediately it comes to the ears of the Station. For instance, 2KY was the first to give the public intimation of the gas restrictions, when the information was on the air within a few minutes of the decision by the Gas Emergency Board.

CHOIR OF 100 VOICES FROM 2KY.

On Saturday evening, 3rd July, the Station will broadcast the renowned Labour Choir of 100 voices, from King's Hall. Mr. Green is the conductor. This choir is a very evenly balanced one, and is gathered from the ranks of unionists. It should prove a very attractive item.

PHILCO—"You never need guess"—BATTERIES

The REAL Pure tone Valve



**GIVES EVERY
NOTE IT'S
TRUE VALUE**

DESIGNED 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

(Arks B2)

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.

POINTS FROM 3LO. PICKING PERFECTION.

It is certain that not an idle set of headphones or a silent loud speaker could have been found in Victoria during the week ending June 19th. Every listener-in, in the state, and thousands in other parts of Australia are sure to be tuning-in to the "perfect" programmes arranged in connection with the 3LO and "Sun Pictorial" competition. It is not so much a matter of entertainment, for in this case the public have to be the judge and on their opinion it is decided which of the six programmes selected by the



Mr. Harold Elvins, whose pianoforte recitals have been a feature of 3LO, Melbourne.

preliminary judges is worthy of the prize of £50.

Right from the first programme on Monday night the telephones at 3LO Melbourne set up a continuous tinkle with the messages of radio fans who wished to express their enthusiastic opinion regarding the entertainment, and the busy staff is certain to be somewhat thankful when affairs get back to normal.

It has been a busy time for Mr. Lewis and his assistant programme arrangers at 3LO Melbourne. The best possible artists have been secured for each of the selected programmes, but in some instances great trouble had to be gone to in order that an unusual item included by a competitor might be done. Take a xylophone solo, for instance. In one programme, "Light Cavalry," by Suppe, was the item mentioned for a xylophonist, but it is not every one who can play that rather difficult and energetic piece, and as a xylophone artist would be wanted only for that one item there were not many for Mr. Lewis to choose from. The same difficulties were encountered in vocal and instrumental items in each of the six programmes. However, finally all the intentions of the competitors were perfectly complied with, and

there is no doubt that all the best talent that has ever appeared for 3LO, Melbourne, is assembled for the perfect programmes.

"Another exploit of 3LO, Melbourne, is the invasion of New South Wales, broadcasting therefrom plays that ordinarily would not have been heard for months in Victoria. Of course, we have heard local stations do the same thing, but that is very different from the broadcasting by a State station of an event occurring in another State. Such successful work opens out illimitable areas of possibilities.

In the near future, people will be able, by means of headphones or loud speaker to accompany expeditions, to follow historical events, to keep abreast of popular movements, to feel, as it were, the pulse of the world on the outskirts of where they live, with no more trouble than is involved in reading a newspaper. When that is a commonplace, they will still be looking forward, for the horizon of



Recently some very great artists have been broadcasting for 3LO, Melbourne, and amongst them Percy Grainger, the noted pianist, composer, and conductor, who is giving a series of concerts throughout Australia under J. and N. Tait management. His talk concerned the English-speaking composers, and their characteristics proved of great interest to all music-lovers.

Mr. Grainger is a Victorian and was born at Brighton. His mother was a brilliant musician, and his father an architect, who, by the way, was responsible for the building of Prince's Bridge. At the early age of 12, Grainger showed himself such a supreme musical genius that he was sent to Germany as a student, and for six years studied at Frankfurt-on-the-Main at the Hoch Conservatoire, then one of the finest musical education institutions in Europe.

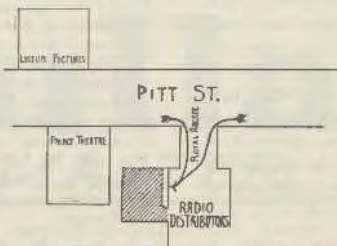
RADIO DISTRIBUTORS

PRICES CUT IN HALVES

201A type Valves	8/9
200 ohm Potentiometer, bakelite, complete with dial	6/-
35 ohm Rheostat, bakelite, complete with dial.	5/6
Bakelite Shock Absorber Sockets	3/3
Jacks, Single Circuit	2/3
Jacks, Double Circuit	2/6
Condensers, low loss .0005	17/10
Condensers, low loss vernier	23/6
Condensers, plain type	9/6
Filco Arresters	6/8

Filco Resistors, 5,000-25,000 ohms	10/6
Acme Low Loss Condensers	39/6
Acme Audio Transformers	29/9
Acme Radio Frequency	29/9
Acme Pot Rheos.	17/9
Fleron lead-in Insulators	5/6
Fleron Porcelain	3/-
HILCO Fixed Condensers, from	2/3
Loose Coupler Crystal Sets	25/-
Crystals from	6d.
Insulators from	1d.

The First Shop
in Royal Arcade
from Pitt Street
entrance



29 Royal Arcade,
SYDNEY.

All Country Orders
Postage Free.

knowledge is ever shifting, seeking to penetrate the mists of the future. What would our fathers have thought, had they ever known that for us can be heard the voices of men deep in the earth, aloft in the sky, under the waters of the sea? It would have seemed a tale too wild for credence, and yet all these things, and many more not yet conceived are being made commonplace for us by such stations as 3LO, Melbourne. It realises that entertainment is not the whole duty of a broadcasting medium—that its province is all knowledge where experiment is possible to blaze the trail."

3LO AND THE PROGRAMMES.

"Billy Tea" sums up the recent 3LO programme competition in this fashion:—

If we consider what sort of programme should appeal to the mass of listeners-in, we are faced at once with the fact that there can be no programme entirely suited to all. The conditions of broadcast programmes are so different to those suitable for ball or chamber concerts that the two should not be compared. Broadcast listeners are what may be called a 'floating' audience, who require a sort of cafeteria programme, at which they serve themselves, instead of remaining seated whilst the platform artists wait upon them with a table d' hôte of music. The most that a Broadcast Programme Director can do is to put forth a well-assorted variety of items, all of which are the best of their kind and produced by the best artists to be had. Those who know exactly what these two provisos involve under the present unavoidable conditions of the broadcasting and entertaining talent of Melbourne are well aware that such a statement is a counsel of perfection that no amount of prize-competition could bring within the range of practical accomplishment. One has only to compare the six selected programmes with any other six selected from those put forth by 3LO, Melbourne, during the past years, to realise at once that the problem has not been solved, and that 3LO, Melbourne, may just as well keep moving along its old lines and forget at once that such a thing as a Prize Programme was ever invented. It is open to question whether even the six persons most concerned in the programmes submitted were entirely enthralled by the actual performances of these children of their labouring brains. Certainly very few of those competent to judge outside were likely to be at all impressed, even if they sturdily pursued each item of each programme through from beginning to ending and devoured the police interpolations with as much avidity as the rest of the pot-pourri of music, jazz, science and burlesque which we are being taught by popular competitions to regard as the domain of broadcasting. Well! a few people are richer by

£100 or so, and, quite frankly, the programmes might well be assessed as that much poorer, and 3LO, Melbourne, has now that much leeway to make up in future sessions. Any future offering of prizes for that sort of thing ought to be punishable by fines and imprisonment."

HEARING ACROSS THE WORLD.

"Heard Australia yet?" asks an American Radio magazine. "Now seems to be the time if you don't mind staying up late or awaking early to tune in. Another reader, F. Bignall, living in Regina, Saskatchewan, Canada, reports that he has been hearing 3LO, Melbourne, nearly every morning for two weeks. The time he listens is about 3 to 5 a.m. mountain time. On two occasions he states that he heard 3LO, Melbourne, announce that a big celebration would take place on Returned Soldiers' Day, April 25th, that the parade would take half an hour to pass a given point and that the services would be held in the Exhibition Building. He was using the simplest possible Superbet. set."

Few broadcasting studios in Australia, or in the world, go roving so much in search of variety as 3LO, Melbourne. Always some novelty is being introduced, and hardly a week goes by without some musical programme being broadcasted from towns many miles from Melbourne.

ORGAN RECITALS.

Commencing on Friday, July 2nd, a series of Organ Recitals will be given through 3LO, Melbourne, by Dr. A. E. Floyd, organist of St. Paul's Cathedral, Melbourne. In the Sunday religious services broadcast by 3LO, listeners-in have already heard much of Dr. Floyd's beautiful music, and his special recitals will find every receiving set in Victoria in operation.

WORLD'S FIRST RADIO PARISH ORGANISED.

The first radio Parish, non-sectarian, believed to be the first world's radio parish, was formed at Portland, Maine, when the Rev. Howard O. Hough was installed as pastor. Representatives of nine denominations were present, either in the studio audience or as participants in the programme, when the services were broadcast from WCSH. Shut ins and others throughout New England and the Middle Atlantic States listened to the service, which was on the air from 1.30 to 2.36 p.m. The Rev. Mr. Hough has been broadcasting a weekly service since November and because of the responses received has resigned as Pastor of the Advent Christian Church, to assume the pastorate of the radio Parish. Business men and others interested have pledged financial support. A violinist, a pianist, and a mixed quartette assist at the services.



No. 6
3/6 each

BRIGHT STAR Batteries

Awarded America's Highest Tests

No. 6A each 3/6

1½ volts. Supreme in quality and service for all Standard Dry Cell Requirements.

Cat. No.	Gtd. Shelf Life.	Diameter	Height	Weight
6A	12 Mos.	2½in.	6½in.	2½lb.



Cat. No. 15-90
List Price Each 13/6

No. 15-90 each 13/6

22½ volts. Five positive brass screw terminals arranged to give 16½, 18, 19½, 21 and 22½ volts from the negative. This battery is specially designed for use with soft detector tubes.

Cat. No.	Gtd. Shelf Life	Length, Width, Height	Weight
15-90	9 months	6½ x 4 3/16 x 3½	5½lb.



Cat. No. 30-05
List Price Each 26/-

No. 30-05 each 26/-

45 volts. 30 cells. Standard square type. Gives most economical service on 3 and 4 tube sets. Six positive brass screw terminals give 16½, 18, 19½, 22½, and 45 volts from the negative. Designed for sets using 45 or 90 volts. Taps make it suitable for use with soft detector tubes.

Cat. No.	Gtd. Shelf Life	Length, Width, Height	Weight
30-05	9 Months.	6½ x 8 x 3	9½lb.

INTERNATIONAL RADIO CO. LIMITED

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

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

AMONGST THE TRADERS

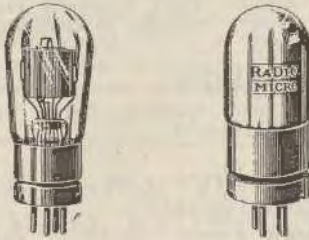
NEW VALVES.

Radio Micro.

Dull Emitter valve. This valve working with a 0.06 amp. filament current and 3 to 3.5 volts filament voltage may be very successfully used either as high and low frequency amplifier, or as detector. Owing to its low consumption it enables the wireless amateur to use dry cells instead of accumulators.

