Friday, 11th November, 1927.

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UNPARALELLED RANGE!

50 Stations
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42 Stations
on
Frame Aerial
19 Stations
without Aerial
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Prices: from £32 up

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Electrical Type 5 A-3 and 5 A-5. Operating 60 cycles.

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Amalgamated Wireless (A.W.) Ltd.

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ALWAYS FIRST---
WITH THE LATEST

The EMMCO
Super Power
“B” ELIMINATOR

(Specially recommended for Sets employing
“Power” Valves in the Audio Stages.)
Here is the ideal unit for those who want to street
all about power supply.
The Emmco Super Power “B” Eliminator is con-
structed particularly for supplying high tensile
current for multi-valve sets. It delivers 85 milli-
amps at 180-200 volts, and is supplied with a Ray-
them R.H. valve. It is especially adapted for the
current and voltages of Australian Electric A.C.
Lighting mains and rectifies both halves of the
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Price, including R.H. Raytheon Valve, £12/12/-
Kit of Transformer and Chokes, in
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The Viking transformers trans-
former value. It offers guaranteed
amplification at half the cost, and it
is approved in Power, Clarity, and
Compactness.
There are three ratings: 2-1, 3-1,
and 4-1.
The Viking is scientifically shielded
to reduce inter-stage coupling effects,
and each transformer is guaranteed
electrolytically and mechanically.

PRICE 10/6 EA.
Washington Conference and Australia.

The leading stations in Australia may well proum themselves on the conditions paid to them by English wireless experts. It has been said that it was the persistance of Australian engineers in declairing their belief in direct broadcasting, instead of in relay, that has shown the Empire the real road to Empire broadcasting.

To have been the last nation to take up wireless broadcasting, and to have taken such a prominent place in its practice, is no mean achievement. That this conclusion is not due to our own consent, or to the partiality England may perhaps he expected to show one of its own daughters, so to speak, is proved by the influence Mr. H. P. Brown has exerted at the Wireless Conference at Washington. Single handed, he was able to resit an effort to place our broadcasting under the possible influence of foreign countries, putting up such a vigorous fight that the objectionable proposal was referred back to the committee that made it. Again, this would not have been possible, had not Australia won its right to a voice in the councils of the nations on radio.

The reason for this prominence is not far to seek. A nation’s radio position is absolutely conditioned by the number and interest of its listeners. Where these are few and based, radio will make no progress. To encleine the interest of listeners, to ensure a continuously increasing number of them is the duty of the big stations. If they fail, everything fails. They have, in the three years since this great new method of entertainment first began here, built up wonderful organisations, capably adapted for the purpose for which they came into being. They have weathered a searching inquiry into their methods, their capacity, their possibilities, and, unlike the British Broadcasting Company under similar conditions, they have convinced the Commission that Government interference would do no good, but would run the risk of spoiling a good work. It is pleasant to have acknowledged in Europe, in America and in our own country, almost simultaneously the sterling work that 3LO and 2PC, notable among Australian stations, are doing.

Following on this, it is disquieting for these stations to be threatened with a penalty for their own excellent showing. The recent Wireless Commission proposes that it might be necessary to take some of the revenue from the big successful stations, and with it bolster up the broadcasting organisations in the more backward States.

This is palpably unjust. Success in broadcasting is conditioned by excellence of organisation. This is due to no money predominance whatever. It is, chiefly, if not solely, management. The Commission may have been misled into thinking that, with the gift of money taken from 3LO and 2PC weak stations in the other States will be enabled to hire better talent and thereby attract more listeners. It is a fallacy.
Catching Up with the Wireless World.

By R. E. Corder.

WE WONDER: The girl friend wants to know if the head speaker in the car in the modern way of driving is called up to the wife.” It would be of first importance, oh, what.

A LONDON writer has revealed an invention of converting a piano into a radio speaker. It is claimed that by turning a piano into this device and using simple clothing materials, it could be easily separated, while a simple is much more natural than that of an ordinary loud speaker.

UNCLE GEORGE was reading a letter from a little girl in which she stated that the hymn “The Day That Came,” was her favourite of all the hymns sung during the Children’s Service from the Study on Sunday evening. Uncle George, with his usual interest in things when they go wrong in the Studio, remarked that it was his favourite hymn, too. A few minutes later before Uncle George realized what he meant. Then it dawned upon Uncle George that the referred hymn always closes the Children’s Service each Sunday evening.

WITHIN the past week four new overseas broadcasting stations have been placed on the air by station 2ZB, Sydney. They are BBC, Moscow; IRI, Milan; Radio Services, Baku and PBCS, Holland. Sir Ray All-up, ZBZ engineer, has been in touch with three other overseas stations but has not yet been able to identify them, as they have continued with their programme without anything to their work. These stations are always interested when told that our team is to meet from members on the other side of the world, but speaking generally it is recognized that these broadcasts are far from perfect. The transmission, however, are fast improving, and the Milan station which plays great music (including Gilbert and Sullivan) is splendid.

THE “EVERYDAY FIFE”: “What the world needs is not so much a good five-cent cigar as a broadcast-10 radio set on which Mr can get the Woman’s Hour on one tube, while dad gets the political speeches on the second tube, and Mr gets the jazz on the third, while the spare set is on the Court, and the kid gets the bedtime stories on the remaining” — American Radio Journal.

MR. PEARSON, a bank manager, of flying sport residence on Norfolk Island, called in at the Radio of 2ZB, the other day and presented a cheque for 15/- to the cheque, presented to the group on the occasion of the Linton’s Sesquicentenary Radio lecture eight of last Friday week. Mr. Pearson stated that the matter was very bad on that particular evening, but nevertheless, a good number of people heard the direct from being both a financial and social success.

THE GOULBURN “PENNY POST,” which sponsored an appeal for subscriptions in order to equip with radio receiving apparatus the Goulburn District, and 2ZG, John of God’s, Hospital, reports that the contract has been made with Binyon, Neyers Bros., of Sydney, for the installation at a cost of 225/- the “Penny Post” reports that it is hoped to have the installations complete before Christmas. The response to the “Penny Post appeal now amounts to 20/-17/-, and as amount of 225 has been promised by an anonymous donor, so that only another 25/- throughout is required.

THIRD EMPIRE BROADCAST: To quote the Sydney Age: Radio engineers admit that Sydney has led the world in the matter of successful distant broadcasting.

THE DUKE’S ISLES were thrilled by the magnificent programme. Unusually, it was the first long-distance broadcast ever received, definitely making a new wireless epoch.

A CABLE MESSAGE was received from the British Broadcasting Corporation stating that the whole programme transmitted from Sydney early on Monday morning, 31st October, was relayed throughout the British Isles, and that with the exception of fading for 15 minutes, the reception was excellent. Congratulations were sent by the BBC.

THE ARTISTS who contributed to the programme were Mr. Raymond Ellis, who sang two numbers and conducted a special programme to the critics of 2ZB, London, whom he was previously associated in British broadcasting: Madame Bette Yarwood, Madame Eliza Gibson, Miss Gwen Stirn, Mr. Karl MacCallum, Mr. John Van der Kiew Mr. Harp Cooper, and the 2ZB orchestra, conducted by Mr. Horace Lewis.

TIME, LAMPE, TIME: This was the whispered warning of R. B. Slade the other evening, when Mr. E. P. Leake was incited to record his time limit with one of his talks to J. G. McBeau on time pace. These talks of Mr. Leake’s are proving just as interesting to Mr. Amos than on Diamonds. “Sundown” was the subject selected by him a few days ago, and he brought into a short discourse all the romance of laments and old airs of a poetical age long past, when candidines were set in training gardens graced by pears and lime trees, and hedges a plenty, but not necessarily Edwardian.
German Radio Exhibition
Reflects Development on the Continent

The advance of Germany in the wireless manufacturing field has attracted the attention of the world.

By A.B.

Inside the building, there was demonstrated daily the working of the new Telefunken system of wireless photography, which is a system with revolutionary possibilities. This has been developed in collaboration with Dr. Carstens of Leipzig, and the well-known firm of Siemens and Halske, and has been subjected to some very extended tests in Germany during the latter part of the exhibition. It was possible for any member of the public to have a small studio such as a photograph or a similar object photographed from the receiving side of the installation, and in a very short time the photograph was reproduction of the message from the receiving apparatus inserted upon a small card in the building. The system is entirely new. The signal, and pictures and plans produced by it have shown in the upper air of about forty seconds, a speed which is considerably lower than most modern wireless apparatus. The practical aspect of this new apparatus, as it may be called, may permit of the manufacture and sale of apparatus by photograph, and the calibration and reproduction of entire pages of the printed text within seven or eight minutes after they have been published in another country. It may be considered as a revolutionary development that would have a profound effect upon all existing systems of wireless transmission by Morse code. If the new system should be developed, it would be a revolution in wireless telegraphy, and if it is really practical it would be a great advantage. The system is entirely new. It may be briefly described as an apparatus which permits the reception of every form of visual upon the face of the earth, and in a very short time the signal, and pictures and plans produced by it have shown in the upper air of about forty seconds, a speed which is considerably lower than most modern wireless apparatus.
Being cold retail at $2 per pair or even under, loud speakers of the usual type from 1½ upwards. Loud speakers are, in fact, in considerable evidence, and there are now over 70 makes represented upon them. All but three or four were represented at the exhibition.

German makers of dry batteries, whose experts to Great Britain amount to about 100,000 per annum, are becoming alarmed at the increasing use of battery eliminators and the popularity of sets designed to take current directly from the mains, and with the object of checking this development and consequent loss of trade to them, they are publishing figures designed to show how much more economical is the use of the regular B.T. battery for various small and normal size receivers, and thereby the money saving per week at varying numbers of hours use. Special efforts were made to attract overseas visitors this year, especially from America, in view of the fact that during 1926 for the first time since broadcasting started German wireless experts to Great Britain showed a decline.

4Q INCREASES PUNCH.

The recent alterations to the suited in many various frequency transmitters at 4Q have, reports received at the office of the Queensland Radio Service. 4Q says: "Your efforts to increase your usefulness to far-away stations appear to be successful. Today the other stations are completely blotted out by atmospheric noise, but your market reports are quite intelligible, although altogether admirably improved. Another Letter from Kingston, S.A., writes: 'I have observed considerable increase in strength and improvement in modulating.'

The first indication of the punch 4Q now has is contained in a letter from a commercial firm only ten minutes' walk from the Victoria station at Footscray. He says: 'We note your name is more than twice as loud as before. I live about three-quarters of a mile from 4Q, and up to the present have always heard 4Q interfered with by No. 136. Gliding to your station, now I am able to hear the musical stuff that is good, and hear an exact reproduction of all the music. The musical thanks for the 4Q. It is not interfered with by No. 136.'

A Townsville fan says: 'I can now hear with much more satisfaction and clearness. I am not getting the same noise interference as before. I do hope you will carry on the same cue. We are hearing of you.'

Improving the Tone of Loud Speakers.

The loud speaker, like the mirror, can do no more than to reflect that which is present to it. Radio programmes cannot be broadcasted in their entirety without some loss in fidelity, due to the limitations of frequency transmitters. Any programme must be understood by the loud speaker itself. Unless ideal conditions of operation there are certain very old speakers which will provide a most realistic and pleasing condition, because of full and impartial reproduction of the low frequency and the higher frequencies for the orchestral and harp sounds, with everything in between. However, with most radio receivers and loud speakers, the tone quality can be materially improved upon by several simple expedients heretofore described. To begin with, the average loud speaker generally does not cover the entire range of frequencies necessary for good reproduction. If the higher frequencies are well handled, as to provide musical quality and crisp speech, the low frequencies are neglected, resulting in shallow resonance and fatgue effects. If, on the other hand, the loud speaker enters into the low frequencies and neglects the higher frequencies, the rich bass notes are balanced, but there is booming and hollowness disortion of the extent, while speech is muffled, blurred and dulled, as though the speaker were looking out from a tunnel.

