

WIRELESS WEEKLY

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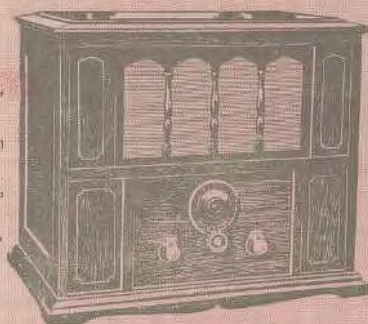
VOL. 8. No. 8.

FRIDAY, JUNE 18, 1926.

3D

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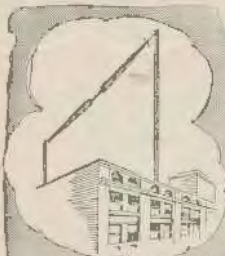
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A tuned radio frequency set with five tubes, encased in an exceptionally handsome cabinet with built-in Loud Speaker—the famous Magnavox Quality Loud Speaker. It has range, it has selectivity and gives reproduction of remarkable quality.

“In Harmony with the Home and Air—Magnavox”

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TO THE
“All Australian”
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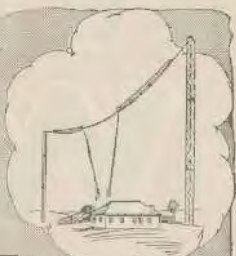
3A.R. MELBOURNE



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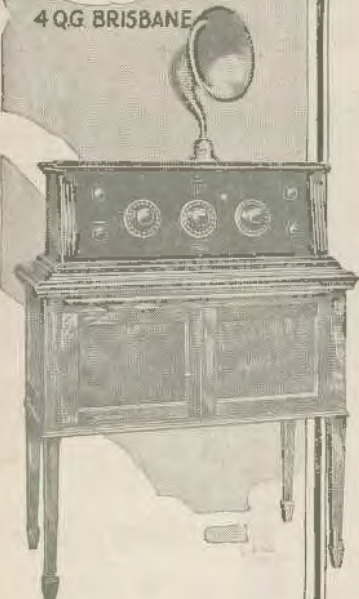
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RADIO RECEIVERS
Lay Australia at your finger-tips.

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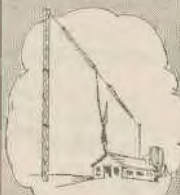
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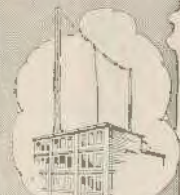
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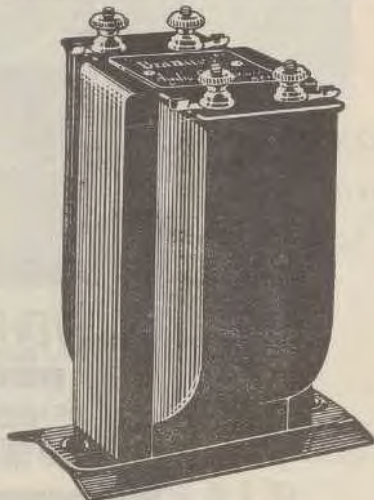


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Any Radio Goods
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.001 and .0015 fixed condensers, each	0	0
3 mer. Grid Leaks, each	0	0
3 in. Bakelite knobs and dials, 280 degree calibration, each	0	6
Varcoupler, wound for 4100 metres, each	3	0

On View, 2 p.m. to 5 p.m.
 Saturdays, 9 a.m. to Noon.

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

De Forest Valves were the first made.

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IMPROVED COMPONENTS.

"What brand of transformer or condenser do you recommend for this purpose?"

That is a question we are frequently asked, both personally and by mail, and one which it is against our policy to answer in any other way than to refer the inquirer to the advertising columns of this paper. A little reflection upon broadcasting as it is to-day—or perhaps we should say the wireless industry as a whole—will show that in most cases the question is entirely unnecessary.

Wireless, of course, like any other established industry, has passed through a number of stages, but ever on the upward trend. It has been the happy hunting ground of the junk manufacturer, the cheap-jack dealer, and the get-rich-quick. The quality of the broadcasting of three or four years ago would not be tolerated at the present day.

Improvements in the microphone, in the modulation system, and the studio rapidly lifted the quality of transmission from the mediocre stage to its present high standard, and it was not long before the manufacturer realised that purity of reception rested not only with the excellence of the broadcasting itself, but also with the quality of the parts used in the receivers.

A comparison of the accessories turned out to-day and those marketed a short three years ago shows that every conceivable piece of apparatus sold to-day is as nearly perfect as the manufacturer can possibly make it. This is noticeable not only in British and American made articles, but also in the parts turned

out by the Australian concerns which are turning their attention to wireless.

Mass production methods, competition, and a universal public demand for better reception have resulted in the adoption of improved machinery, higher engineering standards, better materials, and a consequent supply of wireless apparatus more reasonably priced but far more efficient than was the case when broadcasting was a mere novelty.

Take, for instance, the straight line frequency condenser. Its advantage is that stations separated by equal frequencies may be tuned-in at equal increased or decreased degrees on the dial. Those stations whose tuning was dangerously close on the older type of condenser may not be separated by quite a number of degrees with perfect ease.

Losses due to the imperfect insulation of valve sockets made of inferior material have been almost entirely cut out by the use of such materials as high grade bakelite, radium, porcelain, and pyrex glass. The old type of transformer, with its loose laminations, poor curve, inferior wire, and poor insulation, has given way to the wonderfully efficient instrument manufactured to-day.

And so we could go on over the whole range of apparatus comprising modern receivers, and tell the same story. There is no room on the market for inferior goods; in the main, what is offered to the public represents the best that engineering skill and up-to-date methods can produce.

A. W. WATT.

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IS THE "ROLLS ROYCE" OF RADIO

NO EXPERIMENT ABOUT THE BRANSTON

IT IS THE TRIED AND PROVED SUPER-HET.
7 Valves Reflexed give the power of 10.

Interstate reception on loop at full speaker strength

NO AERIAL OR EARTH WIRES REQUIRED

Build your own—we will show you how, and give free service until working. If you cannot build it, see us—we will advise you.

Come and Hear it on the Stations, including 2FC

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ARRIVED THE FAMOUS CROSLEY SETS



Mass production makes Crosley
The World's Greatest Value in 3
Valve Receivers, bringing power-
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We can supply all descriptions of wireless accessories at shortest notice.

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For further particulars, write, call, or 'phone

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Adding a Stage of Radio to the "All Australian" Receiver

Many very excellent reports have been received from both country and city readers concerning the results obtained with the "All Australian" Receiver, described in "Wireless Weekly" dated February 19th, 1926. The addition of a stage of radio as described in this issue will, we feel sure, be very helpful to country readers who wish to improve their daylight range, and also to city readers who desire to increase the selectivity of the ordinary three circuit tuner for Interstate reception. Many broadcast listeners have the incorrect idea of radio frequency amplification in thinking that it will increase the volume of local stations. It does not. It does, however, increase the range and selectivity of the receiver.

That well known saying about killing two birds with one stone can be applied to this article, since we are going to describe the construction of a tuned radio frequency unit, which may be added to any suitable receiver, and also show the details necessary for building the complete four-valve receiver.

Readers who understand circuit diagrams will readily recognise the similarity of the completed hook-up with that of the Browning-Drake Receiver, with the exception that the first valve is not neutralised and plug-in coils are used in lieu of the ordinary type of Regensformer. The receiver is equally efficient on all wavelengths, which makes it particularly suitable for Australian conditions.

Those readers who are now using the receiver described in "Wireless Weekly" dated February 10th, or who wish to add this unit to any other hook-up, will need the following materials:—

- 1 Radion panel—8 x 6 x 3/16 inches.
- 1 Baseboard—8 x 5 x 3/4 inches.
- 1 2-coil holder.
- 1 .0005 or .001 condenser.
- 1 Potentiometer (300 ohms).
- 1 Rheostat (to control valves used).
- 1 Valve holder.
- 1 Valve.
- 4 Terminals.
- 5 Lengths of busbar wire.

Honeycomb or Spiderweb coils: 1/25, 2/50, 2/75, 1/100, 2/150, and 1/200.

Method and Order of Construction.

Drill and mount the panel components in the position corresponding to the back of panel view, Fig. 1. Next mount the valve holder on the baseboard, after which the baseboard and panel should be secured together and the wiring carried out in the numerical order shown.

No. 1 and 2 link the aerial and earth terminals with the top and bottom connections of the first coil holder, respectively. No. 3 links the lower connection of the second coil holder with the moving plate connection of the variable condenser. No. 4 is a short link soldered from No. 3 to No. 2.

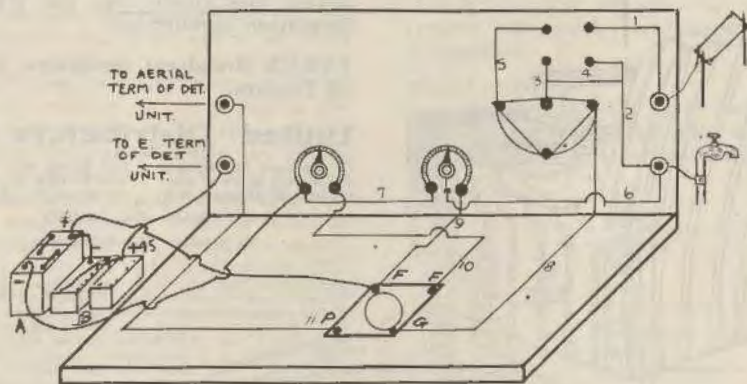
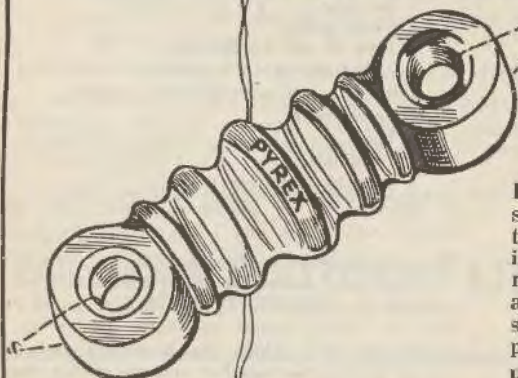
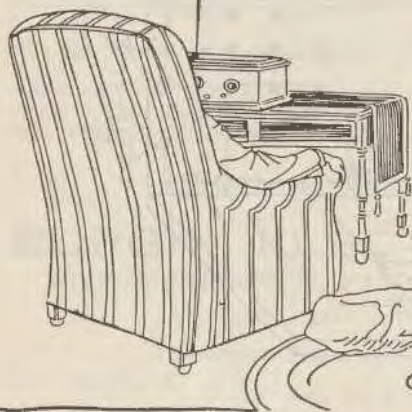


Fig. 1.—Back Panel of R.F. Unit.

THE IMPORTANCE OF PERFECT INSULATION EMPHASISED



PYREX Insulators



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.

PYREX does not absorb water or attract moisture, and its smooth permanent surface prevents the collection of dust. It is mechanically strong and light in weight, and undoubtedly is the best insulating material obtainable.

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

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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. 5 links the top connection of second holder to the fixed plate connection of variable condenser. No. 6 connects the moving arm of potentiometer with the earth terminal. No. 7 joins together the two left-hand terminals of the rheostat and potentiometer. No. 8 is another connection taken from the fixed plate connection of variable condenser to the G terminal of valve. No. 9 is the link shown

the Browning Drake Receiver, with the added advantage that its wavelength range is considerably increased. Interference to neighbouring receivers, although not entirely eliminated, is considerably reduced by adding this unit.

The following materials are necessary to make up the complete four-valve receiver in one unit:—
1 Panel—24 x 9 x 3/16 inches.

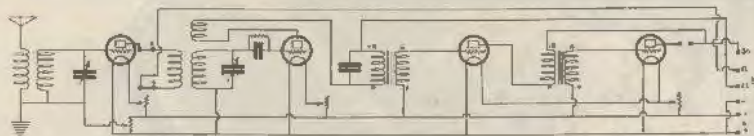


Fig. 2.—Circuit Diagram.

between the left-hand F terminal of valve holder and the right-hand terminal of potentiometer. The final connection, No. 11, links the P of valve holder to the aerial terminal of detecting unit.

The battery connections are made as shown, common "A" and "B" batteries being used for the H.F. unit, detector and amplifier valves.

Warning.

Where this unit is added to any receiver which has the lower connections of existing primary and secondary joined together, as is the case with the "All Australian" Receiver, the link which joins the two coils together must be broken or portions of the "B" battery will be short circuited. See Fig. 2. In other words, it is not possible to add this amplifier to any receiver which has no separate primary coil. From this, readers will readily see that it cannot be added to the single circuit regenerative receiver, better known as the P.I., unless a separate coil is added, by replacing the two coil holder with a 3-coil one, or by adding an extra coupling plug.

We have refrained from publishing a coil table for use with this receiver, as many readers are undoubtedly in possession of various sized variable condensers, which they can efficiently use in this unit or the completed receiver. Any sized variable condenser is suitable as long as it will cover the desired tuning range, together with the coils you have. Describing the circuit it will be readily seen that the primary or aerial coil of the H.F. unit is aperiodic, the grid or secondary coil is tuned; likewise the primary circuit of the H.F. transformer (which is made up by the three coil holder) is also aperiodic. The secondary is again tuned, and regeneration is obtained by feeding back energy in the well known tickler coil fashion. In operation, this receiver is quite as sensitive as

- 1 Baseboard—24 x 7 x 1 inches.
 - 1 Two-coil holder.
 - 1 Three-coil holder.
 - 2 Variable condensers.
 - 1 Potentiometer.
 - 3 Rheostats.
 - 4 Valve holders.
 - 4 Valves.
 - 2 Audio transformers.
 - "A" and "B" batteries.
 - 1 Grid condenser and 2 megohm leak (or variable leak).
 - 1 .001 fixed condenser.
 - Honeycomb or Spiderweb coils, 1/25, 2/35, 2/50, 2/75, 2/100, 1/200 turns.
 - Screws, busbar wire, etc.
- Fig. 4 shows the popular back of panel view, showing wiring. We hasten to explain to readers who do not understand the circuit diagrams that, if they copy wire for wire, the unit or complete receiver will operate satisfactorily immediately it is completed.

Method of Tuning.