Super Ampli.

As a high frequency amplifier, this valve is particularly suitable for adaption on tuned anode circuits; it possesses a high efficiency on short wave lengths (500 metres and under) while it, at same time, gives excellent results on long wave lengths. As a low frequency amplifier, it may be adapted to all low frequency stages of ordinary sets when it



is desired to obtain great reception power together with great purity.

The electrical characteristics of the R.46 type are:

Filament voltage, 5 volts; Filament Current, .25 A.; Anode Voltage, 80 to 160 volts; Total Omission, 30 to 50 M.A. approx.; Voltage Amplification Factor, 7 to 10; Impedance 9,000 to 10,000 ohms. Agents, Brown & Dureau.

BUSINESS CHANGES.

Messrs. W. G. Watson & Co. Ltd., Electrical Engineers, 200 Queen Street, Melbourne, advise that Mr. C. W. Westwood, Manager of the Melbourne Branch for the past three years has resigned his position to take up an important appointment in South Australia on July 1st with Messrs. Robert Bryce & Co. Ltd.

Mr. D. J. Miles, who has had fourteen years' experience in the Head Office of Messrs. W. G. Watson & Co., Sydney, has been transferred to Melbourne as Manager for Victoria.

RADION VALVE SOCKET.

Illustrated above is the Latest Radion Valve Socket.

This Radion Valve Socket with a collar attachment as illustrated, has a keyway, making it interchangeable for the old UV type of valve base or the new UX type of valves. This Radion Socket will



take either the old type or new type of valves with American bases. It is equipped with binding posts and also extension contact points for those who would sooner solder than use a binding post.

Australian Agents: International Radio Co. Ltd., 200 Castlereagh Street, Sydney.

DISTRIBUTOR FOR FINSTON PRODUCTS.

Arthur J. Veall, 247-249 Swanston Street, Melbourne, Vic., has been appointed wholesale distributor for Victoria for the well known Finston Mfg. Coy., a British radio manufacturing concern.

Other agencies are open at the present time and those interested should get into touch, Finston Mfg. Coy., 45 Horsebury Road, London, S.W.1.

FOR SALE—8 American 7-Tube Super-Heterodynes, each in leather case; Batteries, Speaker and Loop enclosed. Guaranteed to receive all Australian stations on speaker. Without Aerial, £49/10/-. Terms: £6 down and 10/- weekly. Trade your wireless set in as a deposit. Also, 3 8-Tube Sets in Cabinets, £59/10/-, or £10 down and 15/- per week.

MELVILLE, No. 6, California Flats,
Birriga Rd., Bellevue Hill.

Wav. 2063.

BURGESS—"Assure Clear Reception"—BATTERIES

MURDOCH'S Red Spot SALE

As a basis—all lines of Merchandise throughout the Great Store (except a few Proprietary lines) have been reduced

10%

In over-stocked lines, however, immense stocks have been sacrificed to ensure quick despatch, many lines clearing as low as

Half Price

Radio Sets and Accessories at Cut Prices!

RADIO SETS

Special Sale offer of the Junior Type 1 Valve Set, complete with valve and all batteries. Receives Inter-State broadcasting on ordinary aerials.

USUALLY £7/7/-

Red Spot Price - £5/8/-

Murdoch's Standard—the most efficient 3-Valve Set in Australia. Loud Speaker strength on Inter-State stations. Includes everything for a first-class installation.

USUALLY £27

Red Spot Price - £24/6/-

Single Slide Crystal Sets complete with 1 pair 'phones, tested crystal, 100 feet aerial, 6 yards lead-in-wire, 4 insulators.

USUALLY £1/15/6

Red Spot Price - £1/13/-

Loose Coupler Crystal Sets.

USUALLY £2/18/6

Red Spot Price - £2/13/-

ACCESSORIES

Western Electric Loud Speakers, large type. An extraordinary reduction to clear stock.

USUALLY £9/15/-

Red Spot Price - £5/5/-

Magnavox Loud Speakers, Large Type. A high-grade Instrument.

USUALLY £10/10/-

Red Spot Price - £7/10/-

Switch Arms, USUALLY 1/3 each

Red Spot Price - 6d. each

Siemens celebrated Headphones,—secure a pair at this splendid Sale Discount.

USUALLY 32/6

Red Spot Price - 21/-

Winchester B Batteries, large type 45 volt.

USUALLY 26/-

Red Spot Price - 20/3

Polar 2 Coil Holders, cam verniers, new type.

USUALLY 15/6

Red Spot Price - 9/6

Thousands of others!

All Radio Goods GUARANTEED.

Postage Paid to Your Door

MURDOCH'S in PARK ST. SYDNEY
THE WORLDS LARGEST MEN'S & BOYS' STORE



One often hears the expression, "Oh, he's been bitten by the Radio Bug." What is this Radio Bug that inflicts so much damage and bites so deeply? So far Science has not located it, but the fearsome creature depicted above has been conjured up by an artist in "Life" (U.S.A.).

RADIO AND ELECTRICAL EXHIBITION FOR BRISBANE.

Following on the example set by the radio enthusiasts and dealers in the Southern Capitals, the radio and electrical dealers of Brisbane intend to hold an exhibition in August. This month has been chosen because the Royal National Show

BRANSTON AMERICAN SUPER HETERODYNE

THE RADIO "ROLLS ROYCE."

Interstate Stations on loop with full
LOUD SPEAKER STRENGTH

It is the tried and proved Super-Het.
7 Valves Reflexed giving the Power of Ten.
Build your own—we will show you how, and
give free service until working.

COME AND HEAR IT ON THE
STATIONS, INCLUDING 2FC.

ALSO

THE FAMOUS CROSLLEY SETS.

Mass Production makes Crosley the World's
Greatest Value in Valve Sets, bringing
Powerful, Efficient Radio within the reach
of all.

PARSONS & WHITTEMORE LTD.,
30 MARKET STREET, SYDNEY.

will be held in Brisbane then, and the organisers intend to use this time, as many country folk will have the privilege of seeing the radio exhibits on that occasion. The Exhibition will be held in the Show Pavilion, and a small fee will be charged for admission. This fee, of course, is imposed to help to defray expenses, as an exhibition of such a nature could not be held minus the expenses.

Besides being a traders' affair, the amateur will have his corner, where the hobbyist will find much to keep him busy in the way of circuits, etc. 4QG will also be represented, as it is intended that the station will have a studio at the Exhibition, where a portion of the programme will be rendered. All Queensland readers of this paper are cordially invited to see the Exhibition, as it will be the greatest attraction to the show for radio enthusiasts.

SHORT WAVE EXPERIMENTS IN RUSSIA.

Experiments which have recently been conducted in the Soviet Laboratory at Nishni-Novgorod have resulted in the transmission of short wave messages on 83, 102, and 104 metres to Chile and Porto Rico.

The real object of the tests is to find a practicable form of radio communication with the remote parts of Russia which are not provided with telegraphic communication.

Manufacturing Products Sales Co. (M.P.)

(H. J. HAPGOOD).

CHALLIS HOUSE, MARTIN PLACE,
SYDNEY.

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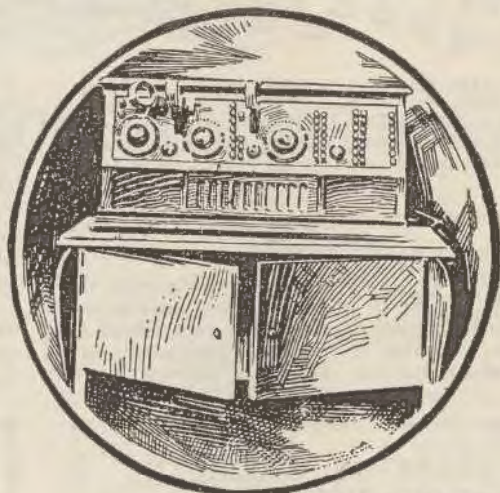
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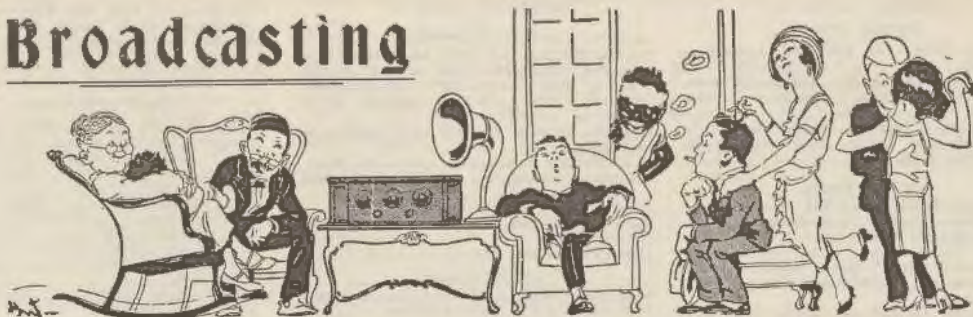
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FRIDAY, JULY 2.

Morning Session.

- 8—The Chimes of 2FC and Announcement of Cricket Scores at Drawing of Stumps, Australia versus Northampton. These scores will be repeated at 9 and 10 a.m.
10—The Chimes of 2FC and Announcements.
10.10—Weather Information, Commercial News, Shipping Intelligence, Market and News Session.
11—Cables.
11.5—Details of cricket scores.
11.15—Cooking Talk and Recipes by Miss Ruth Furst.
11.30—Close down.

Midday Session.

- 12.30—The Chimes of 2FC and Announcements.
12.35—Morning Call Stock Exchange.
12.40—Musical items.
1—Time Signals.
1.3—"Evening News" News Service, Weather Information, Commercial News, Musical Items.
2.30—Noon Call Stock Exchange, Musical Items.
2—Close down.

Afternoon Session.

- 3—The Chimes of 2FC and Announcements.
3.5—Violin Recital by the pupils of Florent Hoogstool.
3.40—From the Tea Rooms, Miss Gladys Briggs, contralto.
3.45—Oak Hall Trio.
3.55—Musical Items from the Studio.
4—From the Tea Rooms, Miss May Jackson, soprano.
4.5—Oak Hall Trio.
4.15—Musical Items.
4.20—From the Tea Rooms, Miss Gladys Briggs, contralto.
4.25—Oak Hall Trio.
4.35—Music from the Studio.
4.40—From the Tea Rooms, Miss May Jackson, soprano.
4.44—Afternoon Call Stock Exchange.
4.45—Close down.

Early Evening Session.

- 6—The Chimes of 2FC and Announcements.
6.5—"Hello Man" talks to the Children.
6.45—Broadcast from Hotel Australia—Musical Items.
7.15—"Evening News" News Service, and Sporting Information.
7.30—Dalgely's Market Reports (wool, wheat, stock), fruit and vegetable market.
7.40—Close down.

Night Session.

- 7.55—The Chimes of 2FC and Announcements.
8—From the Studio—Instrumental Trio—Mr.