To obtain crisp speech on the one hand and resonance on the other in the same combination is not possible. To obtain this the bass note of the loud speaker needs to be curbed. Of course, the amplifier should contribute its share if possible by passing all frequencies singly and fully to the loud speaker. Even with an amplifier that leaves much to be desired the tone quality can be greatly improved by the loud speaker itself.

The radio music box, striving for the best possible results of radio programme, has three factors at its disposal so far as the loud speaker is concerned: (1) a choice of loud speakers, with suitable combinations of two or more loud speakers for the desired blend of fixed conditions, which serve to lower the pitch and especially the richness of a loud speaker; and (2) variable high treble controls, which serve to control the volume from any loud speaker, are not to be regarded as the desired loud sound when two or more loud speakers are employed. With the vast majority of radio receivers the best results are obtained by employing two loud speakers, one with a high pitched condition and the other with a more natural sound, with a power unit and a power transformer.

From icy Pole to Tropic Jungle: Burgessa.
Latest News from 3LO
By H. ELLO

Sends who have had the benefit of the great "Highland Gathering" in Melbourne this Saturday, November 11th, will be glad to hear that the station is working at its full strength and will continue to do so until the 11th January. It is not expected that the radio service will be interrupted during this period.

"OUR 3LO."

In connection with the suggestion of the Wireless World Committee that 3LO Melbourne should submit successful wireless broadcasting companies in other states, it is interesting to note that Victoria's listeners are "up in arms" against the proposed and many letters of protest are received by 3LO every day. One correspondent states:

"As a Victor I have long been an ardent supporter of our own Melbourne station, but I think it would be a great mistake to allow any other station to compete with it.

The station is well managed and has a fine staff. It is a credit to Victoria and should be allowed to continue without undue interference by other states."

The station was established by a group of enthusiastic radio enthusiasts who are determined to make it a success. They have worked hard to ensure that the station provides a good service to its listeners.

"The World's Flyers carriedarges."

Despite the challenges faced by 3LO, the station continues to provide a valuable service to its audience. The staff is committed to ensuring that the station remains strong and continues to be a leader in wireless broadcasting.
THE SAFETY VALVE

Readers are urged to express their opinion on matters pertaining to broadcasting. If you have some constructive criticism to offer, here is your chance for expression—your safety valve. The editor assumes no responsibility for statements made by readers and published on this page. Opinions of correspondents do not represent our editorial policies or beliefs. Anonymous letters are not considered.

WIRELESS WEEKLY

Friday, 11th November, 1927.

The Safety Valve

Dear Sir,—I would be pleased if any reader would let me know what short wave station has B2, on its call sign. I think it is a New Zealand short wave experimental station, as I tuned it from 8.20 p.m. on Sunday night, the 5th of October, on the portable first, and then got them at good signal strength on the loud speaker, but every time I tuned a Morse station wished it were on and make it very awkward to catch his number.

We heard a note “Coming through the rye” sung by a lady, very clearly. They closed down about 8.45 p.m. I would be pleased if you could ascertain me on this station, as I wish to write to him and ask him for further details. I would also be pleased to know where I could find data for a short and long wave receiver, 20-45 and 45-90 metres and also covering the broadcast band.

Yours etc.,

F. H. SMITH.

ROMA RECEPTION.

Dear Sir,—In answer to myself I must correct several of the statements made regarding reception at Roma, Queensland, by Masters T. Swan and C. (W.W.) (Dec. 15/27).

In the first place his letter is a letter written to himself by a complaint by myself made last summer during daylight reception was impossible. Unfortunately, for some reason unknown, a considerable period elapsed between the time it was written and its publication during which the facts had altered, and the new type of receiver was giving excellent daylight results.

Thomas W. Swan-Jan has slipped into two errors in his report. First, unknown to him is my letter sent to a number of summer reception, whilst his were obtained in mid-winter, when signal strength is here fully twice summer strength.

Secondly his audibility table is hardly consistent with that generally used by professional dealers, of whom I am one. I do not consider phone strength as good recognition, but may so recall if the signals cannot be heard across the room from the speaker. This is necessary, as sets are sold with a full guarantee, no satisfaction means money back.

Yours etc.,

F. H. CRADICK.

MYSTERY STATION.

Dear Sir,—At 9.45 p.m. last Saturday (October 15), I heard a foreign station on my short wave receiver between 25 and 20 metres. The broadcasting sounded to be from a theatre, and at 9.55 p.m. the announcer spoke in broken English from the studio. The speech was very clear and I could understand words here and there, but I did not catch anything resembling call letters or location. Would it be possible for you to give me some idea of the location of this station, which closed down at 10.05 p.m.

Yours etc.,

Casino;

N. C. McLean.

RE: “Safety Valve.”

Dear Sir,—I built a two valve Harkness Reflex as described in “Wireless Weekly,” and would like to take this opportunity of stating I am more than satisfied with the results as regards local stations, as I receive 2GU, 2BG, 2SH, and SKY perfectly, and SKY with little interference from SKY.

Now, can anyone help me with the following matter? Every night I can receive 3LO (Melbourne) without difficulty, but as soon as a lead is taken out from 2GU, it crowds 3LO. Is there any method within reasonable cost of eliminating 3LO, to enable me to get 3LO satisfactorily?

A 000R fixed condenser in series with the mesh is not of much use. How about a wave trap, and if one is used would it restore the volume of all stations? Every time I am expecting too much of this set to get 3LO satisfactorily, but as I see they are in good strength, it seems a pity to get a wave trap, and I am using a 40 volt “B” battery. If you recommend a wave trap will you explain how to make and fit one.

Thanking you in anticipation.

Yours etc.,

N. C. McLean.

GREENSBOROUGH.

It is very hard to say just what you should set in your area. But it appears that a wave trap would be an advantage and particulars will be published shortly. A slight drop in volume does occur, but this is compensated for by the selectivity.

Ask any Radio Engineer about Burgess.

Page 8
It's All in the Air

CANTERBURY PARK will be decked in running by M. A. Percy, the 2PU owner, on Saturday afternoon, 12th November.

"THE SPARKLERS," under the guidance of Mr. Guthrie's capable direction, will be at 2PU studio on Saturday night, 12th November. All the old favorites will be there—Willow, Thorne, Foggybottom, Harrigan White, Douglas Seaton, Ernest Archer and Brinn Ellis.

RNA LIVING has been giving some very clever character sketches from 2PU studios. Listeners enjoyed her study, "The eatables and the Morals," and will have another opportunity of hearing her on 14th November, in old làquas and jive conditions with the poet-voice of "Gould Ireland."

W. F. KAY has returned to studio 2PU, and readers will be glad to know he has recovered from a serious illness. His sidekicks on the footlights are a surprising source of interest, particularly to the older generation, who can remember him. On Wednesday, 16th November, he will speak on "Famous Stage Plays."

WRESTLING has come to stay in Sydney, and rounding this EIU has completed arrangements for demonstrations of all principal wrestling bouts to be broadcast from the Stadium. Mr. Walter E. Wishwill will describe each bout and guarantee to give many thrills to his listeners.

FOR THE FUTURE, Friday will be the "big night" of the week for Mr. Basil Kirk. Each Friday evening, he will describe the round for round, and blow for blow, the big boxing contest at the Stadium. A special platform has been erected at one end of the community overlooking the ring, from which an unobstructed view of the fight may be obtained. It is from this position that the description will be given. Mr. Kirk is an able exponent of the "Moblie Art," and when he becomes excited over the contest in progress, it is a genuine love of the art of self-defense, together with good showmanship, which enables him to give such a graphic description of the contest in progress.

There is no "just-as-good" on Burgess.
GARDENERS, ATTENTION! For the next twelve months a prominent feature of the "Before Eight O’clock" Talks at SCL will be an instructing talk arranged by Landworth's Nurseries.

THE RADIO UNCLEs are constantly advising the little folk who listen in to keep smiling, and thereby keep good-tempered. For the grown-ups, it is rather difficult at times to put the advice in practice. However, there is a good time coming. A lady has written to TBR stating that her sister has procured one of Mr. Adams' Dict Shots, and by following out the instructions thereof, "has reduced her weight considerably, her bad temper has disappeared, and she now has the disposition of an angel."

We all remember the old adage—Laugh and grow fat. With the advent of radio, the old adage changes, and it now becomes, "Grow thin, laugh, and be happy."

"LISTEN, CHILDREN!" Who do you think is coming back to SFC studio on Wednesday night? Guess! And you're right, too! "Uncle Roi and Jerry." Uncle Roi has had a lovely holiday at Trenilas Camp, so Jerry tells me. I had a chat with him in the studio on Tuesday night, and he told me Uncle Roi was coming home "to-morrow." That meant Wednesday night. He has been a very lovely boy since Uncle has been away, and has been making numerous good resolutions, but I'm afraid he will be up to his old tricks again. Jerry thinks Roi spoils him a little, don't you?

WIRELESS WEEKLY
Friday, 11th November, 1927.

AMERICA'S SUBMARINES all use Burgess.

POPULAR SCIENCE TALK: The series of Science Talks, at present being given out from SCL, are becoming more popular than ever. The first Popular Science Talk was given by Doctor J. E. Hooker last week and was reproduced by SCL on Wednesday. The next one was also given by Doctor J. E. Hooker, and was re-broadcast from SFC, Sydney. The lecture from SCL on Thursday, November 18th, will be on Mr. J. W. White, and is subject to is "Radio."
**The Repertory Movement**

By Gregory Mablin.

There has been much discussion of the need for a commercial repertory theatre in Australia. The Wireless Weekly has been one of the leading voices in this movement, advocating for the establishment of a repertory theatre in Sydney. In a recent issue, the journal stated that the commercial theatre is necessary for the advancement of Australian culture and for the development of a strong national identity.

The Wireless Weekly also expressed concern about the lack of attention being paid to the needs of Australian playwrights and actors. The journal argued that a commercial repertory theatre would provide a platform for Australian talent and would help to establish a truly Australian theatre.

In response, the government announced plans to allocate funds to support the establishment of a commercial repertory theatre. The Wireless Weekly praised this decision, stating that it was a step towards the development of a truly national theatre in Australia.

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**Dunlop Grand Prix**

The Dunlop Grand Prix is currently the most highly endowed cycling event in the world. It is known as the hardest test of a cyclist's skills, with a total distance of 106 miles, commencing on November 15th and ending on November 19th. The race covers some of the toughest terrain in the country, with climbs and descents that test the cyclists to their limits.

The race is divided into two sections: the first section covers 53 miles, while the second section is 53 miles long. The race starts fromMelbourne, with the winner determined by the first cyclist to cross the finish line.

---

**“Green Maria”**

A new diesel engine, the “Green Maria”, has been unveiled at the London Motor Show. The engine is designed to be more efficient and less polluting than its predecessors. It has already been tested in several models and has shown promising results.

The Wireless Weekly reports that the engine will be available in a range of models, including cars, vans, and buses. The manufacturer is confident that the new engine will be a game-changer in the automotive industry.

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**Well-known Plays:**

The Wireless Weekly has provided updates on several well-known plays currently being performed in Australian theatres. The plays include "The Light That Failed," "The Christian," and "Monitor Bay." The journal has praised the productions, highlighting the talent of the actors and the quality of the performances.