Assuming that two .0005 variable condensers are used for tuning, the following coils will be required in all the lower wave stations: Two coil

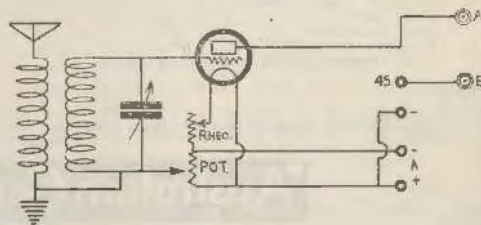


Fig. 3.—Circuit of R.F.

INSIST ON

RADIOTRON



UV-199 & UX 201A

*for greater volume, longer range
and clarity of reception*

None Genuine Without the R.C.A. Label

	UX201A	UV199.
Fil. Volts	5.0 volts.	3.0 volts.
Fil. Current	0.25 amps.	0.08 amps.
Detector Plate Voltage	20-45 volts.	20-15 volts.
Amplifier Plate Voltage	40-120	40-80 volts.
Grid Leak	2-9 mega.	2-9 megs.
Grid Condenser00025	.00025
Amplifier Constant	8	6.25
Plate Current in Milliamps	40 volts .. 1.0	20 volts .. 0.25
	60 volts .. 2.8	40 volts .. 1.1
	80 volts .. 4.8	60 volts .. 2.4
	90 volts .. 6.0	80 volts .. 3.0
	With	With
	Zero	Zero
	Grid	Grid
	Bias.	Bias.

Plate Current Consumption decreases with the use of a 4 1/2 volt Grid Bias Battery, obtainable from all Radio Dealers and Stores, and

Australian General Electric Co Ltd.

Wentworth Avenue and Goulburn Street, Sydney.
27 Grenfell Street, Adelaide.
Hunter Street West, Newcastle.

Corner Queen and Little Collins Streets, Melbourne.
Queen and Edward Streets, Brisbane, Queensland.

AGENTS:—
Hilmer and Oliver Pty. Ltd., Hobart and Launceston, Tasmania.

Atkins (W.A.) Ltd., Hay Street, Perth.

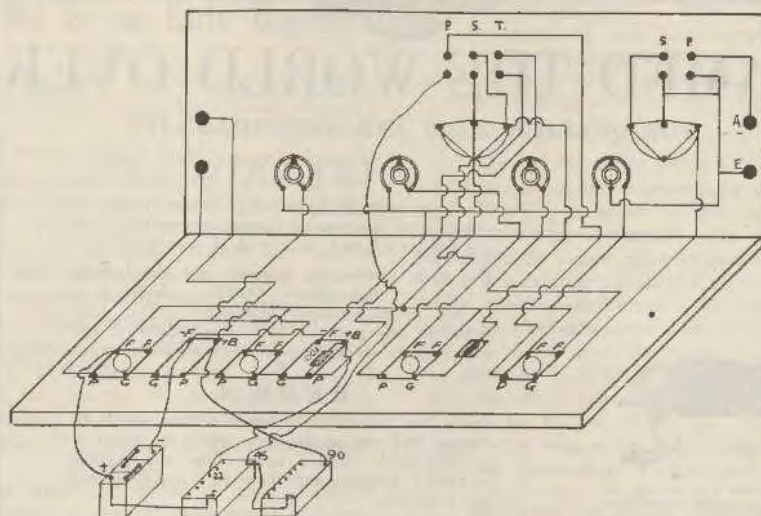


Fig. 4.—Back Panel Wiring.

holder, primary 25, secondary 50. Three coil holder, primary 35 or 50, secondary 50, tickler 50 or 75. For 2FC: 2 coil holder, primary 100, secondary 150. Three coil holder, primary 150, secondary 150, tickler 200. All coils except the tickler should be closely coupled together for preliminary tuning. Carefully rotate the two condensers together until the station is heard. If the same size condenser

and coils are used for both secondaries, almost identical settings will be obtained on both dials. Careful adjustment of the potentiometer and radio frequency rheostat are the only other critical controls. The receiver is very stable as long as the tickler coil is not too large. Reports on the reception obtained with this Receiver will be very much appreciated.

3AR ON A CRYSTAL SET.

Doubt has been expressed in many quarters with regard to the ability of Melbourne crystal set users to hear transmission from the 3AR studio. There is, however, no reason for this doubt, inasmuch as, provided the set is properly constructed, there is no reason for any failure in the reception of this station on any crystal set. As mentioned before, the first essential is that the set must be accurately constructed; the second essential is that care should be exercised in the installation of the aerial. This should on no account exceed 80 ft. in all, including the height of the pole and the length of the aerial wire. For sets used within easy reach of the two stations at Essendon and Braybrook a length of 60 ft. is usually sufficient, but for city and other aeri- als the 80 ft. before mentioned is quite adequate; indeed, longer aeri- als rather militate against good reception. The prevailing idea that it is impossible to receive transmission from 3AR against a higher power station is also due to the fact that the mani-

pulation of the dial is so little understood. It must be remembered that the higher power station occupies the greater portion of the dial, and it is only by careful tuning, or "feeling" for the right spot, that success is to be obtained. Therefore, it is necessary to go slow on the dial, and not swing it around at random. Listeners who are looking for 3AR will be amply rewarded by attention to the above hints, and will be able to receive in comfort the admittedly good programmes now being broadcasted by this station.

AN AMERICAN VISITOR.

According to a letter from KFOB, Burlingame, California, Miss Edith Dessin, a prominent pianist, well known to listeners from KFOB, is at present in Sydney. Uncle George, page Miss Dessin.

WANTED.—All kinds Secondhand Wireless Sets, Parts, Speakers, etc. Best prices given. JACK RAPKEN, 18 George Street West. MA 1198.

BURGESS—"They're on the Leviathan"—BATTERIES



FAMED THE WORLD OVER

FOR QUALITY, TONE AND DEPENDABILITY.

I GRANIC.

We have recently landed a complete range of additions to the famous Igranic components, and the fixed grid leak is a typical specimen.

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

BROWN.

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

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



The Igranic Fixed Grid Leak is a welcome addition to this range of fine quality components. They are guaranteed to be accurate within very small limits and may be relied upon to remain perfectly constant. Complete with clips and fixing screws 3/6.

OLDHAM.

We have been appointed sole agents

for the Oldham (Special Activation Process) Battery, and you should investigate its unique merits before investing in an accumulator.

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

* * *

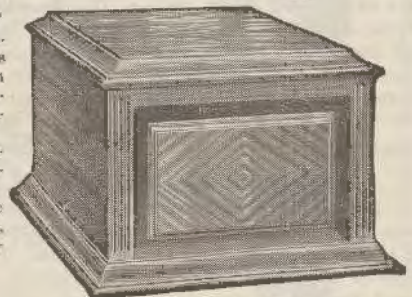
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And at LAUNCESTON; also from J. R. W. Gardam, PERTH.

Write for Booklet No. 19, post free.



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



Queries Met By an Early Beginner

The following query has been received from Mr. Thompson, Molony Street, Toowoomba, Queensland.

"I have a Precise Super-Multiformer, of which I have no details regarding circuit. I should very much appreciate assistance through your 'Queries Met' column. Please give the number of turns, etc., to use on the inductances and also advise whether the inductances may be wound on one tube or two separate tubes, and whether the inductances are coupled inductively or otherwise?"

We have pleasure in publishing a circuit diagram which is particularly suitable for most of the super-kits at present on the market. Pay particular attention in every detail, to the design of the oscillator and coupler by-pass condensers, as shown.

The plate and grid coils of the oscillator coupler are wound on one 2½ inch former and consist of two sets of thirty-five turns of No. 24 D.C.C. wire. A space of 3/8 of an inch should be left between the end of the one coil and the beginning of the next. The rotor, which is the pick-up coil, is wound with sixteen turns of the same gauge wire and made to rotate inside the former between the two coils. Once the correct setting of the rotor has been found, it need not be altered. A glance at the circuit diagram shows that the pick-up coil for oscillation is connected in the filament return lead of frequency changer on the first detector. Many super-experts will probably say that this is wrong; but we say without fear of any contradiction whatever, that if this hook-up is copied explicitly, that most of the super's virtues, and few of its usual faults will be found to be present.

"Wireless Weekly" has had extensive experience with every well known super-kit, all of which suit this hook-up very excellently indeed. A jack is used to change from aerial to loop, and an ordinary two coil holder for coupling the receiver

to the outside aerial. Only one stage of audio is necessary, to give loud speaker volume from all A class stations anywhere in Australia. The second stage may, however, be added if desired, but it should be wired to a D.C. jack so that it may be cut out at will.

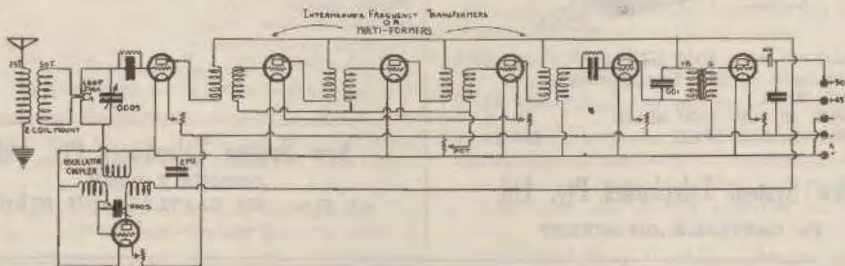
The potentiometer which is shown wired in the grid return of the intermediate valves must be of good quality in order to get the delicate adjustments so very necessary with any super. The intermediate valves must not oscillate; but in order to get maximum sensitivity it is necessary to get very close to oscillation. This is only made possible by a potentiometer which is very finely vernier. In the course of a few weeks, we hope to be able to give the back of panel views showing the connections of all the most popular Super Heterodyne kits. In the meantime, we feel sure we have dealt with this query quite sufficiently enough to get our Queensland reader out of difficulty.

We trust the advice herewith published will also prove instructive to other readers who have home-constructed Supers, which are not giving them quite the results they expected.

"I have a five-valve commercially built receiver, which is not fitted with a "C" battery. Could you please inform me how I can add one?"

A. Unless you can follow the circuit inside your set we do not advise you to put in the "C" battery yourself. Any recognised dealer will be pleased to do it for you for a very small sum.

If you can follow the circuit, however, remove the receiver from the cabinet and you will find that the two terminals of the audio transformers marked —F are joined to the —A battery connection. Break this connection to the —A and bring the —C battery to the two F terminals of audio transformer. The positive C battery then goes to the —A. This extra refinement is well worth while, as it not only improves the tone of the set, but decreases the drain on the "B" batteries.



PHILCO

DRYDYNAMIC RADIO BATTERIES

The World's Finest "B" Battery

AND ITS SEVEN POINTS OF EXCELLENCE!

1. **ECONOMY.** These batteries will give trouble free service for years with only a minimum of attention. (See Point 4.) When dry batteries run down they are USELESS and are THROWN AWAY. The average Listener spends 25 per annum in Dry Batteries. Philco Rechargeable "B" Batteries CAN BE RECHARGED FOR A FEW PENCE. The initial cost plus a few pence a year for charging is the only cost.

2. **GLASS CELLS.** With acid tight sealed covers. Same for use anywhere in your home.

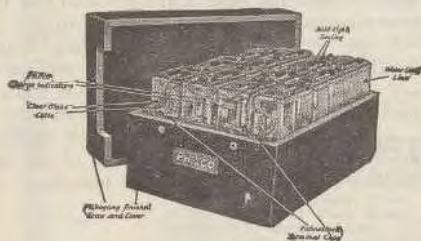
3. **MAHOGANY FINISHED CABINET.** Beautiful and Decorative.

4. **CHARGE INDICATORS.** Exclusive Philco Feature that tells all conditions of charge and discharge. No more bothering with old-fashioned hydrometer or guesswork charging.

5. **TREMENDOUS CAPACITY.** Double that of ordinary "B" Battery. Needs recharging only every 2 or 3 months and filling with water only once every season.

6. **EASILY RECHARGED.** With new Noiseless Charger—just a throw of a switch—a plug in the socket. No noise—impossible to overcharge. Recharging costs only from 2½d. to 5d.

7. **DRYDYNAMIC FEATURE.** Insures your getting a fresh new Battery. The life of a Philco Radio Battery does not start until you or the Dealer pours in the electrolyte.



248 DXO, 48 volt, 3000 MAH.	£6 4 0
83X (replaces 90 volt Dry Battery), 3000 MAH.	£8 15 0
248 DHO, 48 volt, 6000 MAH.	£8 5 0
86H, 90 volt, 6000 MAH.	£10 10 0

New System Telephones Pty. Ltd.
280 CASTLEREAGH STREET.

Sale! Sale!



Parts—Below Cost

In order to clear out odd lines which we are not restocking, we are offering them to the

PUBLIC DIRECT

at prices much below cost.

Here are a few of the lines:—

	Each
Bestone Condensers (11-Plate Bakelite Ends)	4/9
Bestone Rheostats (20 and 30 ohm), 1/- & 1/6	
Cosson Valves, P1 and P2	3/-
Marecom DER (Dull Emitters)	7/6
King Quality Rheostats.	3/-
Bestone Transformers	15/-
Honeycomb Coils (assorted makes and sizes)	1/6
King Quality Jacks	2/-

Come right along. Buy the parts and build your own set for a few shillings.

New System Telephones Pty. Ltd.

ODDMENT ROOM,
4th Floor, 280 CASTLEREAGH STREET,
Near Liverpool Street.

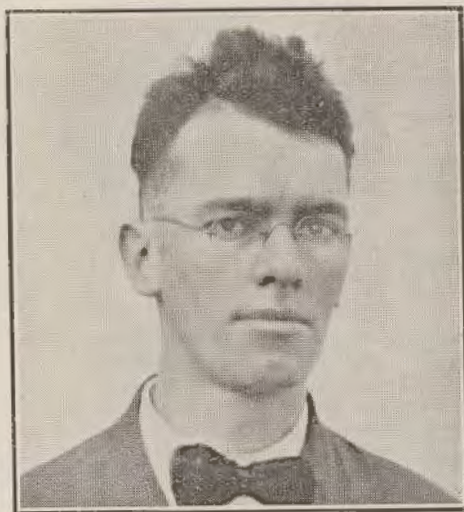
THE STREET SINGER

AN INTERVIEW WITH MANSFIELD.

Widespread interest has been aroused by the broadcasting by 2FC of Dan Mansfield, the street singer whose remarkable voice has amazing range and quality.