- Lionel Lawson, violinist, Mr. Gladstone Bell, cellist, Mr. Lindley Evans, pianist.
8.12—Miss Dorothy Ewhank, soprano.
8.20—Mr. Bryson Taylor, tenor.
8.28—Mr. Gladstone Bell, cello solos.
8.38—Duet by Miss Dorothy Ewhank and Mr. Bryson Taylor.
8.46—Mr. Lindley Evans, pianist.
8.46—Mr. Lawrence Halbert, baritone.
9.5—Mr. Harrison White, banjo solos.
9.15—Miss Dorothy Ewhank, soprano.
9.20—Instrumental Trio.
9.20—Mr. Bryson Taylor, tenor.
9.34—Mr. Harrison White, banjo solos.
9.44—Mr. Lawrence Halbert, baritone.
9.50—Broadcast from the Crystal Palace, items by the Orchestra conducted by Mr. Harry Stone.
10.20—Broadcast from the Wentworth Hotel, Sydney—Westworth Cafe Dance Orchestra, under the baton of Mr. Sydney Simpson.
11—National Anthem—Close down.

SATURDAY, JULY 3.

Morning Session.

- 8—The Chimes of 2FC and Announcements. Cricket scores, Australia v. Northampton. These scores will be repeated at 9 and 10 a.m.
10.10—Weather Information, Commercial News, Shipping Intelligence, Market and News Session.
11—Progress Cricket Talk.
11.5—Cables.
11.15—Gardening Talk by "Redgum" (Mr. G. J. Lockley).
11.30—Close down.

Midday Session.

- 12.55—The Chimes of 2FC and Announcements.
1—Time Signals.
1.3—"Evening News" News Service, Weather Information, Commercial News, Musical Items.
1.20—Musical Items. Close down.

Afternoon Session.

- 3—The Chimes of 2FC and Announcements.
During the interval between race results musical items will be given from the Studio. At regular intervals during the day a description and result of the Dudley Cup Polo Match will be broadcast from the Kensington Racecourse by the well-known polo authority, Mr. Reg. White.
4.30—Complete resume of the afternoon's sporting events. Musical Items.
5—Close down.

Early Evening Session.

- 6—The Chimes of 2FC and Announcements.
6.5—"Hello Man" talks to the Children.
6.45—Broadcast from the Hotel Australia—Orchestral Items.
7.15—"Evening News" News Service and Sporting Information.
7.40—Close down.

Night Session.

- 7.55—The Chimes of 2FC and Announcements.
8—From the Studio: Mr. Ernest Archer, tenor, Duwn (Heintzel), The Two Roses (Heintzel).
8.5—The Alwyns, Harmony Duo.
8.24—Walter Hunt and Eve Warhurst in a one-act play.
8.45—Mr. Robert Molyneux, songs at the piano.
8.53—Mr. Ernest Archer, tenor, (a) Her Eyes, (b) Noontide.
9.2—The Alwyns, Harmony Duo.
9.18—Mr. W. Hunt and Miss E. Warhurst in a one-act play.
9.30—Broadcast from the Crystal Palace orchestra (by courtesy of Union Theatres Ltd.); conductor, Mr. Harry Stone.
10—2FC Dance Band, from the Studio.
10.12—Mr. Robert Molyneux, songs at the piano.
10.20—Dance Band.
10.35—Late News and Announcements.
10.40—2FC Dance Band will play dance numbers until 11.15 p.m.
11.15—National Anthem—Close down.

SUNDAY, JULY 4.

Morning Session.

- 8—The Chimes of 2FC and Announcements. Cricket scores of the first day's play Australia v. Nottingham. These scores will be repeated at 9 and 10 a.m.
10.55—The Chimes of 2FC and Announcements.
11—Broadcast from St. Andrew's Cathedral: Morning Service.
12.15—From the Studio: News Session.
12.30—Close down.

Afternoon Session.

- 2.45—The Chimes of 2FC and Announcements.
2.50—Broadcast from the Lyreum Hall, Pitt Street, a pleasant Sunday afternoon's service, consisting of a programme by blind musicians, arranged by Mr. Hedger, Manager of the Blind Institute.
4.30—Professor C. Gauer will give his musical experience covering a period of 20 years in Australia, with illustrations.
5—Close down.

Night Session.

- 6—The Chimes of 2FC and Announcements.
6.5—Orchestral Concert.
7—Broadcast from the Randwick Presbyterian Church: Evening Service, Preacher, Rev. W. J. Grant.
8.30—Broadcast from the Grand Opera House: Band Concert by the N.S.W. Military Band.
10—National Anthem. Close down.

BURGESS—"Used by American Navy"—BATTERIES

MONDAY, JULY 5.

Morning Session.

10.—The Chimes of 2FC and Announcements.

10.10—Weather Information, Commercial News, Shipping Intelligence, Market and News Session.

11.—Cables, Progress Cricket Talk.

11.15—Musical Items from the Studio.

11.30—Close down.

Midday Session.

12.30—The Chimes of 2FC and Announcements.

12.35—Morning Call Stock Exchange.

12.40—Musical Items.

1—Time Signals.

1.3—"Evening News" News Service, Weather Information, Commercial News, Musical Items.

1.30—Noon Call Stock Exchange. Musical Items.

2—Close Down.

Afternoon Session.

3.—The Chimes of 2FC and Announcements. Broadcast from Farmer's Smoke Room, items from the meeting arranged by the Food Reform League.

3.40—From the Tea Rooms: Miss Jennie Slopoffski, soprano.

3.45—Oak Hall Trio.

3.55—Musical Items from the Studio.

4.—From the Tea Rooms: Miss Alicia Haywood, contralto, High on the Sleepy Hills (Loughborough).

4.5—Oak Hall Trio.

4.15—Musical Items from the Studio.

4.20—From the Tea Rooms: Miss Jeanne Slopoffski, soprano.

4.25—Oak Hall Trio.

4.35—Musical Items from the Studio.

4.40—From the Tea Rooms: Miss Alicia Haywood, contralto, The Little Blue Bay (Del Rio).

4.44—Afternoon Call Stock Exchange. Note.—During the afternoon results of the Dudley Cup Polo Match will be given.

4.45—Close down.

Early Evening Session.

6.—The Chimes of 2FC and Announcements.

6.5—The "Hello Man" talks to the children.

6.45—Broadcast from the Hotel Australia: Orchestral Items.

7.15—"Evening News" News Service and Sporting Information.

7.30—Dalgety's Market Reports (wool, wheat, stock), Fruit and Vegetable Markets.

7.40—Close down.

Night Session.

7.55—The Chimes of 2FC and Announcements.

8.—Broadcast from the Haymarket Theatre, Sydney: Operatic Orchestra, under the baton of Mr. Stanley Porter.

8.25—From the Studio: Mr. Russell Rix, basso.

8.33—Rev. F. H. Raward will continue his talk on "Natural History," No. 5.—The Bear, a combination of fun and ferocity.

8.45—2FC Dance Band.

8.58—Mr. Russell Rix, basso.

9.5—Broadcast from the Haymarket Theatre, Sydney: Vocal Act.

9.20—Broadcast from the Baptist School Hall, a choral programme by the Sydney Harmonic Society; conductor, Mr. W. Bonrne.

10.—Broadcast from the Haymarket Theatre: Orchestral Items.

10.15—2FC Dance Band will play dance music until 11 o'clock.

11.—National Anthem. Close down.

TUESDAY, JULY 6.

Morning Session.

8.—The Chimes of 2FC and Announcements. Cricket scores of the second day's play, Australia v. Nottingham. These scores will be repeated at 9 and 10 a.m.

10.—The Chimes of 2FC and Announcements.

10.10—Weather Information, Commercial News, Shipping Intelligence, Market and News Session.

11.—Cables, Progress Cricket Talk.

11.15—Cooking Talk and Recipes by Miss Ruth Furst.

11.30—Close down.

Midday Session.

12.30—The Chimes of 2FC and Announcements.

12.35—Morning Call Stock Exchange.

12.40—Musical Items.

1—Time Signals.

1.3—"Evening News" News Service, Weather Information, Commercial News, Musical Items.

1.30—Noon Call Stock Exchange. Musical Items.

2—Close down.

Afternoon Session.

3.—The Chimes of 2FC and Announcements. Vocal Recital by the Pupils of Madam Emily Marks.

3.40—From the Tea Rooms: Miss Muriel Humphries, contralto.

3.45—From the Tea Rooms: Oak Hall Trio.

3.55—Musical Items from the Studio.

4.—From the Tea Rooms: Mr. Rupert Waller, baritone.

4.5—Oak Hall Trio.

4.15—Musical Items from the Studio.

4.20—From the Tea Rooms: Miss Muriel Humphries, contralto.

4.25—Oak Hall Trio.

4.35—Musical Items from the Studio.

4.40—From the Tea Rooms: Mr. Rupert Waller, baritone.

4.44—Afternoon Call Stock Exchange.

4.45—Close down.

Early Evening Session.

6.—The Chimes of 2FC and Announcements.

6.5—The "Hello Man" talks to the children.

6.45—Broadcast from the Hotel Australia: Orchestral Items.

7.15—"Evening News" News Service and Sporting Information.

7.30—Dalgety's Market Reports (wool, wheat, stock), Fruit and Vegetable Markets. Close down.

7.40—A Talk by a Member of the Wireless Institute of N.S.W.

Night Session.

7.55—The Chimes of 2FC and Announcements.

8.—Broadcast from the Darlington Town Hall, items by the Metropolitan Band.

8.20—From the Studio: Mr. Oliver King, basso, (a) Shipmates o' Mine (Sanderson), (b) Young Tom o' Devon (Russell).

8.28—From the Darlington Town Hall: Metropolitan Band.

8.45—Broadcast from the Palace Theatre: Second act of the delightful comedy "Sunday," featuring Miss Nellie Bramley.

9.35—From the Darlington Town Hall: Metropolitan Band.

9.44—From the Studio: Mr. Lionel Lawson, violin solos.

9.52—Madam Vera Tasma, soprano.

10.—Mr. Oliver King, basso, L'Explorer (McGarrity), Journeying from Islam (McGarrity).

10.8—Mr. Lionel Lawson, violin solos.

10.12—Madam Vera Tasma, soprano.

10.26—Announcements.

10.30—Broadcast from the Wentworth Cafe—Wentworth Cafe Dance Orchestra, under the baton of Mr. Sydney Simpson.

11—Close down.

WEDNESDAY, JULY 7.

Morning Session.

8.—The Chimes of 2FC and Announcements. Cricket scores of the third day's play Australia v. Nottingham. These scores will be repeated at 9 and 10 a.m.

10.—The Chimes of 2FC and Announcements.

10.10—Weather Information, Commercial News, Shipping Intelligence, Market and News Session.

11—Progress Cricket Talk.

11.5—Cables.

11.15—Cooking Talk and Recipes by Miss Ruth Furst.

11.30—Close down.