---

**Distance, 500 miles.**

**Section 1, Monday, Nov. 15th, Melbourne to Warrnambool... 100 miles.**

**Section 2, Tuesday, Nov. 16th, Warrnambool to... 100 miles.**

**Section 3, Thursday, Nov. 18th, Rundell to Warrnambool... 100 miles.**

**Section 4, Saturday, Nov. 20th, Warrnambool to Melbourne... 100 miles.**

**Total distance... 500 miles.**

---

**Bennetts spells “Quality; Life; Service.”**
What would you do?

IF YOU WERE OFFERED A REALLY HIGH-GRADE VERNIER ACTION, VARIABLE LOW-LOSS CONDENSER, AT A PRICE ONE-THIRD OF THAT USUALLY PAID FOR SIMILAR CONDENSERS!

OF COURSE YOU WOULD BE INTERESTED. WE HAVE JUST LANDED A SHIPMENT OF THE WELL-KNOWN "RED SEAL" VARIABLE LOW-LOSS CONDENSERS, WITH DELICATE VERNIER CONTROL.

SPECIFICATIONS:
- Rigid Brass Plates.
- Adjustable Core Bearings.
- Fine Copper Ribbon Pigtail.
- Best Hard Rubber Insulation.
- Metal and Plates Custom to Moving Plate.
- Vernier Control from Small Knob at Side.

Price: .0005 Size only
5/6

THE NEW ECO WONDER CRYSTAL SET is both efficient and selective

BUY ONE COMPLETE

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OR BUILD ONE YOURSELF

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THE B & B SILK CORE (75 Strands of Black)_ PRICE……………………………………. 8/3

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OUR QUICK SERVICE: Address Mail Orders to ECONOMIC RADIO STORES, 492 Gower Street, Sydney.
The Filadyne One-Valver.

Here is a rayistry of really efficient all-valued one-valver receivers as it is so difficult to get any variations from the standard. The tuning, intermediate, and coupling are all well known to readers of "Wireless Weekly" and all have proved how they are.

Here is one which is a departure from the ordinary and which is very popular in Great Britain. It is known as the Filadyne, and is a variation of the product of the former firm of Messrs. R. and V. Dowding. It appealed to the writer as a concern with many possibilities, and it certainly has.

The valve is surprisingly good and clean, and also the range is extremely interesting. Many readers may expect to get at the suggestion of valved land receiver results from this set, and it is nevertheless a fact. The Amplifier could be heard all over the wireless room very easily on both SWL and SWF. Yet, please understand, that it is not the interest in the receiver that we wish to mention.

The Filadyne is quite sharp in tuning. It doesn't have any subjectivity by this fact, really the sensitivity is surprising.

The back and plan view indicates that the bandwidths concern are as simple in the receiver as in the panel. Right in the centre is the valve socket with two coils, one on each side. There is also a 0.0003 Farad condenser. These coils are homemade, a very simple system, but besides being easily made, the setting is very easily made.

The Rectifier Circuit.

The electrical circuit is quite straightforward. There are two coils of 0.0003 Farad, two, both being tuned by the variable condenser. One coil is tapped for the normal connection, thus giving an anti-coupled effect to produce selectivity. The reason of the position of these coils is to give radio frequency isolation of the dial. Besides serving other purposes they tune as they are to tune to the frequency of the incoming signals, complete isolation is affected.

Rectifier Control.

Rectifier in position in the receiver and the coil in the plate circuit accomplishes this. The reaction coil is coupled into one of the tuning units, the coupling being fixed. This coupling also would be heard at any time with the Filadyne to appeal more.

Parts of a Filadyne.

1. Variable Valve Dial.
2. 400pms potentiometer.
3. 500µms fixed condenser.
4. 400µms filament condenser.
5. 400µms fixed condenser.
6. 400µms filament condenser.
7. 0.0003 Farad tuning condenser.
8. 0.0003 Farad tuning condenser.
9. 0.0003 Farad tuning condenser.
10. 0.0003 Farad tuning condenser.
11. 0.0003 Farad tuning condenser.
12. 0.0003 Farad tuning condenser.
13. 0.0003 Farad tuning condenser.
14. 0.0003 Farad tuning condenser.
15. 0.0003 Farad tuning condenser.
16. 0.0003 Farad tuning condenser.
17. 0.0003 Farad tuning condenser.
18. 0.0003 Farad tuning condenser.
19. 0.0003 Farad tuning condenser.
20. 0.0003 Farad tuning condenser.

Four or more valve sets demand Filadyne.
Mr. English states: "... as the potential is made more positive, signals first decrease in strength and then come back to normal again, the working points for maximum signals being on the upper and lower ends of the grid current plate volts curve.

"When the plate potential is adjusted to fall within these points, the circuit oscillates easily, especially with a close coupled emission coil. But as the potentiometer is turned towards the two settings for maximum signals oscillation decreases in intensity, and then finally stops. With suitable values of B battery voltage and A battery current this tuned method of control gives a delightfully smooth adjustment of reaction, the circuit sliding imperceptibly in and out of oscillation. The sensitive state just prior to oscillation is obtainable with two settings of the potentiometer, corresponding to the upper and lower ends. On either setting you can hold on to a weak station fort as readily as with the most sensitive capacity controlled reaction circuit."

**Coil Construction.**

The coil construction calls for very little thought. Two pieces of 8-inch diameter balsa wood or Swidun tubing, one 3 inches long and one 1 inches long, are required for formers. Cardboard former of these dimensions, well shielded, will also serve the purpose. Half-a-pound of 22 gauge D.C.C. wire, and a few turns of No. 30 gauge D.C.C. wire are used as the winding wire.

Begin by winding the five-inch long former. About three-quarters of an inch from one end drill or pierce two holes half an inch away from each other. Through these holes thread the beginning of the wire in such a way that it is firmly secured. Then wind up, each turn close to its neighbour, 70 turns of the 32 gauge wire. Finish off by securing through two more holes. There are approximately 25 turns of this gauge wire to the inch, so approximately three holes will be taken up with this winding. At a distance of 8ths of an inch from the completion of this winding, drill two more small holes and thread the beginning of the .03 D.C.C. wire through this, winding on 30 turns of this wire in the SAME DIRECTION as the previous winding.

The aerial coil consists of 66 turns of the 22 D.C.C. wire wound on the four-inch former. In this instance the regular tapping is taken at the third, fourth, and fifth turn, counting from the bottom or earth end. These tapping are taken by means of the old fashioned yet excellent method of gripping the wire tightly and making a loop. If the end of the wire is held by someone who with a pencil or across the centre hole the winding of the coil will be scattered very easily, and no hooks will develop to mar the appearance of the completed coils. To keep out moisture and to prevent slipping a coat of shellac may be given both formers. With a three-cornered file the cotton insulation should be scraped off the windings to allow for soldering later on. Don’t apply shellac to those bare connections, as shellac is a good insulator, thus precluding any signals from being heard.

Panel Layout.

The panel should now be prepared. Nowadays it is seldom necessary to tell the constructor to square up the edges of the panel, as most dealers in Direct or Radio cut the panels with smooth edges. This should be laid on a flat surface and marked out in accordance with the dimensions given in the diagram herewith. Center drill first, then drill carefully, it often being (and preferable) to use a smaller sized drill as a guide drill. Then put through the larger drills, counter-making these holes for the fixing screws of the condenser. Mount the panel parts and then look to the backboard.
WIRELESS WEEKLY
Page Fifteen.

Backboard Layout.

Square off the edges and mark paper and cut out. Fix the nuts to the backboard, small angle brackets, grid lead clamps, etc., in fact, being quite suitable for the purpose. Note that, when the final fit is given, the retarding the aerial coil so that the tapings are accessible for the coil. The square of the condenser must be fixed to the backboard near to the aerial coil. Two round-head wood screws serve this purpose. Remember if you haven't fixed the backboard to mount this condenser on a small piece of chipboard, at least condenser is now mounted at the full potential.

The 0.005 Weller's condenser across the phone must be used, and the same remarks may apply to this as to the aerial condenser. When mounting this board, remember the condenser components are just as well to be placed in position, when all have been placed in position, the wiring may be commenced.

Wiring.

The back of panel wiring diagram is sufficiently clear for wiring purposes but to ensure all doubt the following description will be helpful. Join A to one side of the 0.002 constant aerial tuning condenser, joining the other side of this to A and then to a short length of flex to the aerial end, of which is connected a battery clip for making connection with the tapping on the aerial coil. Now connect the earth terminal to one side of the potentiometer and then to the moving plate of the variable condenser, and to the bottom of the aerial coil also to the negative and negative terminals on the terminal board.

The feed plates of the variable condenser take direct to the top of the aerial coil and to the X terminal of the valve socket. The remaining terminal looks to the top of the 20 turn parallel coil, the bottom of which goes to the side of the receiver. Connect the other side of the resistor in the terminal board. The remaining outside connection on the potentiometer is to the plate or make this terminal on the terminal board and link the centre or other connection of the potentiometer to the P terminal of the valve socket. The G terminal of the valve socket joins to the left of the 20 turn reaction coil, connecting the bottom turn of the coil to one side of the 0.005 Weller's condenser and to one of the phone terminals. The remaining ‘phone’ terminal joins to the E positive terminal, just alongside and in the remaining side of the 0.005 condenser. This completes the wiring.

Testing.

Check over the wiring with the circuit diagram, then prepare for the test. The valve to be recommended is one in which the plate potential should be of the order of 20,000 volts. Two mains of 20,000 volts of a valve of this type, but actually in a home. Point one red hand was used in the actual test. If your aerial is any size, connect it in A1, which brings the 0.005 condenser in series, or a short aerial is years, 500 to A5. The earth, of course, connects with E. The end of the flexible lead gives its one of the intermediate tapping; on the aerial coil apply the battery next.

Battery Connections.

New comes the B battery. This should be about 6 volts, and a 60 watt lamp was actually used on this.

Telecom are Aristocrats among Batteries.
The reaction. At the positive end will be found another position where the signal are loudest and clearest. Now ratio the aerial tap to the next highest tapping. An increase in signal strength will be noticed after tapping. The lower down the slip is set the greater the will be the underlying, the fifth turn—the first tap—from the bottom providing the greatest degree of selectivity.

If the set refuses to oscillate increase the filament current of the valve by turning the rheostat a little higher. Sometimes it will be found that if the rheostat is turned full on, signals disappear altogether. Don't worry over this, as this is quite usual. If oscillating still doesn't occur, then try adding a few more turns to the resistance cut, although this will very rarely be necessary. The B battery adjustment is worth attending to. Some valves were built with too B battery than to allow valve, so don't forget to try different values of battery.

Alternate Plate Bias.

Again with some valves it will be found that sufficient plate bias is got by simply connecting the terminal for this purpose in the A positive terminal and forget the tapping of the B battery. Try both ways, but remember that this tapping should be discontinued when the set is to be used. Incidentally, too, don't use a potentiometer having a lower resistance than 500 ohms.

Sometimes it will be found that the reaction instead of being smooth is a bit "gritty." Lower the filament current and this will be overcome. The usual method of controlling reaction will be seen mastered, and the owner will be surprised at the results attainable with one valve. The interstate stations should be heard on this 'phone, provided the instructions are followed out and the method of control is understood. When this happens the potentiometer may be set in one position, all that is necessary to tune in the winter is tuning the control in amo.

A stage of audio frequency may be added if desired, and a high ratio transformer, such as an A.W.C. Type A-1, or similar, may be added. A number of 9 to 3 ratio, in conjunction with a good power valve will give more volume than is really required on a loud speaker without any of the distortion usually attendant with the use of such a high ratio transformer.