Mansfield, sitting on a seat in the sunshine near the Central Railway Station, shading his troubled eyes, talked quietly to the writer:—

"Two newspapers in writing of my street singing, have mentioned that I wear dark glasses. From this a certain section of the public might infer that I adopt them as a ruse to gain sympathy. But I wish to say that I have certificates from



(Photo by courtesy "Evening News")

four qualified medical men, stating that I am entitled to the invalid pension through the state of my eyes. The fact that I have always acted honestly with my disadvantages, and, I believe, bring a good deal of intelligence to bear in overcoming my natural handicaps, may still more incline the public to believe that I use many of the professional buskers pretences to gain a living. Let me mention that so far I have not been able to obtain the pension; also that owing to the references to my black goggles I have cast them aside, suffering a good deal of inconvenience thereby.

No one could be more deeply grateful than I am for Mr. Brasch's kind offer of two lessons per

week, but since authorities in such matters credit me with some special gifts of voice and improvisation whatever of the artist, there is in me pleads for fuller opportunities than I now enjoy for self-development.

Here is my past in a nutshell. Twelve years in an orphanage with no memory of either mother or father, and the handicap of sight so defective as to prevent me from learning to read in the ordinary way. I had no opportunity to learn from Braille.

Later, uncongenial surroundings in lodgings among people who cared nothing for music,—where I had no access to piano, and my only musical instrument was a borrowed gramophone for which I saved up for months to buy a single record. Meanwhile, I had to earn my living by house to house canvassing, or singing in doorways during moments stolen from the police.

Considering all this I want to speak for whatever of the artist is in me and for what others say is there; to make up for all lost time, all past handicaps. I want to plead for an entirely new environment,—an environment where music shall be first and last and always before everything, and above all else, where I could have access to a piano at all times. As I am doubtful whether my sight would serve me well enough to acquire the necessary knowledge of music in the ordinary way, I feel that I could develop best, could I gain access to a blind educational institution where I would be among those who are gaining a general education by means of Braille.

There is much that I could tell the public—how I always believed that under happier circumstances I felt I might give the world something that was worth the giving, but mine has been, up to the present, a lane that had no turning; whatever gifts I possessed,—whatever of high desire I felt has always been suppressed and utterly submerged by the fight for the common necessities of life.

When Melba's Grand Opera came here about 2 years ago, I could not afford to pay to go in, so used to hang around laneways listening for notes through ventilators or other vents where a fragment of the music might escape. Sometimes when I would be straining to catch a note a noisy tram would rush past, drowning my feast of melody.

Re gramophone records, my first experience sticks in my memory. I used to go around the second-hand shops asking for Melba's records. Came upon one on one occasion for which I paid 3/6. The salesman wouldn't try it over, but guaranteed it to be O.K. As my sight was not

The American Bosch Magneto Corp.

In presenting their Radio products on the Australian market, The Bosch organisation has in mind that the public have learned to expect great things of American Bosch. It was that well founded public faith which led the Bosch Engineers in their efforts to produce a Radio Receiver which would be far in advance of others.

"The Amborola" has in its exterior appearance and in its interior construction all the evidences of quality, workmanship and design which have always been associated with the products of the American Bosch Magneto Corporation. **The Amborola is a large, powerful, six tube Radio Receiver with an unapproached tonal quality.**

The exterior design of the Bosch Radio Receiver instantly appeals as being in good taste. The cabinet is of finest wood, beautifully finished. Satin bronze finished metal ware enhances the cabinet work. The absence of a multiplicity of dials is expressive of the simplicity of operation. Two only indicators are needed for all tunings. The indicator setting, once established for any station wavelength, is the setting for that station every time it is wanted. There is no fussing with the dials.

"The Ambotone" The combination of **The Amborola** and the **Bosch Ambotone Reproducer** is unsurpassed for radio reception. **The Ambotone** with its wood conoid is mellow in tone and accurate in reproduction over the full range of music or voice. It reproduces all the bass notes so often lost in radio reproduction. **The Ambotone** will help you get the most out of your radio set.

Stocks are now available, wholesale and retail. Country and Interstate inquiries are invited.

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It's **Efficient!**

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Good sets require good parts. No set is better than its parts. Every EMMCO product is submitted to a thorough test by a leading radio engineer before production is commenced, so that efficiency is assured.



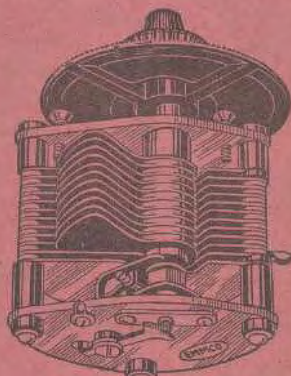
EMMCO LIGHTNING ARRESTER.

A Lightning Arrester is not a luxury. It is a positive necessity.

Operating on the Gap principle, and mounted on a bakelite base, the EMMCO Lightning Arrester ensures the protection of your Receiver against lightning. Each EMMCO Arrester carries an insurance guarantee to replace any damage to the extent of £25.

PRICE 4/3

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EMMCO CONDENSER.

Absolute insulation—grounded rotor and plates—straight line wavelength—most minute adjustment. These are some of the features contributing to the efficiency of EMMCO Vernier Condensers.

Prices:

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.00025 20/-
.0005 21/-

PLAIN TYPE.

.00025 13/6
.0005 15/-

EMMCO JACKS

Open Circuit Jack	2/6	Double Filament Jack	3/9
Double Circuit Jack	3/-	Radio Jack Switch	4/6
Single Filament Jack	3/6		

Manufactured by
Electricity Meter Manufacturing Company Limited, Sydney

The GRODAN
NEW
Hinged Spider Former 1/9

6^d 1/3 9 PAIR

The utility of our new hinged Spider Plug in Formers will appeal to those desiring the best results from their sets.

The Grodan *Folding*
LOOP AERIAL

Hundreds of these Loops are being used all over Australia with complete satisfaction to our patrons.

Height when open	35ft.
Closed	19ft.

39/6 each.

GRODAN PERIGON DETECTORS.

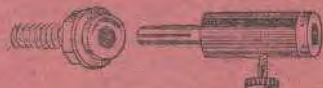
Carefully tested on actual Broadcasting before leaving our factory.

The crystals being the very best obtainable are enclosed in a dust and moisture-proof glass tube.

Can be attached to any existing crystal set in a few minutes.

Guaranteed to give service and satisfaction ... 3/9 each

Refills, 1/6



There's a use for 'MECS' in every set.
Plug and Socket, 3d.
The latest Terminal and Wonder Plug.

Raytron Crystals

Better than the best of the rest.

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| Special Galena | 2/- each |
| Selected Bornite | 2/- each |
| Synthetic Zinnite | 2/- each |

Each Box contains Silver Case-knife and Tweezers.

ASK YOUR DEALER FOR THE BOX WITH THE WINDOW.

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good enough to examine it, I bought it, relying on his word and hurried home to give it a trial. But if my sight deceived me, my ear did not; the record was in the worst of condition until half way through, when it improved and I was able to get some idea of what that great singer was capable of. How I valued that record! Even though the name was never distinct enough for me to catch it, fellow lodgers used to protest against me putting that scratched thing on, but I would explain:—"Oh, this is Melba, it's alright when it gets half way through."

In both Melbourne and Sydney I have attended hospitals for eye weakness and a slight ear trouble, which I must confess worried me quite as much as my defective sight, for, should my hearing fail me, my chief pleasure in life, which was music, would have been denied me. Imagine my difficulties in trying to attend hospital and earn my living by canvassing at the same time."



Mr. Sydney F. H. Laws, Manager, Tasmanian Broadcasters Pty. Ltd., whose many years of wireless and commercial experience has been brought to bear on the problem of establishing a high power station at Hobart.

Mr. Laws was one of the first to join the Commonwealth Wireless Service in the early days and for a long time was closely associated with Mr. Halsillie, the brilliant wireless engineer, whose death occurred in America some years ago.

FARMER'S IN NEW ZEALAND.

According to the Wellington "Dominion," L. Robinson, Wanganui, received 2FC on a loud speaker at 11.45 a.m., daylight all the way. At this rate there will soon be no need for stations in New Zealand.



Clearance of Oddments

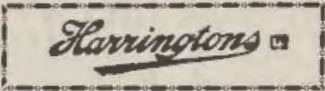
Parts for Less than Cost


Opportunity to buy parts at less than cost is what New System Telephones Pty. Ltd., of 280 Castlereagh Street, is giving the public this week.

In every wholesale business there comes a time, once in a while, when a lot of clearing up has to be done, and during a year's trading it is surprising the quantity of odds and ends that have accumulated. These have got to be quitted at any old value to make room for new lines and new shipments constantly coming forward. Just fancy! Bestone Condensers, 11-Plate, with Bakelite ends, going at 4/9 each; Rheostats, 1/- and 1/6; English Ebonite, 3/6 lb.; Egg Insulators, next to nothing; King Quality Jacks, from 2/- each; Kellogg Jacks, 2/6; Bestone Plugs, 2/-; King Quality Rheostats, 3/- each; Bestone Sliders, 1/4in., 3/16in., 2d. each; Slider Bars, 6d. each; Contact Studs, 8d. a dozen; Terminals, 2/4 doz.; Cossor Valves, P1 and P2, 8/- each; D.E.R. Valves (Dul.), 8/-; Polar Condensers, 8/- each; Fallon Condensers, 5/- each; Aerial Wire, 1/16, per 100ft. coil, 1/6; 3/20 Enamel, 2/- per 100ft. coil.

Special lines for Experimenters: Cardwell Transmitting Condensers, .00045 mfd., £2/14/- each; Kenatron UV 216 Valves, £1 each. Radio Instruments: Transformers, 25/-; Magnatron Valves, UV 201A, UV 199, large and small base, 10/- each. Assorted Coils, from 1/6 each. There are also dozens of oddments—just a few of each line—too numerous to mention here, but seen in the Oddment Room on the 4th Floor, 280 Castlereagh Street.*

BURGESS—"Assure Clear Reception"—BATTERIES



Harringtons 

WE ARE WHOLESALERS & RETAILERS OF QUALITY RADIO SUPPLIES

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ETC.

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


COUNTRY CLIENTS. Our excellent MAIL ORDER SERVICE is yours to command.


CUT THIS OUT AND POST TO-DAY.

Please send me Post Free—New Illustrated Radio Catalogue.

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ON THE AIR

SUNDAY PROGRAMME.

Sunday, June 20th, Station 2BL will broadcast the Newtown Congregational Children's Service conducted by the Rev. Mearns Massie. This service is unique amongst Church Services and is always listened to with great pleasure. At 3.30 p.m., Mr. W. "Cairo" Bradley will conduct his Bible Class and the soloists will be Messrs. Will White and Arthur Smith. Following this is an Organ Recital from the Chalmers Street Presbyterian Church, and at 6.30 p.m., the Newtown Congregational Church will again be broadcast with a sermon by the Rev. Mearns Massie. A Studio Concert will include Mr. Clem Williams, the favourite baritone, and Mr. Bryce Carter, in a choice offering of 'cello solos.

EARLY MORNING CRICKET SESSION.

Monday, June 21st, will find 2BL on the air at 10.55 a.m. with an Early Morning Cricket Session, including music from the Studio. During the Afternoon Session, David Jones' Tea Room Trio will entertain and Mr. J. M. Prentice will continue his talks on "A Course in Philosophic Thought." For the Evening Session the Newtown Band will provide sparkling band music and Miss Heather Kinaird, whose contralto voice improves with every hearing, will be heard in solo numbers. Mr. D. Raymond will speak on "Coins and other Values," concluding a series of talks. Mr. C. F. Laseron will deliver the second of his talks on "An Old Chinese Potter." From 10.30, Al Hammett's Dance Band will be broadcast from the Ambassadors, and during the intervals between dances, there will be social notes and a description of the dresses broadcast by Mrs. Potts.

BRILLIANT ENGLISH TENOR.

Tuesday, June 22nd, Mid-Morning Cricket Session and Music from the Studio of 2BL. Afternoon Session: Hillier's Instrumental Quartette music from the Studio and at 4.30, the Serial Story. The Evening Session will commence with Hoyt's Imperial Orchestra, conducted by Mr. Lionel Hart, broadcast from Hoyt's Theatre de Luxe. This is one of the favourite orchestras being broadcast by 2BL, and its offerings are invariably good. Dr. Donald Luker will continue his series of talks on Eastern subjects. Mr. Arthur Jordan, the brilliant English Tenor will be heard in songs from the Operas. Mr. Joseph Post will play oboe solos and Mr. Reg. Harrison, comedian, will entertain. Broadcasters Instrumental Trio, under the direction of Mr. G. Vern Barnett, will provide classical music.

Miss Norah Hill, Irish Soprano, will be heard in songs of the Emerald Isle.

NEWCOMER TO 2BL.

Herewith is presented a picture of Mr. G. Vern Barnett, who is the latest acquisition to the staff of 2BL, Sydney. Mr. Barnett is taking over



the leadership of Broadcasters Instrumental Trio, the direction of Broadcasters Dinner Orchestra, and will also be the Accompanist in Chief in the Studio. Although Mr. Barnett is Victorian born, the greater part of his life has been lived in N.S.W. and much of his musicianship has been acquired in Sydney. He was a pupil of Mr. Edward Sykes and also Mr. Edward Goll. He has presented to the public a distinguished series of recitals covering the organ, the piano, and as an accompanist. Associated with the Philharmonic Society for the last 11 years, Mr. Barnett has also on occasions acted as Deputy Conductor as well as conductor, for Church Choirs. He was also associated with that distinguished artist, the late Andrew Black, for a period of 14 years. He has been commended by, and associated with, such distinguished artists as Dame Nellie Melba, Mr. John Lemmone, Mr. Henri Verbrugghen, Mr. Peter Dawson, and others. High as the quality of music that has been transmitted from 2BL in the past, it is anticipated that the association of Mr. Vern Barnett with the Studio will represent a still greater advancement.

Jazz and Jollity

brought to
your home
via wireless



PHILIPS
B 406

Only perfect reception will give you the uninterrupted dance and Philips valves will give you perfect reception. The B406 is the new wonder valve, designed for use with a 4-volt accumulator, and controlled by a rheostat of at least 12 ohms resistance.

The unique purity of tone and wonderful volume given with this valve combined with its low filament consumption of one-tenth amp. make this valve perhaps the most economical, considering its accomplishments, on the market.

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.

13/6 each.

Let your next valve
be a **PHILIPS**



PHILIPS

MILITARY MUSIC.