Midday Session.

12.30—The Chimes of 2FC and Announcements.

12.35—Morning Call Stock Exchange.

12.40—Musical Items.

1—Time Signals.

1.3—"Evening News" News Service, Weather Information, Commercial News, Musical Items.

1.30—Noon Call Stock Exchange. Musical Items.

2—Close down.

Afternoon Session.

3.—The Chimes of 2FC and Announcements. Recital on the Behning Player Piano.

3.40—From the Tea Rooms: Miss Gwladys Fimister, soprano.

3.45—Oak Hall Trio.

3.55—Musical Items from the Studio.

4.—From the Tea Rooms: Miss Valma Roach, contralto.

4.5—Oak Hall Trio.

4.15—Musical Items from the Studio.

4.20—From the Tea Rooms: Miss Gwladys Fimister, soprano.

4.25—Oak Hall Trio.

4.35—Musical Items from the Studio.

4.40—From the Studio: Afternoon Call Stock Exchange.

4.45—Close down.

Early Evening Session.

6.—The Chimes of 2FC and Announcements.

6.5—The "Hello Man" talks to the children.

6.45—Broadcast from the Hotel Australia: Orchestral Items.

7.15—"Evening News" News Service and Sporting Information.

7.30—Dalgety's Market Reports (wool, wheat, stock), Fruit and Vegetable Markets.

7.40—A Talk by Mr. E. J. Van-de-Velde on the Photographic Competition.

Night Session.

7.55—The Chimes of 2FC and Announcements.

8.—Broadcast from the Sydney Town Hall, a concert of welcome to the visiting All Blacks Football Team. A programme of music has been arranged by the N.S.W. Rugby Union, which will include organ solos. Community singing; baritone solos by Mr. R. A. Bartleman; humorous numbers by Wally Byrnes. Address of welcome and replies.

From the Studio: For the first time in Australia listeners will be entertained with a series of Bridge Games being broadcast. Each game will be complete in itself, and will be played by well-known Bridge players. The game

will be played in the Studio, and will be broadcast bit by bit, and listeners will be able to phone the Studio and ask details concerning the play, and the answers will be put over the air for the benefit of other listeners. The hands that will be held by the players in the Studio will be announced beforehand, so that listeners may be ready at home with their players and their various hands. 2FC have secured the Commonwealth rights for this innovation, which is creating tremendous interest in America, where as many as 30 stations broadcast the same game one night each week. This Bridge Session will be continued every Wednesday night approximately at 9 o'clock.

9.30—From the Studio: Renn Miller and Madeline Knight in Harmony Numbers.

9.45—Gwen Russell, soprano, winner of the 3LO Radio Voice Competition.

9.53—Mayo Hunt and Gladys in Steel Guitar Numbers.

10.3—Renn Miller and Madeline Knight in Harmony Numbers.

10.18—Miss Gwen Russell, soprano.

10.30—Mayo Hunter and Gladys in Steel Guitar Items.

10.35—Broadcast from the Wentworth Hotel: Wentworth Cafe Dance Orchestra, under the baton of Mr. Sydney Simpson.

11—National Anthem. Close down.

THURSDAY, JULY 8.

Morning Session.

8—The Chimes of 2FC and Announcements. Cricket scores first day's play Australia v. Worcester. These scores will be repeated at 9 and 10 a.m.

10—The Chimes of 2FC and Announcements.

10.10—Weather Information, Commercial News, Shipping Intelligence, Market and News Session.

11—Progress Cricket Talk.

11.5—Cables.

11.15—Musical Items from the Studio.

11.30—Close down.

Midday Session.

12.30—The Chimes of 2FC and Announcements.

12.55—Morning Call Stock Exchange.

12.40—Musical Items.

1—Time Signals.

1.3—"Evening News" News Service, Weather Information, Commercial News, Musical Items.

1.30—Noon Call Stock Exchange. Musical Items.

2—Close down.

Afternoon Session.

3—The Chimes of 2FC and Announcements. A Vocal Recital by the Pupils of Maestro Fissati.

3.40—From the Tea Rooms: Miss Peggy Dunbar, mezzo.

3.45—Oak Hall Trio.

3.55—Musical Items from the Studio.

4—From the Tea Rooms: Miss Joan Shorter, contralto.

4.5—Oak Hall Trio.

4.15—Musical Items from the Studio.

4.20—From the Tea Rooms: Miss Peggy Dunbar, mezzo.

4.25—Oak Hall Trio.

4.35—Musical Items from the Studio.

4.40—From the Tea Rooms: Miss Joan Shorter, contralto.

4.44—Afternoon Call Stock Exchange.

4.45—Close down.

Note.—Polo results will be given at intervals.

Early Evening Session.

6—The Chimes of 2FC and Announcements.

6.5—The "Hello Man" talks to the children.

6.45—Broadcast from the Hotel Australia: Orchestral Items.

7.15—"Evening News" News Service

and Sporting Information.

7.30—Dalgety's Market Reports (wool, wheat, stock), Fruit and Vegetable Markets.

7.40—Close down.

Night Session.

7.55—The Chimes of 2FC and Announcements.

8—A Talk on "Hamlet" by Mr. Walter Hunt.

8.15—Broadcast from Paling's Concert Hall: Sydney Madrigal Society's Choir.

8.45—From the Studio: Mr. Ad Cree, the well-known Scottish comedian.

9.6—Mr. Lawrence Halbert, baritone.

9.10—Mr. Gladstone Bell, cello solos.

9.20—Mr. Ad Cree, comedian.

9.28—Mr. Lindley Evans, piano solos.

9.38—Mr. Lawrence Halbert, baritone.

9.45—Sydney Instrumental Trio.

9.52—Mr. Lawrence Halbert, baritone.

10—Broadcast from the Lyceum Theatre, Sydney: Orchestra, under the baton of Mr. Emanuel Aarons.

10.20—Broadcast from the Wentworth Hotel, Sydney: Wentworth Cafe Dance Orchestra, under the baton of Mr. Sydney Simpson.

11—Close down.

2BL

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

FRIDAY, JULY 2.

10.55—Special 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—Music from the Studio.

3.45—Hillier's Orchestra, under the direction of Caryl Castling.

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

4.30—G.P.O. Clock and Chimes; Serial Story entitled The Seventh Hunch.

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 and Finance Co.

7.50—Close down.

Evening Session.

8—G.P.O. Clock and Chimes; Brass Quartette; Mr. Clem Williams, baritone; The Abad Duo with their Steel Guitars; Miss Hilda Lane, soprano; Mr. L. Howard Leighton, pianist.

Resume of following day's programme; Weather Report and Forecast, by courtesy of Mr. C. J. Mares, Govt. Meteorologist; Senior Sporting Expert of "The Sun" Office will speak on The Prospects of To-morrow's Races; Dance Band; Round the World Travelogue, by Mr. J. M. Prentice; News Reports by courtesy of "Sun" Newspapers; National Anthem.

SATURDAY, JULY 3.

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 Jack and the Kiddies.

7—A Talk to the Kiddies by Brings.

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

Evening Session.

8—G.P.O. Clock and Chimes; Rockdale Scottish Society's Concert, broadcast from Rockdale Town Hall.

SUNDAY, JULY 4.

11—Service broadcast from Emore Church of Christ.

Afternoon Session.

3.30—Bible Class conducted by Mr. W. "Cairo" Bradley.

4—Organ Recital.

7—Service broadcast from Palmer Street Presbyterian Church.

8.30—Newtown Band, broadcast from Fuller's Theatre.

10.30—G.P.O. Clock and Chimes. National Anthem.

MONDAY, JULY 5.

10.55—Special Cricket Session with Music from the Studio.

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

3.15—David Jones' Tea Room Trio.

3.30—G.P.O. Clock and Chimes; Philosophic Talk, by Mr. J. M. Prentice.

3.45—Music from the Studio.

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

4.15—Music from the Studio.

4.30—G.P.O. Clock and Chimes; Serial Story entitled The Seventh Hunch.

4.45—Music from the Studio.

4.55—Late Market Reports from The Sun.

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

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

Early Evening Session.

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

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

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

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

7.50—Close down.

Evening Session.

8—G.P.O. Clock and Chimes; Orphan's Wall from Wahingah Hall, Neutral Bay; Al. Hammett and Ambassadors Dance Orchestras, during the intervals. Social Notes will be given by Mrs. Fotts; News Reports by courtesy of "Sun" Newspapers.

Al. Hammett and The Ambassadors Dance Orchestra broadcast until midnight; National Anthem.

TUESDAY, JULY 6.

10.55—Special 20 minute Cricket Session with Music from the Studio.

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

Afternoon Session.

- 3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.
 3.15—Music from the Studio.
 3.30—G.P.O. Clock and Chimes.
 3.45—Music from the Studio.
 4—G.P.O. Clock and Chimes; Music from the Studio.
 4.30—G.P.O. Clock and Chimes; Serial Story entitled The Seventh Hunch.
 4.45—Music from the Studio.
 4.55—Late Market Reports from The Sun.
 5—G.P.O. Clock and Chimes; Sun News Service.
 5.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

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

Evening Session.

- 8—G.P.O. Clock and Chimes; Hoyt's Imperial Orchestra, under the direction of Mr. Lionel Hart, broadcast from Hoyt's Theatre; Mr. Robert Harper, tenor; Broadcasters Trio; Miss Helena Stewart, soprano; Mr. C. F. Lasoner will speak on Art of the Bronze Worker; Mr. Norman Janson, baritone; Resume of the following day's programme; Weather Report and Forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist; Mr. Ward L. Havard will speak on Australian Scenic Treasures—"Caves and Caverns," No. 2; News Reports by courtesy of "Sun" Newspapers; National Anthem.

WEDNESDAY, JULY 7.

- 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 The Seventh Hunch.
 4.45—Broadcasters' Trio.
 4.55—Late Market Reports from The Sun.
 5—G.P.O. Clock and Chimes; Sun News Service.
 5.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

- 5—G.P.O. Clock and Chimes; Sydney 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.

- 8—Sydney Orpheus Society; City of Sydney Band; Mr. Frank Marshall will speak on History of Radio Therapy in the Treatment of Cancer (No. 3); Resume and Weather Report; Mr. J. M. Prentice will speak on Foreign Affairs; News Reports by courtesy of "Sun" Newspapers; National Anthem.

THURSDAY, JULY 8.

- 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—David Jones' Tea Room Trio.
 3.30—Music from the Studio.
 4—G.P.O. Clock and Chimes; David Jones' Tea Room Trio.
 4.15—Music from the Studio.

- 4.30—Serial Story entitled The Seventh Hunch.
 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.
 7.30—Mr. J. C. Morrell will speak on War Service Homes.
 7.45—Australian Mercantile Land & Finance Co. Ltd. Stock Report.
 7.50—Close down. Evening Session.