As for the New B32 Philex Battery.

CAVALLERIA RUSTICANA: Last of open will welcome the news that there is to be another studio presentation of "Caflaglia Risticana" (London) by the Melbourne Symphony Orchestra, Melbourne, on 13th November, under the direction of Sir William James, who has now returned to Melbourne, after having conducted many performances of the work, at various country centres. The excellence of these studio performances is now as well known, that there is little need for comment, but we would mention that the record will be made by Messrs. Raffo, Artioli, who will have the support of well-known principals and an excellent chorus. It is an interesting fact that while Mr. James was in London he had the pleasure of being present at a performance of "Caflaglia Risticana" at the London Coliseum, when the button was pulled by no less a person than the distinguished composer.

HEALTH WEEK AT 8LO, MELBOURNE: In connection with "Health Week" the arrangements have been completed by Studio 8LO, Melbourne, to have a special speaker at each session dealing with a particular phase of the health campaign, which actiively concerns every listener. Everything has been done to make the children's hours especially attractive, and no effort will be spared to inculcate the young mind the fundamental principles of health. It is never too early to commence in true studies on the elementary rules of robust health—especially with regard to the teeth—and a well-known authority on this subject has been engaged to broadcast instructions for the special benefit of juvenile listeners.
We’re Broadcasting About

POPULAR INSTRUMENTALIST: A welcome group to visit to Studio S.L.O., Melbourne, is being paid by Marion Lightfoot, who during her absence from Melbourne has been working with great success on the concert platform in both Sydney and Adelaide. It is not generally known that Miss Lightfoot is a member of a well-known musical family—who gained considerable reputation a few years ago, both in England and Australia—her father being known as the "Australian Tenor." For her second visit to Studio S.L.O., Melbourne, Miss Lightfoot will contribute selections upon the English recitative, barcarolle and shepherd's pipe, and, in addition, will render vocal items to her new instrumental accompaniments.

THE MOUTH ORGAN: Speaking of competitions, the recent Marth Organ Competition, organised by Studio S.L.O., Melbourne, proved a decided encouragement of talent before, and also definitely demonstrated the increased appreciation of the somewhat neglected matter of melody—the mouth organ. In the hands of a clever performer, the mouth organ may be practically made to do anything—in this respect the rich sonorous tone of a pipe organ—and the high melody of the pipes. Every competitor in this competition had a specialty of his own, and not a few of them attempted operatic solos with marked success. The mouth organ is an instrument which broadcasts particularly well, and listeners may look forward to hearing the prize-winners over the air in the near future.

DESIGNER FOR LADY LISTENERS, E.E.: Quite a new sensation was struck by Studio S.L.O., Melbourne, in attracting the services of Miss Dorothy Dickson in broadcast descriptions of the fiction of Hollyhock Cup Day, and the Oaks. That the Victorians was a distinct success has been proved by the amount of correspondence that has reached the Studio in connection with these events—especially from country folk, who maintain that they were given an additional treat in tag form, by the breezy—and often witty—descriptions of the various episodes. Punctuating a very article "Chapp" again, a full face of humor, a well-adapted voice few people in Melbourne are more likely to get this particular way it is interesting to note that in the recent "One Act Play" Competition, the unveiled fourth place, and has, on several occasions, produced her own plays (and acted in them) over the air from Studio S.L.O., Melbourne.

CHILDREN’S COMPETITION: The Annual Mouth Organ Competition for Children, organised by Studio S.L.O., Melbourne, is successful with greater success than ever this year, and entries have been pouring into the Studio from holding Carter and Teltech. By the time this goes into print, the voice trials will have commenced, and all past years have anything to go upon—the cheerful adjudicator, Mr. Alfred R. Lane, will have a difficult task in selecting the winner. The girls all seem to favor a particular song last year, almost every competitor selected "The Little Trip," and this year "Little Town in the Old Country Down," seems to run it very closely in point of favor.

S. H. BOWDEN has arranged a rather unusual style of talks from S.F.C. studio. He will offer listeners some valuable advice on how to do things—"How to Keep a Bicycle," "How to Read a Map," "How to Write a Letter," "How to Eat Ice Cream," etc. Most of us pride ourselves we are conversant already with the latter subject, but readers would do well to listen to Mr. Bowden, who has a happy knack of testing out the best way to handle anything—even aubergine set. He will speak from the studio on Nov. 12th.

SAFE TRIP TO TASMANIA: B. A. generally record about this time of the year that most of us begin to consider the possibility of our annual holiday—when we shall go, and how, but not where. How shall we be able to afford it? However, to every listener comes an equal opportunity of opening a regretted holdiay in Tasmania—the lovely State whose beauty of sea and country furnish a score-making source of delight to holiday makers. Final arrangements have been completed by Studio S.L.O., Melbourne, for the transport and accommodation of the fortunate listener selected—and all that remains for listeners to do is to write their names and addresses, together with their licence number on a sheet of note paper, place it in an envelope and address to Studio S.L.O., Melbourne, Australia, marking the envelope "Good Christmas in Tasmania!" and instantly await the result. The draw will be made at a large reception which will be a feast and the winner of which will be awarded the prize.
THE NEW
PHILIPS' "FOUR-FIFTEEN."

By D. G. Marsh.

Since every Valve Receiver Set necessarily employs a Detector Valve, the advent of a particularly sensitive tube especially designed for detection is of interest to all. Philips Radio are the manufacturers, and the valve is named the "Four-Fifteen"—although under the ordinary Philips notation system its correct designation is the A 415. It is a 4 Volt Valve containing only 88 of an ounce on the filament, which is of the usual Thoria-Loaded Bullet type.

Perhaps the most remarkable characteristic of this new valve is its steep slope—2 m/A/V, which indicates the variations of plate current relative to variations of grid potential. The "Four-Fifteen," therefore, is capable of giving a very high energy transfer without distortion—a most desirable feature. The suitability of a valve as Detector cannot be fully ascertained from an examination of the Characteristic Curve as account of the degree of exhaustion and state of the medium in which the elements are working, having a material influence upon the sensitivity of the tube to improve currents of extremely low magnitude.

In many cases, when employing an extremely sensitive Detector, indeterminate internal noises are manifest when the valve is worked at the most critical point, but this is definitely not the case with the new Philips "Four-Fifteen." Owing to the minute pre-amplifier necessary in the placement of the electrodes relative to each other, unless extreme care is taken and exhaustive testing made, it is impossible to be certain that every Super-Detector possesses the same degree of required sensitivity—but after trying several of the new "Four-Fifteens" taken straight from the cartons, practically no variation whatever was apparent.

The Amplification Factor is 15, and in normal conditions this valve differs in no manner from the other well-known "A" types of Philips Valves—such as the A 400 and A 600. On account of the exceedingly low internal resistance of the "Four-Fifteen," it is essential at a first stage Low-Frequency Amplifier used in conjunction with transformer coupling, and the transfer of the latter notes is particularly pure and faithful.

The value of the grid condenser should be of sufficient interelectrode, and the grid return should be connected to the "positive" side of the filament through a grid-leak of from 3 to 5 megohms. The use of a potentiometer is recommended where critical adjustments are desired.

The plate voltage should be from 26 to 100 volts, according to the type of circuit employed. When used as a L.F. amplifying valve the following negative grid-bias should be applied:

1.6 to 3 volts at a plate voltage of 100 volts.
3 to 4.5 volts at a plate voltage of 150 volts.

It is fitted with both English and American bases.

DX listeners are particularly entitled to the new "Four-Fifteen" for short wave-reception, and Mr. J. Ray Alcock (well-known throughout Australia for his valuable work in connection with International Broadcasting) says of the "Four-Fifteen":—"it is the best Detector I have ever owned."

A.W.A. SUPERAUDIO CHoke Coil.

We have received a sample of the new A.W.A. Superaudio Choke Coil, which is now being produced by Armalagated Wireless (A/n/a) Ltd.

A.W.A. SUPERAUDIO CHOKE COIL.

Ask for the New SX Philips Battery.

The following technical data has been supplied by the A.W.A. Research Laboratories. In designing a choke for importance coupled amplifiers three very important factors must be taken into careful consideration. Those are as follows—A. The impedance must be high with respect to the valve so that all frequencies will be amplified to the same extent. B. The direct current resistance must be relatively low so that the anode current will not cause saturation of the core and thus give rise to distortion. C. The size and the cost of the unit.

Usually the detector valve has a relatively high resistance and a comparatively low plate current. It is possible then to wind a choke with many turns of fine wire without danger of the core being liable to saturation. These factors have been provided for in the Less Heavy A.W.A. Superaudio Choke.

Generally the values used in the amplifier stages of a receiver are supplied with large values of "B" holder and the current is consequently high. The choke must, therefore, be wound with large wire to carry this current, and consequently the number of turns must be reduced. This in its turn reduces the value of the choke. However, as the value used in these stages has a low impedance the 50 Heavy A.W.A. Superaudio Choke is a suitable unit for use in those stages of impedance coupled circuits. The plate current of the valve, which has become a nuisance greater than can be safely handled by the usual type of loud speaker. To prevent overload of the windings it is necessary to provide for the steady D.C. of the plate current flowing through them. This may be conveniently arranged by the use of the 20 Heavy A.W.A. Superaudio Choke which is especially designed for this purpose.

In appearance these are identical with the well-known A.W.A. Superaudio Transformers, an attractive black crystaline finish, but having, of course, two terminals instead of four.

RADIOS 100 DEG. THREE BAND TUNER.

This new Radiolas 100耦合器 has been submitted by the manufacturers, The Metropolitan Electric Co., Ltd., of this city.

This is the first of this type tuner to appear on this market, and is a precision instrument of utmost greatest importance to the case and numerous uses; the most important being the standard representative three circuit

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WIRELESS WEEKLY

Friday, 11th November, 1937.

TRADERS' DINNER.

On Wednesday, October 28th, a dinner was given by Mr. W. J. Blackwell of the Blackwell's Wireless Pty. Ltd., Melbourne, at the Hotel Windsor. It was attended by the directors of the company, Melbourne radio firms and representatives of various firms, including Messrs. Blackwell, Mr. R. A. H. Nicholls of the Wireless Service Co., Ltd., and Messrs. M. H. M. and Sons, Ltd., exclusive representatives for the Mullard Wireless Co., Ltd., of London. Mr. A. Real, president of the company, was present and was given a most cordial welcome.

Mr. Blackwell entertained his guests to a fine dinner and made some interesting speeches. The principal speaker of the evening was Mr. A. Real, who gave a most interesting address on the wireless industry in Australia and the future prospects of the industry. He pointed out that wireless was rapidly becoming a major industry in Australia and that the company was now in a position to take advantage of the growing demand for wireless equipment.

Mr. Blackwell then presented Mr. A. Real with a handsome watch as a token of appreciation for his services to the company. The dinner was followed by a buffet supper and dancing.

GET ONE OF THESE.

The Burgess Battery Company recently presented a book of 200 pages on the construction and operation of wireless stations to the Australian Wireless Industry. The book is known as "Wireless Engineering" and is a valuable contribution to the industry.

LIVING UP AT Cudgilla is a very old worker and radio enthusiast who lives in the hills near Windsor. He is over 90 years old and has been interested in radio for many years. He is a member of the local radio club and has been active in the industry for many years. He is also a keen collector of old radio equipment and has a large collection of antique radio sets.

The old worker has been living in the hills near Windsor for many years and is a very popular figure in the local radio club. He is well known for his knowledge of the wireless industry and is a popular speaker at meetings and conferences.

He is also well known for his love of nature and animals. He has a large collection of birds and animals and is a member of the local wildlife protection group. He is also a keen gardener and has a large garden filled with various flowers and plants.

