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Full Details, Prices on Application.

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Direct Factory Representative

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WIRELESS WEEKLY Fridny. February 8, 1926.

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

Note the economical pricing:

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Price</th>
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<tr>
<td>WP 30 volt</td>
<td>9/6</td>
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<td>WP 40 volt</td>
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<td>XP 40 volt</td>
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<td>XP 60 volt</td>
<td>33/-</td>
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This is what Mr. C. Maclure, the radio authority, has to say of Ever-Ready radio batteries:

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

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Designed especially for use with Dry Cell Valves. Will give more service than ordinary cells.

It is guaranteed shelf and storage life. 
No need.

Practically no voltage loss when not in use for months.

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Hermatically sealed within massive steel case, the Eureka is everywhere recognised as the long life Transformer. Discerning mechanics are finding that it is cheaper to pay more for a Eureka Brand, giving you’re of service, than to experiment with inferior instruments likely to break down after a few months use.

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THE FIRST ALL GLASS LOW-LOSS SOCKET.

100 per cent Insulation. 
Eliminates Valve Noises. 
Cuts down power losses.

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Original in the real beauty of its performance, original in its ingenious construction, original in its remarkable price. The horn is so contrived that every note registered is encompassed and emitted with absolute purity—there is no discordant echo from its walls. The full-toned accuracy of reproduction is consistent with the mellow note which is the chief characteristic of the famous Brandes Superior "Matched Tone" Radio Headphones.

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Crop for
Irrigated
Soils

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PAY YOUR BEE.

In South Australia, the Postmaster-General’s Department has been rounding up illegal listeners — that is to say, people who take all the advantages of broadcasting without paying for them. In some cases fines were imposed, and a further batch of prosecutions is pending.

Now while every fair-minded member of the community has the sympathy of the Postmaster-General with the man who is penalised on this count, we are inclined to the opinion that many of those who get themselves into this category until this unfortunate business do so out of sheer neglect and an improper rationalisation of what use the Licensees’ Fee is put to.

In the cases that have come before our notice we have found that the offender, or the prospective offender, has the view that the Broadcasting companies are more profit making concerns, giving back so little as they can for the return they get. Nothing is more erroneous.

Few people realise the organisation necessary to ensure a daily change of programme. In concert programmes, days and weeks of preparation are possible; in vaudeville and variety the programme runs for a week at least without any change of artist. But in broadcasting a fresh range of artists and tunes is required every night.

Thus there must be constant watchfulness and a broad vision ahead to make certain that nothing is repeated too rapidly nor that artists of similar quality of voice and style follow. If Mr. Listeners’ Fee would think it a little before he fulminates against the cost of his licence he would realise that only organisation of the highest type, requiring re-nomination concomitant with the ability displayed, will provide him with what he is getting for a minimum of effort and at price of a penny a day.

Nor does this touch upon the expenditure of running a broadcasting station. Copyright, payments of royalties on inventions, payment of artists, staff and clerical assistants have all to be met out of the revenue derived from the public. Consequently the duty devolves upon everyone to see that his own fees are paid promptly and cheerfully, and that all the thousand and one persons who seek consciously or unconsciously to evade payment are excluded in the duties of fair dealing.

A. W. WATT.
The New M.R.L. Straight Line Frequency Condenser

Embodies the utmost accuracy and reliability. Rigidly built. The straight line capacity is obtained by substatial construction of rotor and stator plates. End plates of special drawn aluminium. Stator plates welded in retaining parts allowing possibility of lowering, thereby cutting down electrical resistance to a minimum. Adjustable bearings and take-up arrangement.

27/6

DEALERS write for particulars.

Burgin Electric Co. Ltd.
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British Throughout — Therefore Best BURNDEPT WIRELESS APPARATUS

IT LOOKS GOOD! IT IS GOOD! IT SOUNDS — WONDERFUL.

Such a perfect combination as the Ethophone V., or Ethophone III., and the Ethovox Loud Speaker, is something to show your friends. Something to be proudly displayed because of its excellent results and fine appearance.

Write, phone or call for particulars, demonstration and illustrated booklet.

BURNDEPT
Australasia Limited

Broughton House,
181 Clarence St., Sydney.
Telephone: M 3732.
A Three Valve "Duplex" Receiver

By A. Alexander

Now that radio materials are comparatively cheap, new radios come nearly a first class receiver built on the duplex principle. No receivers of this type built in Australia are at present on the market, but nevertheless they are extremely efficient, and when properly designed and built are very easy to handle and maintain.

It does not seem so very long since the "Grimes" and "Dikens" duplex circuits were popular amongst those experimenters who were able to get satisfactory results from them, but the designs were better suited to American conditions, and components which were necessary for the reception of Australian radio broadcasting stations were not available.

In this article is presented the circuit and design for the construction of a three valve receiver suitable for use under Australian conditions, and which, in capable hands, is sufficiently sensitive to pick up all of the higher powered stations on the home speaker.

The circuit, which is shown in Fig. 1, makes use of two stages of radio frequency and two stages of audio frequency amplification, with a new type of valve detector.

The aerial is direct coupled and a honeycomb coil and variable condensers being used for tuning. Where greater selectivity is desired it will be necessary to use a loose coupled circuit, the aerial end being aperiodic. (See Fig. 4.) The radio frequency coupling between the two amplifying valves is made by means of an Australian-made radio frequency transformer, which efficiently covers the wavelengths between 220 and 1500 metres, without using switches.

The rectified current then passes through one stage of amplification at radio frequency, and to transfer the amplified current to the next stage a 3k to 1 unity transformer is included and wound up in the usual manner. The primary winding of this transformer is connected in series with the radio frequency transformer and the secondary of the audio transformer is connected in series with the secondary winding of the radio frequency transformer. This makes for efficient coupling, but it is quite simple and can be easily followed from the diagram, the terminal marking on each of the two transformers being indicated so that even the newest type can understand it.
Philips Valves are manufactured in Holland by the Philips Glove Lamp Works—a firm whose name is a household word wherever electricity is used. Having such an excellent reputation, it is not surprising that this firm has succeeded in producing valves which stand out because of their wonderful service and dependability.

PHILIPS' VALVES

Philips 2507 is an improved 201a type and is designed for general use as either a detector or amplifier. On account of its very large output, it is specially suitable as a Power Amplifier for Loudspeaker work.

- Filament Voltage: 8 volts.
- Filament Current: 0.25 amp.
- Plate Voltage: 20–120 volts.
- RETAIL PRICE: 11/6

PHILIPS 2406, "THE NEW WONDER VALVE." This is a new 2014 type. Filament voltage 4, while the current consumption is 1 amp only, whereas all values of 201a type take 25 amps, at 4 volts. This remarkable saving in current is effected without any loss in volume and indeed it may be said that the 2406 reproduces music more faithfully than any valve yet manufactured.

- Filament Voltage: 3.4–6.0 volts.
- Filament Current: 0.5 amp.
- Plate Voltage: 20–120 volts.
- RETAIL PRICE: 17/6

PHILIPS 2508, "THE ONE-GRILL VALVE." Detector and Amplifier.

This valve consumes less current than any other Valve yet produced and makes it possible to operate a set for many weeks on one dry cell. The filament is not coated with Thorium Oxide as in the ordinary Filament, but is made under a specially patented process, and as long as the marked voltage is not exceeded, the filament will keep the same characteristics throughout the life of the valve.

- Filament Voltage: 3.4–6.0 volts.
- Filament Current: 0.5 amp.
- Plate Voltage: 20–120 volts.
- RETAIL PRICE: 17/6

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It should be noted that the primary winding of the audio transformer, being included in a high frequency circuit, must be shielded by a small fixed condenser, so that a low path is provided for high frequency currents. This condenser has a capacity of .0005 mfd, as shown. It is important that this value be not greatly exceeded, otherwise resonance in the second amplifying valve may take place; .001 mfd. would be the limiting maximum for the majority of transformers.

The loud speaker is operated from the plate circuit of the second amplifying valve, a double circuit jack being provided so that when the plug is withdrawn the circuit will be closed. Across the jack is shunted a fixed condenser of about .001 mfd. capacity to form a direct circuit for the high frequency currents.

This feature is rather a novel one, as the receiver with accumulators and batteries can be housed in the back parts of the house, and the loud speaker placed in the main room, and for this reason alone the design may appeal to those who, although favorable to wireless generally, object to having a collection of accumulators and batteries in the best room in the house, where, unless handled carefully, they might cause some damage.
WIRELESS WEEKLY
Friday, February 5, 1926

DRY CELLS FOR EVERY PURPOSE

ALWAYS ASK FOR

Diamond Radio Batteries

MORE THAN A MILLION SUPPLIED ANNUALLY.

TELEPHONE CELLS.

"Cost
More
To
Build."

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

TELEGRAPH BATTERIES.

"Cost
Less
To
Operate."

"Diamond Bat-
teries make Good
Sets Better."


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Manufactured by
WIDDIS DIAMOND DRY CELLS
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Retail Price List
BATTERY
A 3/9 "Cot
130 "Cot
8.0 "Champagne
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1.7 "Melody
5.0 "Navy Special
5.0 "Prosperity
13.0 "Prosperity
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B 50 "Cot
245 "Cot
30.0 "Prosperity

C 1.0 "Cot
2.0 "Cot
3.0 "Cot
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Every Cell is Guaranteed. Made by Australians, in Australia, for Australians.

Supplied to:
Postmaster-General's Department
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Factory Representatives:
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"Kembla Buildings," Margaret Street, Sydney. Phone, 3872.

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Public Works
Water Board
New South Wales Fire Brigades
Ordinance Stores etc.