- 8—Ambassadors Salon Quartette; Miss Leonore Gotsch, coloratura soprano; Miss Mary Edwards will speak on "A South Sea Tale"; Resume of following day's programme; Weather Report by courtesy of Mr. C. J. Mares, Govt. Meteorologist; Announcements; Miss Molly Kayner (comedienne); Mr. Richard McLelland's Recital; Mr. Algernon H. Lindo will speak on "The Art of Accompanying"; Broadcasters Trio; News Reports by courtesy of "Sun" Newspapers; Al Hammett and the Ambassadors Dance Orchestra will broadcast from the Ambassadors from the Ballroom until midnight; National Anthem.

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FRIDAY, JULY 2.

Midday Session.

- 12.55—Tune-in.
12.58—Time Signal.
1—Market Reports, Stock Exchange, Weather, "The Daily Mail" News, The "Daily Standard" News.
1.20—Close down.

Afternoon Session.

- 3.30—A Musical Programme from the Studio.
4.15—"The Telegraph" News.
4.30—Close Down.

Early Evening Session.

- 6.25—Tune-in.
6.30—The Children's Session. Stories by "The Sandman."
7—The Farmers' Session; Market Reports; Lecture—Irrigation Potentialities in Queensland, by Mr. A. Partridge (Commissioner of Irrigation and Water Supply).
7.20—"The Telegraph" News.
7.30—Close Down.

Night Session.

- 7.30—The first portion of to-night's programme will comprise a recital by selected representatives of Metropolitan Roman Catholic Choirs, and will be relayed from St. Stephen's Cathedral.

- 8.50—Weather Information officially supplied by The Commonwealth Weather Bureau.
Week-End Road Information for Motorists, supplied by the Royal Automobile Club of Queensland; Announcements.

- 9.10—Overture, The Savoy Orchestra; soprano solo; Miss Lottis Richter; violin, The Savoy Orchestra; baritone solo, Mr. Maurice Goldhill; orchestral, The Savoy Orchestra; soprano solo, Miss Lottis Richter; orchestral, The Savoy Orchestra; baritone solo, Mr. Maurice Goldhill; selection, The Savoy Orchestra; soprano solo, Miss Eileen McLennan; march, The Savoy Orchestra.

- 10—"The Daily Mail" News Service; Close Down.

SATURDAY, JULY 3.

Afternoon Session.

- 3.25—Tune-in.
3.30—A Matinee Entertainment for Little Listeners.
4.30—Close down.

Early Evening Session.

- 6.25—Tune-in.
6.30—The Children's Session; Bedtime Stories by "Uncle Ben," assisted by "Mabel Sunshine."
7.15—Sporting News.
7.30—Close Down.

Night Session.

- 7.45—Lecture Session—A Sporting Talk, by Rugby League Officials.
8—A Vocal and Instrumental Concert from the Studio.
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, dance music played by Miss May Dobbyn's Vice-Regal Orchestra will be relayed from Lennon's Ballroom.

- From the Studio—Soprano solo, Mrs. T. Thornton; tenor solo, Mr. E. Ungerer. From Lennon's Ballroom—Dance Music. From the Studio—soprano solo, Miss Ruth Portrate; tenor solo, Mr. J. Morgan. From Lennon's Ballroom—Dance Music.
10—From the Studio—"The Sunday Mail" News Service. Close down.

SUNDAY, JULY 4.

Morning Session.

The complete Morning Service held by the International Bible Students' Association will be relayed from the Brisbane School of Arts.
11—Morning Service. Close down.

Afternoon Session.

A concert provided by the Brisbane Federal Band (conductor, Mr. W. H. Davis) will be broadcast from the Studio of 40Q.

- 3.10—Tune-in.
3.15—Band Concert.
4.30—Close down.

Night Session.

The complete Evening Service held by the International Bible Students' Association will be relayed from the Brisbane School of Arts.

7.10—Tune-in.

- 7.15—Organ Overtures.
7.30—Evening Service. Address, Mr. R. A. Kinnimonth, of Melbourne.
At the conclusion of the Service the Band Concert provided by the Greater Brisbane Municipal Concert Band (under the leadership of Mr. E. Jackson) will be relayed from the Wickham Park Bandstand.
9.30—Close down.

MONDAY, JULY 5.

Midday Session.

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

Afternoon Session.

- 3.30—A Musical Programme from the Studio.
4.15—News service supplied by The Telegraph.
4.30—Close down.

Early Evening Session.

- 6.25—Tune-in.
6.30—The Children's Session—Stories by The Sandman.
7—The Farmers' Session—Market Reports supplied by the Council of Agriculture. Lecture—Pigs at the National Show—be sure to see them!—Mr. E. J. Shelton (Instructor in Pig Raising).
7.20—News Service supplied by The Standard.
7.30—Close down.

Night Session.

- 7.45—Lecture Session—Motorists—Correct Lubrication Talk No. 12, by "Gargyle."
By Courtesy of the Greater Brisbane Council and City Organist, the Organ Recital provided by Mr. George Sampson, F.R.C.O. (City Organist), will be relayed from the Exhibition Hall.
9.20—From the Studio—Weather Information, officially supplied by the Commonwealth Weather Bureau; Announcements.
9.30—From the Band Room, A programme of music by the South Brisbane City Orchestra under the leadership of Mr. W. J. Ferguson.

- 10—From the Studio The Daily Mail News Service. Close down.

TUESDAY, JULY 6.

Midday Session.

- 12.55—Tune-in Signal.
12.58—Time Signal.
1—Market Reports, Stock Exchange, Weather, The Daily Mail News, The Daily Standard News.

Afternoon Session.

- 3.30—Programme from the Studio.
4.15—"The Telegraph" News.
4.30—Close down.

Early Evening Session.

- 6.25—Tune-in.
6.30—The Children's Session; Stories by Uncle Ben and Uncle Jim.

- 7—The Farmers Session; Lecture—What Organisation has done for the Sugar Industry, Mr. W. H. Doherty (Secretary, Queensland Cane Growers' Council).

- 7.20—News Service supplied by The Standard.
7.30—Close down.

Night Session.

- 7.45—Lecture Session.
8—A Concert from the Studio, including The White Rose Trio.
9.20—Weather Information officially supplied by the Commonwealth Weather Bureau.
9.25—Announcements.
9.30—From the Centennial Hall—By courtesy of the Lessee, a programme of dance music by the Centennial Hall Dance Orchestra, will be relayed from the Hall.
10—From the Studio The Daily Mail News Service. Close down.

WEDNESDAY, JULY 7.

Midday Session.

- 12.55—Tune-in.
12.58—Time Signal.
1—Market Reports, Stock Exchange, Weather, The Daily Mail News, The Daily Standard News.
1.20—Close down.

Afternoon Session.

- 3.30—A musical programme from the Studio. Mr. Northey Du Mourier, will deliver his Third Talk on Health Matters.
4.15—News service supplied by The Telegraph.
4.30—Close down.

Early Evening Session.

- 6.25—Tune-in.
6.30—The Children's Session—Stories by Little Miss Brisbane.
7—The Farmers' Session; Market Reports; Lecture—The Organised Marketing of Meat, No. 2. Mr. C. Sheehy (Council of Agriculture).
7.20—"The Standard" News.
7.30—Close down.

Night Session.

- 7.45—Lecture Session.
The whole of to-night's Programme will be supplied by "The Lyric Entertainers," and has been arranged by Messrs J. P. Cornwell and R. J. Robinson. Orchestra under the direction of Mr. A. Gray.
9.20—Weather Information officially supplied by the Commonwealth Weather Bureau; Announcements.
9.30—The Lyric Entertainers' Concert, continued.
10—The Daily Mail News Service; Close down.

THURSDAY, JULY 8.

Midday Session.

- 12.55—Tune-in signal.
12.58—Time Signal.
1—Market Reports, Stock Exchange information, weather information, "The Daily Mail" News, the "Daily Standard" News.
1.20—Close down.

Afternoon Session.

- 3.25—Tune-in.
3.30—A programme of Music from the Studio including Instrumental Duets by Mr. N. Gould and S. Jones.
4.15—"The Telegraph" News.
4.30—Close down.

Early Evening Session.

- 6.25—Tune-in.
6.30—The Children's Session—Stories by "The Sandman"
7—The Farmers Session; Market Reports; Lecture—The Control of Diseases and Pests in Orchards and Gardens, Mr. J. W. Home (Horticulturist, Queensland Agricultural High School, Gatton).
7.20—"The Standard" News.
7.30—Close down.

Night Session.

- 7.45—Lecture Session.
8—A Vocal and Instrumental Programme from the Studio.

BURGESS—"Assure Clear Reception"—BATTERIES

- 8.50—Weather Information officially supplied by The Commonwealth Weather Bureau.
- 9.55—Announcements.
- 9—From the Band Room—An impromptu programme of Music by the Greater Brisbane Municipal Concert Band (under the leadership of Mr. E. Jackson).
- 10—"The Daily Mail" News Service. Close down.

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FRIDAY, JULY 2.

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

- 11.30—G.P.O. Chimes.
- 11.31—Featuring a Steek Duo Art number.
- 11.40—"Advertiser" News Service.
- 12—G.P.O. Chimes.
- 12.1—News and Cable Service.
- 12.16—Featuring a Steek Duo Art number; The 5CL Studio Orchestra Selection; cornet solo; fox trot.
- 1—G.P.O. Chimes.
- 1.1—Relay from Adelaide Town Hall, Community Singing.
- 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcement.
- 2—G.P.O. Chimes.

Afternoon Session (3 to 5).

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

Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.
- 6.31—Bedtime Stories for the Children.
- 7.30—Stock Exchange, Market Reports and Station Announcements.
- 7.40—Sporting Talk by "Old Timer."
- 8—G.P.O. Chimes.
- 8—Relay from the Adelaide Town Hall. A special programme has been arranged to entertain the members of "Twinkler's" Boy's Club. The Mayor will preside and there will be other speeches by the Leading Citizens of South Australia, also humorous talks by Mr. Mills and a comedy interlude by King Electron and Uncle Radio. A programme of orchestral numbers interspersed with items by leading artists has been arranged.
- 9—G.P.O. Chimes.
- 9.1—Weather Reports.
- 10.15—Advertiser News Service; International Cricket; and Ships within wireless range.
- 10.30—The Studio Orchestra, continued.
- 11—G.P.O. Chimes; National Anthem.

SATURDAY, JULY 3.

Morning Session.

- 10.30—G.P.O. Chimes.
- 10.31—The 5CL Studio Orchestra will play: Overture; cornet solo; fox trot; selection; oriental; two Tagarini dances; waltz; instrumental trio; finale.
- 11.45—Station Announcements.

Afternoon Session.

- 1 to 5.30—Sporting Results when available. From the Studio—Football and Interstate Racing Results.

Evening Session.

- 6.30—G.P.O. Chimes.

- 6.31—Bedtime Stories for the Children.
- 7.30—Racing Results; Football Results and General Sporting Information.
- 8—G.P.O. Chimes.
- 8.1—Studio Concert of vocal and Instrumental items.
- 9—G.P.O. Chimes.
- 10.30—Studio Concert, continued.
- 11—G.P.O. Chimes; National Anthem; Close down.