The old worker is a very kind and generous person and is always willing to help others. He is a very popular figure in the local community and is well respected for his knowledge and experience in the wireless industry.
The Action of the Detector

In spite of the fact that a great deal has been written at various times about detection or demodulation, the average experimenter is just a little bit hazy as to just what action takes place. There are two general methods in use, one dependent upon the rectifying properties of the tube, and the other the grid leak and condenser method. The two methods will be outlined, and the reason for, and the advantage of using them in different cases.

The method which uses the rectifying property of the valve is sometimes called the C battery method of detection. The radio waves as they are picked up by the antenna are, of course, of such high frequency that they are above the audible range and we are interested more in the audio frequencies which are superimposed on the carrier wave at the broadcasting stations. In order that these variations in amplitude of the carrier wave may effect the telephone or loud speaker we must rectify them. Perhaps the best way to get an idea of the action of the plate current-grid voltage curve, as shown in Figure 1, is to consider how the carrier wave will pass through. The curve has a decided break near the lower end, is comparatively straight for a space and then curves off again.

The various grid voltages are plotted on the horizontal line and the corresponding plate current values on the vertical lines. Now if we take the grid battery voltages at some value say, A, on the curve, which may vary according to the valve from minus 3 to as much as 7, we are operating at a point where the grid voltage increases the change in current in the plate will be fairly large, while if it decreases, the plate current cannot go any lower and so very great change will take place. Figure 2 B represents the incoming wave, V the rectified wave and D the form of the current in the "phone." Total rectification is shown in the curve, a state which is never met with in actual practice.

A General Discussion of Rectifying Property of Valves.

By K. B. HUMPHREY

The grid as it is made alternately positive and negative in relation to the C battery voltage, rectifies, thus producing the desired result. The value of this method of detection lies chiefly in the fact that the tube operating in this way will take considerably more variation in current without introducing distortion than the grid leak condenser combination. This scheme is, however, less sensitive than the other. Where large quantities of power, or other voltage changes, are supplied to the detector by means of several stages of radio frequency amplification, this method is the best. It may be very easily that the upper portion of the curve could be used in such the same manner.

There are several objections to this because the grid will be positive at all times and distortion will be introduced. The grid will also draw a certain amount of current which interferes with the normal operation of the valve. The amount of current taken by the valve will be considerably greater than that caused by the valve with a full negative bias. A valve very well biased, the battery can be adjusted by means of a milliammeter in the plate circuit, as shown. The C battery is increased in value until the plate current is brought down to about 1/2 of the milliamperes in value. By shifting the C battery voltage it will be easy to determine when the valve is operating at the knee or lower end of the curve.

The action of the valve as a detector when using the grid leak and condenser, as shown in Figure 4, is entirely different than the method just outlined. In this case the grid is made positive and a small current flows through it in the same as the plate circuit. Now, when the radio frequency wave is impressed on the circuit as before, it passes through the small condenser C and is rectified by the unidirectional properties of the valve. That is, one-half of the wave only will pass through the circuit. There are two ways of looking at this action. Suppose in the first case we consider that the grid leak is left out entirely. When a radio wave comes in the positive half of the cycle will easily flow through while the negative half cannot get by the grid. The consequence is that a negative charge builds up on the grid which, in turn, affects the tube in the normal manner as an amplifier and is plate current is induced. If no grid leak were present this charge might accumulate to an extent where the plate current would be entirely stopped and what is known as chocking would occur. The leak, however, allows the charge to leak off and consequently the variations of the grid potential follow more or less regularly the variations in amplitude of the incoming signals. Another way of looking at it is to consider a small current flowing through the grid leak and thence through the grid all times. This means that there is a certain potential impressed on the grid due to the drop across the leak. The piling up of the negative voltage as outlined before, reduces the current flow through the grid leak, as it is opposite in potential to the grid voltage and thus reduces the voltage on the grid. The plate current consequently decreases.
The Fourteen Points of President Wireless.

Rule 1. Should your friend, while visiting you, remark: "I have been without your wireless for years, agree without deposit or reservation, explain modestly that your own receiver is merely "a highly good job."

Rule 2. Never offer suggestions regarding the operation of the receiver, or assume the slightest desire to operate it. On the other hand, should a friend visit you and manifest a wish to operate your receiver, surrender the dials to him immediately.

Rule 3. If a friend states that his receiver brings in stations at greater distances than your own, accept the assurance with complete credulity, not offering in rebuttal any facts regarding the performance of your receiver.

Rule 4. Should a friend write, while visiting you, inadvertently continue talking while your attention is in a distant station, thereby causing the call letters to be indistinguishable, do not prescribe her to contrive or the contrary, extol your courtesy in the point of encouraging her to continue her discourse.

Rule 5. If a friend should request you to use some speaker in a youthful spirit of play, remark nonchalance that "That is nothing—nothing at all!"

Rule 6. In the event that you are favored above your fellows in receiving China, say nothing about it the next day at your office or club, remark merely that you found the reception tolerably good last evening.

Rule 7. Should your friend indicate that he wishes advice in the selection of a receiver, or assistance in correcting defects, hesitate before rendering an opinion.

Rule 8. If a woman expresses the assumption of a preference for your receiver, or the accepted opinion of acquainting how many stations can be brought during a given evening, you should yield to this generosity.

Rule 9. If your wife, while wearing the head-phons, inadvertently should, do not comment on the fact, while wearing the head-phones herself, keep your voice modulated, to within the gentlest—particularly when announcing the reception of a distant station.

Rule 10. If your wife betrays displeasure when you call battery and to the living-room rug, maintain a gentlemanly silence.

Rule 11. A refined radio enthusiast will always tastes in programmes that please other members of his family, completely disregarding his own wishes.

Rule 12. If your child is a member of your household thoughtlessly causes your receiver to become turned out by raising battery wires or otherwise destroying your receiver while playing, it never mention the fact.

Rule 13. Should a service man or other tradesman, when you mention to correct, defects that you need new valves or batteries, immediately order the acquaintances mentioned, without question, at the same time refrain from keeping any check on the time used by the before in remedying the troubles.

Rule 14. When dinner, the appeal at a neighbor's receive, or the source of the heating oil built out the call stations of a station to which you are listening, the correct expression is: "How exceedingly unfortunate," spoken in a tone of mild terror.

From Ice Pole to Triple Jungles, Berengia.
Enjoy all the Year Round Reception

Build Your Own
8-Valve Superheterodyne

With the REMLER Super Kit and
Enjoy All-Year-Round Reception

With the REMLER the Music or Speech is Filtered before being Amplified, therefore ensuring True Reproduction and Wonderful Selectivity. Simple to operate, most economical on Battery Current, consumes less current than the average 4-valve set. Local, Inter-state, and New Zealand Stations with Loop Aerials and absolutely free from interference.

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£7/10/-
Complete Parts with all Accessories £27/8/9

NO OUTSIDE AERIAL.

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FALL FROM ATMOSPHERIC DISTURBANCE.

Remler Kit consists of 1 Oscillating Coil, 1 Intermediate Transformers, and 1 Filter Transformer.

FREE FROM WORKING PLAN AND POINT TO POINT WIRING SUPPLIED FREE WITH EACH KIT.
BROADCASTING PROGRAMMES
BY THE COMING WEEK

FRIDAY, NOV. 11
2FC, SYDNEY.


EARLY MORNING SESSION — 7 to 8 a.m.
10.45 a.m. — Big Band and programme announcements.
11.15 a.m. — Early Mail Information.
11.30 a.m. — 2FC Sporting Commission.
11.45 a.m. — "Where's Morning World?" News.

EARLY MORNING SESSION — 8 to 9 a.m.
8.10 a.m. — From the Conservatory.
8.30 a.m. — "The National Wireless Service".
8.45 a.m. — "The World's News Desk".
9.00 a.m. — "Early Morning World".

EARLY EVENING SESSION — 5 to 6 p.m.
5.15 p.m. — "The Blue Hour".
5.45 p.m. — "The Daily News".

EVENING SESSION — 6 to 7 p.m.
6.15 p.m. — "The Blue Hour".
6.45 p.m. — "The Daily News".

NIGHT SESSION — 7 to 8 p.m.
7.15 p.m. — "Blue Hour".

W S.W. "A" AND "B" BLA RODCASTING STATIONS

SYDNEY, FARMER, W BROADCASTING STATION.
(From the Conservatory.
Big Band and programme announcements.
Farmers' Broadcasting Service.
"The National Wireless Service".
"The World's News Desk".
"Where's Morning World?" News.
"Early Morning World".
"The Blue Hour".
"The Daily News".
"Blue Hour".

2BL, SYDNEY.
BROADCASTER'S LTD.
Wave Length, 502 Metres.

FRIDAY
EARLY MORNING SESSION — 7 to 8 a.m.
7.15 a.m. — "Early Morning World".
7.45 a.m. — "The Daily News".
8.15 a.m. — "Early Morning World".

FRIDAY, 11th November, 1927.
Pa:e Twenty-Four

WIRELESS WEEKLY

Friday, 11th November, 1927.

EVENING SESSION.

1 p.m. — Music.
2 p.m. — Educational Service.
3:30 p.m. — Instrumental Trios.

DAN SCULLY, MURRILL LANG, ADA HUGHES.

5 p.m. — Address by Mr. W. Faulk.
6 p.m. — Miss Lachlan Hay.
8 p.m. — Address by Mr. W. Faulk.
9 p.m. — Light Entertainment.

2 UJ, SYDNEY

Pandel Radio, Ltd.
Waves Length, 327 Metres.

Friday.

MORNING SESSION.

9 a.m. — News, Shipping, Stock Market News.
11 a.m. — Women's Section.
12.30 p.m. — Address by Miss Sherlock Rose.
2 p.m. — Address by Miss Sherlock Rose.
4 p.m. — Address by Miss Sherlock Rose.
6 p.m. — Address by Miss Sherlock Rose.
8 p.m. — Address by Miss Sherlock Rose.

11 a.m. — “The ABC” of Weather.
1 p.m. — Address by Mr. Lachlan Hay.
3 p.m. — Address by Mr. Lachlan Hay.
5 p.m. — Address by Mr. Lachlan Hay.
7 p.m. — Address by Mr. Lachlan Hay.
9 p.m. — Address by Mr. Lachlan Hay.

11 a.m. — Address by Mr. W. Faulk.
1 p.m. — Address by Mr. W. Faulk.
3 p.m. — Address by Mr. W. Faulk.
5 p.m. — Address by Mr. W. Faulk.
7 p.m. — Address by Mr. W. Faulk.
9 p.m. — Address by Mr. W. Faulk.

2 p.m. — Children’s Hour.
5 p.m. — Children’s Hour.

INTERSTATE "A" AND "B" CLASS BROADCASTING STATIONS.

H.O. — Broadcasting Company of Australia, Ltd., Melbourne, wave length 342 metres, power 1000 watts.
M.O. — Broadcasting Company of Australia, Ltd., Melbourne, wave length 342 metres, power 1000 watts.
F.O. — Wireless Farm, Ltd., Perth, wave length 250 metres, power 100 watts.
B.O. — Wireless Farm, Ltd., Broome, wave length 250 metres, power 100 watts.