Manufactured by
WIDDIS DIAMOND DRY CELLS
PTY. LTD.,
West Melbourne, Vic.
In building the set the following parts will be required:—

1. Bakelite or Radio panel, 15in. x 7in. x 3/16in.
2. Bakelite or Radio panel, 7in. x 5in. x 1/16in.
3. Base (piano), 16in. x 9in. x 8in.
5. Rheostat to suit valves used.
6. Potentiometer.
7. Battery switch.
11. Valve sockets.
13. .0005 and .001 variable, plain and vernier condensers, slightly defective.
15. Audio Frequency transformers.
16. 30 ohm Rheostats.

FIGURE 4

The smaller panel is drilled for the terminals, of which there are seven in all, and screwed to the baseboard at the back of the set. The main panel may be drilled in accordance with the dimensions shown in the drawing, and if a standard Bakelite holder is used it may be mounted on the panel in a central position. Some people may prefer to use the standard Australian made coil mounts; these may be mounted externally or internally as desired, without affecting the design in any way.

The disposition of the parts on the baseboard is shown in Fig. 3, and for best results this should not be departed from except in minor details, as it has been found to be correct. A separate terminal is provided for the B battery supply to the plate of the detector valve. This could have been omitted, but it will sometimes be found advantageous to use different potentials on the plate of this valve, particularly if the valve itself has aged.

Incidentally, it is essential that hard valves be used in the amplifying stages, as a high plate voltage gives the best results. Note that the positive side of the C battery is connected to the negative side of the filament battery in usual, but that the potentiometer is connected right across the two batteries from C— to A—. When the C battery is not in use the C-terminal should be connected to the A—terminal with a short length of braid. A small fixed condenser of any suitable capacity (.001 mfd.) has been found suitable, but it is not essential) is placed in the earth circuit, in order to prevent interference from low frequency parallel current flowing from the earth into the receiver, and, furthermore, the grid end of the secondary winding of the first audio transformer is not held at earth potential.

If this design is followed carefully and the usual precautions are taken when ‘wiring up,’ builders will have no difficulty in obtaining satisfaction from the operation of the most powerful and sensitive three valve receiver yet designed.

Sale of Surplus Stock

MORE GENUINE BARGAINS FOR THE HOME CONSTRUCTOR

.0005 and .001 variable, plain and vernier condensers, slightly defective.
Single and double earpiece telephones and headbands.
Audio Frequency transformers.
30 ohm Rheostats.

ON VIEW

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Address all mail orders to Dept. F.
The Greatest Success

Start Your Subscription with No. 1

Radio Press Limited

George Field
337 Hunter Street, Newcastle (Phone 1165)
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Your mail orders despatched same day at lowest ruling prices. Write for lists.

The Largest and Oldest Radio Supply House of the North.

Wholesale Wireless

"Cable" Sets & Components

O.V. Portable Aerials

3/6 and 7/6

For Picnics, River or Flat

No Insulators Required

"Cable" Crystal Receivers

Totally enclosed

Price: 22/6 Retail

"Cable" (British Made) Headphones.

4000 ohm. Molephone Terminal Fused for Connecting Several Pairs of Phones in Series or Parallel.

Price: 22/6 Pair.


Cable House,
234 Pentonville Road, London, N.
(Telegrams: Grandchild, London.)
Should Regeneration be Barred

A Debatable Point

By “WIRELESS WEEKLY.”

Whenever several broadcast listeners or experimenters get together, their conversation drifts aimlessly from one topic to another, until finally some one brings up the subject of regeneration. One man will state positively that regeneration in the present stage of radio broadcast development is an abominable evil, that it is responsible for distorted reception by its user, and owing to its radiating properties spoils DX reception for hundreds of other listeners. Another who has probably never used any other circuit than the P one circuit, emphatically declares that regeneration is the most valuable phenomenon of all radio reception, and that its use should be freely encouraged. If one analyses the situation from a cool and unbiased standpoint, he will be forced to voice the conclusion that the contentions of both men are very worthy of support, although neither debater is fully justified in demanding a complete capitulation to his ideas.

Arguments for Regeneration.

Supporters of regeneration base their arguments along the following lines. They show rather convincingly that regeneration has been the outstanding feature in some form or other of practically every receiver produced since Armstrong discovered it some twelve years ago. They take particular delight in pointing out the economy per tube of the regenerative set, and will quote instance after instance in which simple home construction sets of one, two, or three valves have outstranked in performance formidable commercially made outfits using twice the number of valves. They declare that simplicity, economy and unfailling effectiveness of circuits similar to the P one have done more to popularise radio broadcasting than any other factor.

Arguments against Regeneration.

The opponents of regeneration cheerfully and disarmingly admit the truth of these assertions. They probably then commence the defence of their own position by accusing their friends of failing to observe a proper perspective of the radio broadcast situation as it exists to-day. They take particular delight in pointing out the economy per tube of the regenerative set, and will quote instance after instance in which simple home construction sets of one, two, or three valves have outstranked in performance formidable commercially made outfits using twice the number of valves. They declare that simplicity, economy and unfailling effectiveness of circuits similar to the P one have done more to popularise radio broadcasting than any other factor.

Analysing the Position.

Statements of both sides bear up very well indeed under close scrutiny; perhaps the one most likely to be questioned is that concerning the tone-deestroying conduct of regeneration. But this is undeniably true. If you doubt this statement, short circuit your tickler coil altogether for one moment.

For humorous readers, the following cartoon offers some food for thought:

[Cartoon: OLD SOW RADIATOR.
I knew an old sow who be-cluttered the air;
She has many children—she has ‘em for far;
She gives squeaking lessons to all her young brats—
(For sharp collations, they love it on cats.)
A selfish old hog—with the sharpest of voices,
In spoiling our contests she only rejoices;
Sing hark—for a time to put her on the “shh”—
And listen, dear fan—don’t raise an ‘f of her kids!]

—Drawn and verse by W. R. Bradford.

(The cartoon and verse shown above are reproduced by courtesy of “Radio Broadcast” U.S.A.)
COME UNTO US

ALL YE

Who Would Build His Own Radio Set

AND WE WILL SHOW YOU HOW!

(Ad: How to Build Your Own Radio Set)

Valve Pockets: American Radiator, 2/- to 6/-
Valve Bulbs: Torpedo Standard, 7/6 and 4/-
Rheostats, A1: 30 or 9 alone...
Rheostat, Rheostat and Clamp, 20 alone...
Mains-Stay, Ideal for the March Rain
Always keep your listening apparatus clean
Antennas: By Automatic Fanzard Control
Get your valves, new and used...

Audio Transformers: General (Armstrong), 2/- to 1 or 2/- to 1...
Audio Transformers: Kilburn and Clarke
Super Audio Transformers: the "Secret Harmony," the best Audio Transformer in
Headsets, the S. & L. Special, highly sensitive
Headphones, the A. & L. Special, very sensitive
Variable Condensers, Emporium Crompton
...on...

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Call and see Mr. W. L. Hamilton at our Sydney Store every Friday Evening, who will advise you about your Radio problems FREE.

COUNTRY CUSTOMERS: Please note that all orders are dispatched where possible same day as received. Our batteries are guaranteed fresh, and valves are most carefully tested on special instrument before dispatch. Goods can be forwarded Via Post.

We pay carriage on goods in the value of 15/- or over, except on Batteries and Loud Speakers.

"Terms for lower prices."
The feedback action, the supplying of additional energy to the weak signals picked up by the aerial, builds up the irregular impulses that make up radio telephone speech or music and changes their characteristic shape. The signals are increased in volume, yes, but at the same time they are robbed of their tone qualities, and are reproduced as distorted sounds. Exponents of regeneration will probably answer this objection by saying that the extent of the damage to the quality of tone depends on the limits to which the feedback is pushed. They suggest that the set owner reduce the coupling or use a smaller tickler coil. Their opponents usually have the last word in the matter by stating that if the coupling or tickler is reduced the operator will lose simplification as rapidly as he probably will not be satisfied with the volume of response.

Conclusions.

This phase of the question is obviously debatable for ever, but without a doubt it is exactly what is happening in the cities and the suburbs every night. So many listeners are endeavouring to receive the Inter-State stations on satisfactory volume (with impossible sets), that the results all round are far from satisfactory. The problem of radiation caused by regenerative sets has been dealt with many times in "Wireless Weekly," and it is not necessary to repeat here the many descriptions of the weird squawks and hisses every radio set owner has heard. Those however, who subscribe regeneration and who are not content to sit back and see a valuable radio asset outlawed by the pounding of the tickler coil in the plate circuit of the detector valve tuned. In both these circuits, means are provided for the neutralisation of the internal capacity effect of the R.F. amplifier valve or valves. In the case of the Browning Drake circuit the tickler coil in the plate circuit of the detector valve is arranged in the ordinary electrical and mechanical manner, but it is made purposely small to keep the entire set stable and free of oscillation.

This method of regeneration furnishes enough protection from radiation and sufficient increase in selectivity and sensitivity to make it well worth while experimenting with. Both the Browning Drake and Neutrodyne receiver (with regenerative detector valve) have recently been described in "Wireless Weekly," so that further space will not be taken up now, claiming their wonderful advantages over the ordinary regenerative type of receiver. There is no doubt however, that these types of receivers afford a favourable balance between the undesired straight regenerative hook up and the multi stage R.F. outfits that should content both the exponents and opponents of regeneration. The exponents should be satisfied because they will be able to see the tickler coils flapping against the secondary, the opponents can concede that radiation and distortion will exist in quantities too small to make themselves manifest.

(Editors Note: We again suggest to city readers who are at present using full regenerative sets to experiment along the lines described in "Wireless Weekly"s article of Nov. 20, 1925, "R.F. Amplification with correct Neutralisation." Remember that one evening's dial-wishing with a regenerative receiver will indirectly cause poorer programmes not only from your local station but from the Inter-State station also.)