SUNDAY, JULY 4.

Morning Session:

- 11—Relay from Elrie Street Methodist Church—Divine Service.

Afternoon Session.

- A classical programme of vocal and instrumental numbers composed by Handel.

Evening Session:

- 6.30—G.P.O. Chimes.
- 6.31—Sunday Story for the Children by Uncle Radio.
- 7—Relay from Parkside Baptist Church—Divine service.
- 8.30 (approx.)—Musical items from the Studio.
- 8.50—Talk on "Imagination" by Mr. P. H. Nicholls.
- 9.5—Holden's Silver Band, continued. Station Announcements; National Anthem.

MONDAY, JULY 5.

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

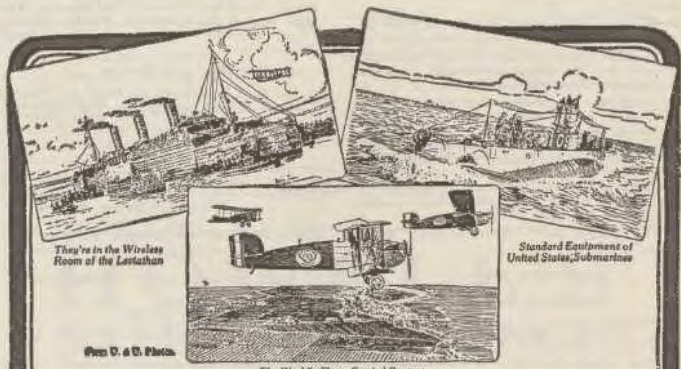
- 11.30—G.P.O. Chimes.
- 11.31—Featuring a Steek Duo Art number.
- 12—G.P.O. Chimes.
- 12.1—News and Cable Service.
- 12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play: Overture; cello solo; fox trot; Prelude in C minor; suite; waltz; serenade; ballet; finale.
- 1.35—S. C. Ward & 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.



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- 7.50—"The History of Leather," given by Mr. J. Alexander.
- 8.1—Relay from S.A.R. Institute, a programme of hand music by the S. A. Railways Band.
- 8.20—Twinkler's Original Humorous Talk (Mr. F. J. Mills).
- 8.40—Band Concert, continued.
- 9.1—Weather Reports.
- 9.1—Band Concert, continued.
- 9.1—(Approx.)—Advertiser News Service; International Cricket; ships within wireless range.
- 10.45—Station Announcements; To-morrow's Programme; National Anthem.

TUESDAY, JULY 6.

- 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.
- 12.10—Featuring a Steek Duo Art number; 50L Studio Orchestra will play; Selection; cornet solo; fox trot; The Dancer of Navarre; Ballet sentimental; waltz; 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—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.
- 7.30—Stock Exchange, Market Reports and Station Announcements.
- 7.40—Talk on Milling by Mr. Jacket.
- 8—G.P.O. Chimes.
- 8.1—Cadenza Quartette.
- 9.15 (approx.)—The Weather Reports.
- 9.3—Cadenza Quartette, continued.
- 10.30—Cadenza Quartette, continued.
- 10.35—"Advertiser" News Service.
- 10.50—Station Announcements; National Anthem.

WEDNESDAY, JULY 7.

- 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; 50L Studio Orchestra will play; Selection; cornet solo; fox trot; waltz; waltz; noveltie; reverie; selection; finale.
- 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis, and Station Announcements.
- Afternoon Session. (3 to 5).
- 3—G.P.O. Chimes.
- 3.1—Broadcast from Maple Leaf Cafe; Orchestral Numbers.
- 3.45—Serial Story from the Studio.
- 4—G.P.O. Chimes.
- 4.1—Relay from Arcadia Cafe; Orchestral numbers.
- 4.55—Stock Exchange Reports, General Information and Station Announcements.
- 5—G.P.O. Chimes.

Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.

- 6.31—Featuring Steek Duo Art Numbers.
- 7.30—Stock Exchange; Market Reports; Station Announcements.
- 7.40—Boy Scouts' Corner.
- 8—G.P.O. Chimes.
- 8.1—Fred Cavanett's Havanah Syncopators in a programme of dance music, interspersed with vocal numbers.
- 8.30—Science lecture arranged by Messrs. F. H. Faulding & Co.
- 8.40—Fred Cavanett's Havanah Syncopators—continued.
- 9.1—Weather Reports.
- 9.3—Havanah Syncopators, continued.
- 10.15—News Service.
- 10.30—Havanah Syncopators, continued.
- 11—G.P.O. Chimes; National Anthem; Good Night.

THURSDAY, JULY 8.

- Morning Session.
- 11.30—G.P.O. Chimes.
- 11.31—Featuring a Steek Duo Art number.
- 11.40—"Advertiser" News Service.
- 11.55—Vocalion Number.
- 12—G.P.O. Chimes.
- 12.1—"Advertiser" News Service.
- 12.16—Featuring a Steek Duo Art number; 50L Studio Orchestra will play; Overture; violin solo; fox trot; waltz; selection; cornet solo; oriental; Polish dance; 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 by Mr. A. M. Whittenbury.
- 7.30—Market Reports.
- 7.40—Poultry Talk by Mr. A. M. Whittenbury.
- 9—G.P.O. Chimes.
- 8.1—During the evening the Studio Orchestras will be heard in a series of classical numbers, interspersed with vocal items by Miss Grace Cussion, A.T.C.I., Mr. H. W. Durdin, and Mr. Vincent Murray.
- 9.3—Studio Orchestras, continued.
- 10.21—"Advertiser" News Service.
- 10.30—Studio Orchestra, Continued.
- 11—G.P.O. Chimes; National Anthem; Good Night.

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FRIDAY, JULY 2.

- Morning Session.
- 11—"The Mercury" News, Stock Market, Shipping, Commercial Intelligence, Weather In-

formation, Records from the Studio, 12—Time Signal.

Afternoon Session.

- 3—Musical Items from the Studio; Weather Forecasts.
- 3.30—Hobart Stock Exchange Quotations.
- 4—Time Signals.
- Early Evening Session.
- 7—Children's Corner by "Big Brother."
- Evening Session.
- 8—"The Mercury" Special Tasmanian News Service; Railway Auction Produce Sales; Weather Information.
- 8.5—Hobart Stock Exchange Quotations.
- 8.10—Weekly Gardening Chat by Mr. G. Nation.
- 8.20—"Sports Budget," supplied by Mr. T. W. Newton, of Hobart Sports Depot.
- 8.30—Concert from the Studio under the direction of Miss Ruby Piesse.
- 9.50—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements; National Anthem.

SATURDAY, JULY 3.

- Morning Session.
- 11—"The Mercury" News, Stock Market; Shipping, Commercial Intelligence; Weather Information and Sporting Anticipations; Records from the Studio.
- 11.45—Hobart Stock Exchange Quotations.
- 12—Time Signal.
- Early Evening Session.
- 7—The Children's Corner by "Big Brother."
- Evening Session.
- 8—"The Mercury" special Tasmanian News Service; Railway Auction Produce Sales; Weather Information and Sporting Results.
- 8.5—Hobart Stock Exchange Quotations.
- 8.10—"Come to Tasmanian Movement," by Alderman Valentine.
- 8.20—Palais de Dance Band, City Hall.
- 9.50—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements; National Anthem.

SUNDAY, JULY 4.

- Evening Session.
- 7—Service from Melville St. Church, Hobart. Preacher, Rev. Mansfield Bennett.
- 8.45—Concert from the Studio. Miss Frances Evans, contralto; Mr. Albert Gallop, baritone; Mr. W. E. Fuller, Recital "The Glow's Prayer"; Mr. Chas. G. Tunnari, baritone; Miss Ruby Piesse, accompanist.
- 9.45—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements. National Anthem.

MONDAY, JULY 5.

- Morning Session.
- 11—"The Mercury" News; Stock Market; Shipping; Commercial Intelligence; Weather Information; Records from the Studio.
- 12—Time Signal.
- Afternoon Session.
- 3—Musical Items from the Studio; Weather Information.
- 3.30—Hobart Stock Exchange Quotations.
- 4—Time Signal.

Early Evening Session.

- 7—Children's Corner by "Big Brother."
- Evening Session.
- 8—"The Mercury" Special Tasmanian News Service; Railway Auction Produce Sales; Weather Forecasts.
- 8.5—Hobart Stock Exchange Quotations.
- 8.10—Professor A. B. Taylor, M. A., "Victorian Prose."
- 8.30—Miss V. MacArthur, violinist; Miss C. Cullinane, elocutionist; Mr. Roy Sutcliffe, cornet; Mr. Jack Broadbent, tenor; Mr. Harwood, baritone.
- 9.50—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements. National Anthem.

TUESDAY, JULY 6.

- Morning Session.
- 11—"The Mercury" News; Stock Market; Ship-

ping; Commercial Intelligence; Weather Information; Records from the Studio.
12—Time Signal.

Afternoon Session.

3—Musical Items from the Studio; Weather Information.

5.30—Hobart Stock Exchange Quotations.
4—Time Signal.

Early Evening Session.

7—Children's Corner by "Big Brother."
7.15—The Adventures of George, the Bookshelf Cat. "George Leaves Home" by Aunt Stella.

Evening Session.

8—"The Mercury" Special Tasmanian News Service; Railway Auction Produce Sales; Weather Information.

8.5—Hobart Stock Exchange Quotations.
8.10—Literary Lapses and Library Lists, by Mr. W. E. Fuller.

8.30—Musical Items from the Studio.
9.50—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements. National Anthem.

WEDNESDAY, JULY 7.

Morning Session.

11—"The Mercury" News; Stock Market; Shipping; Commercial Intelligence; Weather Information; Records from the Studio.
12—Time Signal.

Afternoon Session.

3—Musical Items from the Studio; Weather Information.

5.30—Hobart Stock Exchange Quotations.
4—Time Signal.

Early Evening Session.

7—Children's Corner by "Big Brother."
7.15—Story from Illustrated Tasmanian Mail.

Evening Session.

8—"The Mercury" Special Tasmanian News Service; Railway Auction Produce Sales; Weather Information.

8.5—Hobart Stock Exchange Quotations.
8.10—"Camp Fire Nights," by 4th Hobart Company—Girl Guides.

8.30—Palais de Dance Band, City Hall.
9.50—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements. National Anthem.

THURSDAY, JULY 8.

Morning Session.

11—"The Mercury" News; Stock Market; Shipping; Commercial Intelligence; Weather Information; Records from the Studio.
12—Time Signal.

Afternoon Session.

3—Musical Items from the Studio; Weather Information.

5.30—Hobart Stock Exchange Quotations.
4—Time Signal.

Early Evening Session.

7—Children's Corner by "Big Brother."
7.15—The Adventures of George, the Bookshelf Cat. "George has his portrait painted" by Aunt Stella.

Evening Session.