3:15 p.m. — Broadcasts from the ABC's Melbourne Station.
3:30 p.m. — Broadcasts from the ABC’s Melbourne Station.
3:45 p.m. — Broadcasts from the ABC’s Melbourne Station.
4 p.m. — Broadcasts from the ABC’s Melbourne Station.
4:15 p.m. — Broadcasts from the ABC’s Melbourne Station.
4:30 p.m. — Broadcasts from the ABC’s Melbourne Station.
4:45 p.m. — Broadcasts from the ABC’s Melbourne Station.
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11 a.m. — Broadcasts from the ABC’s Melbourne Station.
11:15 a.m. — Broadcasts from the ABC’s Melbourne Station.
11:30 a.m. — Broadcasts from the ABC’s Melbourne Station.
11:45 a.m. — Broadcasts from the ABC’s Melbourne Station.
12 noon — Broadcasts from the ABC’s Melbourne Station.
WIRELESS WEEKLY

Friday, 11th November, 1927

6WF, PERTH
Westralian Farmer's
Radio licensed 1926 Meters.

7ZL, HOBART
Tasmanian Broadcasters, Ltd.
Wave Length, 345 Meters.

FORBREIGN BROADCASTERS

JOCK—Japan Radio Broadcasting Co.,
Murasaki St., Tokyo 110 meters, 1410 w.
(Announcement in English and Japanese).

JOBE—Jap Central Broadcasting Co.,
Yasukuni St., 300 meters, 1110 w.
(Announcement in English and Japanese).

JAP—Tokyo Broadcasting Co., Ltd.,
Asakusa, 200 meters, 1000 w.
(English and Japanese).

JFC—Java Central Broadcasting Co.,
Javanese, 300 meters, 1010 w.
(English and Japanese).

KIB—Korea Broadcasting Co.,
125 meters, 500 w.

There are no rivals to the Phils.

FOREIGN BROADCASTERS

JOCK—Japan Radio Broadcasting Co.,
Murasaki St., Tokyo 110 meters, 1410 w.
(Announcement in English and Japanese).

JOBE—Jap Central Broadcasting Co.,
Yasukuni St., 300 meters, 1110 w.
(Announcement in English and Japanese).

JAP—Tokyo Broadcasting Co., Ltd.,
Asakusa, 200 meters, 1000 w.
(English and Japanese).

KIB—Korea Broadcasting Co.,
125 meters, 500 w.

There are no rivals to the Phils.
Behind the Scenes.

Earl's Shop.

Short wave broadcasting.

Why blame static? Buy a Philco.

2BL, Sydney

Saturday.

EARLY MORNING SESSION

4.5 am.

Why blame static? Buy a Philco.

2BL, Sydney
WIRELESS WEEKLY

Page Twenty-Eight

3LO, MELBOURNE.

Saturday.

3LO Morniiig Session.

11 a.m.-JOHNSTON'S STUDIO BOYS.

11.30 a.m.-Miss Johnston's Programme.

11.45 a.m.-Words of Welcome.

12 noon.-JOHNSTON'S STUDIO BOYS.

12.30 p.m.-A Program for the Young.

1.15 p.m.-C. THOMAS SPOELDER, "Lass of the Cove." (Radio Drama.)

1.45 p.m.-T. E. HALL'S "STUDIO BOYS.

2 p.m.-JOHNSTON'S STUDIO BOYS.

2.10 p.m.-Radio Drama.

2.20 p.m.-I. DUNN'S "STUDIO BOYS.

2.45 p.m.-JOHNSTON'S STUDIO BOYS.

3 p.m.-JOHNSTON'S STUDIO BOYS.

3.30 p.m.-Radio Drama.

4 p.m.-NORTHUMBERLAND QUARTET.

4.15 p.m.-Radio Drama.

5 p.m.-JOHNSTON'S STUDIO BOYS.

5.30 p.m.-Radio Drama.

5.45 p.m.-Rexco RADIO DOLL PLAYHOUSE.

6 p.m.-JOHNSTON'S STUDIO BOYS.

6.15 p.m.-Radio Drama.

6.45 p.m.-JOHNSTON'S STUDIO BOYS.

7 p.m.-JOHNSTON'S STUDIO BOYS.

7.15 p.m.-Radio Drama.

7.45 p.m.-JOHNSTON'S STUDIO BOYS.

8 p.m.-JOHNSTON'S STUDIO BOYS.

8.15 p.m.-Radio Drama.

8.45 p.m.-JOHNSTON'S STUDIO BOYS.

9 p.m.-JOHNSTON'S STUDIO BOYS.

9.15 p.m.-Radio Drama.

9.45 p.m.-JOHNSTON'S STUDIO BOYS.

10 p.m.-JOHNSTON'S STUDIO BOYS.

10.15 p.m.-Radio Drama.

10.45 p.m.-JOHNSTON'S STUDIO BOYS.

11 p.m.-JOHNSTON'S STUDIO BOYS.

NIGHT SESSION.

10 p.m.-A Program for the Young.

10.45 p.m.-A Program for the Young.

11 p.m.-Radio Drama.

11.45 p.m.-Radio Drama.

12 midnight.-Radio Drama.

WIRELESS WEEKLY

Page Twenty-Eight

3LO, MELBOURNE.

Saturday.

3LO Morniiing Session.

11 a.m.-JOHNSTON'S STUDIO BOYS.

11.30 a.m.-Miss Johnston's Programme.

11.45 a.m.-Words of Welcome.

12 noon.-JOHNSTON'S STUDIO BOYS.

12.30 p.m.-A Program for the Young.

1.15 p.m.-C. THOMAS SPOELDER, "Lass of the Cove." (Radio Drama.)

1.45 p.m.-T. E. HALL'S "STUDIO BOYS.

2 p.m.-JOHNSTON'S STUDIO BOYS.

2.10 p.m.-Radio Drama.

2.20 p.m.-I. DUNN'S "STUDIO BOYS.

2.45 p.m.-JOHNSTON'S STUDIO BOYS.

3 p.m.-JOHNSTON'S STUDIO BOYS.

3.30 p.m.-Radio Drama.

4 p.m.-NORTHUMBERLAND QUARTET.

4.15 p.m.-Radio Drama.

5 p.m.-JOHNSTON'S STUDIO BOYS.

5.30 p.m.-Radio Drama.

5.45 p.m.-Rexco RADIO DOLL PLAYHOUSE.

6 p.m.-JOHNSTON'S STUDIO BOYS.

6.15 p.m.-Radio Drama.

6.45 p.m.-JOHNSTON'S STUDIO BOYS.

7 p.m.-JOHNSTON'S STUDIO BOYS.

7.15 p.m.-Radio Drama.

7.45 p.m.-JOHNSTON'S STUDIO BOYS.

8 p.m.-JOHNSTON'S STUDIO BOYS.

8.15 p.m.-Radio Drama.

8.45 p.m.-JOHNSTON'S STUDIO BOYS.

9 p.m.-JOHNSTON'S STUDIO BOYS.

9.15 p.m.-Radio Drama.

9.45 p.m.-JOHNSTON'S STUDIO BOYS.

10 p.m.-JOHNSTON'S STUDIO BOYS.

10.15 p.m.-Radio Drama.

10.45 p.m.-JOHNSTON'S STUDIO BOYS.

11 p.m.-Radio Drama.

11.45 p.m.-Radio Drama.

12 midnight.-Radio Drama.
THE WIRELESS WEEKLY: THE HUNDRED PER CENT AUSTRALIAN RADIO JOURNAL

FRIDAY, 11TH NOVEMBER, 1927

7ZL, HOBART

Saturday

MOORING SESSION.

11 a.m. to 1 p.m.

APPROACHING SESSION.

1 p.m. - May broadcast from the North-Western Australia, and make call, 1010, or
1,010, when all is well.

EARLY EVENING SESSION.

4.30 a.m. - Radio broadcast by "Miss Australi.

5.15 p.m. - Radio broadcast by "The Daily News.

6.30 p.m. - Radio broadcast by "The Sydney Mail.

7.15 p.m. - Radio broadcast by "The Argus.

7.30 p.m. - Radio broadcast by "The Sydney Morning Herald.

8.15 p.m. - Radio broadcast by "The Age.

9.00 p.m. - Radio broadcast by "The Sydney Mail.

10.00 p.m. - Radio broadcast by "The Sydney Mail.

11.00 p.m. - Radio broadcast by "The Sydney Mail.

SUNDAY, NOV. 13

2FC, SYDNEY

MORNING SESSION.

11 a.m. - "Big Band" music.

12.00 noon - "Big Band" music.

3.30 p.m. - "Big Band" music.

4.30 p.m. - "Big Band" music.

5.30 p.m. - "Big Band" music.

6.00 p.m. - "Big Band" music.

7.00 p.m. - "Big Band" music.

8.00 p.m. - "Big Band" music.

Square Glass Cells with each Philo.

5CL, ADELAIDE

Saturday

MORNING SESSION.

11 a.m. - G.O. Close.

12.00 noon - "Australian" music.

1.00 p.m. - "Australian" music.

2.00 p.m. - "Australian" music.

3.00 p.m. - "Australian" music.

4.00 p.m. - "Australian" music.

5.00 p.m. - "Australian" music.

6.00 p.m. - "Australian" music.

7.00 p.m. - "Australian" music.

8.00 p.m. - "Australian" music.

Square Glass Cells with each Philo.

4QQ, BRISBANE

Saturday

MORNING SESSION.

10 a.m. - "Music" by "Miss Australi.

11.00 a.m. - "Music" by "The Daily News.

5.00 p.m. - "Music" by "The Sydney Mail.

6.00 p.m. - "Music" by "The Sydney Morning Herald.

7.00 p.m. - "Music" by "The Age.

8.00 p.m. - "Music" by "The Sydney Mail.

9.00 p.m. - "Music" by "The Sydney Mail.

10.00 p.m. - "Music" by "The Sydney Mail.

11.00 p.m. - "Music" by "The Sydney Mail.

Square Glass Cells with each Philo.

6WF, PERTH

Saturday

EARLY EVENING SESSION.

12 p.m. - "Music" by "Miss Australi.

1.00 p.m. - "Music" by "The Daily News.

2.00 p.m. - "Music" by "The Sydney Mail.

3.00 p.m. - "Music" by "The Sydney Morning Herald.

4.00 p.m. - "Music" by "The Age.

5.00 p.m. - "Music" by "The Sydney Mail.

6.00 p.m. - "Music" by "The Sydney Mail.

7.00 p.m. - "Music" by "The Sydney Mail.

8.00 p.m. - "Music" by "The Sydney Mail.

Square Glass Cells with each Philo.

(Forบรรณานุกรม)
WIRELESS WEEKLY

2GB, SYDNEY

Sunday.
10.45 a.m.—Service from St. John's, Liberal Catholic Church, Northcote.
11.35 a.m.—Service from St. Andrew's, Liberal Catholic Church, Northcote.
12.30 a.m.—Service from St. John's, Liberal Catholic Church, Northcote.
1.0 a.m.—Service from St. John's, Liberal Catholic Church, Northcote.
2.0 a.m.—Dance, St. John's, Liberal Catholic Church, Northcote.
3.0 a.m.—Service from St. John's, Liberal Catholic Church, Northcote.

2UW, SYDNEY

Sunday.
9.0 a.m.—Shingston's Light, Handy Light, Handy Light, Handy Light.
10.0 a.m.—Shingston's Light, Handy Light, Handy Light, Handy Light.
11.0 a.m.—Shingston's Light, Handy Light, Handy Light, Handy Light.
12.0 a.m.—Shingston's Light, Handy Light, Handy Light, Handy Light.
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WIRELESS WEEKLY

Monday, Nov. 14

2FC, SYDNEY.

EARLY MORNING SESSION—10 a.m.

MORNING SESSION.