Wednesday, 23rd, mid-morning Session for cricket information and music from 2BL's Studio. Afternoon Session—Hillier's Instrumental Quartette and a special Operatic Session from the Studio illustrated by gramophone selections. Evening Session—The City of Sydney Band, providing special military music; Miss Anna Burke in songs; Mr. Frank D. Marshall, B.Sc., commences a new series of talks on "Radio Therapy in the Treatment of Cancer," and Mr. J. M. Prentice will speak on Foreign Affairs, dealing with written questions.

FEAST OF VARIETY.

Thursday 24th June, 2BL's mid-morning Session for Cricket and music. Afternoon Session—David Jones' Tea Room Trio and music from the Studio. Evening Session—The Ambassadors Instrumental Salon Quartette, in operatic selections selected and arranged by Mr. Claude McGlynn. Mr. Arthur Jordan, the distinguished English tenor, will sing songs of the Hebrides. Miss Grace Saville, contralto, will also be heard, and Miss Daisy Richards will present a number of violin solos. Mr. G. C. Barnes will conclude his series of talks on Real Ghost Stories; Miss Edith Dickerson will be heard in songs at the piano, and a dance programme will be provided by Al Hammett's Dance Orchestra playing from the Ambassadors until midnight.

SPECIAL DANCE PROGRAMME.

Friday, 25th June, Station 2BL will present a mid-morning Session for cricket information and music from the Studio. Afternoon Session—Hillier's Instrumental Quartette in selected numbers, and a talk on "Modern English Poetry," by Mr. J. M. Prentice. Music from the Studio. At 8 p.m., there will be a special Dance Programme provided by the Gloomchasers directed by Mr. Cec. Morrison and a Sporting Talk by the Senior Sporting Expert of The Sun, dealing with "The prospects of to-morrow's racing, and giving form and tips." The Travelogue will provide a description of "Egyptian Scenery and Sunsets."

SPORTING EVENTS.

Saturday, June 26th, 2BL's mid-morning Session providing the usual up-to-the-minute cricket information. Afternoon Session from the Studio: "The Sun" Office and the Sydney Cricket Ground, dealing direct with sporting events. Evening Session—The Enmore Theatre Symphony Orchestra, under the direction of Mr. F. Watkins, in a selected programme. A Forestry Talk, "Some Beautiful Trees and Shrubs," by Mr. D. G. Stead. Mr. Alfred Cunningham, the brilliant English baritone, in items from his repertoire, and a new comer in the person of Miss Molly Raynor, the distinguished comedienne; Miss Freda Gilda, contralto, will in-

roduce a series of songs not often heard, and Miss Dulcie Blair, violinist, will be heard in solos. A dance programme by Al Hammett's Dance Orchestra, broadcasting from the Ambassadors, will continue until midnight.

MASSED BANDS BROADCAST.

Listeners will remember the Massed Band Concert from the Sydney Town Hall last year, in connection with the Rose Day Appeal. Arrangements have been made by 2FC to broadcast this year's concert in the Town Hall on Sunday afternoon, 20th June, when the Massed Bands will play "1812 Overture"; a number of well-known artists will appear.

GOULBURN LEIDERTAFEL.

Particulars of the Goulburn Leidertafel Concert have been received, and a special programme has been arranged in consequence of the broadcasting by 2FC of the whole of this Concert on 22nd June. The following Sydney Artists will appear: Miss Helena Stewart, soprano; Mr Bryson Taylor, tenor; Miss Monica Horder, violinist; Mr. Norman Ingamells, bassoon. The transmission will be occupied from eight o'clock till 10.15, and will be carried over a land line of 145 miles.

MADAME STRALIA TO BE BROADCAST.

Arrangements have been made by 2FC to broadcast from the Crystal Palace Theatre, on Friday, 18th June, the prologue to the new picture, "The White Sister." Madame Elsa Stralia, the well-known dramatist soprano, and Andre Navarre, will contribute a special vocal programme.

OLD TIME NIGHT—FROM 2FC.

The Old Time Night, given by the Farmer's Broadcasting Service on Friday, June 4th, has been so successful and delighted such a large number of listeners, that this Station will endeavour to give regular evenings to Old Time Music. The novelty of going back in stages of ten years at a time, and giving listeners the musical numbers that were popular at each period, was a delight to listeners, and many requests have been received to repeat the evenings.

RADIO VOICE WINNER.

Miss Gwen Russell, one of the winners of the Radio Voice Competition, conducted by 3LO, Melbourne, is now residing in Sydney, and makes her first appearance at 2FC on 21st June.

SPORTING RESULTS FROM 2FC.

On Saturday, 19th, the usual sporting results will be given and the whole of the evening's programme will be devoted to the transmission from the Conservatorium Hall, of the Chappell Ballad Concert. The well-known English tenor, Mr. Arthur Jordan, will sing. At the conclusion of this concert the 2FC Dance Band will play till 11 p.m.

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THEATRICAL BROADCAST ON FRIDAY.

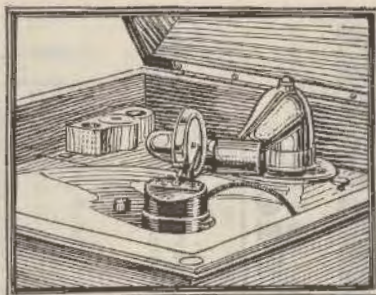
Friday, 18th. Vocal recital from 2FC in the afternoon by the pupils of Mr. Hector Flemming. In the evening, by permission of Messrs. J. C. Williamson, the second Act of the musical comedy "Rose Marie," will be transmitted from Her Majesty's Theatre from 9.55 till 11 p.m. At 8 o'clock from the Crystal Palace Theatre, Madame Elsa Stralia, the well known dramatic soprano and Mr. Andre Navarre with the special Choir and Crystal Palace Orchestra will be heard in the vocal prologue arranged for the new picture "The White Sister." At the Studio, Raine and Powell, the British Entertainers, Mr. Harry Edouin, comedian. Items by Mr. Montgomery Stewart.

ST. MARK'S CHURCH, SUNDAY.

The morning service on Sunday, June 20th, will be taken by 2FC from St. Mark's Church of England, Darling Point. The afternoon's programme will be taken from the Sydney Town Hall, on the occasion of the "Rose Day" Appeal. The massed Bands will play the 1812 Overture. Miss Virginia Bessetti, contralto, will sing "Land of Hope and Glory," and the "Lost Chord," with band accompaniment. Mr. Ernest Archer, and other well-known artists will appear. The evening Church service will be taken from the Lyceum Hall, preacher, Mr. Foreman. 8.30, programme from the Grand Opera House, given by the New South Wales State Military Band.

IMPROVEMENTS AT 2KY.

In accordance with its set policy, 2KY has again increased its power. This is the second time in three weeks. One of the planks in the new policy is to make the programme bright and snappy, and to offer the public only the best of everything. A very attractive item has been added to the programme by permission of J. C. Bendrodt Ltd., namely, an interlude each evening by the renowned Palais Royal Californians Orchestra, under the leadership of Mr. Walter Beeban. Starting immediately, there will be interspersed in the midday and afternoon programmes, special items for the benefit of the sick kiddies in the hospitals. This station is evincing a real interest in education, and has offered the State Conservatorium of Music an opportunity for a certain number of star graduating students, to obtain what is now an essential in every artist's education, namely, a course of practical experience in broadcasting from this station. In connection with this course, an annual gold medal is offered (per Mr. C. G. C. Christie), to be known as the 2KY Radio Prize. A unique innovation is now being added to the programme permanently. The station will broadcast, just like a newspaper, a daily editorial or leading article.



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3LO's New Announcer

"A MAN OF MANY PARTS."

Maurice Dudley, the newly-appointed announcer of 3LO, Melbourne, has the almost unique record of belonging to the profession supposedly composed of rolling stones, and yet in all that time, has only belonged to two managements. For the last 25 years he has been a member of the J. C. Williamson organisation, which he has now left to join the staff of 3LO.



The Director of 3LO, being one of the busiest men in Melbourne, has little time to "listen in," but has in his office a set which is sometimes turned on while he is at work. Major Conder's attention was attracted by Mr. Dudley's rich voice, and the big broadcasting company, being in need of an additional announcer, offered the position to Mr. Dudley.

In 1893 he began his career at the famous Drury Lane house. In 1900 he visited Australia, but remained here playing as comedian and tragedian, singer, lover, villain, pantomime baron and demon. Some of his successes were made in "Dorothy Vernon, of Haddon Hall," "Wallingford," "The Fortune Hunter," "Seven Keys to Baldpate," etc. Maurice Dudley is an excellent raconteur, and tells interesting tales of his past experiences.

SELF-DEFENCE LESSONS BY AIR.

Eddie Graham, Lightweight Boxing Champion of Australia, gave the first of a series of lectures from 3AR Studio on Monday last.

Eddie Graham, who is Special Instructor in Boxing, Ju Jitsu and Physical Culture for several well known colleges will continue his lectures for this Studio on Mondays at 8.15 p.m. until further notice.

MISS META PELHAM.

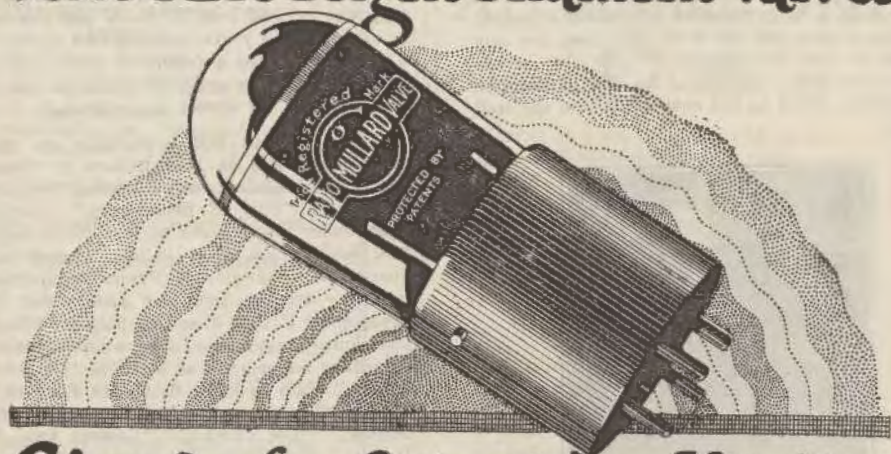
A remarkable old lady, Miss Meta Pelham, who has had a long and wonderfully successful stage career, will broadcast for 3LO, Melbourne. This lady, who is well over 70 years old, has been on the stage for 50 years, was married at the age of 16, and has reared a family of good Australians; but is still vigorous and active, and can talk vividly and amusingly on almost any subject.

Miss Pelham's last appearance on the Australian stage was as June O'Hara in "Paddy the next best thing;" and before that as the garrulous Grandma in "Tilly of Bloomsbury." Her career began under the auspices of Mrs. Scott-Siddons in 1876, with whom Miss Pelham played in "The Honeymoon," "Our Boys," "Pygmalion and Galatea" and other leading parts. Later Miss Pelham played under J. C. Williamson, Rignold, Brough and Boucicault, etc., nearly always in leading roles. She will be remembered as Maria in "The School for Scandal," Kate in "She Stoops to Conquer," Cordelia in "King Lear," and later in "Confusion," "Sophia," "The Rivals," "Romeo and Juliet," "Hamlet," and "Sweet Lavender." Twenty years ago, Miss Pelham had a hard battle in London before she became known as an actress and supported great artists such as H. B. Irving, Marion Terry, Sir George Alexander and many others.

In broadcasting her programmes, which will consist of readings from Dickens, excerpts from Shakespeare, and other dramatic readings, Miss Pelham will be assisted by her daughter, Miss Lila Pelham, also a well known actress, having appeared with Nellie Stewart, Emilie Polini, etc.



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Mrs. Potts, whose broadcasting of Social Notes and descriptions of frocks from the Ambassadors, is a feature of 2BL's dance programme.

ARGUING WITH A TAXI.

If the microphone could reproduce vision as well as sound, listeners-in to 3LO, Melbourne, last week would have been surprised to see Mr. Keith Desmond, the popular monologist, who has been a welcome addition to the programmes. He looked somewhat like the hero of his "Death of Nelson" burlesque, covered in bandages, and limping only with the aid of a stick. Mr. Desmond has come out of hospital in order to keep his appointment with the listeners-in and as the bandages did not interfere with his work he considered that he might as well be at the Studio as waiting for his injuries to heal. It was all the result of a motor accident. He had been run over and severely knocked about by a taxi, and three days in hospital was the result.

RADIO OPERA.

"BELLE OF NEW YORK" FROM 3LO STUDIO.

Musical comedies and light operas are no strangers to listeners-in, but in all previous instances the transmission has been from theatres or concert halls. 3LO, Melbourne, is commencing the production of specially adapted light operas from the Studio, and will inaugurate the new idea with the popular "Belle of New York," on June 28th. The script has been altered for radio purposes and will be done by a company of talented artists. The Studio Orchestra, under the baton of Mr. Reginald Bradley will get the best from the pretty musical score, and a chorus of thirty trained by Madame Ashton has been engaged. The principals, Miss Beatrice Terman, Mr. Mason Wood,

Mr. Alfred Andrew and Mr. Maurice Dudley are all experienced artists both on the stage and over the air, and the two last named have both appeared many times in professional productions of the piece. The production is already being rehearsed, and there is every indication of it being a great success.

AUSTRALIAN COMPOSER.

JACK O'HAGAN'S SUCCESS.

Thousands of listeners-in know of Jack O'Hagan as an enjoyable singer of popular ballads, but as a composer he is even more famous. This young artist who features in programmes from 3LO, Melbourne during the next two or three weeks, has a record of song successes which almost rival that of Irving Berlin, the American composer. Certainly, Mr. O'Hagan scores just as high a percentage of successes as his American rivals, and few of the imported numbers have approached the sales figures of "After the Dawn," Mr. O'Hagan's waltz-song hit. In America, this number would have sold by the million, and there is every possibility that it will yet do so as arrangements are being made for its distribution in that country. Mr. O'Hagan has written and composed a musical comedy, which will be produced in Melbourne about the end of the year.

BROADCASTING VENTRILOQUISTS.

Some vaudeville acts are not entirely suitable for broadcasting purposes, but the incidental music from the Tivoli Theatre has always saved the situation when "dumb" acts, such as aerobatics and juggling have been included in the items broad-



Jeanne Slapoffski, a promising lyric soprano, and a niece of the well-known musician and conductor, Gustav Slapoffski, who broadcasts regularly from 2FC.