The Highest Mast in the World

KOLDIWSWETTARUSSEN CALLING:

The highest mast in the world used exclusively for wireless purposes has recently been completed at Koldiwsweeterrasen, now the leading German station for the transmission of business and press communications.

The mast tower is 165 ft. in height, while there is a small machine house with a 50 ft. tower. It is proposed to incorporate the transmitter in a 165 ft. extension to the main tower.

An interesting point here is the fact that only 196 tons of iron were used in the construction of the German tower as compared with 7,000 tons used for the Eiffel Tower.

SHORT-WAVE BROADCASTING FROM WGY.

As a wireless research centre, the experimental laboratories of the General Electric Company at Schenectady, New York, probably rank among the largest in the world. At the present time no fewer than nine transmitters, some of them broadcasting, are operating from this spot. Each has its own antenna system and individual wavelength for its special task. The stations transmitting programmes from the WGY studios are 2XAF on 376.6 metres, 2XX on 198 metres, and 2XAP on 41.58 metres. C.W. transmissions are conducted from 2XAX on 314 metres, 2XAF on 89 metres, 2XAB on 21 metres, and 2XAW on 16 metres. 2XAI, which works on 1,500 metres, is undergoing changes in design at the moment, but will resume transmissions in the near future. From 11 p.m. (G.M.T.) onwards on Mondays, Tuesdays, Thursdays, and Fridays, 2XX and 2XAP transmit WGY's programmes on 200 and 41.88 metres respectively.
1926 RADIO

New Lines Just Landed

CLEARON VALVES.
Banked by an unchallenged Guarantee. Ask for
booklet showing the remarkable characteristics
of three Valves.

CT 900A ............. 17/6 each.

CT 190 ............. 17/6 each.

THOROLA AUDIO TRANSFORMERS.

Model 350, Black ............. 21/- ea.
Model 351, Black ............. 29/- ea.
Model 351, Gold and Black .... 27/6 ea.

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SUPER MULTI-FORMER.
For SUPER HEAD SETS ........... 26/-.

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An ideal STRAIGHT LINE COMBINDER, for
separating close stations ........... 82/6.

LOUD SPEAKER & BATTERY CORDS.

Phono Cord, 5 ft ............. 2/9 and 3/6.
Loud Speaker Cord, 5 ft ........ 2/9.
Loud Speaker Cord, 10 ft ....... 5/6.
Loud Speaker Cord, 20 ft ...... 9/-.
A and B Battery Cords ........ 8/6.

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Porcelain, 201A ............. 4/-.
Genuine Bakelite, 201A ....... 3/-.

SPECIAL NOTICE—MAR CO VERNIER DIALS.
We apologize for not being able to meet the tremendous demand for these Vernier
Dials, but another shipment is due to arrive in a few weeks, and orders will be executed
strictly in rotation. ACCEPT NO Imitations. There is only one genuine Mar-Co
Vernier Dial.

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Adelaide: 151 North Terrace
Wellington: 62 White St.
Auckland: 51 Queen Street

Obtainable from Leading Radio Dealers, or

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Friday, February 6, 1926,

NEW "B" BATTERIES.

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Harrup, 45 volt ............. 20/-
Windover, 21/- volt ........... 15/-
Eversholt, 40 volt ........... 25/-
Eversholt, 60 volt ........... 38/-

PHILIPS PRODUCTS.

Phillips Battery Changers, £6/- and £5/10/-. 
Simple, most efficient, no troublesome ad-
justments. Phillips Valves from 7/- each.

NEW LINEX.

MAR CO RADIO PRODUCTS.

Mar-Co Vernier Dials ............. 10/6 ea.
Perfecta Stepless Phone Plug ........ 3/6 ea.
Restraining Chokes ............. 8/0 ea.
Mar-Co Variable Gridbias ........ 7/- ea.
Mar-Co Battery Switches ......... 2/6 ea.

NEW "B" BATTERIES.

Burgess, 21/- volt ............. 15/-
Harrup, 45 volt ............. 20/-
Windover, 21/- volt ........... 15/-
Eversholt, 40 volt ........... 25/-
Eversholt, 60 volt ........... 38/-

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Simple, most efficient, no troublesome ad-
justments. Phillips Valves from 7/- each.

NEW LINEX.
Fliday, February 5, 1926 WIRELESS WEEKLY Page Seventeen

SEASONINGS WITH A TOUCH OF MIXED MUSTARD.

On With the Jazz.

Miss Igal Hime, the jazz pianiste, continues to set many feet dancing with her syncopated rhythms transmitted by Station 2BL. Those propitiates whose voices were heard through the land prophesying the early cessation of the public demand in this regard are steadily proving themselves to be unworthy of their self-chosen position inasmuch as the demand steadily increases. Miss Hime is one of those fortunate persons whose natural ability to play strongly marked and rhythmical music is assisted by a fine technical training.

Celebrated Cellist.

The 'cello voice of Mr. Bryn Carter continues to delight the listeners, and many expressions of appreciation are constantly being received. Mr. Carter's mastery of his instrument is specially marked by the business and quarterly voice that marks every turn which he plays. It is generally admitted that the 'cello produces a tone closest to that of the human voice, and consequently there is a speaking quality about 'cello music which has a very marked appeal. Mr. Carter has had a wide experience as 'cello soloist, travelling with distinguished artists, including Madame Melba, and was also the 'cello in the orchestra of the Malin Willimas grand opera season.

A Popular Songster.

Madame Iva Clarke, whose contralto voice was at one time a regular feature of 2BL's programmes, has returned to Sydney after a lengthy absence and will be heard again almost immediately. As Madame Clarke is a favourite artist with the public generally as well as with the listeners, the fact of her return to Sydney will be the cause for general rejoicing amongst the smiling public.

A Coloratura Soprano.

Miss Daisy Mangan, the coloratura soprano who is an exclusive 2BL artiste, will be heard again on programmes during the month of February. Miss Mangan excels in opera arias, whereas the coloratura quality of voice is specially kind to advantage. Items such as "The Bell Song" from "L'Elisir" are sung by Miss Mangan with commensurate ease.

BURGESS—"FIT ALL CABINETS"—BATTERIES
QUALITY!

The world-wide sales of famous IGRANIC Radio Devices literally run into millions annually. What finer tribute could be paid to their sterling quality and all round general efficiency?

A satisfied user in Sydney tells us that the superb IGRANIC honeycomb coils, for instance, mean all the difference between his getting, and not getting, far distant stations.

Similarly with broadcast reception; if you will have the purest reception with the fullest volume you must use quality apparatus—and the IGRANIC trade mark on any article symbolises the highest quality.

Are you disappointed with, and perhaps a little weary of your present Radio activities? Then why not scrap those cheap and nasty parts—and build a better set with IGRANIC Radio Devices.

Refuse Substitutes—
—Insist on IGRANIC

All dealers stock them.

Write for booklet No. 3.

NOYES BROS.

(Sydney) Ltd. (Melbourne) Pty. Ltd.
SYDNEY . . . . 112 Clarence St. MELBOURNE . 495 Bourke St.
NEWCASTLE . . 11 Watt St. ADELAIDE . Darling Buildings, Franklin St.
BRISBANE . . . Perry House HORSE . . . 165 Macquarie St.
And at Launceston; also from J. W. R. Gardam, Perth.
The wireless weekly: the hundred per cent Australian radio journal

300 PRESENTS:

Miss Effie Armstrong, considered whose voice is one that the other falls very much in its liking, has had the experience of singing from both sides of Australia to the other side. While on a visit to Perth she was introduced to the manager of 6WF, who invited her to sing at that station, and the experience there gained at that station stood her in good stead when in her turn she visited 3LO and was at once asked to sing there also. It is not every Australian voice, rich and flexible though it may be, that is suited to broadcast transmission. There are some voices that can carry or some method of voice production that make a microphone an "Aladdin’s lamp" and create a voice that produces a mellifluous quality in the transmitted tone and yields the full round, resonant and thrilling depth and breadth of the real unamplified concertina. Whether it be the voice itself or its delivery of it or some innate gift of selecting the microphone in just the right way Miss Effie Armstrong’s voice certainly cuts broadcasting. Those who have heard her there will beinterested to know that Miss Effie Armstrong is a pupil of the Albert Street Conservatorium, B, Melbourne, where she won the Mary Campbell Scholarship, and has taken a prominent part in the various student concerts held there annually, one of her latest successes by a newspaper critic as “an arresting figure” meaning, doubtless, that Miss Armstrong is good to look upon, and certainly her presence in broadcasting is not at all likely to be lopsided when at some not very distant date the appearance as well as the voice of the singer is transmitted by 3LO or other up-to-date stations. Listeners to will be glad to hear that Miss Effie Armstrong is to be heard in the forthcoming Gilbert and Sullivan opera season.

A STAR IN THE 3LO FIRMAAMENT.

Miss Violet Jellicoe, soprano, has a fairy godmother who at her first birthday presented her with a voice, and on her twenty-first presented her with the substantial and practical gift of getting it well trained. At even a school she took prizes for singing, although in spite of being a Victorian girl, she never for some reason entered the competition held in her native town. By advice and wish of Madame Elite Davis, Miss Violet Jellicoe entered for and won the Grand Exhibition of the Meeta Conservatorium in 1922, and has retained it each year, under the tuition of Madame Anna Jensen. Miss Violet Jellicoe has an operatic嗓子 well suited to broadcasting being of that quality usually called strong, although it is very flexible and what a musician (Continued on Page 21, hint. Col 1.)
BANISH ISOLATION!