11 a.m.—The Rev. Mr. , and programme announcements.
12 noon—Social Morning Service.
12.30 noon—Sydney Morning Herald news service.
2 p.m.—Latest Australian and foreign items, by the 2FC Correspondent.
3.30 p.m.—Music service.
4 p.m.—The Bells for school children.
5.45 p.m.—A P.A. and Sydney's Daily Service.
6 p.m.—Dinner hour.

MID-MORNING SESSION.

10 a.m.—The Rev. Mr. and announcements.
10.30 a.m.—Diet for the day, cereal.
11 a.m.—Sunday school.
11.30 a.m.—Children's music service.
12 noon—Children's instrumental trio.
1 p.m.—Children's instrumental trio.
4 p.m.—Children's instrumental trio.
5 p.m.—Children's instrumental trio.
6 p.m.—Children's instrumental trio.

AFTER CHURCH SERVICE.

11 a.m.—Children's service, including short singing and prayer. The dedication of the new Church building will be performed by Mr. , Minister of the Church.
2 p.m.—Children's service.
4 p.m.—Children's service.
9 p.m.—Children's service.

7ZL, HOUSTON

Sunday.

MORNING SESSION.

11 a.m.—Jubilee Service from Mornington Presbyterian Church. Preacher: Mr. . Address will be read.

AFTERNOON SESSION.

1.30 p.m.—Programme for ZL.

EARLY EVENING SESSION.

6.30 p.m.—Children's service with the 'Oriental Feast.'

NIGHT SESSION.

7 p.m.—Church service from Middle Street Presbyterian Church. Preacher: Mr. .
8 p.m.—Children's instrumental trio.
9 p.m.—Children's instrumental trio.
10 p.m.—Programme for ZL.

4QG, BRISBANE

Sunday.

EARLY MORNING SESSION.

ST. PAUL'S CHURCH.

The morning service will be at 11 a.m. at St. Paul's Church, 219 George St., Brisbane.

MORNING SESSION.

The Rev. Mr. will be the speaker at the morning service.

AFTERNOON SESSION.

The Rev. Mr. will be the speaker at the afternoon service.

EARLY EVENING SESSION.

6.30 p.m.—Children's service with the 'Oriental Feast.'

NIGHT SESSION.

7 p.m.—Church service from Middle Street Presbyterian Church. Preacher: Mr. .
8 p.m.—Children's instrumental trio.
9 p.m.—Children's instrumental trio.
10 p.m.—Programme for ZL.

GWF, PERTH.

Sunday.

EARLY MORNING SESSION.

GREAT WIGGLESBY CHURCH.

The morning service will be at 11 a.m. at the Great Wigglesby Church, 219 George St., Brisbane.

MORNING SESSION.

The Rev. Mr. will be the speaker at the morning service.

AFTERNOON SESSION.

The Rev. Mr. will be the speaker at the afternoon service.

EARLY EVENING SESSION.

6.30 p.m.—Children's service with the 'Oriental Feast.'

NIGHT SESSION.

7 p.m.—Church service from Middle Street Presbyterian Church. Preacher: Mr. .
8 p.m.—Children's instrumental trio.
9 p.m.—Children's instrumental trio.
10 p.m.—Programme for ZL.
Page Thirty-Two

WIRELESS WEEKLY

2BL, SYDNEY

Monday

EARLY EVENING SESSION

8.45 p.m. — "The Crimes of 82".
8.50 p.m. — "The Mysterious Lady" (for the children).
8.55 p.m. — Thirty Two I. T.P. B. R. P.:
2.45 p.m. — "History of the Times".
2.50 p.m. — "The Hundred Percent Australian Radio Journal" (for the children).
4.40 p.m. — "The Wireless Weekly": the hundred percent Australian radio journal.

EARLY MORNING SESSION

6.30 a.m. — "The Alpine Rescue".
6.40 a.m. — "The Morning News": the children.
6.45 a.m. — "The Day's News".
7.10 a.m. — "The Daily Telegraph": the children.
7.15 a.m. — "The Sydney Morning Herald": the children.
7.20 a.m. — "The Melbourne Age": the children.
7.25 a.m. — "The Sydney Mail": the children.
7.30 a.m. — "The Advertiser".
7.35 a.m. — "The Argus": the children.
7.40 a.m. — "The Newcastle Herald": the children.
7.45 a.m. — "The Daily Telegraph": the children.
7.50 a.m. — "The Irish Times": the children.
7.55 a.m. — "The Sydney Morning Herald": the children.
8.00 a.m. — "The Argus": the children.
8.05 a.m. — "The Advertiser": the children.
8.10 a.m. — "The Sydney Mail": the children.
8.15 a.m. — "The Newcastle Morning Chronicle": the children.
8.20 a.m. — "The Daily Telegraph": the children.
8.25 a.m. — "The Irish Times": the children.
8.30 a.m. — "The Sydney Morning Herald": the children.
8.35 a.m. — "The Argus": the children.
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5.50 a.m. — "The Sydney Morning Herald": the children.
5.55 a.m. — "The Argus": the children.
6.00 a.m. — "The Advertiser": the children.
6.05 a.m. — "The Sydney Mail": the children.
The wireless weekly: the hundred per cent Australian radio journal

You're there with a Crosley

£25/10/-

"THE BANDBOX"


Here are the words for which Australian Radio's greatest advertisers bought together by Cadle and associates the last depression, marking a decided improvement in trade standards. This is the complete receiver which has won a world-wide following known as "Bandbox" at the unprecedented price of £25.10. Cadle's unparalleled achievement.

THE BANDBOX IS SHIELDED,

 wards noise and improves tube life by preventing ground fluctuations. This result is achieved by means of a new shield which the receiver is capable of producing without any outside trouble. The shield is made of heavy iron and is placed against the receiver. The receiver is made of heavy iron and is placed against the receiver. The receiver is made of heavy iron and is placed against the receiver.

VOLUME CONTROL,

The receiver has a special volume control, which permits the operator to control the volume of the receiver. This result is achieved by means of a new shield which the receiver is capable of producing without any outside trouble. The shield is made of heavy iron and is placed against the receiver. The receiver is made of heavy iron and is placed against the receiver.

ILLUMINATED Dial,

This receiver has a special volume control, which permits the operator to control the volume of the receiver. This result is achieved by means of a new shield which the receiver is capable of producing without any outside trouble. The shield is made of heavy iron and is placed against the receiver. The receiver is made of heavy iron and is placed against the receiver.

INSTALLATIONS SIMPLIFIED.

This receiver has a special volume control, which permits the operator to control the volume of the receiver. This result is achieved by means of a new shield which the receiver is capable of producing without any outside trouble. The shield is made of heavy iron and is placed against the receiver. The receiver is made of heavy iron and is placed against the receiver.

EASILY ADAPTED TO CONSONER.

This receiver has a special volume control, which permits the operator to control the volume of the receiver. This result is achieved by means of a new shield which the receiver is capable of producing without any outside trouble. The shield is made of heavy iron and is placed against the receiver. The receiver is made of heavy iron and is placed against the receiver.

RADIO DEALERS

You have a Special Promotion for you—WRITE NOW.

International Radio Co., Ltd.
223 Castlereagh Street, SYDNEY

SEND FOR OUR FREE CATALOGUE.
WIRELESS WEEKLY

2 UW, SYDNEY

Monday.

MORNING SESSION
9 a.m.—News, alphabet, match, cross-words.
10 a.m.—News from the world.
11 a.m.—Close down.
12.30 p.m.—Special Programs—Locomotive.
1.30 p.m.—Close down.

AFTERNOON SESSION
3 p.m.—Nationals.
7 p.m.—Nationals.
9 p.m.—Close down.
11 p.m.—Close down.

EVENING SESSION
9 p.m.—Nationals.
11 p.m.—Close down.
12 mid—Close down.

WIRELESS WEEKLY

3 LO, MELBOURNE

Monday.

MORNING SESSION
12.30 p.m.—Demonstration of the War in the World. (The Wireless Weekly, Melbourne, Wednesday, September 27th, 1927.)
12.45 p.m.—Australian Wireless Service of the Wireless Weekly, Melbourne, Wednesday, September 27th, 1927.
1.30 p.m.—THE JIVI AND HIS STROPHONOMICALS: "The Last Vase: We are together."
2.30 p.m.—THE JIVI AND HIS STROPHONOMICALS: "The Last Vase: We are together."
3.30 p.m.—THE JIVI AND HIS STROPHONOMICALS: "The Last Vase: We are together."
4.30 p.m.—THE JIVI AND HIS STROPHONOMICALS: "The Last Vase: We are together."
5.30 p.m.—THE JIVI AND HIS STROPHONOMICALS: "The Last Vase: We are together."
6.30 p.m.—THE JIVI AND HIS STROPHONOMICALS: "The Last Vase: We are together."
7.30 p.m.—THE JIVI AND HIS STROPHONOMICALS: "The Last Vase: We are together."
8.30 p.m.—THE JIVI AND HIS STROPHONOMICALS: "The Last Vase: We are together."
9.30 p.m.—THE JIVI AND HIS STROPHONOMICALS: "The Last Vase: We are together."
10.30 p.m.—THE JIVI AND HIS STROPHONOMICALS: "The Last Vase: We are together."
11.30 p.m.—THE JIVI AND HIS STROPHONOMICALS: "The Last Vase: We are together."

EVENING SESSION
11.30 p.m.—THE JIVI AND HIS STROPHONOMICALS: "The Last Vase: We are together.

Passed the 19th day of September, 1927.
Wireless Weekly

Lowest Battery Cost per Hour of Enjoyment!

If you have been buying radio batteries too often, treat yourself to a set of

BRIGHT STAR RADIO BATTERIES

— and see how long they last! Remember, you pay no more than for ordinary batteries, and you get clear, unbroken reception at lowest possible cost per hour of enjoyment.

“Bag Type” cell construction — an original Bright Star feature — gives unusual power, silent operation and long life.

Your dealer has Bright Star Batteries. Get them — today!

BRIGHT STAR BATTERY CO.
Hoboken, N. J.
Branch Chicago, Ill.

SEVENTEEN YEARS BUILDING QUALITY BATTERIES

SEND FOR OUR FREE CATALOGUE

INTERNATIONAL RADIO CO. LTD.
229 Castlereagh St. • • • SYDNEY
91-93 Courtenay Place, WELLINGTON, N.Z.
WIRELESS WEEKLY

Friday, 11th November, 1937

4QG, BRISBANE

MORNING SESSION

10.00 A.M. - WIRELESS WEEKLY

10.15 A.M. - Advertising

10.30 A.M. - Radio News

10.40 A.M. - Grammar Quiz

10.50 A.M. --time signal

11.00 A.M. - Afternoon Tea

11.10 A.M. - Advertising

11.20 A.M. - News from the Empire

11.30 A.M. - Afternoon Tea

11.40 A.M. - Radio News

11.50 A.M. - Grammar Quiz

12.00 A.M. - Time Signal

6WF, PERTH

MORNING SESSION

10.00 A.M. - Wireless Weekly

10.15 A.M. - Advertising

10.30 A.M. - Radio News

10.40 A.M. - Grammar Quiz

10.50 A.M. - Time Signal

11.00 A.M. - Afternoon Tea

11.10 A.M. - Advertising

11.20 A.M. - News from the Empire

11.30 A.M. - Afternoon Tea

11.40 A.M. - Radio News

11.50 A.M. - Grammar Quiz

12.00 A.M. - Time Signal

7ZL, HOEBART

MORNING SESSION

10.00 A.M. - WIRELESS WEEKLY

10.15 A.M. - Advertising

10.30 A.M. - Radio News

10.40 A.M. - Grammar Quiz

10.50 A.M. - Time Signal

11.00 A.M. - Afternoon Tea

11.10 A.M. - Advertising

11.20 A.M. - News from the Empire

11.30 A.M. - Afternoon Tea

11.40 A.M. - Radio News

11.50 A.M. - Grammar Quiz

12.00 A.M. - Time Signal

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National Library of Australia
ALL THE DIFFERENCE

Do you get good reception? Do you enjoy real broadcasting? Can you get interesting station with all the punch and power of the locals? If not, then you need an Emmco Eliminator. Time, the only acid test of any product, has shown Emmco superiority. Thousands of people draw their plate currents direct from the light socket—easily, simply and economically—with Emmco Eliminators. No acids, no batteries; full, noiseless power at any time by merely turning on the house current. No changes required in your set.