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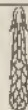
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MR. C. ELLIS.

A popular feature of the programmes broadcast by 3LO, Melbourne, has been the clever verses on topical subjects, of Mr. C. Ellis, whose photo appears here. Bush fires, boat races, Polar expeditions, football, are all versified by Mr. Ellis in a clever and original way, forming a novel method of commenting on momentary affairs. Mr. Ellis began as a teacher, before the War attending the Teachers' Training College and taking an Arts course at the University. He enlisted in 1914, and after four years' service in Gallipoli and France with the 24th Battalion, had risen to the rank of Company Commander and Adjutant, and won the Military Medal.

Thinking teaching too dull after soldiering, Mr. Ellis went on the land at Derrinalum, this venture, however, proved unsuccessful. He returned to Melbourne, where he now resides. Mr. Ellis is a most prolific writer, and is becoming well known as a song writer, several of his songs, including "Kookaburra Gay" being published. Mrs. Ellis is a writer of music, and they claim to have the best collection of Australian written songs in the country.

Besides verse and songs, Mr. Ellis writes sentimental verse for ballads and very fine poetry for classical numbers, also doggerel for fox trots.

A WORD FOR THE PROGRAMME ORGANISER.

Over 10,000 people throughout Australia entered the above competition, held by 3LO, Melbourne, and one of the successful "authors," Mr. Vertue, in submitting his effort, wrote: "Herewith my entry for the perfect programme. Not for one moment that I imagine mine a better programme than those already broadcast from 3LO, but in the hope that if acceptable it may save the official compiler at least one short day of worry. He has all my sympathy." Mr. Vertue's programme was a happy mixture of classical and popular items, with splendid variety in arrangement. Originality was a predominant feature, his idea of an opening and concluding chorus in conjunction with the band being particularly novel.

HOME BILLIARD INSTRUCTION BY WIRELESS.

Mr. Walter Lindrum, the well known Billiard Champion is giving a series of talks from 3AR Studio on Monday evenings at 8 p.m.

On Monday, June 7th, he spoke on the origin of the game and its early phases, and in the following lectures will give hints to players and explain various matters essential to success at this great game.

MR. L. SCOTT-EHRENBERG.

NEW SERIES OF LECTURES ON BUSINESS EFFICIENCY FROM 3AR.

Mr. L. Scott-Ehrenberg, of the Eureka Vacuum Cleaner Co., Detroit, U.S.A., by arrangement with the Associated Radio Co. of Australia, is delivering through station 3AR, a series of talks on business efficiency. Mr. Scott-Ehrenberg is one of the most widely travelled public speakers in the world, and has accumulated during the course of his travels, a vast store of knowledge relative to successful business direction. A great deal of this knowledge is due to his association with some of the greatest commercial executives in five continents. His extraordinary ability to analyse situations and voice the result of his findings in plain words is based upon his keen human understanding, acquired by travelling and studying in thirty-four countries.

His talks are sure to be listened to with great interest by business men, and 3AR is to be congratulated upon securing such a capable and widely-travelled speaker.

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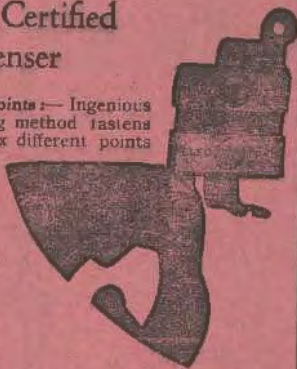
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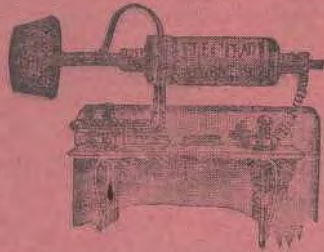
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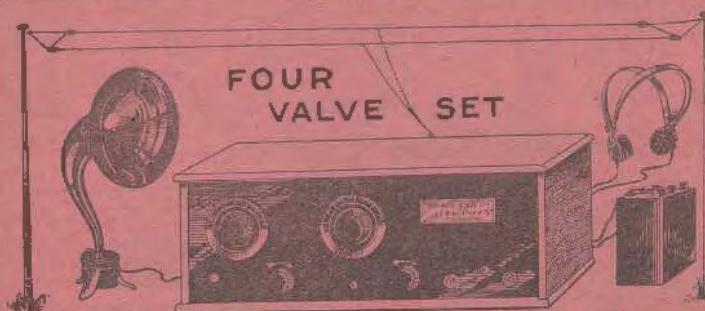
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This model is wound with 12,500 turns of wire on a Stalloy laminated core, and is made in ratios of 1 to 3, and 1 to 5. Under ordinary circumstances 1 to 5 should be used in the first stage of low frequency amplification, and 1 to 3 in the second stage.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

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B Battery Voits Amplification, 90135; Bias, 6-10.5; Plate Milliamps., 2.4-7.9; Output Resistance, 4800-8800 ohms.

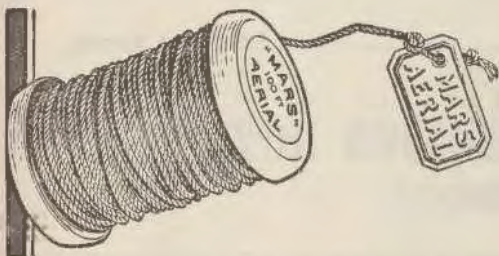
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THE DORRIGO RELIEF FUND.

Broadcast listeners who were subscribers to the Dorrigo Relief Fund were thanked, through the medium of radio, when the Mayor of Greater Brisbane, Alderman Jolly, spoke from the Studio of 4QG. Mr. Jolly touched lightly on the aims of the Committee of the fund, and on how the money is to be spent for the relatives of the lost seamen. He also said that the response to the fund was enormous, as nearly £6000 has been raised, and that 4QG, in its announcements, is responsible for a portion of it.

BRISBANE'S ANZAC SERVICE HEARD IN AMERICA.

Mr. G. Blackington, of Wrangel Island, Alaska, U.S.A., wrote to the Director of the Queensland Radio Service, stating that, on the night of the 26th of April, he heard the complete Anzac Memorial Service, which was held in the Exhibition Hall, Brisbane, and broadcast by 4QG. The reception, Mr. Blackington stated, was very good, every word spoken by the announcer and artists being clear and distinct.

A POLYGLOT STATION.

Attention is being drawn in Great Britain to the cosmopolitan character of the transmissions from the Dublin station. On a recent evening Irish, English, German and Latin were all featured, while items have also been given in French, Italian and Welsh.

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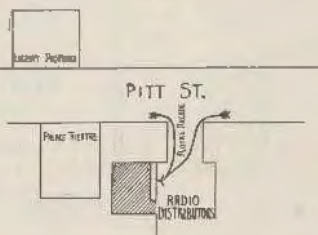
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FRIDAY, JUNE 18.

- Morning Session.**
8—Cricket scores, Australia v. Yorkshire, held at Sheffield. Scores to 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.
11.15—Details of cricket scores.
11.20—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.
1.5—'Evening News' News Service, Weather Information, Commercial News, Musical Items.
1.30—Noon Call Stock Exchange, Musical Items.
2—Close down.

- Afternoon Session.**
8—The Chimes of 2FC and Announcements. Vocal Recital by the Pupils of Miss Heather Fleming.
3.40—From the Tea Rooms: Miss Persia Ritter, soprano.
3.45—Oak Hall Trio.
3.55—Musical Items from the Studio.
4—From the Tea Rooms: Miss Florence Barrow, contralto.
4.5—Oak Hall Trio.
4.15—Musical Items.
4.20—From the Tea Rooms: Miss Persia Ritter, soprano.
4.35—Music from the Studio.
4.40—From the Tea Rooms: Miss Florence Barrow, contralto.
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—Racing Talk. Dalgely's Market Reports (wool, wheat, stock). Fruit and Vegetable Markets.

- Night Session.**
7.55—The Chimes of 2FC and Announcements.
8—Broadcast from the Crystal Palace Theatre, by courtesy of Union Theatres, special musical programme incidental of the picture 'White Sister,' and the world-famous dramatic soprano,

- no, Madam Elsa Stralis, and Andre Navarre in vocal numbers.
9—From the Studio: Rains and Powel, entertainers, in a musical act.
9.10—Mr. Harry Edouin, comedian, (a) Ms. Gotten (Fabian), (b) Society Idols.
9.18—Saxophone Quartette.
9.26—Miss Lila Rains, soprano.
9.30—Mr. Harry Edouin, comedian, (a) Grass Widower (Brunn), (b) Pat a Cake.
9.38—Saxophone Duet.
9.46—Taine and Powell, harmony numbers.
9.55—Saxophone Solo.
10—Broadcast from Her Majesty's Theatre, by courtesy of J. C. Williamson Ltd., the second act of the new musical comedy, 'Rose Marie,' featuring Miss Harriet Bennet. Musical number, opening chorus; trio, Only a Kiss, Herman, Lady Jane, and Malone; sextette, Finaletto, Rose Marie, Jim, Hawley, Emily, Ethel & Wanda; Empire march and gavotte; song and dance, Minuet of the Minute, Rose Marie and Herman; dance, Wanda Waltz, Wanda; bridal procession; song, Door of my Dreams, Rose Marie and chorus; bride finale; finale ultimo.
10.50—From the Studio: Talk on next week's film releases.
11—National Anthem—Close down.

SATURDAY, JUNE 19.

- Morning Session.**
8—The Chimes of 2FC and Announcements. Result of the match Australia v. Yorkshire. These scores will be repeated at 9 and 10 a.m.
10—The Chimes of 2FC.
10.10—Weather Information, Commercial News, Shipping Intelligence, Market and News Session.
11—Cables.
11.5—Details of the Cricket Scores.
11.15—Gardening Talk.
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.
Race results will be given at regular intervals.

- Afternoon Session.**
8—The Chimes of 2FC and Announcements.
3.5—Musical Items, interspersed with race results.
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—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. Close down.

Night Session.

- 7.55—The Chimes of 2FC and Announcements.
8—Broadcast from the N.S.W. Conservatorium Hall, the fourth Chappell Popular Concert. The well-known English tenor, Mr. Arthur Jordan, will sing. During the interval and at the conclusion of the concert items will be given by the 2FC Dance Band, conducted by Mr. Eric Pearce.
11—National Anthem. Close down.

SUNDAY, JUNE 20.

Morning Session.

- 8—The Chimes of 2FC and Announcements of cricket scores Australia v. Lancashire. These scores will be transmitted at 10 a.m.
10.55—The Chimes of 2FC and Announcements.
11—Broadcast from St. Mark's Church of England, Durling Point: Morning Service; preacher, Rev. E. Howard Lea.
12.20—From the Studio: News Session.
12.30—Close down.

Afternoon Session.

- 2.40—The Chimes of 2FC and Announcements.
2.45—Broadcast from the Town Hall: The Annual Rose Day Concert, at which massed bands will play the 1812 Overtures. Miss Virginia Bassett will sing Land of Hope and Glory and The Lost Chord, with the massed bands' accompaniment. Mr. Ernest Archer, tenor, and other well-known artists will appear.
3.45—Close down.

Evening Session.

- 6.15—The Chimes of 2FC and Announcements.
6.20—A vocal programme.
6.45—Broadcast from the Lyceum Hall, Pitt Street: Evening Service conducted by the Central Methodist Mission. Organ solos by Miss Adelaide Coleman.
8.30—Broadcast from the Grand Opera House: Concert by the Slate Military Band.
10—National Anthem. Close down.

MONDAY, JUNE 21.

Morning Session.

- 10—The Chimes of 2FC and Announcements.
10.10—Weather Information, Commercial News, Shipping Intelligence, Market and News Session.

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11—Cables.

- 11.5—Details of Cricket Scores.
11.15—Musical Items from the Studio.
12.30—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.
3.5—A Vocal Recital.
3.40—From the Tea Rooms: Miss Aviee Garth, mezzo, Danny Boy (Weatherly).
3.45—Oak Hall Trio.
3.55—Musical Items from the Studio.
4—From the Tea Rooms: Miss Ida Johnstone, soprano.
4.5—Oak Hall Trio.
4.15—Musical Items from the Studio.
4.20—From the Tea Rooms: Miss Aviee Garth, mezzo, Down in the Forest (Kensell).
4.25—Oak Hall Trio.
4.35—Musical Items from the Studio.
4.40—From the Tea Rooms: Miss Ida Johnstone, soprano.
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—Dalgey's Market Reports (wool, wheat, stock), Fruit and Vegetable Markets.
7.40—Mr. C. J. Lockley ("Red Gum") will talk on Roses.

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.
8.15—Broadcast from Beale's Concert Salon: A programme by the Royal Sydney Apollo Club, conducted by Mr. Arnold Mote.
9—Broadcast from the Haymarket Theatre, Sydney: Vocal Act.
9.20—From the Studio: Miss Gwen Russell, the winner of the 9LO Radio Voice Competition, will make her first appearance at the Studio.
9.28—Mr. Cyril Avondale, entertainer.
9.38—2FC Dance Band.
9.52—Miss Gwen Russell.
10—Broadcast from the Haymarket Theatre: Orchestral Items.
10.15—Mr. Cyril Avondale, entertainer.
10.24—2FC Dance Band will play dance numbers until 11 o'clock.
11—National Anthem. Close down.

TUESDAY, JUNE 22.

Morning Session.

- 8—The Chimes of 2FC and Announcements. Cricket scores Australia v. Lancashire. 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 Forst.
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. Pinnoforte Recital by the Pupils of Mr. Gordon Lavers.
3.40—Miss Meryle Holliday, contralto.
3.45—Oak Hall Trio.
3.55—Musical Items from the Studio.
4—From the Tea Rooms: Miss Gwladys Fimister, soprano.
4.5—A Dickens' Reading by Mr. A. S. Cochrane.
4.15—Musical Items from the Studio.
4.20—From the Tea Rooms: Miss Meryle Holliday, contralto.
4.25—Oak Hall Trio.
4.35—Musical Items from the Studio.
4.40—From the Tea Rooms: Miss Gwladys Fimister, soprano.
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—Dalgey's Market Reports (wool, wheat, stock), Fruit and Vegetable Markets. Close down.

Night Session.