Have you yet realised what a tremendous difference RADIO can make to your simple life?

How it can bring the music of the Metronome and the correct full right into your home?

Have you realised the difference between reception from an ordinary valve and one which is made by

PHILIPS?

We specially recommend the following two Valves—

A110. The One Cell Valve. Consumption, 3.0 to 1.5 volts, .66 amp. The most remarkable valve yet produced, as it enables you to run such valves for weeks on one Dry Cell, while the volume and tone are exceedingly good.

Price, 1/6 each.

B102. The New Wonder Valve. The B102 is in a class by itself, as it is the first Low Frequency Amplifier which attains a maximum current of 50 milliamperes with a maximum consumption of only 6.3 milliamperes at 12 to 20 vacuums only a Two Cell Dry Battery or Three Dry Cells should be used, thus saving a further remarkable saving.

Price, 2/6 each.

Obtainable from all Radio Dealers.

Ask your Dealer for illustrated folder describing these wonderful Valves.
CONCERNING REGINA-UXFORMERS.

To the Editor,

Dear Sir,—I am writing you in connection with the Hetrodrag Drake Reginauxformer. I have made and used one in my set, and find that it gives excellent results. Moreover, it is extremely simple to make.

I am using the Hilliard circuit of "Wireless Weekly," 18th September, 400 and 8666 condensers and by radio, emitting F condenser as in circuit, but putting a 5001 over the plate. The one I made was as follows—

The tube is a piece of cardboard bent round, 2½ in. x ½ in., with 50 turns No. 18 gauge wire on it for primary. Out two washers of cardboard to fit in the rod and three glu, smaller; put the latter between the other two and back together, then wind on mark 29 gauge wire as will groove. My reaction coil is of 29 gauge wire wound on a bit of cardboard tube, and a piece of stick through it and the larger one. The first turn or two one goes in the gauge terminal, and the last turn or outside one goes to the aerial; the first turn of secondary goes to gauge terminal of the condenser, and the last turn to gauge terminal of loudspeaker. I have it set on a piece of bakelite, 1½ in. x 4½ in., with three phone terminals at end, to put the ends of the wires into. I work it

(Continued from Page 12.)

would call full of colour. Under the very good system of the Conservatorium, several advanced students are each year given the opportunity of making a singing tour of Victoria, whereby they gain exceptional experiences in platform work, etc. Miss Violet Jackson has in this way already become known to many country listeners first-hand, as it were. Educated at "F_third", Brighton, under Miss Cansier, whose instance on their and refined education and choice of words is well known, Miss Violet Jackson is noted for the rather unusual distinctness of her articulation when speaking to the microphone, and also for her nice choice of songs. She sang before the staff of the Conservatorium last year, and so may be said to be quite an "old hand" as broadcasting. At the University Concerts that have been a feature of broadcasting even before S.O. (dating from the time of that pioneering amateur, "R. B. Pat"), Miss Violet Jackson has appeared as Elsa in "Lohengrin," Santuzza in "Cavalieria Rusticana," and Leonora in "II Trionanto." Her future appearances on a more extended stage will be eagerly watched for by a wide circle of appreciative listeners.

What They Write

SIXTEEN WEEKS AGO.

Dear Sir,—I am writing you in connection with the Hetrodrag Drake Reginauxformer. I have made and used one in my set, and find that it gives excellent results. Moreover, it is extremely simple to make.

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W. M. SANFORD.

(Continued on Page 29)

STANDARD FREQUENCY TRANSMISSIONS.

Amateurs should not overlook the fact that 2WI is still carrying out standard frequency transmissions every Tuesday night.

The following is the schedule adhered to, and the code signals designating the various wave-lengths upon which signals are transmitted. Bicycle, phone, and C.W. are used—the two former are approximately accurate, but the C.W. may be regarded as exact:

<table>
<thead>
<tr>
<th>Wave-length</th>
<th>Frequency</th>
<th>Code Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 metres</td>
<td>1,360</td>
<td></td>
</tr>
<tr>
<td>300 metres</td>
<td>1,064</td>
<td></td>
</tr>
<tr>
<td>350 metres</td>
<td>1,460</td>
<td></td>
</tr>
<tr>
<td>400 metres</td>
<td>2,575</td>
<td></td>
</tr>
<tr>
<td>450 metres</td>
<td>5,200</td>
<td></td>
</tr>
<tr>
<td>500 metres</td>
<td>8,600</td>
<td></td>
</tr>
<tr>
<td>550 metres</td>
<td>11,700</td>
<td></td>
</tr>
<tr>
<td>600 metres</td>
<td>15,980</td>
<td></td>
</tr>
<tr>
<td>650 metres</td>
<td>20,400</td>
<td></td>
</tr>
<tr>
<td>700 metres</td>
<td>24,800</td>
<td></td>
</tr>
<tr>
<td>750 metres</td>
<td>29,200</td>
<td></td>
</tr>
<tr>
<td>800 metres</td>
<td>33,600</td>
<td></td>
</tr>
<tr>
<td>850 metres</td>
<td>38,000</td>
<td></td>
</tr>
<tr>
<td>900 metres</td>
<td>42,400</td>
<td></td>
</tr>
</tbody>
</table>

It should be noted also that special transmissions are conducted from 2WI commencing at 9.30 p.m. every Tuesday on 100 metres. These include technical and semi-technical information and general news of value to amateurs.

FOR THE CRYSTAL USER.

One of the new and unique ideas of modern crystal reception is the shorthand Morse Detector, obtainable at Harrington Ltd.

It is simple and ready for panel mounting, supported on two detachable screw lips, the whole of the detector being nicely covered with a silk cap.

The ear-whistle is arranged to make perfect and continuous contact on the whole surface of the crystal with the name-sake ear.

It is much perfected details as this that are increasing rapidly the popularity of the crystal receiver.
RADIO PANELS

To those who are about to build their own Radio Set, we submit the following. These prices of Bakelite we would mention are the lowest prevailing in Australia.

BAKELITE

Cut to any desired size

<table>
<thead>
<tr>
<th>Size</th>
<th>Price per square inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8in</td>
<td>1d</td>
</tr>
<tr>
<td>3/16in</td>
<td>3d</td>
</tr>
</tbody>
</table>

Diaphragms for Manhattan Junior Speakers, each ... 2:0
Filko-Stats. Your set deserves one, each ... 12:6
Vernier Attachments, 100 to 1 ratio, each ... 3:0
Accuratum Ultra- Vernier Dials each ... 25:0
Bakelite Valve Sockets (special line) American, each ... 3:0
Argus Lightning Arresters, porcelain covers (approved by Fire Underwriters), each ... 7:6


Your inspection of the big display of everything that is new in the world of Wireless is invited.

(Wireless - Second Floor)

Anthony Hordern & Sons Limited,
Bickfield Hill, Sydney

Mick Simmons Ltd
THE WORLD'S GREATEST SPORTS STORE
Headquarters: HAYMARKET, SYDNEY
AMATEUR ON HIGH WAVES.

It is some months since an amateur has been heard on broadcasting bands around Sydney. On 4th and 6th December the other was disturbed a little by 4KW (H. Walsh), who is on the staff of G. O. Wills in Elizabeth Street. Using an output of 3 watts he was clearly heard when 4QG was on the air, but the modulation was bad. It is hoped that he will come on a little more frequently with gramophone records.

4KW is expected to be back on the broadcast wave, transmitting records. When he starts it will remind us of the days before 4QG started, when amateurs constantly supplied gramophone programmes.

AUSTRALIAN PRODUCTS

An Appreciation.

"I have pleasure in advising that the Super Radio Frequency Transformer you recently supplied to me has proved an unqualified success," says R. R. Higginson, Wyong Road, Morrison, in a letter to Amalgamated Wireless.

"I would unhesitatingly recommend anyone desiring of adding a stage of radio to use the "Super"—it does not make the set any more difficult to handle, but the volume and quality of reception is considerably improved, being all that could be possibly desired.

It is all the more pleasing to me to obtain such wonderful results with an Australian article, and I anxiously look forward to the further development of A.W.A. products."

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

RADIO SET ON TIME PAYMENT

COMPLETE READY FOR USE at Prices and Terms to suit every pocket

JAZZ UNPOPULAR

King Jazz is Slipping! Classical music, via loud speakers and earphones, is frowned by the musical world. I, said to be completely contrary to all expectations, was initiated by a widely broadcast poll conducted by KOA. Voting was heavily stimulated by a spectacular musical competition between jazz and the classical school, staged as a programme novelty by the station. Leading artists and representative compositions of both factions were featured. Broadcast listeners, representing all walks of life and rating virtually as an international mutual jury, voted three to two that jazz is falling behind in popular favour, and therefore will never replace the worth of conventional compositions.

As judges of this studio clash, listeners were invited to vote jazz, classical, or for a combination of both types of music. On the face of virtually complete returns from listeners, the classical side won three to five every time in the two with jazz.

Of the total votes cast more than 50 per cent. favoured the classical school, the remainder being split between proponents of jazz and those who lean to a combination of both. A tempo and conventional numbers.

All but five Western States swung to the classical column. Arizona, Wyoming, and North Dakota gave an overwhelming choice to rapid fire symphonies. South Dakota, it was noted, gave its majority to classical. A further check of ballots received indicates that Arizona and Utah are on the fence with a dead vote between the opposing musical camps. Voting in Colorado was close.

The contest was arranged to test the relative popularity of the opposing musical schools, and was believed by its sponsors to be one of the first national polls ever undertaken by a leading broadcasting station.