8—"The Mercury" Special Tasmanian News Service; Railway Auction Produce Sales; Weather Information.

8.5—Hobart Stock Exchange Quotations.
8.10—Weekly Talk on Physical Culture by Mr. George Collins.

8.30—A Night with the University Lads.
9.50—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements. National Anthem.

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FRIDAY, JULY 2.

Midday Session.

12—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. British Official Wireless News from Rugby. Reuter 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 N.S.W. Ocean forecast. River Reports.

1—Time Signal.
1.1—Studio Orchestra.
1.10—Stanley Adams, violin.
1.15—Edgar Harris, tenor.
1.23—Studio Orchestra.
1.33—Stanley Adams, violin.
1.39—Edgar Harris, tenor.
1.46—Studio Orchestra.
2—Close down.
2.40—Public Schools Football—Melbourne Grammar School versus Geelong College—"The Captain." The Teams; The Ground; The Marks; Weather Conditions; Topical Remarks.
2.45—The Bounce.

Afternoon Session.

Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
3.1—Studio Orchestra.
3.10—Public Schools Football—"The Captain." Quarter-Time Interval. Story of first quarter's play. The Scores.
3.15—Miss Frances Fraser, How the World Became Modern.
3.30—Veronica Cox, soprano.
3.40—Public Schools Football—"The Captain." Half-Time Interval; Story of second quarter's play. The Scores.
3.45—C. Richard Chugg, flute.
3.55—Public Schools Football—"The Captain." Third Quarter Starts. News of any special incidents in the interval. The bounce.
3.57—Studio Orchestra.
4.7—An Fais—of Messrs. Buckley & Nunn Ltd.—Fashion Talk.
4.20—Public Schools Football—"The Captain." Three-Quarter-Time Interval. Story of third quarter's play. The score.
4.25—Veronica Cox, soprano.
4.32—C. Richard Chugg, flute.
4.39—Studio Orchestra.
4.50—Public Schools Football—"The Captain." Final Bell. Story of last quarter's play. Best Players. Final Scores.
4.55—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Herald" News Service. Stock Exchange information.
5—Close down.

Evening Session.

5.45—Children's Hour. Answers to letters and birthday greetings.
6—Stories by Billy Bunny; Littlest's Fairy Story. The Lost Princess; Black Beauty.
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 Synopsis. Shipping Movements.
6.57—Stock Exchange information.
7.2—Fish Market Reports by J. R. Borrett Ltd.
7.4—Market Reports by the Victorian Producers' Co-operative Co. Ltd. Haymarket Sales. Poultry, grain, chaff,

hay, straw, jute, dairy produce, potatoes and onions.

Night Session.

7.30—Under the auspices of the Agricultural Department—Mr. H. A. Mullett, Agricultural Superintendent, Cultivation of Wheat—Fallowing Methods.
7.40—Mr. Harry Burcher, Producer of the new Musical Comedy, "Tell Me More" will speak on "Theatrical Productions."
8—Collingwood Citizens Band.
8.10—"The Captain" — School Life and School Sport.
8.30—Organ Recital by Dr. Floyd, Organist, St. Paul's Cathedral, transmitted from the Cathedral.
9—Mr. R. A. Broinowski, "Marco Polo."
9.20—Collingwood Citizens Band.
9.30—Harmonists' Male Duo, Tom Masters and Robert Gilford.
9.47—Collingwood Citizens Band.
9.57—Herbert Sanderson, baritone.
10.4—J. Robinson, cornet solo.
10.11—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" News Service. British Official Wireless News from Rugby. Meteorological information.
10.55—Announcements, etc.
11—God Save the King.

SATURDAY, JULY 3.

Morning Session.

11—Sonora Recital.
11.10—Harold Rodgers, Organ.
11.20—Sonora Recital.
11.30—Harold Rodgers, pianoforte solo.
11.40—Sonora Recital.
11.50—Harold Rodgers, Organ.
12—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 Services. Shipping Intelligence. 12.45—Stock Exchange information. 12.50—Meteorological information. Weather Forecast for Victoria, Tasmania, South Australia, and N.S.W. Ocean Forecast. River Reports.
1—Result of Maiden Hurdle, V.R.C., Flemington's Time Signal.
1.1—Studio Orchestra.
1.10—Billie Jones, soprano.
1.17—Agnes Fortune, pianoforte solo.
1.25—Studio Orchestra.
1.35—Billie Jones, soprano.
1.42—Result of Myroff Handicap, V.R.C., Flemington.
1.43—Reginald Bradley, violin.
1.50—Studio Orchestra.
2—Close down.
2.35—Result of Kensington Steeplechase, V.R.C., Flemington.

Afternoon Session.

3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
3.1—Studio Orchestra.
3.15—Result of Grand National Hurdle, V.R.C., Flemington.
3.16—Studio Orchestra.
3.50—Result of Iramoo Welter, V.R.C., Flemington.
3.53—Studio Orchestra.
4.30—Result of Winter Handicap, V.R.C., Flemington.
4.31—The Studio Orchestra.
5—Close down.

Evening Session.

5.45—Sporting Results.
6—Children's Hour; Mary Gumleaf; Poems: The Christening; Disobedience. Story for the Littlest ones. What happened to Sharp Ears. Girls and Boys, Hansel and Gretel with Music.
6.40—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.

- "Argus" and "Herald" News Services. Sporting Results. 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. Borrett Ltd.
- 7.4—Market Reports by the Victorian Producers' Co-operative Co. Ltd.: Grain, chaff, hay, straw, jute, dairy produce, potatoes and onions.
- Night Session.
- 7.20—Frederick Chapman.
- 7.40—Dr. J. A. Leach, Play and Displays of Birds.
- 8—A Popular Concert arranged specially for broadcasting, transmitted from the Auditorium, Collins Street, Melbourne.
- 10.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" News Service. Meteorological Information. British Official Wireless News from Rugby. Sporting Results—Races, Football, Metropolitan Soccer League, Metropolitan Amateur Association Lacrosse.
- 11—God Save the King.

SUNDAY, JULY 4.
Morning Session.

- 10.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
- 10.55—Express Train Information.
- 11—Service from First Church of Christ, Scientist, St. Kilda Road.
- 12.15—British Official Wireless News. Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd.

Afternoon Session.

- 2.55—Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd.
- 3—Pleasant Sunday Afternoon Service, Central Mission Wesley Church, conducted by Rev. J. H. Cain.
- 4.30—Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd.

Evening Session.

- 5.45—Children's Hour. Billy Bunny Stories, The Lost Garden; Loveliest Lily; Answers to letters and Birthday Greetings.
- 6.45—Close down.

Night Session.

- 6.55—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
- 7—Service from St. Bartholomew's Church of England, Burnley.
- 8.30—Coburg City Band.
- 8.40—Margery Hicklin, soprano.
- 8.47—Coburg City Band.
- 8.52—Mr. Norman Bradshaw, tenor.
- 8.57—Mr. J. Howlett Ross, "American Independence Day."
- 9.17—Lance Fairfax, baritone.
- 9.24—Coburg City Band.
- 9.30—Margery Hicklin.
- 9.37—"Argus" News Service. Latest Australian Cricket Eleven scores by courtesy of Reuters Ltd.
- 9.44—Lance Fairfax, baritone.
- 9.51—Coburg City Band.
- 10—God Save the King.

MONDAY, JULY 5.

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 services. Shipping Intelligence.
- 12.45—Stock Exchange Information.
- 12.50—Meteorological Information. Weather Forecasts for Victoria, Tasmania, South Australia and New South Wales. Ocean Fore-

- cast. River Reports.
- 1—Time Signal.
- 1.1—Studio Orchestra.
- 1.10—Rose Reaco, Siffleur.
- 1.20—Studio Orchestra.
- 1.30—Community Singing, by the Students of the University of Melbourne, transmitted from the Club House, University Grounds, 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: Travel and Adventure during Sojourn in Persia.
- 3.25—Studio Orchestra.
- 3.35—C. Richard Chugg, flute solo.
- 3.43—Alma Horlock, soprano.
- 3.50—Miss Flora Pell, Supervisor of Domestic Arts, Education Department—Domestic Economy.
- 4.5—Studio Orchestra.
- 4.15—C. Richard Chugg, flute solo.
- 4.22—Alma Horlock, soprano.
- 4.29—Studio Orchestra.
- 4.45—"Herald" News Service. Stock Exchange information. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
- 5—Close down.

Evening Session.

- 5.45—Children's Hour, Answers to letters and Birthday Greetings.
- 6—Little Miss Kookaburra will tell of the pranks of Cyril and Norman on board ship, and a story for little girls entitled, Dorothy Buttercup and her dolls.
- 6.40—Latest Australian Eleven Scores, by courtesy of Reuters Ltd. "Argus" and "Herald" News Service. Reuters and the Australian Press Association Cables.

- 6.53—Weather Synopsis; Shipping Movements.

- 6.57—Stock Exchange Information.
- 7.2—Fish Market Report by J. R. Borrett Ltd.

- 7.4—River Reports.
- 7.6—Market Reports by the Victorian Producers Co-operative Co. Ltd., Haymarket Sales: Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions. Market prices of Oranges and Lemons by the Victorian Central Citrus Association Pty. Ltd.

Night Session.

- 7.20—Under the auspices of the Develop Australia League—Mr. I. J. Waldron, "Central Australia—Part 2."
- 7.40—Under the auspices of the Department of Agriculture—Mr. N. A. Bowman, Sheep and Wool Expert, "Culling and Classing Sheep."
- 8—Studio Orchestra.
- 8.10—Mary Mack, contralto.
- 8.17—Hedley and Bartlett, Comedy Musicians on various Musical Instruments.
- 8.27—William J. Caffrey, Irish Humorist.
- 8.34—Reginald Bradley, violinist.
- 8.40—British Official Wireless News from Rugby.
- 8.46—Dan Collins, tenor.
- 8.53—Studio Orchestra.
- 8.58—One Act Play—"The Changing."
- 9.27—Studio Orchestra.
- 9.37—Mary Mack, contralto.
- 9.44—"Herald" News Service. Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd.
- 9.49—Hedley and Bartlett, Comedy Musicians on various musical instruments.
- 9.56—William J. Caffrey, Irish humorist.
- 10.3—Walter Smith, cornet solo.
- 10.15—Meteorological Information.
- 10.15—Studio Orchestra.
- 10.25—Dan Collins, Tenor.
- 10.32—Announcements, etc.
- 10.40—Studio String Orchestra.
- 11—God Save the King.

TUESDAY, JULY 6,
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 Services. Shipping Intelligence.
- 12.45—Stock Exchange information.
- 12.50—Meteorological Information; Weather Forecasts for Victoria, Tasmania, South Australia, and New South Wales; Ocean Forecast; River Reports.

1—Time Signal.

- 1.1—Studio Orchestra.
- 1.10—Stanley Adams, violin.
- 1.17—Elsie Bradshaw, soprano.
- 1.24—Studio Orchestra.
- 1.34—Stanley Adams, violin.
- 1.41—Elsie Bradshaw, soprano.
- 1.48—Studio Orchestra.
- 2—Close down.