- 7.55—The Chimes of 2FC and Announcements. Announcing land line transmission from Goulburn Broadway Theatre of the 185th Concert by the Goulburn Leidentafel Society. Transmission over a land line of 145 miles. Hon. Conductor: Brigadier-General Ramsay McCulloch. 1. Overture, The Gladiators (Faurig), Leidentafel Orchestra; 2. choral march, from La Prophete (Meyerbeer), Leidentafel Choir and Orchestra; 3. aria, Ribromo Vincitor ("Aida") (Verdi), Miss Helena Stewart, soprano; 4. instrumental, Ballet Egyptian (Luigin), Leidentafel Orchestra; 5. aria, Your Little Hand is Frozen ("La Boheme") (Puccini), Mr. Bryson Taylor; 6. concerted music, Andante (Mozart), Miss Monica Horder 1st violin, Miss Eileen Ford 2nd violin, Mr. Norman Ingamells bassoon; 7. duet and chorus, Miserere ("Il Trovatore") (Verdi), Miss Helena Stewart soprano, Mr. Bryson Taylor tenor, Leidentafel Choir and Orchestra; interval; 8. instrumental, Blue Danube (Strauss), Leidentafel Orchestra; 9. part song, Moonlight (Banning), Leidentafel Choir; 10. solo, Home is Calling (Hill), (b) The Desert Flower, Mr. Bryson Taylor; 11. bassoon solo, Romance (Weissborn), Mr. Norman Ingamells; 12. solo, (a) The Tryst (Sibelius), (b) At the Well (Hageman), Miss Helena Stewart; 13. concerted music, Adagio and Scherzo (Opus 55) (Beethoven), Miss Monica

Horder 1st violin, Miss Eileen Ford 2nd violin, Mr. Norman Ingamells bassoon; 14. choral march, The Wedding March (Mendelssohn), Leidentafel Choir and Orchestra.

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

11—National Anthem. Close down.

WEDNESDAY, JUNE 23.

Morning Session.

- 8—The Chimes of 2FC and Announcements of the scores Australia v. Lancashire. These scores will be repeated at 9 and 10 a.m.
10—The Chimes of 2FC
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 Forst.
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.
3.5—Recital of the Behning Player Piano.
3.40—From the Tea Rooms: Miss Joyce Gillespie, soprano.
3.45—Oak Hall Trio.
3.55—Musical Items from the Studio.
4—From the Tea Rooms: Miss Muriel Humphries, mezzo.
4.5—Oak Hall Trio.
4.20—Music from the Studio.
4.25—From the Tea Rooms: Miss Joyce Gillespie, soprano.
4.35—Oak Hall Trio.
4.35—Musical Items from the Studio.
4.40—From the Tea Rooms: Miss Muriel Humphries, mezzo.
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—Dalgey's Market Reports (wool, wheat, stock), Fruit and Vegetable Markets.
7.40—Details of the Radio Photo Competition for listeners throughout the Commonwealth, explained by Mr. D. J. Van-de Velde.

Night Session.

- 7.55—The Chimes of 2FC and Announcements.
8—Broadcast from the Lyceum Theatre, by courtesy of the Union Theatres Ltd.: Orchestra, under the baton of Mr. Ammanuel Aaron.
8.30—From the Studio: Metropolitan Quartette, Miss Jean Grant, soprano, Miss Mary Bourke, contralto, Mr. A. G. Ellis, baritone, and Mr. Arthur Champion, tenor.

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- 8.55—Wally Baynes, comedian.
 9.3—Miss Jean Grant, soprano.
 9.15—Broadcast from the Lyceum Theatre: Vocal Act.
 9.34—Mr. A. G. Ellis, baritone.
 9.38—Miss Mary Bourke, contralto.
 9.40—Metropolitan Quartette.
 9.54—Mr. Wally Baynes, comedian.
 10.2—Mr. Arthur Champion, tenor.
 10.10—2FC Dance Band.
 10.22—Announcements.
 10.25—2FC Dance Band.
 11—National Anthem. Close down.

THURSDAY, JUNE 24.

- Morning Session.
 8—The Chimes of 2FC and Announcements. Circet scores Australia v. Derby. 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—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.
 1.50—Noon Call Stock Exchange. Musical Items.
 2—Close down.

Afternoon Session.

- 3—The Chimes of 2FC and Announcements.
 3.5—Pianoforte Recital by the Pupils of Mr. Lindley Evans.
 4.30—From the Tea Rooms: Miss Winifred Woodcock, soprano.
 4.45—Oak Hall Trio.
 4.55—Musical Items from the Studio.
 4—From the Tea Rooms: Miss E. Webb-Jones, mezzo.
 4.5—Oak Hall Trio.
 4.15—Musical Items from the Studio.
 4.30—From the Tea Rooms: Miss Winifred Woodcock, soprano.
 4.35—Oak Hall Trio.
 4.35—Musical Items from the Studio.
 4.40—From the Tea Rooms: Miss E. Webb-Jones, mezzo.
 4.44—Afternoon Call Stock Exchange.
 4.45—Close down.

Early Evening Session.

- 4—The Chimes of 2FC and Announcements.
 6.5—"The Hello Man" talks to the children.
 6.45—Broadcast from the 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 Markets.
 7.40—Dr. E. W. Ferguson, of the Department of Public Health, will talk on Dengue Fever.

Night Session.

- 7.55—The Chimes of 2FC and Announcements.
 8—Broadcast from the Crystal Palace, by courtesy of Union Theatres Ltd.: A Vocal Prologue given by Madam Elsa Stralla, dramatic soprano, and Mr. Andre Navarre, tenor.
 8.30—From the Studio: Leichhardt District Band. Conductor, Mr. E. P.

- Kerry. (a) March, Unity (Foxhall); (b) selection, Girl on the Film (Kolbe); (c) fox trot, The Hyllton Medley of Famous Ballads (Robinson).
 8.50—Miss Joyce Hadley, soprano.
 8.58—Leichhardt District Band, Selection, The Grand Duke (Sullivan).
 9.18—Mr. Norman Francis, tenor.
 9.26—Leichhardt District Band. (a) Waltz, Quaker Girl (Monckton); (b) fox trots, In Your Green Hat (Agar); (c) Thanks for the Buggy Ride (Buffano); (d) march, Honest Toil (Rimmer).
 9.50—Mr. Harry Thomas, entertainer.
 10.5—Miss B. Poole, piano solo, Lehestraum, winner of the champion solo at the Wollongong Eisteddfod.
 10.12—Miss Joyce Hadley, soprano.
 10.20—Mr. Norman Francis, tenor.
 10.30—Broadcast from the Wentworth Hotel: Wentworth Cafe Dance Orchestra, under the baton of Mr. Sydney Simpson.
 11—National Anthem. Close down.

2BL

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FRIDAY, JUNE 18.

- 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.
 3.30—G.P.O. Clock and Chimes; a talk on Philosophical Thought, by Mr. J. M. Prentice.
 3.45—Music from the Studio.
 4—G.P.O. Clock and Chimes; Music from the Studio.
 4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramos.
 4.45—Music from the Studio.
 5—G.P.O. Clock and Chimes; the "Sun" News Service.
 5.15—G.P.O. Clock and Chimes. Close down.

Early Evening Session.

- 6—G.P.O. Clock and Chimes; Sporting Resume from the "Sun" Newspapers; the pupils of Miss Monica Scully will entertain the kiddies.
 6.45—Broadcasters' Dinner Orchestra.
 7.15—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land and Finance Co.
 7.50—Close down.
 8—G.P.O. Clock and Chimes; Concert from King's Hall. From the Studio: Cec. Morrison and Rita Cloemchassen. National Anthem.

SATURDAY, JUNE 19.

- 10.55—Special 20 minute Cricket Session, with music from the Studio.
 Afternoon Session.
 2—G.P.O. Clock and Chimes; Special Sporting Information broadcast direct from "Sun" Office.
 5.15—G.P.O. Clock and Chimes. Close down.

Early Evening Session.

- 6—G.P.O. Clock and Chimes. Pavilion Dinner Orchestra, under the direction of Mr. Cec. Morrison.
 6.30—Sporting Resume from "Sun" Newspapers; Uncle Jack and the Kiddies.
 7—A Talk to the Kiddies by Brings.
 7.45—Late Stock, Hides and Market

Reports by courtesy of Australian Mercantile Land and Finance Co.
 8—Emmre Theatre Symphony Orchestra, conductor, Mr. F. Watkins; Mr. D. G. Stead will speak on "Natural Distribution of Tree Life in Australia"; Resume of following day's programme; Miss Grace Saville, contralto; Mr. Fred R. Gooch, entertainer at the piano; The Abad Duo; Miss Marjorie Skill (soprano); Brings will speak about the Aborigines; News Reports by courtesy of "Sun" Newspapers; Al. Hamnett and The Ambassador Dance Orchestra until midnight. National Anthem.

SUNDAY, JUNE 20.

- 11—Newtown Congregational Church—Children's Service. Minister, Rev. Mearns Messie.

Afternoon Session.

- 3.30—Bible Class, conducted by Mr. W. "Cairo" Bradley.
 4—Organ Recital from Chalmers Street Presbyterian Church.
 6—Newtown Congregational Church, Minister, Rev. Mearns Messie.
 8.30—Manly Municipal Military Band broadcast from Rialto Theatre, Manly; Mr. Clem Williams, baritone; Resume of following day's programme; Weather Report and Forecast by courtesy of Mr. C. M. Mares, Govt. Meteorologist; Mr. Bryce Carter, cello solo; National Anthem.

MONDAY, JUNE 21.

- 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; Philosophie 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 Mr. Ramos.
 4.45—Music from the Studio.
 4.35—Late Market Reports from The Sun.
 5—G.P.O. Clock and Chimes; Sun News Service.
 5.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

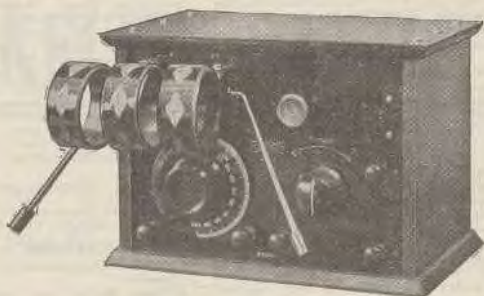
- 6—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.
 6.30—Sporting Resume from Sun Newspapers; Uncle George and the Kiddies.
 7.30—"What's On," a guide to the visitors and citizens of Sydney.
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian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

Evening Session.

- 8—G.P.O. Clock and Chimes; Newtown Band, broadcast from Industrial Hall, Newtown; Miss Heather Kinnaird, contralto; Mr. D. Raymond will speak on "Coins and their Values"; Al. Hamnett and the Ambassador Dance Orchestra broadcast from the Ambassadors Ballroom. During the intervals between dances there will be Social Notes and a description of frocks by Mrs. Potts. Resume of following day's programme; Weather Report and Forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist; Mr. C. F. Lawson will speak on "The Art of Old Chimes Potter"; News Reports by courtesy of "Sun" Newspapers; National Anthem.

TUESDAY, JUNE 22.

- 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.



ONE VALVE SET.

With Polished Maple Cabinet and all panel equipment, wiring diagram, wire, solder, flux, etc., but without coils £ 8. 6

Accessories required to fully equip this set are as follows:—

1 Valve, Radiotron, Phillips, Gecc or De Forest	0 13 6
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Many of the achievements of modern Radio Reception have been made by young men who a few years ago built their own Radio Sets.

3.15—Music from the Studio.
 3.30—G.P.O. Clock and Chimes.
 3.45—Music from the Studio.
 4—G.P.O. Clock and Chimes; Music from the Studio.
 4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramon.
 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.
 8—G.P.O. Clock and Chimes; Ambassadors Instrumental Salon Quartette under the direction of Mr. Claude McGlynn; Dr. Donald Luker will continue his interesting talks; Mr. Arthur Jordan, tenor; Mr. Joseph Post, alto solo; Mr. Reg Harrison, comedian; Broadcasters' Trio; Miss Nora Hill, Irish soprano; News Reports by courtesy of "Sun" Newspapers; National Anthem.

WEDNESDAY, JUNE 24.

10.55—Special 20 minute Cricket Session with Music from the Studio.
 Afternoon Session.
 3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.

3.15—Broadcasters' Trio.
 3.30—G.P.O. Clock and Chimes; Special Operatic Talk by Mr. J. M. Prentice.
 4—G.P.O. Clock and Chimes; Broadcasters' Trio.
 4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramon.
 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; evision 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—G.P.O. Clock and Chimes; City of Sydney Band, broadcast from Barlow Chambers; Miss Anna Burke in Irish Songs; Mr. Frank Marshall, B.Sc., will speak on "Radio Therapy in the Treatment of Cancer: No. 1, What it is"; Resume of following day's programme; Weather Reports and Forecast by courtesy of Mr. G. J. Marcus, Govt. Meteorologist; Mr. J. M. Peatrice will speak on Foreign Affairs, and reply to any telephone question on the subject; News Reports by courtesy of "Sun" Newspapers; Close down.

THURSDAY, JUNE 24.

10.55—Special 20 minute 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—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 Mr. Ramon.
 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—Close down.
 7.45—Australian Mercantile Land & Finance Co. Ltd. Stock Report.
 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. C. C. Barnes will tell real Ghost Stories; Mr. Arthur Jordan, tenor; Miss Gracia Saville, contralto; Miss Delois Richards, violinist; Lectures from the Studio; Miss Edith Dickerson, songs at the piano; Resume of following day's programme; Weather Report and Forecast, by courtesy of Mr. C. J. Marcus, Govt. Meteorologist; News Reports by courtesy

of "Sun" Newspapers; Al. Usammet and the Ambassadors Dance Orchestra, during the intervals between dances there will be Sun News Broadcast; National Anthem.

4QC

QUEENSLAND RADIO SERVICE.

Wavelength, 385 metres.

FRIDAY, JUNE 18.

Midday Session.

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

Afternoon Session.

- 3.30—Selection. The 4QC Concert Orchestra; soprano solo, Mrs. Robert Bell; Zylphoune solo, Master G. Cousins (accompanied by The 4QC Concert Orchestra); Contralto solo, Miss Clarice Cox; Orchestral, The 4QC Concert Orchestra; contralto solo Miss Clarice Cox; Overture, The 4QC Concert Orchestra.
- 4.15—"The Telegraph" News.
- 4.30—Close Down.

Early Evening Session.