Women, according to KOA's records, cast approximately half the total ballots, whereas less than a year ago barely one-fifth of all mail addressed to KOA was written by women. It was said. What say the women of Australia!
Special Features of
Wondertone 4 Home Construction Receiver

Astounding Results

"Lion Micro" Permanent Detector

WILES' WONDERFUL WIRELESS and ELECTRICAL STORES

No! Now Shipment:
Marco Velvet Vernier Dial 1G each

New Shipments:
Tiffany Ggt 90 Volts "B" Battery, Portable Voltmeters 12-0

No! Now Shipment:
Marco Velvet Vernier Dial 1G each

WILES' WONDERFUL WIRELESS and ELECTRICAL STORES
THE WONDERFUL TRUE BLUES

The World's Best.
The only Valve free from microphone noise.
Lower Bakey consumption—2 to 5 times longer life. Cheapest in the long run. The Power Plus True Blue fits all sockets, and gives double the signal strength of dry cell Valves. Price same as standard size.
Get True Blues and bear some—not noise.

Heath Three-Stage Resistance
Coupled Amplifier

Produces a purer tone and saves the cost of Transformers.

As above, completely wired and assembled, including sockets, terminals, etc., ready to attach to plate of Butteron Valve.

79/-
Instructions with every Set.

TUNGSTALITE
is the Best Crystal
NOT a DAD SPOT in it,
A NEW CATHODERAYS IN EVERY BOX.

Sole Agents:
PARBON & WHITTEMORE LIMITED,
20 MARKET STREET, SYDNEY.

A FURTHER REPORT
from
KOSCIUSKO

The Wireless Set supplied by David Jones to the Hotel Kosciusko continues to give excellent results. It has now been in operation several months. Its continuous reliability is most gratifying to David Jones Radio Department and also to Mr. Charles Madeiros who designed this instrument for the Government Tourist Bureau.

Sets similar to this, and all other radio sets and accessories can be immediately supplied by our Radio Department.

Let our Experts solve your wireless problems. If your set is not giving the best possible results (phone City 6326 or 2697) and a qualified engineer will call and effect a repair or alterations at the lowest possible cost. Advice is given freely.

DAVID JONES
TO THE KIDDIES

One Guinea Prize

FOR SUCCESSFUL COMPETITOR.

Limited to Children.

Everybody knows Uncle George and his G-O-D-N-I-G-H-T is familiar to every little one who listens in to 2BL.

Now this little competition is to enable every little listener to put down on paper his or her impressions of him.

It can be done in a short verse of six or seven lines and so that you may get the idea, we are showing you a sample of what we mean.

Here it is:

"Uncle George is short and thin,
But he has a voice of gold,—
Every Kiddy's love he wins,
And he's not so very old—
All the Kiddies want to hear
The way he talks out loud and clear
G-o-o-d N-i-g-h-t."!

Now it doesn’t matter if you have never even heard Uncle George. You have HEARD him hundreds of times—yes, you know the funny things he says, the quaint songs he sings and the jokery he tells. It is very easy to write a little verse describing your impressions of him.


Tell it in a little verse—and try to win the guinea prize which "Wireless Weekly" is awarding February 5th. This competition is only open to girls and boys under the age of twelve about the winner whose name will be announced in due course in "Wireless Weekly."

Entries must reach us not later than Friday, February 5th.

Enclose your verse in an envelope, mark the envelope in the left hand corner “Uncle George,” and mail it to "Wireless Weekly," 12/15 Regent Street, Sydney.

No more than two attempts are allowed to each competitor.

THE JUDGES FOR THIS COMPETITION ARE MR. C. C. FAULKNER, DIRECTOR RADIO BROADCAST BUREAU, UNCLE JACK (2BL) AND THE EDITOR OF "WIRELESS WEEKLY."

A cheque for one guinea will be forwarded to the winner whose name will be announced in due course in "Wireless Weekly."

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

HELLO! HELLO!

UNCLE GEORGE SPEAKING.

Well, children, how are you all this week? Uncle George is very pleased to continue his weekly chats per medium of "Wireless Weekly," and you will not be surprised when I tell you that I am receiving many letters from little ones in all parts of Australia, telling me that they have seen my photograph in "Wireless Weekly," and also how pleased they are with my little weekly chats.

Now to get down to business. This week I just want to talk to you about interference. Now, a listener, sweethearts, in other words, is a small poem cleverly written, with not too many words, and must rhyme. For instance—

"When Uncle George is on the air,
I love to listen in;
And I don't really care a bit
If he is fat or thin.
Every night I love to hear
His calling to me loud and clear—
G-o-o-d N-i-g-h-t!"

Do you know that "Wireless Weekly" is offering a prize of a guinea for the best listener written by a boy or a girl under the age of twelve about Uncle George? Now, I want to see what you can do. When you have made up your listener and are quite satisfied with it, put it to "Wireless Weekly," 12 Regent Street, Sydney.

Now, OCTOBER HOWELL of Chatswood, wants to know why, since 2KY started, he cannot hear Uncle George as well as before. This depends what kind of receiver George is using. If he uses a crystal receiver, it is quite possible that he is getting interference from 2KY; the tuning of some crystal receivers is rather broad. The trouble, more than likely, would be got over by using a wave-length, which, by the way, has been described a number of times in "Wireless Weekly." If he is using a valve set, however, there should be no interference provided, of course, the circuit of his set is a good one. If George will send some more particulars of it to me, I could probably be able to help him further.

Len Ross, who, by the way, is Uncle Jack's nephew, is asking what is the average wavelength of the stations in America, and how many actual broadcasting stations are there in existence in America. Well, there are about 500 broadcasting stations in the United States, the wavelengths of which

(Continued on Page 31, bot. Col. 2.)
"Why All-Glass Sockets Mean Better Reception"

Many radio fail to operate efficiently, authorities claim, as a result of the above conditions. An all all-glass socket is the answer to the problem. And volumes of current delivered to your hearers.

The all-glass and all-copper/bronze known to Radium Distant in place. The Radium Distant Corporation have developed a new All-Glass Socket with practical advantages never before found in a Radio Distant.

The backing is new, quite the stage in America, on the market. We feel that a socket that is, especially for the last work on short waves.

RICK YOUR RADIO FROM YOUR HOUSE CURRENT.

Thousands of radio owners have been asking: Why can’t we see our house current for radio work? Why can’t we operate our Radio as easily as we operate our kitchen lights?

The answer to the above question was the invention of the All Glass Socket Company in the World Street Street. To do this, we have to hook up the radio and all the sockets.

The "Socket Distant" are they are called, eliminate the Dry and Storage "B". Batteries in our are keeping the scene very clean. And fancy, the cost of operating in last few years.

Of course, how Socket Pompson are costly, it will be some time before they can be brought to market. So in the meantime buy the best Dry Distant. There are no better off, the first unbreakable bottles that are in the market.

"BATTERY SERVICE NOTES:"

We have often been asked to buy a long a "B" battery should last. This is to the invention of the Radium Distant Corporation. Devices on the unbreakable, all are together with the number of years. Of course, also the longer the battery, the longer its life.

EMMCO RADIO PRODUCTS

Manufactured by Electricity Meter Mfg. Co., Sydney

AUSTRALIAN MADE GUARANTEED LOW LOSS CONDENSER.

All Capacitors with Direct Varnish.

Built like a Watch.

Most Minute Adjustment.

Absolute Insulation.

Grounded Rotor Metal End Plates.

Straight Line Wave Length. Square Law.

Most up-to-date Low Loss Condenser Made.

EMMCO Jacks, Single . . . . . . . . . . . . . . . . . . . . . . . . . at 2/6

EMMCO Jacks, Double . . . . . . . . . . . . . . . . . . . . . . . . at 3/6

EMMCO Jacks, Switch . . . . . . . . . . . . . . . . . . . . . . . . at 4/6

SEE THEM AT YOUR DEALERS

RATING.

The Battery Internal Governor, in rating, "B" batteries, are influenced by the length of the time they will be in service on a continuous discharge to an end voltage of 12 volts.

Some manufacturers rate their batteries by the number of hours the battery service at a definite current. These ratings, however, are inadequate for a battery of different, under varying conditions. Batteries should be operated under various conditions. They also give information on radio current density in system photo voltages, and field loss voltages are also presented.

The characteristics of a 10 volt battery which are of most importance are:

1. Quality of the Crystal.

2. Quality of the Condenser.


4. Quality of the Radium.

The shell of a battery is the electrical insulation, and its ability to retain its service, some rapidly while charging little otherwise known as the internal resistance of the battery. A good battery will have a prolonged shell life of lower months. A poor shell life will not only speed up in speed, but also tend to reduce the efficiency, because the battery will be more retentive of its energy when the loss of the battery is more retentive, and will not make the best battery when the loss of the battery is more retentive.

No longer the battery should be in the heat, and in the cold, and in other conditions. If the battery is in the heat, it will not have a long life.

Electricity Meter Mfg. Co., Sydney

A. C. S. W.
WHAT THEY WRITE

Continued from page 21

STILL MORE ABOUT GLASS PANELS

To the Editor,

Dear Sir,—I read with interest Mr. Geo. H. Peterson's letter, "Wireless Weekly," 31/11/35, re glass panels for radio sets. Here is my method of drilling the set illustrated. The panel is for a four valve set, and is 24in. x 10in. x 3/16in. plate glass, and has in all 50 holes varying in size from 3/32in. to 3/16in. in diameter. I drilled this panel, 52 holes, in six hours, using an ordinary breast drill and carbide twist drills. I found the best drill was from a set of Cleveland wood bits. This drill was 3/32in., sharpened as shown on the sketch with a long point and plenty of clearance. The holes were all marked on the glass with a small felt (sharpened to a point), and the centre of each hole marked with a +. The glass is then placed on a small rubber pad about 3in. square and 7/8in. thick, so that the pressure of the drill on the glass is only close to the hole to be drilled, the pad being under the hole to be drilled. An ordinary breast drill is used, and plenty of tarparlane used on the glass when drilling. The drill must not be turned too fast, or this burns the cutting edge. If the drill does not centre, it can easily be brought into the correct place by tilting the top of the breast drill in the opposite direction in which the hole is off centre. Use plenty of tarparlane, patience, and drill all holes about 3/32in. first, and open out to the proper sizes afterwards, and when drilling and finishing all holes go half way through panel, and then drill from the other side.—Yours, etc., FLINT W. BAKER.