Afternoon Session.

- 3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
- 3.1—Studio Orchestra.
- 3.10—Joe Delaney, tenor.
- 3.17—Bessie Gannon, violin.
- 3.24—Matron Morland, "Infant Welfare."
- 3.34—Studio Orchestra.
- 3.44—Lilian Crisp, soprano.
- 3.51—Dorothy Roxburgh, viola solo.
- 3.59—Joe Delaney, tenor.
- 4.6—An Fuit, Fashion Talk.
- 4.21—Studio Orchestra.
- 4.31—Lilian Crisp, soprano.
- 4.39—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.

- 5.45—Children's Hour. Answers to Letters and Birthday Greetings. Stories by Mary Gannad. Poems: Rice Pudding; If I were a King. Story for the Littlest ones, Faithful Heart. Boys and Girls: A Day in the Country with Peter Boomarang and Mary Gannad.
- 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 Synopsis; Shipping Movements.
- 6.58—Stock Exchange Information.

- 7.2—Fish Market Reports by J. R. Borrett Ltd.

- 7.4—River Reports.
- 7.6—Market Reports by the Victorian Producers Co-operative Co. Ltd.; Haymarket Sheep Sales, Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

Night Session.

- 7.20—Town Planning—Alderman Stapley, Chairman of the Town Planning Commission, "A pure milk supply for Melbourne."
- 7.40—Under the auspices of the University Extension Board. Mr. W. Kerry, M. A., Senior Lecturer in Classics at the University; "Homer—The First Greek Poet."
- 8—Prahran City Band.
- 8.10—Lawson Graham, tenor.
- 8.17—A Short Lecture on "Schumann," by Mr. Fritz Benalcke Hart.
- 8.17—Prahran City Band.
- 9.30—British Official Wireless News from Rugby. Meteorological Information.
- 9.34—Transmission from St. Leonard's Literary Guild, Brighton Beach.
- 10—Latest Australian Cricket Eleven scores, "Argus" News Service.
- 10.8—Dr. Loftus Hills, Popular Science.
- 10.23—Lawson Graham, tenor.
- 10.30—A. E. Groves, cornet solo.
- 10.35—Prahran City Band.

- 10.45—Announcements, etc.
10.49—Prabran City Band.
11—God Save the King.

WEDNESDAY, JULY 7.

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—Jack O'Hagan, baritone.
1.8—Ham Johnson's Monte Carlo Orchestra.
1.30—Jack O'Hagan, baritone.
1.97—Ham Johnson's Monte Carlo Orchestra.
2—Note: Result of Keilor Hurdle, V.R.C., Flemington, will be given at 1.30. Close down.
2.15—Result of Two-Years-Old Handicap.
2.45—Result of Trial Steeple.

Afternoon Session.

- 3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
3.10—Studio Orchestra.
3.10—Miss S. V. Parker: Ceylon Cooking.
3.25—Result of Steeplechasers' Flat Race.
3.26—Roy Warren, bass.
3.32—Hedley and Bartlett, comedy musicians on various musical instruments.
3.42—Joe Delaney, tenor.
3.52—Studio Orchestra.
4.2—Result of Draybrook Flat Hurdle.
4.3—Hedley and Bartlett, comedy musicians.
4.10—Roy Warren, bass.
4.17—Studio Orchestra.
4.27—Joe Delaney, tenor.
4.34—Sister Peck: Mothercraft.
4.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. Result of Goodpark Walter. "Herald" News Service. Stock Exchange information.

Evening Session.

- 5.45—Bobby Blacomm will answer letters and give birthday greetings.
6—Musical programme for children arranged by Mr. Fritz Hart.
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 Synopsis. Shipping movements.
6.58—Stock Exchange information.
7.2—Fish Market Reports by J. R. Boretz Ltd.
7.4—River Reports.
7.6—Market Reports by the Victorian Producers' Co-operative Co. Ltd.: Haymarket Sheep Sales. Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions. Market prices of Oranges and Lemons by the Victorian Central Citrus Association Pty. Ltd.

Night Session.

- 7.20—Under the Auspices of the Department of Agriculture: Mr. R. Crewe, Exports Supt.—Market Reports and Comments.
7.40—Mr. H. C. Slocombe: Photography in the Home.
8—Lawson Graham, tenor.
8.7—Ardeleano Hayman: Task of building St. Paul's Spire.
8.15—University Conservatorium Orchestral Concert (conductor, Bernard Heinz), transmitted from the Audi-

- torium. Interval. Capt. Peters: Books, Wise and Otherwise.
10.15—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Herald" News Service.
10.22—Tasman Tiernan, cello solo.
10.27—Lawson Graham, tenor.
10.34—Tasman Tiernan, cello solo.
10.40—Agnès Fortuna, pianoforte solo.
10.50—Meteorological information, Announcements, etc.
11—God Save the King.

THURSDAY, JULY 8.

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 Services.
12.15—Community Singing under the auspices of Community Singers and Concert Goers' Association, transmitted from Assembly Hall, Collins St., Melbourne.
1.45—Stock Exchange Information; Meteorological information; Weather Forecast for Victoria, Tasmania, South Australia, and New South Wales.
2—Close down.

Afternoon Session.

- 3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
3.1—Studio Orchestra.
3.10—Lillian Nowell, soprano.
3.17—Reginald Bradley, violin solo.
3.25—Quartette (pianoforte & strings) by Mozart.
3.35—Hedley and Bartlett, comedy musicians, on various musical instruments.
3.42—Mary Gumleaf: The New Woman (to be a success!)
4.2—Studio Orchestra.
4.12—Lillian Nowell, soprano.
4.19—Dorothy Roxburgh, viola solo.
4.25—Hedley and Bartlett, comedy musicians.
4.32—Two Violins and Piano.
4.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Herald" News Service. Stock Exchange information.
5—Close down.

Evening Session.

- 5.45—Children's Hour. Answers to letters and birthday greetings.
6—Mary Gumleaf. Poems: The Moon Path. The Pelican's Party. Story for the little ones; The Story of White Pet. Girls: A Talk on Girl Guides. For the boys: Tom Proctor's Queer Accident.
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 synopsis. Shipping movements.
6.58—Stock Exchange information.
7.2—Fish Market Reports by J. R. Boretz Ltd.
7.4—River Reports.
7.6—Market Reports by the Victorian Producers' Co-operative Co. Ltd. Haymarket Sales. Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

Night Session.

- 7.20—Rev. Kenneth Henderson: Personal Impressions of the Great.
7.40—Mr. J. Hewlett Ross: John Forrest, Explorer and Statesman.
8—Agnès Fortuna, pianoforte solo.
8.10—Tod Collins: Football Talk, Saturday's Prospects.
8.30—3LO Dance Orchestra.

- 8.40—Jack O'Hagan, baritone.
8.47—3LO Dance Orchestra.
8.57—Shirley Cooke, soubrette.
9.4—3LO Dance Orchestra.
9.14—Put out all your lights and listen.
9.50—3LO Dance Orchestra.
9.40—British Official Wireless News from Rugby. Meteorological information.
9.48—Hedley and Bartlett, comedy musicians.
9.55—Jack O'Hagan, baritone.
10.2—3LO Dance Orchestra.
10.12—Shirley Cooke, soubrette.
10.19—3LO Dance Orchestra.
10.29—"Argus" News Service. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
10.37—3LO Dance Orchestra.
10.47—Hedley and Bartlett, comedy musicians.
10.54—3LO Dance Orchestra.

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FRIDAY, JULY 2.

Morning Session.

- 11.30—The British Official Wireless Press, received from Rugby Super Wireless Station, England; Express Train information; 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—Close down.

Afternoon Session

- 2.30—Hoyt's Premier Orchestra, under the direction of Miss Ella Brien, 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. K. Standley Haines (of Brunning's Pty. Ltd.) will speak to the Children on Marine Plans.
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.
Early Evening Session.
6.45 to 7.30—The Children's Corner by Uncle Rnd.
8—Time Signal from the G.P.O., Elizabeth St., Melbourne; Studio barometer and thermometer readings. The Wireless Press. Result of Billiard Tournament at Tattersall's Club.
8.8—Racing Anticipations by "Field Glasses."
8.18—Mr. R. Standley Haines will give his weekly Gardening Talk.
8.33—Miss Freda Stevens (soprano).
8.40—Mr. E. G. Coles (baritone).
8.47—Mr. Roy Ramage (cello solo).
8.55—Miss Hazel Ralph (mezzo-soprano).
9.2—Mr. J. Lloyd Jones (electronicist).
9.10—Mrs. Hilda Rowe (soprano).
9.17—Miss Cecily Walden (contralto).
9.24—Mr. Roy Ramage (cello solo).
9.29—Miss Freda Stevens (soprano).
9.37—Mr. J. Lloyd Jones (electronicist).
9.45—Miss Hilda Rowe (soprano).
9.53—Mr. Roy Ramage (cello solo).
10—Time Signal from the G.P.O., Elizabeth St.; Studio barometer, and thermometer readings; the "Age" News Bulletin exclusive to 3AR. Result of Billiard Tournament at Tattersall's Club.
10.5—Hoyt's Premier Orchestra.



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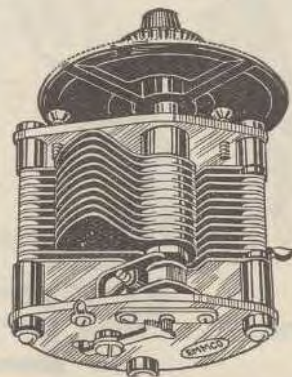
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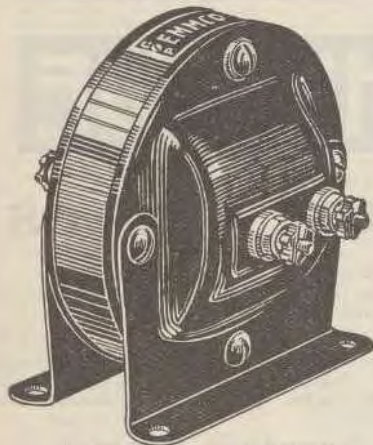
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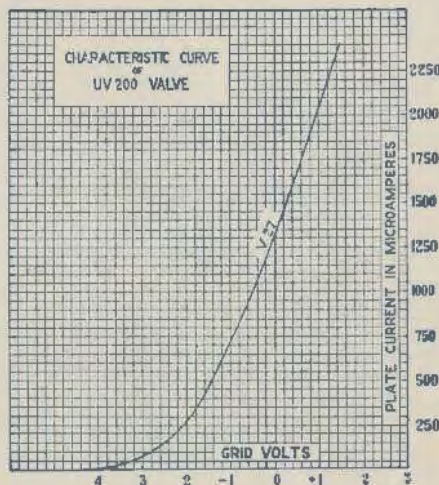
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