- 6.25—Tune-in.
- 6.30—The Children's Session. Stories by "The Sandman."
- 7—The Farmers' Session; Market Reports; Lectures—Community Egg Circles, by Mr. P. Bumball (Poultry Inspector);
- 7.20—"The Telegraph" News.
- 7.30—Close Down.

Night Session.

- 7.45—Lecture Session—A Talk arranged by the Workers' Educational Association.
- 8—A Studio Entertainment.
- 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
- 8.55—Announcements.
- 9—Monologue, Miss W. Cahill; contralto solo, Miss Vera Parker; Hawaiian instrumentalists, The Moana Duo; bass solo, Mr. Stanley Turnbull; Orchestral, The Savoy Orchestra; contralto solo, Miss Laura Loch; orchestral, The Savoy Orchestra; contralto solo, Miss Laura Loch; march, The Savoy Orchestra.
- 10—"The Daily Mail" News Service; Close Down.

SATURDAY, JUNE 19.

The complete morning service will be relayed from the Seventh Day Adventist Church, South Brisbane.

- 10.55—Tune-in.
- 11—Church Service.
- 12.20—Close down.

Afternoon Session.
3.30—A Matinee Entertainment for Little Listeners.

- Early Evening Session.**
- 6.25—Tune-in.
- 6.30—The Children's Session; 10-minute 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—Love's Young Dream, a Dialogue by Agnes M. Mill.
- 8.15—A 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 Dobbin's Vice-Royal Orchestra will be relayed from Lennon's Ballroom.
- From the Studio: Baritone solo, Mr. Lex.

- Campbell; vocal duet, Miss Mary McNeish and Mr. Ernie Baylon.
- From Lennon's Ballroom—Dance Music.
- From the Studio: soprano solo, Miss Nancy King; contralto solo, Miss Hilda Cooper.
- From Lennon's Ballroom—Dance Music.
- From the Studio: Soprano solo, Miss Blanche Richardson; contralto solo, Miss Doris Kays.
- 10—From the Studio—"The Sunday Mail" News Service. Close down.

SUNDAY, JUNE 20.

Morning Session.
The complete morning service from the Albert Street Methodist Church will be relayed.

- 10.55—Tune-in.
- 11—Church Service.
- Afternoon Session.**
The concert provided in the Brisbane Botanical Gardens by the Excelsior Band will be relayed.
- 3.15—Band Concert.
- 4.30—Close down.

Night Session.
The complete Evening Service from the Albert Street Methodist Church will be relayed.

- 7—Tune-in.
- 7.30—Church Service. Close down.
- 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.
- 10—Close down.

MONDAY, JUNE 21.

Midday Session.

- 12.55—"Tune-in" Signal.
- 1—Market Reports, Stock Exchange Information supplied by the Council of Agriculture and the Commonwealth 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. Lectures: Marketing Pigs through Co-operative and Proprietary Channels, by Mr. E. J. Shelton, (Pig Inspector).
- 7.20—News Service supplied by The Standard.
- 7.30—Close down.

Night Session.
7.45—Lecture Session—Motors—Correct Lubrication, Talk No. 10, by "Gangohy."

The first portion of to-night's programme will be provided by the Brisbane Austral Choir (under the conductorship of Mr. E. R. B. Jordan) in the Ann Street Presbyterian Church, will be relayed.

- 8.30—Programme from the Studio.
- 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
- 8.55—Announcements.
- 9—Male Quartette, The Anglo Quartette Party; tenor solo, Mr. C. R. Kell; vocal duet, Mrs. R. G. Allen and Miss J. McDonald; Group of four numbers by Mr. N. Gould; soprano solo, Miss Dorothy Brown; male quartette, The Anglo Quartette Party.
- From the Band Room—a programme of music by the South Brisbane City Orchestra under the leadership of Mr. J. W. Ferguson.
- 10—From the Studio: The Daily Mail News Service. Close down.

TUESDAY, JUNE 22.

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

- 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; Lectures—The Producers' Case for the Organized Marketing of Maize, by Mr. J. Gargan, Asherton Tableland.
- 7.20—News Service supplied by The Standard.
- 7.30—Close down.

Night Session.
7.45—Lecture Session—Popular Science Talk, No. 5, by "Vega."

- 8—A Miscellaneous Programme from the Studio.
- 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
- 8.55—Announcements.
- 9—Tenor solo, Mr. Gerald Cashman; musical novelty, The White Rose Trio; tenor solo, Mr. Gerald Cashman; contralto solo, Miss Laura Loch.
- 9.15—From the Centennial Hall—By courtesy of the Lewesc, 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.

5CL

CENTRAL BROADCASTERS LTD.
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FRIDAY, JUNE 18.

- 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.
- 12.15—Featuring: a Steek Duo Art number; The 5CL Studio Orchestra Overture; Cornet; Novelties.
- 1—Relay from the Adelaide Town Hall, the Community Singing.
- 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopses 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 number.
- 3.45—Broadcast from Studio: Serial Story.
- 4—G.P.O. Chimes.
- 4.1—Broadcast from Arcadia Cafe: Orchestral number.
- 4.55—Stock Exchange Reports, General Information and Station Announcements.
- 5—G.P.O. Chimes.

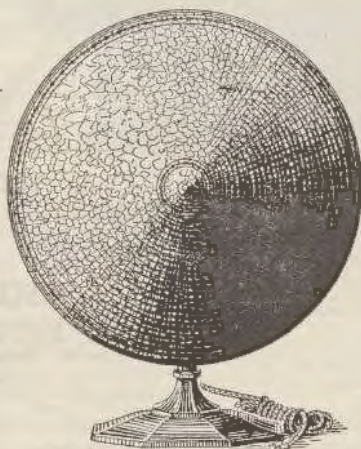
Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.
- 6.31—Bedtime Stories for the Children.
- 7.30—Stock Exchange, Market Reports and Station Announcements.
- 7.40—Sporting Talk by "Old Timer."
- 8—G.P.O. Chimes.
- 8.1—"The Merry-makers" will be heard in a series of popular and instrumental numbers, interspersed with vocal items.
- 9—G.P.O. Chimes.
- 9.1—Weather Reports.
- 9.3—Merry-makers, continued.
- 10.15 approx.—Advertiser News Service.
- 10.30—Merry-makers, continued.
- 10.55—Station Announcements; National Anthem.

SATURDAY, JUNE 19.

- Morning Session.
- 10.30—G.P.O. Chimes.
- 10.31—The 5CL Studio Orchestra will play—Selection: cornet solo; fox trot; instrumental trio; petite suite de ballet; waltz; violin solo; finale.
- 11.45—Station Announcements.

THE LOUD SPEAKER THAT WON "3LO'S" SOUND CONTEST!



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Afternoon Session.

1—Relay from Port Adelaide Racecourse by permission of the officials of the Port Adelaide Racing Club, a running description of the racing programme by Mr. Arnold Treloar. Other sporting results as available.

Evening Session.

6.30—G.P.O. Chimes.
6.31—Bedtime Stories for the Children.

7.30—Market reports and station announcements.

7.40—A review of the world's chief sporting events.

8—G.P.O. Chimes.

8.1—Adelaide Competitive Choir will be heard in a series of Part Songs, Glee and Solo. The performances will be relayed from the Adelaide Town Hall.

9—G.P.O. Chimes.

9.1—Concert, continued.

10—From the Studio. The Havana Synchronizers will be heard in a series of special dance numbers.

11.55—Station Announcements.

12—C.P.O. Chimes.

SUNDAY, JUNE 20.

Morning Session:

11—Relay from Black Forest Baptist Church—Divine Service.

Afternoon Session.

3 to 4.30—A programme of organ, vocal and orchestral numbers by leading artists, assisted by the Studio Orchestra.

Evening Session:

6.30—G.P.O. Chimes.

6.31—Sunday Story for the Children by Uncle Radio.

7—Relay from St. Peter's Cathedral—Divine Service.

8.1—A programme of Band Music from the Studio by Holden's Band.

9.30—Copeck Lecture by Mr. P. H. Nicholls on "What is Faith?"

9.5—Holden's Silver Band, continued. Station Announcements; National Anthem.

MONDAY, JUNE 21.

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

11.30—G.P.O. Chimes.

11.41—Featuring a Steek Duo Art number.

12—G.P.O. Chimes.

12.1—News and Cable Service.

12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play; Selection; cornet solo; fox trot; instrumental trio; oriental; Shepherd's Dance from Henry VIII.; Humoresque; waltz; finale.

1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcements.

2—G.P.O. Chimes.

Afternoon Session. (3 to 5).

3—G.P.O. Chimes.

3.1—Relay from Maple Leaf Cafe: Orchestral numbers.

3.45—Broadcast from Studio; Serial Story.

4—G.P.O. Chimes.

4.1—Broadcast from Arcadia Cafe: Orchestral numbers.

4.55—Stock Exchange Reports, General Information and Station Announcements.

5—G.P.O. Chimes.

Evening Session (6.30 to 10.30).

6.30—G.P.O. Chimes.

6.31—Bedtime Stories for the Children.

7.50—"The History of Leather," given by Mr. J. Alexander.

8.1—Concert from the Studio.

8.20—Twinkler's Original Humorous Talk (Mr. F. J. Mills).

8.40—Concert, continued.

9.1—Weather Reports.

During the evening Ross Kelton's Club Royal Dance Band from the Grosvenor Palais will be heard in a programme of dance music.

10.30—Dance Band, continued; finale.

10.45—Station Announcements; To-morrow's Programme; National Anthem.

TUESDAY, JUNE 22.

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

11.30—G.P.O. Chimes.

11.41—Featuring a Steek Duo Art number.

12—G.P.O. Chimes.

12.1—News and Cable Service.

12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play; Selection; cornet; fox trot; waltz; waltz; selection; waltz; finale.

1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis and Station Announcements.

2—G.P.O. Chimes.

Afternoon Session. (3 to 5).

3—G.P.O. Chimes.

5.1—Relay from Maple Leaf Cafe: Orchestral Numbers.

5.45—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. Children's Concert, arranged by Miss Sylvia Thomas, L.A.B., A.M.U.A., L.M.A. (Auntie Sybil).
7.30—Stock Exchange, Market Reports and Station Announcements.
8—G.P.O. Chimes.

8.1—The Studio Orchestra will be heard in a special programme of classical and popular numbers. The following artists will contribute to the programme: Mr. Gerald Healy, tenor; Mrs. W. Keith Stewart, soprano; Miss Elsie Wilson, contralto; Mr. Arnold Matters basso; Mr. Tom King at the piano.
8.30—Cookery Talk arranged by S.A. Gas Co.
10.36—"Advertiser" News Service.
10.50—Station Announcements; National Anthem.

WEDNESDAY, JUNE 23.

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

11.30—G.P.O. Chimes.

11.31—Stock Duo Art and Aeolian Vocalion Recitals.

12—G.P.O. Chimes.

12.1—News and Cable Service.

12.16—Featuring a Stock Duo Art number; 5CL Studio Orchestra will play: Overture; cello; fox trot; valse lente; fantasia; selection; "Le chant des boulevards"; Instrumental trio; finale.

1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis, and Station Announcements.
2—G.P.O. Chimes.

Afternoon Session. (3 to 5).

3—G.P.O. Chimes.

3.1—Broadcast from Maple Leaf Cafe: Orchestral Numbers.

3.45—Serial Story from the Studio.

4—G.P.O. Chimes.

4.1—Relay from Arcadia Cafe: Orchestral numbers.

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

Evening Session (6.30 to 10.30).

6.30—G.P.O. Chimes.

6.31—Bedtime Stories for the Children.

7.20—Copee Lecture, Mrs. C. F. Fryer, B.Sc.

8—G.P.O. Chimes.

8.1—Relay from the Adelaide Town Hall: A Special programme of classical, instrumental and vocal numbers.

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

8.40—Glee Club Concert, continued.

9.1—Weather Reports.

9.5—Fred Cavallett's Havanah Syncoptors, in a programme of dance numbers.

9.40—Havanah Syncoptors, continued.

10.30—Havanah Syncoptors, continued.

10.55—Station Announcements.

THURSDAY, JUNE 24.

Morning Session.

11.30—G.P.O. Chimes.

11.31—Featuring a Stock 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 Stock Duo Art number; 5CL Studio Orchestra will play: On the Riviera; violin; fox trot; suite, Hiawatha; The wooing, marriage feast, bird scene, departure; cornet; morceau; noveau; finale.

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

2—G.P.O. Chimes.

Afternoon Session.

3—G.P.O. Chimes.

3.1—Relay from Maple Leaf Cafe, orchestral numbers.

3.45—Broadcast from Studio, Serial Story.

4—G.P.O. Chimes.

4.1—Broadcast from Arcadia Cafe, orchestral numbers.

4.55—Stock Exchange Reports, general information, and station announcements.

5—G.P.O. Chimes.

Evening Session.

6.30—G.P.O. Chimes.

6.31—Bedtime Stories.

7.15—Health Talk, given by School for Mothers, arranged by Mr. A. M. Whitebury.

7.30—Market Reports.

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

8—G.P.O. Chimes.

8.1—Relay from Adelaide Town Hall: A programme of popular musical numbers played by the "Merrymakers" Orchestra. Messrs. Forbes and Hawke, a comedy duo, will be heard in song and humour. Relay from the Aeolian Hall, Rundle Street—A special selection of request vocalion numbers with organ accompaniment by Mr. Broadbent.

9.3—Merrymakers, continued.

10.21—"Advertiser" News Service.

10.30—Merrymakers Continued.

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FRIDAY, JUNE 18,

Midday Session.

- 12—Time Signal. Latest Australian Cricket Eileen 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.
- 1.15—Stanley Adams, violin solo.
- 1.22—Jack O'Hagan, baritone.
- 1.26—Studio Orchestra.
- 1.40—Stanley Adams, violin solo.
- 1.47—Jack O'Hagan, baritone.
- 1.54—Studio Orchestra.
- 2—Close down.

Afternoon Session.