Pumping Station, Red Cliffs, Victoria.

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

Results of American and Australian Tests

As advertised in last week's issue the Australian Representative of the Magnavox Co., sends us the following letter for publication, as received from his principals pointing out the suitability of the Magnavox 5 Valve receiving Set recently manufactured.

The letter reads as follows:

"It may interest you to know that some two evenings ago our Mr. H. H. Bollard, one of our radio engineers (and incidentally, the founder of our receiving valve tests), carried out tests on the Magnavox receiving Set. The result was that two sets as follows—He received 2428 Code, Mathews Mill, in to night, from Vancouver, B.C., to Los Angeles—with no difficulty whatever. The most gratifying results of his test, however, were the results of the following Eastern stations, all of which come in with loud speaker volume—

BOSTON STATIONS (HARD)

KBRK—Rochester, N.Y., 550 metres.
WAVW—Shawmut, Mass., 470 metres.
WOBX—Chicago, Ill., 550 metres.

KBSQ—Little Rock, Ark., 550 metres.

It may interest you to know that KORK, operating on 560 metres, easily received from KCRK, which is a Pacific Coast Station, operating on 360 metres, and was an ideal and consistent for one hour as city of the Los Angeles station, which, incidentally, are readily heard in this locality any time during the winter season. The following table was made, notices, KORK, but a mile distant, operating on 2000 metres, with 1000 in 3000 watts, and was clearly heard, and good, over 422 metres. When, when clearly heard and understood, and did not at one time fade.

Kindly remember, the test was conducted with nothing but standard apparatus, connecting the MAGNAVOX Receiving Set and 5 MAGNAVOX Tubes. No 156 words was necessary, and they were our standard present, who corroborated the claim of these most results.

Yours very truly,

The MAGNAVOX COMPANY
(Signed) R. A. O'CONNOR.

A Sample Junior Magnavox 5 Valve Receiving Set has been tested in Sydney by experts connected with three of the largest Radio Houses in Sydney, and the following results were obtained:

Received the following stations—

3AB, Melbourne .... 484 Metres
SLO, Melbourne .... 373
26L, Sydney .... 355
2KY, Sydney .... 380
5CL, Adelaide .... 266

Now all these stations were received with considerable loud speaker volume and without interference, and did not at any time fade. When it is remembered that the Set is in operation with only one control, the simplicity of operation must appeal to the present owners of Sets, and prospective Users. Compare these results with your own Sets or any other Set offering on the market to-day.

Land Spearkers Required, Batteries Brought, Sets Reconditioned, Aerials Erected. Good parts and sound advice. E. NOBLE & CO., 286 Anne Parade, South Kensington, Blvd., 3554.
"WETLESS" Fixed Mica Condensors

If the new improved "WETLESS" high quality mica condensers are included various new and important features. They are now contained in the best of amber BAKELITE, and are slightly damped at ends to prevent any possibility of mechanical failure. A new improved binding post, designed especially for mica condensers, has been adopted. A new type condenser clip, designed to enable the insertion of both individual and series condensers is very convenient and is used throughout in the latest type condenser clip which has been devised for the purpose.

A TYPE | B TYPE | C TYPE
-------|--------|--------
0001   | 0001   | 0001   
0001   | 0001   | 0001   
0002   | 0002   | 0002   
0004   | 0004   | 0004   
0008   | 0008   | 0008   
0010   | 0010   | 0010   
0013   | 0013   | 0013   
0025   | 0025   | 0025   
0050   | 0050   | 0050   
1000   | 1000   | 1000   
2500   | 2500   | 2500   
10000  | 10000  | 10000  

"WETLESS" Condenser Clip 1/2 each.

No need to solder condensers when using this condenser clip. An excellent service is now rendered for the sale of "WETLESS" Fixed Condensers, the hardest grade blue Mica available, at a low price. For details see "WETLESS" Advertising Carries.

Manufacturer: J. WETLESS, Bexley, N.S.W.

Wm. Lambert Hamilton

Radio Specialist

Bring your troubles to me. What I will do for you.

I will remodel or re-wire your receiver, making every valve give its best. Let me modernise your receiver. I will build you a set to suit your local conditions.

I will modernise your receiver.

My charges will be moderate.

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

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

Phone: 8231.

Private address: 16a Ness Avenue, Dulwich Hill.
Friday, February 5, 1926  WIRELESS WEEKLY  Page Thirty-one

Amateur Notes
By Q.T.C.

Up till recently the Ad district held the prize for inactivity. These days, however, we can safely give the ground up to our friends of No. 4—Queensland. What's the matter up north? Of course, we all realize that states have been playing Old Harry with work of late, but still, now, you can't blame that entirely. Even in the perfect winter months your reputation is in the hands of one or two keen hams. A4AN uphold your prestige well; he turned out the most consistently good, readable signs that I have heard for a long time. 6CM uphold him well—good q.a., you had, Doctor, and these two are your keen international DXers. There were a couple of fine low power stations in 4AE and 4EB. 41K sometimes came out with a big kick—and there you are! Do better in 1926, O.M.'s. You have quality; now add quantity.

Phil Nolan, at 4STT, has been turning out the best sign from the second district of late. Visit is the most enthusiastic ham, and never lets up for man or QRM. 2Y1 has QSO'd the whole world, and still hopes to go further.

Z1AC, our friend,Mr. O'Mara, still carries on. Very persistent gentleman, Ron, has worked about every station in the world, and is considering tackling the broadcasting stations.

Some Frenchmen break through the QEN occasionally. Their low notes are very difficult to clear up from the breaking waves of static on the 'recessory.'

Helen Swan, A-808, has been parking boldly from the Coast City. His reach reminds one of friend Harry Collins, who also hails from Newcastle. QSB good, o.m. QSN not, QEN -----! Better luck next time, hi!

German amateurs are now gracing the air with real results. Most of their ham calls commence with the letters KV followed by a numeral. They are Q.S.O. U.S.A. but to the best of our knowledge, have not yet hooked up with any of the A stations.

The following little known calls have been QSA in Australia of late: NCO1 the U.S. Coast Guard Radio Repair Base, Navy Yard, Philadelphia, on the 50 metre band; LRCIN, U.S. Submarine base, Coco Solo, Panama, W1K, Radio Corporation of America, situated in New Brunswick—QRM, 33 metres. GENM's fame is reported as being audible round about Australia and New Zealand. Here's hoping that we shall soon be able to report him as "very QSA, o.m."

According to our log of some months ago USZAI was one of the loudest stations in the world. The aforementioned log, however, does not mention very complimentary things about his QSB. Seeing that pretty well every DX merchant in Australia has logged this bird, we think some particulars may be of interest. The aerial of ZSAI is of the inverted "L" type, 60 feet long and is a two wire cage. On 60 metres (where we noted him) the antenna operates on its 1st harmonic, on 40 metres its 3rd, while on 20 metres the 5th is used. Counterpoise is a copy of the aerial. Plate supply is obtained from a 51 k.w., 2000 volt Enco Motor Generator. UV2ZAI's are used in all the transmitters. The transceiving hook-ups are slight variations of the Hartley circuit. ZSAI is QSO the following ham bands: A, EZ, CH, Q, B, IU, L, J, N, O, E, and Z—quite a bunch, hi!

Judging from various foreign DX lists which we have given the once over, the following Aussie stations are well in the limelight, elsewhere, and have reason to feel happy: 2CM, 2BB, 2BK, 2HS, 2YW, 2JO, 2EI, 2SW, 2YH, 2Y1, 2GO, 2YG, 2IW, 2RN, 2LO, 2BH, 2BO, 2AK, 2BQ, 2AD, 2AR, 2AP, 2EF, 2KH, 2LM, 3YX, 3XX, 3SR, 3SU, 3GD, 4AI, 4MG, 4LM, 6AC, 5JB, 2WS. F.B. the whole gang!! Keep going, o.m.

(Continued from Page 27.)

very from 250 metres to 650 metres. One or two stations, however, such as KDKA, broadcast on very short waves.

JOHN CRAWFORD, who never misses a Saturday afternoon in coming up to Broadview, and who, incidentally, is a recent arrival from the Old Country, is asking which is better for daylight transmission—short waves or long waves. This is an excellent question, John. According to experiences in Australia, the daylight transmission on long waves has proved to be far more efficient than on the short waves. But the reverse of this is the case at night.

Now, there are many of these questions, and Uncle George welcomes every one of them. It shows that you are interested—not only in the listening in side of wireless, but also the technical side, and Uncle George will answer any questions which you little ones or grown-ups care to ask in his weekly chats in this paper.

Now, don't forget the limelight. Make up the cleverer hi-arier you can think of and send it in right away, as this competition will close very soon. Well, I wish you cheery, sweethearts, until next time. Be good.

All my love,  UNCLE GEORGE.
That low filament consumption fetish!

WELTY months’ experience with Dull Emitter Valves working from Dry Batteries has proved to most wireless enthusiasts two things: first, that the low current consumption necessary for a Dry Battery means a whistling down of the filament to the point of fragility. Secondly, that if a multi-valve set is used, large and expensive dry cells must be provided to cope with the heavy current demands. It is not surprising, therefore, to find that prominent wireless engineers and experts attached to the various wireless magazines are wondering whether the price they are paying for the convenience of Dry Batteries is not out of all proportion to their advantages.