- 2.30—First half of programme transmitted from the Tivoli Theatre.
- 3.36—Miss Frances Fraser, talk.
- 3.45—Keith Desmond, monologist.
- 3.50—Frances Lea, soprano.
- 3.57—Au Fait, Fashion Talk.
- 4.12—Studio Orchestra.
- 4.22—Keith Desmond, monologist.
- 4.30—Frances Lea, soprano.
- 4.37—Studio Orchestra.
- 4.45—Latest Australian Cricket Eileen 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 Bobbie Blue-Goat; Story for the Tiny Tot, The Green Fur Coat; Poot, Seven times One (Jean Ingrey) and a travel story.
- 6.40—Latest Australian Cricket Eileen 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.
- 7.27—Fish Market Reports by J. R. Borrett Ltd.
- 7.4—Market Reports by the Victorian Producers' Co-operative Co. Ltd. Hay-market Sales. Poultry, grain, chaff, hay, straw, fute, dairy produce, potatoes and onions.
- Night Session.
- 7.20—Under the auspices of the Agricultural Department—Mr. J. M. Kerr, Chief Dairy Supervisor, "Dairying—Rethinking some of Production."
- 7.30—Mr. Ashol Tier, of the "Leave it to Jane company," Theatre Royal, will speak from his dressing-room by permission of J. G. Williamson Ltd.
- 8—Collingwood Citizens Band.
- 8.10—R. A. Bronowski, Talk on Great Men of the Age. "Signor Marcello."
- 8.30—Tasma Tierman, cello solo.
- 8.35—John Hebbis, baritone.
- 8.45—Studio Orchestra.
- 8.55—Miss Evelyn Ashley, soprano.
- 9.2—Miss Bessie Gamson, violin.
- 9.11—Mortimer J. Pettigrove, tenor.
- 9.20—Tom Gardner, Scotch songs.
- 9.30—Collingwood Citizens' Band.
- 9.40—John Hobbs, baritone.
- 9.50—Miss Evelyn Ashley, soprano.
- 10—Latest Australian Cricket Eileen scores, by courtesy of Reuters Ltd. "Argus" News Service. British Official Wireless News from Rugby. Meteorological information.
- 10.15—Agnes Fortune, pianoforte.

- 10.20—Bert Hopping, comedian.
- 10.30—Reginald Bradley, violin.
- 10.40—Norman Turnbull, bass.
- 10.50—The Studio Orchestra.
- 11—God Save the King.

SATURDAY, JUNE 19.

- 11—Harold Rodgers, organ recital.
- 11.10—Keith Desmond, monologist.
- 11.20—Sonora Recital.
- 11.27—Harold Rodgers, organ recital.
- 11.40—Keith Desmond, monologist.
- 11.50—Sonora Recital.
- 12—Time Signal. Latest Australian Cricket Eileen 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 N.S.W. Ocean Forecast. River Reports.

- 1—Time Signal.
- 1.1—Studio Orchestra.
- 1.10—Jack O'Hagan, baritone.
- 1.17—Tasma Tierman, cello solo.
- 1.22—Studio Orchestra.
- 1.32—Recall of Teelmbool Hurdle, V.A.T.C. Races, Caulfield.
- 1.39—Walter Smith, earnest solo.
- 1.40—Jack O'Hagan, baritone.
- 1.47—Studio Orchestra.
- 2.15—Recall of Mintonk Two Year Old, V.A.T.C. Races, Caulfield.
- 2.50—Recall of Richmond Cup, V.A.T.C. Races, Caulfield.

Afternoon Session.

- 3—The Merry-Maker's Orchestra.
- 3.25—Recall of Wanda Steeple, V.A.T.C. Races, Caulfield.
- 3.56—The Merry-Maker's Orchestra.
- 4—Recall of Gambia Welter, V.A.T.C. Races, Caulfield.
- 4.1—The Merry-Maker's Orchestra.
- 4.35—Recall of Roany Plate, V.A.T.C. Races, Caulfield.

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4.36—The Merry Maker's Orchestra.
4.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. Sporting Results. "Herald" and "Argus" News Services.
5—Close down.

Evening Session.

5.45—Sporting Results.
6—Children's Hour. Answers to letters, birthday greetings; Stories by Mary Gumble; Poems; The Land of Story Books and all Things Bright and Beautiful; For the littlest ones. "The wait a big man"; Girls, "The Mirror of Matsuguma" (A Jap. fairy story); Boys, "The Boy Corporal."
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.

6.58—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 unions.

Night Session.

7.30—Mr. Frederick Chapman, A.L.S., "Footprints on the Sand."
7.40—Dr. J. A. Leach, D.Sc., "Senses of Birds."
8—Time Signal.
8.1—The Brunswick City Band.
8.18—Thelma Neill, soprano.
8.26—Thema Tierman, cello solo.
8.30—John Donoran, baritone.
8.37—Lo Cassick's Quartette.
8.47—Mr. T. P. Court, "Control of Radiating Receivers."
8.57—The Brunswick City Band.
9.12—Rose Playden, contralto.
9.19—Studio Orchestra.
9.29—The Harmonists Male Quartette.
9.37—Joe Delaney, tenor.

9.44—Louise Morehead and William Tainsh, One Act Play, "Packing Up."
10.4—The Brunswick City Band.

10.16—Jack O'Hagan, baritone.
10.23—The Studio Orchestra.
10.34—The Harmonists Male Quartette.
10.42—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. A short resume of the wrestling bout at the Stadium, by Mr. Norman McCance.
11—God Save the King.

SUNDAY, JUNE 20.

Morning Session.

10.55—Service from the Australian Church, Russell Street, Melbourne. Forty-first Anniversary—Conducted by Rev. Dr. Charles Strong.
12.15—British Official Wireless News.

Afternoon Session.

3—Australian Church, Forty-first Anniversary. Speaker, Rev. W. D. Jackson, B.A., of Baptist Church, Collins Street. Chairman, Rev. Dr. Charles Strong.
4.30—Close down.

Evening Session.

5.45—Children's Hour; Stories by Billy Bunny; The Lost Garden; Loveliest Life; The Coming of the King.
6.30—Close down.

Night Session.

6.30—Service from Independent Church, Collins Street. Conducted by Rev. J. Ernest James, B.D. Preacher, Rev. C. D. Cousins, of Canton, China.
6.55—Orchestra: "The Death of Aaa" From the Studio.
8.30—Gilbert and Sullivan Company Double Quartette (by permission of J. C. Williamson Ltd.)

8.35—Studio Orchestra.
8.45—Edward Beecheroff, tenor.
8.53—Studio Orchestra.
9—A. E. Tarnat, baritone.
9.7—Robertson and Ramsay, duet.
9.13—"Argus" News Service.
9.27—A. Penrose, tenor.
9.34—Studio Orchestra.
9.44—W. Hilford, bass.
9.51—Double Quartette.
10—God Save The King.

MONDAY, JUNE 21.

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—Alma Horlock, soprano.
1.17—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.

Latest Australian Eleven scores, by courtesy of Reuters Ltd.
3—Studio Orchestra.
3.10—Mr. J. R. Locke, Travel and Adventure during sojourn in Persia.
3.35—Alma Horlock, soprano.
3.42—Reginald Bradley, violin solo.
3.45—Yetyi Lunden.
3.50—Miss Flora Pell, Supervisor of Domestic Arts, Education Dept.—Domestic Economy.
4.4—Studio Orchestra
4.14—Alma Horlock, soprano.
4.21—Studio Orchestra.
4.26—Yetyi Lunden.
4.33—Studio Orchestra.
4.45—"Herald" news service. Stock Exchange information. Latest Aus-

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5.—Close down.

Evening Session.

5.45—Children's Hour. Answers to Letters and Birthday Greetings. Little Miss Kookabara will have her talk to the children, then tell the story of Mollie and the Snowman, and an exciting story for boys, Cyclist Versus Tiger in the Jungle.

6.40—Latest Australian 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 Report by J. R. Barrett 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.

7.20—Under the auspices of the Develop Australia Committee, L. J. Waldron, "Central Australia as it really is."

7.40—Under the auspices of the Department of Agriculture, Mr. S. A. Cook, Citriculture, "Picking and Packing Oranges for Market and Export."

9—Prahan City Band, conductor, Mr. Percy Cole.

8.10—Miss Evelyn Ashley, soprano.

8.17—Flanours Recital by Mr. Harold Elvins, transmitted from Messrs. Allan's Music Warehouse, Collins Street.

9.2—Dr. Paul Dana, How to Develop Australia.

9.17—Prahan City Band.

9.2—Victorian Railway Institute Dramatic Society.

9.42—Florrie Gordon, contralto.

9.49—Prahan City Band.

9.54—Victorian Railway Institute Dramatic Society.

10.20—Miss Evelyn Ashley, soprano.

10.36—Prahan City Band.

10.41—Florrie Gordon, contralto.

10.45—Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd. "Argus" News Service, Stock Exchange Information, Meteorological Information.

11—God Save the King.

TUESDAY, JUNE 22.

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 solo.

1.16—Studio Orchestra.

1.27—Ethel Heaney, soprano.

1.34—Dorothy Roubenig, violin solo.

1.40—Stanley Adams, violin.

1.46—Ethel Heaney, soprano.

1.53—Studio Orchestra.

2.—Close down.

Afternoon Session.

3.—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.; Time Signal.

3.1—Studio Orchestra.

3.10—Mary Mack, contralto.

3.17—Tanya Tierman, violin solo.

3.22—Yetta Landau, musical monologue.

3.29—Studio Orchestra.

3.35—Metron Moreland, Infant Welfare.

3.50—Studio Orchestra.

4.—Mary Mack, contralto.

4.7—Bessie Gausson, violin solo.

4.12—Au Feit, Fashion Talk.

4.27—Studio Orchestra.

4.37—Yetta Landau, musical monologue.

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.—Stories by Mary Gumble. Poems: The Disobedient Chicken and Tit for Tat. Story for the Littlest one—Whom Daddy went camping; For the girls, The Beauty and the Beast; Boys, A talk on Boy Scouts.

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. Barrett Ltd.

7.4—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—R. H. Wilmut, Money from Waste.

7.40—Under the auspices of the University Education Board, Mr. J. R. Richards, M.A., Eighteenth Century Tales of Terror.

9.—A Concert by the Royal Victorian Institute for the Blind.

9.5—Royal Victorian Institute for the Blind Orchestra.

9.13—Junior Choir, Part Songs.

9.19—George Aitoun, Song.

9.23—Albert Harris, violin solo.

9.27—Fred Sutcliffe, Song.

9.31—Royal Victorian Institute for the Blind Quartette Party.

9.38—Royal Victorian Institute for the Blind Orchestra.

9.45—Speech by Mr. S. W. Hedger, Superintendent and Secretary, Royal Victorian Institute for the Blind.

9.55—Jack Byrne, song.

9.59—W. Rute, song.

9.3—Royal Victorian Institute for the Blind Orchestra.

9.8—Dr. Loftus Hills, "Popular Science."

9.30—Alfred Andrews, Introductory Remarks to Story of Peer Gynt.

9.35—Studio Orchestra, Peer Gynt Suite.

9.45—Agnes Fortune, piano, Reginald Bradley, violin.

9.55—Wally Bantline, baritone.

10.2—Agnes Fortune, Piano Solo.

10.8—Studio Orchestra.

10.15—Reginald Bradley, violin solo.

10.25—Miss Evelyn Ashley, soprano.

10.30—Scene from Peer Gynt, The Death of Aase.

10.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" News Service, British Official Wireless News from Rugby, Meteorological Information.

11—God Save the King.

WEDNESDAY, JUNE 23.

Midday Session.

12 noon—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. British Official Wireless News from Rugby. Reuters News Service, Shipping Intelligence.

12.45—Stock Exchange Information.

12.50—Meteorological information; Weather forecasts for Victoria, Tasmania, S.A. and N.S.W. Ocean forecast.

River reports.

1.—Time Signal.

1.1—Ham Johnson's Monte Carlo Band.

1.15—Mortimer J. Pettigrove, tenor.

1.22—Ham Johnson's Monte Carlo Band.

1.40—Mortimer J. Pettigrove, tenor.

1.47—Ham Johnson's Monte Carlo Band.

2.—Result of Hurtle Race—Melbourne Hunt Club, Moonee Valley.

2.1—Close down.

2.36—Result of Corinthian Handicap, Melbourne Hunt Club, Moonee Valley.

Afternoon Session.

3.—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. Result of Tally Ho Handicap, Melbourne Hunt Club Races, Moonee Valley.

3.2—Studio Orchestra.

3.10—Miss S. V. Parker, Week-end in a Mission Hospital—Rhanagat.

3.25—Vera Peterson, contralto.

3.32—Result of Hunt Steeplechase, Melbourne Hunt Club Races, Moonee Valley.

3.38—Station Trip.

3.42—Yetta Landau, monologue.

3.50—C. Richard Chugg, flute solo.

3.58—Vera Peterson, contralto.

4.5—Studio Orchestra.

4.16—Result of Maiden Plate, Melbourne Hunt Club Races, Moonee Valley.

4.17—Yetta Landau, monologue.

4.23—C. Richard Chugg, flute solo.

4.31—Studio Orchestra.

4.45—Result of Welter Handicap, Melbourne Hunt Club Races, Moonee Valley.

4.46—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Herald" News Service, Stock Exchange Information.

5.—Close down.

Evening Session 6 to 7.15

5.45—Children's Hour. Answers to letters and birthday greetings.

6.5—A Musical Hour for children, conducted 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.

6.57—Stock exchange information.

7.2—Fish market reports by J. R. Barrett Ltd.

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

Night Session.

7.20—Under the auspices of the Department of Agriculture, Mr. R. Crowe, "Grading and Packing Produce for Market."

7.40—Photographic Chat, Mr. H. C. Slocumbe—Photography as a hobby.

Part 1.

8.—Preston Citizens' Band; Lily Booth, soprano; Preston Citizens' Band; Irma Hughes, contralto; Preston Citizens' Band; Community Singing; Master Challenger, violin solo; Noel Bunker, baritone; Preston Citizens' Band; Captain Peters, Tenor; Wise and Otherwise.

Preston Citizens' Band Concert Part 2.

Preston Citizens' Band; Lily Booth, soprano; Preston Citizens' Band; Community Singing; Miss Llanos, violin solo; Irma Hughes, contralto; Preston Citizens' Band; Noel Bunker, baritone; Preston Citizens' Band.

10.45 approx.—Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd. "Argus" News Service, British Official Wireless News from Rugby, Meteorological Information.

11—God Save the King.

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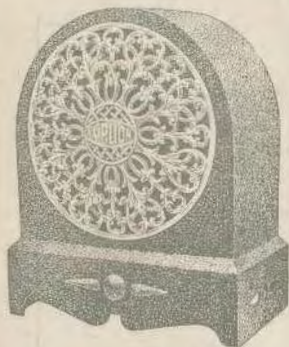
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