Obviously there are three distinct factors to be considered when choosing a Dull Emitter. They are (a) first cost, (b) upkeep cost, and (c) length of life.

No wireless man ever spent an hour to save an hour, yet that is exactly what you are doing if you choose your Dull Emitter on filament consumption alone. Current consumption, generally speaking, is influenced by the diameter of the wire used in the filament. The thinner the wire the less current it will consume. But obviously there is a very specified safety-limit, and a Valve that will give a tolerably long life in the hands of a careful laboratory worker would certainly not last long in the rough-and-tumble of everyday Broadcast reception.

The Cossor WunCell Valve has been designed with a true realisation of the part it has to play in the hands of the average wireless enthusiast. In view of the immense popularity of the Cossor Bright Valve we should not be doing our duty if the WunCell carried the risk of fragility or lack of efficiency in the hands of the inexpert.

The WunCell Valve is a long-life valve for two reasons—(a) because its filament flows only at 660 degrees (a dull red heat almost invisible to daylight), and (b) because its filament is invariably an element and so about an 80 per cent brighter Valve.

That the Cossor policy of placing long life before current consumption is right is proved by the wave of popularity the WunCell is securing. Everywhere there is insatiable evidence of public appreciation of its cooling qualities of greater tenacity, absolute reliability, and exceptional purity of tone coupled with an entire absence of microphonetic noises. You’ll find your search for an ideal Dull Emitter when you try the WunCell.

A Complete Stock of all Cossor Valves is held by:

Cossor Valves are worked by all the principal Wireless Dealers. In case of special difficulty, apply to J. N. ARNOLD, Factory Representatives,

J. N. ARNOLD, Factory Representatives,

P.O. Box 502, DE GRAVES BUILDINGS, DE GRAVES STREET, MELBOURNE.

Cossor WunCell Valves

THE BRITISH DULL-EMITTER WITH THE LONGEST LIFE

That low filament consumption fetish!
Round the Clubs

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

THE LEICHARDT AND DISTRICT RADIO SOCIETY.

The first general meeting of the society was held on Thursday 30th January at the Leichhardt Town Hall.

The Secretary announced the first agenda item, the election of officers. The positions of President, Vice-President, Secretary, and Treasurer were then determined. The President then proceeded to introduce new members, who were welcomed into the society.

The meeting then turned to the business of the society, with the Secretary giving a report on recent activities and future plans. The Treasurer presented the society's financial report, which showed a healthy balance.

General business was then concluded, and the meeting closed at 9:30 pm. The Secretary thanked all those who had attended, and hoped to see everyone at the next meeting.

NATIONAL LIBRARY OF AUSTRALIA

The Wireless Weekly: The hundred per cent Australian radio journal

HEADQUARTERS
Royal Society House
2 Elizabeth St.
Sydney, N.S.W.

WIRELESS WEEKLY

The wireless weekly: the hundred per cent Australian radio journal

PAGE THIRTY-THREE
Our Annual Stocktaking Sale

Extended to 14th FEBRUARY

Large Reductions in all Parts and Sets

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AND A HOST OF OTHER LINES AT WONDERFUL VALUES.
WRITE FOR PRICE LIST

COLVILLE-MOORE
WIRELESS SUPPLIES, LIMITED,
10 ROWE STREET (HOTEL AUSTRALIA) SYDNEY
and a number of comments were made on the cost and efficiency in which they had been copied and pro-
gressed.

The business of the night included consideration of plans and specifications for a workshop to house a week's worth of radio, and machinery, so that they could appear on the air at any time. After the meeting had been finished, the chief transmitters were placed on the air.

Mr. Snowdon offered for his subject, "Wiretures—Their Construction, Use, and Calibration," and members were introduced to new and unfamiliar with the absorption system and its uses, and "Wiretures and their Uses," the latter subject beinglight in keeping the interest of the audience.

The lecture was well demonstrated with an absorption type colorimeter constructed and calibrated by Mr. Hardly at 2 a.m.

An inter-club visit to the Waverley Club has been arranged for February 23rd, and an inter-club visit to the Waverley Club is also

THE CROYDON RADIO CLUB, "AYR." On Saturday, Feb. 20, the Croydon Radio Club held their weekly meeting at the station room, "Bevel," Long Street, Croydon.

A visit was given to 277, who had been absent for several meetings through illness. Mr. Clowman was very much congratulated upon receiving official notification of reception of his second ampere-meter from the A.R.C.

After seeing Mr. B.'s, Mr. Clowman said that the work that had been done that night was quite an achievement, and that the work should be continued to the utmost.

Mr. Clowman gave a very interesting lecture on the absorption system, and mentioned several new points in connection with those types of apparatus.

Mr. Thorne, the secretary, asked the members to "Please" their subscriptions.

Two subscriptions were paid for the club's use, and the members were asked to continue to meet at the station room, "Bevel," Long Street, Croydon.


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Payment of £1 will secure immediate delivery in the Metropolitan area of any of our Special Offers.

**DOWN and 5/- WEEKLY**

WONDERFUL COMBINED OFFER.

Do you realize that for £1 down and 5/- a week you will deliver to your home a Super Cabinet Receiver, a Valve Wireless Set, a Deluxe Phonograph, and one of Heinrici & Smith's Lifts on Million Tapes?

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**SUPER CROWN TONOPHONE**

A super combination of a Super Crown Toner, a super loudspeaker, and a super receiver. Price £1 down and 5/- a week.

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**VALVE WIRELESS**

A valve wireless set that will bring you the news and music of the world. Price £1 down and 5/- a week.

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**Home Phonograph**

A complete phonograph set with records. Price £1 down and 5/- a week.

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**Home Recreations**

388 George Street (Opp. Beard Watson's)

Call at once with a Pound Note and we will deliver immediately to your home.
FRIDAY, FEBRUARY 5.

WIRELESS WEEKLY.

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No. 519.

QUEENSLAND RADIO SERVICE.

Wavelength: 355 metres.

406

FRIDAY, FEBRUARY 5.

WIRELESS WEEKLY

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BROADCASTING

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

Price per pair ... ... 27/6

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A balanced precision instrument scientifically designed, having extreme accuracy, combined with mechanical strength. Supplied with or without Vernier adjustment. Made by the makers of "UTILITY"

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WIRELESS WEEKLY

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FRIDAY, FEBRUARY 9, 1926

The wireless weekly : the hundred per cent Australian radio journal

WEDNESDAY, FEBRUARY 14

12.30—Rural news, supplied by the Council of Agriculture, Rural Exchanges information supplied by the Committee of the Australian Bank Exchanges: weather information supplied by the Commonwealth Weather Bureau: "Daily Mail" news service.

13.00—Close down.

13.30—From the Studio: "The Daily Mail" news service.

14.00—From the Studio: The "Daily Mail" news service.

14.30—Announcements.


15.00—From the Studio: "New South Wales" (P. J. Curwood), "Our First-Quarter Pastoral" (R. M. Williams). "Our First-Quarter Pastoral" (R. M. Williams).

15.30—From the Studio: "The Daily Mail" news service.

16.00—Announcements.

16.30—From the Studio: "The Daily Mail" news service.

17.00—From the Studio: "The Daily Mail" news service.

17.30—Announcements.

17.45—From the Studio: "The Daily Mail" news service.

18.00—From the Studio: "The Daily Mail" news service.

18.30—Announcements.

18.45—From the Studio: "The Daily Mail" news service.

19.00—From the Studio: "The Daily Mail" news service.

20.00—From the Studio: "The Daily Mail" news service.

20.30—Announcements.

20.45—From the Studio: "The Daily Mail" news service.

21.00—Announcements.

21.15—From the Studio: "The Daily Mail" news service.

21.30—Announcements.


22.00—Announcements.

22.15—From the Studio: "The Daily Mail" news service.

22.30—Announcements.

22.45—From the Studio: "The Daily Mail" news service.

23.00—Announcements.

23.15—From the Studio: "The Daily Mail" news service.

23.30—Announcements.

23.45—From the Studio: "The Daily Mail" news service.

24.00—Night session.

24.15—From the Studio: "The Daily Mail" news service.

24.30—From the Studio: "The Daily Mail" news service.

24.45—From the Studio: "The Daily Mail" news service.

25.00—From the Studio: "The Daily Mail" news service.

25.15—From the Studio: "The Daily Mail" news service.

25.30—From the Studio: "The Daily Mail" news service.

25.45—From the Studio: "The Daily Mail" news service.

26.00—From the Studio: "The Daily Mail" news service.

26.15—From the Studio: "The Daily Mail" news service.

26.30—From the Studio: "The Daily Mail" news service.

26.45—From the Studio: "The Daily Mail" news service.

27.00—From the Studio: "The Daily Mail" news service.

27.15—From the Studio: "The Daily Mail" news service.

27.30—From the Studio: "The Daily Mail" news service.

27.45—From the Studio: "The Daily Mail" news service.

28.00—From the Studio: "The Daily Mail" news service.

28.15—From the Studio: "The Daily Mail" news service.

28.30—From the Studio: "The Daily Mail" news service.

28.45—From the Studio: "The Daily Mail" news service.

29.00—From the Studio: "The Daily Mail" news service.

29.15—From the Studio: "The Daily Mail" news service.

29.30—From the Studio: "The Daily Mail" news service.

29.45—From the Studio: "The Daily Mail" news service.

30.00—From the Studio: "The Daily Mail" news service.
IMPROVE YOUR EQUIPMENT

TO APPROVED CLIENTS

Radio Sets, Loud Speakers, Accumulators, A & B Battery Chargers

can be purchased on

TIME PAYMENT

OUR TERMS ARE EASY, 10 per cent. DEPOSIT, BALANCE OVER TWELVE MONTHS. NO INTEREST, TWELVE MONTHS GUARANTEE AND FREE SERVICE.

ALL BUSINESS STRICTLY PRIVATE.

Efficient and Selective, complete ready for use,

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<th>2 Valve Sets</th>
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<td>5 &quot; &quot; &quot; &quot;</td>
<td>£32 10 0</td>
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<tr>
<td>“Udisco” Super Six</td>
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<td>DJ De Forrest</td>
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Think of it, 9d. per day will purchase a valve set for you.

Radio Fans please Note—Raymond Shaw, E.L.T, well-known in Amateur Radio Circles during the past 8 years, has taken over control of the technical branch of this firm, and the manufacturer of all our Receiving sets will be under his direct supervision. He will be pleased to offer any technical advice to those in need.

503 George Street, Sydney

Phone: City 870.

Opp Crystal Palace Theatre

Sydney

Keogh Radio Supplies

Opposite Crystal Palace Theatre

Opp City 870.
FRIDAY, FEBRUARY 5, 1926

WIRELESS WEEKLY

Page Forty-one

MONDAY, FEBRUARY 8

Afternoon Session

2.30—A varied musical and vocal programme will be transmitted, closing down at 3.30.

Children's Hour

4.15—Ladies' and Males' Vocal Section.

2.30—A varied musical and vocal programme will be transmitted, closing down at 4.30.

TUESDAY, FEBRUARY 9

Afternoon Session

1.30—The Man in the Moon and Uncle Tom.

Vista-Exchange.

7.45—Latest news items; Mrs. Amy Howden, associate; Miss Mow, associate; Miss Wood, associate; Mr. J. O'Gorm, host; Mr. W. Price, composer; Mr. W. L. Packleigh, musical director; Fortescue, local manager, aural; Mr. W. J. O'Gorm, technical assistant of TNT; Rep. of the Ministry, and updates of the Wireless, aural story, will be broadcast from 7.30 to 8 p.m.

TUESDAY, FEBRUARY 9

Afternoon Session

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

Children's Hour

4.15—The Man in the Moon.

7.45—Latest news items; Mr. G. H. McColl, composer; Miss Hare, associate; Miss Morris and the Bluebirds; Jazz Band; and others to be announced.

WEDNESDAY, FEBRUARY 10

Afternoon Session

2.30—A varied musical and vocal programme will be transmitted, closing down at 4.30.

Children's Hour

4.15—The Man in the Moon.

7.45—Latest news items; Mr. H. W. Deakin, associate; Mr. David Hall, host; Miss Dunn, composer; Miss Della Jones, composer; all singers of the popular Choral Society, Direct of the Wireless, Closer of the programme, and others to be announced.

THURSDAY, FEBRUARY 11

Afternoon Session

2.30—A varied musical and vocal programme will be transmitted, closing down at 4.30.

Children's Hour

4.15—The Man in the Moon and Uncle Tom.

Vista-Exchange.

7.45—Latest news items; Mr. A. H. Harrell and Partner; Miss O. C. Smith, associate; Miss Rees, associate; all singers of the popular Choral Society, Direct of the Wireless, and others to be announced.

FRIDAY, FEBRUARY 5

2.45—Music from the Studio.


5.10—P.O. clock and chimes; Closer down.

Early Evening Session

6.45—P.O. clock and chimes; history of the Pacific Dinner Orchestra under the direction of Mr. C. E. Merton.

7.05—"Wha's Que?"—A sketch to the visitors and citizens of Sydney.

8.45—Music from the Studio; Uncle Fred and the Kiddies.

SATURDAY, FEBRUARY 6

Afternoon Session

2.45—Silent Film.

3.45—P.O. clock and chimes; special evening intermission broadcast from "Rome" office.

5.15—P.O. clock and chimes; Closer down.

Early Evening Session

6.45—P.O. clock and chimes; special evening intermission broadcast from "Rome" office.

7.45—Ladies' and Males' Vocal Section.

8.45—Music from the Studio; Uncle Fred and the Kiddies.

SUNDAY, FEBRUARY 7

Ladies' and Males' Vocal Section.

11.45—Music from the Studio.

11.45—P.O. clock and chimes; Closer down.

12.45—Music from the Studio.

12.45—P.O. clock and chimes; Closer down.

1.45—Music from the Studio.

1.45—P.O. clock and chimes; musical story entitled "The Treasure of Lil." 2.45—Music from the Studio.

4.10—P.O. clock and chimes; musical story entitled "The Treasure of Lil." 4.20—Music from the Studio.

5.10—P.O. clock and chimes; Closer down.

Early Evening Session


7.45—P.O. clock and chimes; Closer down.

8.45—Music from the Studio; Uncle Fred and the Kiddies.

Page Forty-two

WIRELESS WEEKLY

Page Forty-one

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7.45—Ladies' and Males' Vocal Section.

8.45—Music from the Studio; Uncle Fred and the Kiddies.

SUNDAY, FEBRUARY 7

Ladies' and Males' Vocal Section.

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1.45—Music from the Studio.

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Early Evening Session


7.45—P.O. clock and chimes; Closer down.

8.45—Music from the Studio; Uncle Fred and the Kiddies.
The wireless weekly : the hundred per cent Australian radio journal

FRIDAY, FEBRUARY 5

1-10 13nlfour Road, Bellevue Hill, Sydney.

REDUCES STATIC.

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

The set provides the missing link in good Radio Reception.

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

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

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

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

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

SLO can be received without any interference from SSL.

A special country model gives the same volume 500 miles away as it gives in the city. This was proved by a test held at Wagga with a fear voice test, when SSL, 2PC, SLO, SAR, SSL and SWP together with a number of B class stations, could all be heard over 100 yards from the speaker.

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

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

RARE U.T.


RAPINET LIMITED

RAPINET BATTERY FAULT-FINDER

THIS indispensible attachment has been especially designed to automatically sense, indicate, without the aid of a Battery, whether your connections on the circuit are good or defective, whether your new valve is defective or a break, the point of a break, the line from the valve to the speaker, and the &c., &c. Such an arrangement as this has been specially made by the RAPINET Co. for fast and easy investigation of faults.

RAPINET CONDENSER

This Most Modern Square Law Self Vamping Condenser can be used for all sets with the exception of incoming Dr. Alloys by adding a condenser, and is supplied with 500,000 a.m.f. and is in three units, being 200,000, 100,000 and 100,000 a.m.f.

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**The wireless weekly**

**Monday, February 9, 1926**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>11:00 A.M.</td>
<td>Morning Service.</td>
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<tr>
<td>12:00 P.M.</td>
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<tr>
<td>2:00 P.M.</td>
<td>Radio concert.</td>
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**Saturday, February 6**

**Morning Service, 10:30 to 11:30.**

<table>
<thead>
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<tr>
<td>2:00 P.M.</td>
<td>Radio concert.</td>
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**Sunday, February 7**

**Morning Service.**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
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**General Program, National Association.**

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**Wednesday, February 10, 1926**

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**General Program, National Association.**

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**TO UNDERSTAND RADIO YOU MUST HAVE THE BEST RADIO MAGAZINE.**

**QST IS JUST THAT.**

Subscription Rates: 15c per annum, post free.

Obtainable from all Bookstall, 7½ per copy.

---

**Burgess—"they're on the leviathan"—batteries.**
The wireless weekly : the hundred per cent Australian radio journal

FRIDAY, FEBRUARY 3

Wavemill, 18th century, Fever, 1926

12 noon—Time Signal
12.30—March from "The Age"
12.50—March from "The Age"
1.10—March from "The Age"
1.30—March from "The Age"
1.50—March from "The Age"
2.10—March from "The Age"
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Friday, February 5, 1935

WIRELESS WEEKLY

Page Forty-Five

10-Time Signal—The Happy Thoughts Competi-
tion. Tables, two trips to Hay and Romeo. The
Night’s Happy Thoughts will be found on page 3
and 30.

11.30—Farewell to the Indian Summer. 11.45—
The Children’s Big New Year’s Eve

THE WIRELESS WEEKLY

The wireless weekly : the hundred per cent Australian radio journal

The Children’s Big New Year’s Eve Celebration.

1. The Children’s Big New Year’s Eve Celebration.

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SUNDAY, FEBRUARY 7.
EASTERN STANDARD TIME.

NEWSPAPER SERVICE:

1. ‘The Sydney Morning Herald’ by radio, 9.45 to 10.00, Mr. J. S. Parry, ‘Prometheus’ and Mr. H. V. Cullen, ‘The Magic Garden’.

2. ‘The Australian’ by radio, 9.45 to 10.00, Mr. H. V. Cullen, ‘The Magic Garden’.

3. ‘The Sydney Morning Herald’ by radio, 9.45 to 10.00, Mr. J. S. Parry, ‘Prometheus’ and Mr. H. V. Cullen, ‘The Magic Garden’.

4. ‘The Australian’ by radio, 9.45 to 10.00, Mr. H. V. Cullen, ‘The Magic Garden’.

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16. ‘The Australian’ by radio, 9.45 to 10.00, Mr. H. V. Cullen, ‘The Magic Garden’.

BATTERIES—THE CONSTANT, SATISFACTION ASSURED.
The wireless weekly: the hundred per cent Australian radio journal
WIRELESS WEEKLY
Friday, February 5, 1938.

5. "The Dark Horse," Young and Schermer.

Page Forty-eight

WIRELESS WEEKLY

Thursday, February 11.

1. "The Little Sailor," H. M. T."}

Page Fifty

WIRELESS WEEKLY

Friday, February 5, 1938.

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