Emmco Super Power Eliminator
Made especially for Multi Valve Sets. Complete eliminators direct from light socket. Enclosed in metal case, with Baking tap
£12/12-/-

Emmco “B” Battery Eliminator
For use with sets up to five Valves. Complete, permanent
Adaptable for all valves
£10/10-/-

Emmco Battery Charger
Made in two capacities, both Chargers have clamps for charging either four or six valve batteries.
Completes with Cords and Adaptors:
2½ Amps - £4/15-/-
5 Amps - £7/7-/-

AT ALL DEALERS.
Tuesday, Nov. 15
2FC, SYDNEY.

EARLY MORNING SESSION—1 to 8 a.m.

MORNING SESSION
10 a.m.—The "Beat" and program announcement.
15 a.m.—"Sydney Morning Herald" news service.
16 a.m.—Studio music.
18 a.m.—Late special information by the Navy and Army.
22 a.m.—"Sunday" music.
23 a.m.—Morning music for school children.
31 a.m.—"The Voice of Australia" morning music.
30 a.m.—Studio music.
1.30 a.m.—"The Voice of Australia" morning music.
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3.30 a.m.—Studio music.
3.30 a.m.—"The Voice of Australia" morning music.
3.30 a.m.—Studio music.
Radio Corporation of Australia Pty. Ltd.

Stop it!

This ability to choose your own programme from the various stations is a great boon! It means that if you do not care for the latest lot you hear from there, you can tune in elsewhere—without interference.

Selectivity depends primarily upon the kind of condenser you set possession of. Any condenser may permit use to be made in ELC, AGC, FTC, etc., and other stations, but if your logging of them is all crowded on one small section of the dial, you are apt to have the better from this station the way into the concert programme from that.

Choose the "Advance" Straight Line Frequency Condenser, which does away with all station bunching. It is designed for multiple broadcasting in a one group frame, and is most rapid. Don't forget the name—"Advance." Your dealer has it.

Advance

Improved

Straight Line
Frequency Condenser

Manufactured in Australia by

Radio Corporation of Australia Pty. Ltd.

Melbourne  Sydney  Adelaide  Brisbane
WIRELESS WEEKLY

Friday, 11th November, 1927.

21.00 h. "Eugene Smith, Mona Ria and Finn Arntz.
21.05 h. "A Valentine for My Life".
21.10 h. "Pauline Hallam, "No Man's Land."
21.15 h. "The Australianatre of War, "A Pleasure.""
21.20 h. "Commercial" Radio Station.

3LO, MELBOURNE.

Tuesday, MIDWINTER.

19.00 h. "Melbourne Observer's Time Service.
19.05 h. "Melbourne Observer's Time Service.

2 UW, SYDNEY.

Tuesday.

MORNING SESSION.
1.30 h. "Eugene Smith, Mona Ria and Finn Arntz.
1.35 h. "A Valentine for My Life."
1.40 h. "Commercial" Radio Station.

21.00 h. "Eugene Smith, Mona Ria and Finn Arntz.
21.05 h. "A Valentine for My Life."
21.10 h. "Commercial" Radio Station.

ERSHINE, 11.1.27.

Page Forty

The wireless weekly : the hundred per cent Australian radio journal
The fullest enjoyment of any radio programme demands that you hear the high resonant treble notes and deep well-rounded bass tones as well as the intermediate scales. Because they give an exceptionally full range of notes, Claritone Loudspeakers are trusted to mature and provide maximum results. Get to know Claritone—You'll be pleasantly surprised at their unique performance. At all leading dealers or the

Weldon Electric Supply Co. Ltd.
Suppliers of everything in radio and electrical equipment.
352 Kent Street, SYDNEY

The Junior Claritone
W 287
£3/10/-

The wireless weekly : the hundred per cent Australian radio journal
Another Record Smashed!

50 STATIONS—1 DIAL!

ALL ON LOUD SPEAKER

Price:

£4.2

complete with all accessories and Loud Speaker.

Easy Terms Arranged

The Udisco 5-Valve SUPER-NEUT.

Dear Sir,

Since my father wrote to you on May 22nd, I have had further success with my 5-valve Super Neutrodyne. My complete list of stations logged is now as follows:

N.S.W.—2UR, 2YC, 2XR, 2UY, 2UR, 2SH, 2BE, 2BH, 2CG, 2MR, 2MR, 2BH, 2SC, 2GD, 2HD, 2MN, 2RA, 2RU, 2SA, 2SC, 2SH, 2CG, 2HD.

V.I.G.—3LO, 3AR, 3DR, 3BY, 3SW, 3BR, 3KB, 3LG, 3PP, 3PA, 3SH, 3CH, 3UE, 3AM.

Q.I.A.—40G.

S. A.U.—4CL, 4DN, 1KA.

T.A.S.—72M, 7UX, 7LA.

S.E.—7Y, 7VA, 7VA, 7VA.

FOREIGN—JOAK, EZQ.

All 50 stations were received at loud speaker strength without a single cross-talk. My receiver works equally as well with a frame aerial as with an end-tube one. I have received 42 stations, including some in New Zealand and Tasmania, using a frame aerial, and 18 stations, including 7YA and 7VA, were heard on the loud speaker without aerial or earth.

All the above stations were logged using 9 ordinary UX501A tubes.

Yours faithfully,

(Signed) A. NICHOLSON.

UNITED DISTRIBUTORS LIMITED

72 Clarence Street, and
28A Martin Place, SYDNEY

SOLE DISTRIBUTORS FOR N.S.W.

National Library of Australia
### WIRELESS WEEKLY

**Frida, 11th November, 1927**

**CONCERT NIGHT.**

**5.30 p.m.**—Musical programme from the studio, concluding vocal and instrumental acrobats.

**6.00 p.m.**—Late news items, by courtesy of *The Daily News*, Newspaper Co. Ltd.

**6.05 p.m.**—Music in studio, by courtesy of French Stores.

**6.15 p.m.**—Tune down.

**10.45 p.m.**—Tune down.

**10.55 p.m.**—‘Big Ben’.

**11.00 p.m.**—Music in studio.

**11.15 p.m.**—Early news items, by courtesy of French Stores.

**11.20 p.m.**—Music in studio.

**11.25 p.m.**—Radio news.

**11.30 p.m.**—‘Big Ben’.

**11.45 p.m.**—Music in studio.

**12.00 a.m.**—Closed down.

**12.05 a.m.**—Tune down.

**12.10 a.m.**—Tune down.

**12.15 a.m.**—Late news items, by courtesy of French Stores.

**12.25 a.m.**—Music in studio, by courtesy of French Stores.

**12.30 a.m.**—‘Big Ben’.

**12.45 a.m.**—Music in studio.

**12.50 a.m.**—Radio news.

**12.55 a.m.**—Closed down.

**1.00 a.m.**—Tune down.

**1.05 a.m.**—Tune down.

**1.10 a.m.**—Tune down.

**1.15 a.m.**—‘Big Ben’.

**1.20 a.m.**—Music in studio.

**1.30 a.m.**—Radio news.

**1.35 a.m.**—Closed down.

**1.40 a.m.**—Tune down.

**1.45 a.m.**—Tune down.

**2.00 a.m.**—Tune down.

**2.05 a.m.**—Tune down.

**2.10 a.m.**—‘Big Ben’.

**2.15 a.m.**—Music in studio.

**2.30 a.m.**—Radio news.

**2.35 a.m.**—Closed down.

**2.40 a.m.**—Tune down.

**2.45 a.m.**—Tune down.

**3.00 a.m.**—Tune down.

**3.05 a.m.**—Tune down.

**3.10 a.m.**—‘Big Ben’.

**3.15 a.m.**—Music in studio.

**3.30 a.m.**—Radio news.

**3.35 a.m.**—Closed down.

**3.40 a.m.**—Tune down.

**3.45 a.m.**—Tune down.

**4.00 a.m.**—Tune down.

**4.05 a.m.**—Tune down.

**4.10 a.m.**—‘Big Ben’.

**4.15 a.m.**—Music in studio.

**4.30 a.m.**—Radio news.

**4.35 a.m.**—Closed down.

**4.40 a.m.**—Tune down.

**4.45 a.m.**—Tune down.

**5.00 a.m.**—Tune down.

**5.05 a.m.**—Tune down.

**5.10 a.m.**—‘Big Ben’.

**5.15 a.m.**—Music in studio.

**5.30 a.m.**—Radio news.

**5.35 a.m.**—Closed down.

**5.40 a.m.**—Tune down.

**5.45 a.m.**—Tune down.

**6.00 a.m.**—Tune down.

**6.05 a.m.**—Tune down.

**6.10 a.m.**—‘Big Ben’.

**6.15 a.m.**—Music in studio.

**6.30 a.m.**—Radio news.

**6.35 a.m.**—Closed down.

**6.40 a.m.**—Tune down.

**6.45 a.m.**—Tune down.

**7.00 a.m.**—Tune down.

**7.05 a.m.**—Tune down.

**7.10 a.m.**—‘Big Ben’.

**7.15 a.m.**—Music in studio.

**7.30 a.m.**—Radio news.

**7.35 a.m.**—Closed down.

**7.40 a.m.**—Tune down.

**7.45 a.m.**—Tune down.

**8.00 a.m.**—Tune down.

**8.05 a.m.**—Tune down.

**8.10 a.m.**—‘Big Ben’.

**8.15 a.m.**—Music in studio.

**8.30 a.m.**—Radio news.

**8.35 a.m.**—Closed down.

**8.40 a.m.**—Tune down.

**8.45 a.m.**—Tune down.

**9.00 a.m.**—Tune down.

**9.05 a.m.**—Tune down.

**9.10 a.m.**—‘Big Ben’.

**9.15 a.m.**—Music in studio.

**9.30 a.m.**—Radio news.

**9.35 a.m.**—Closed down.

**9.40 a.m.**—Tune down.

**9.45 a.m.**—Tune down.

**10.00 a.m.**—Tune down.

**10.05 a.m.**—Tune down.

**10.10 a.m.**—‘Big Ben’.

**10.15 a.m.**—Music in studio.

**10.30 a.m.**—Radio news.

**10.35 a.m.**—Closed down.

**10.40 a.m.**—Tune down.

**10.45 a.m.**—Tune down.

**11.00 a.m.**—Tune down.

**11.05 a.m.**—Tune down.

**11.10 a.m.**—‘Big Ben’.

**11.15 a.m.**—Music in studio.

**11.30 a.m.**—Radio news.

**11.35 a.m.**—Closed down.

**11.40 a.m.**—Tune down.

**11.45 a.m.**—Tune down.

**12.00 noon**—Tune down.

**12.05 noon**—Tune down.

**12.10 noon**—‘Big Ben’.

**12.15 noon**—Music in studio.

**12.30 noon**—Radio news.

**12.35 noon**—Closed down.

**12.40 noon**—Tune down.

**12.45 noon**—Tune down.
WIRELESS WEEKLY

Friday, 11th November, 1921.

3LO, MELBOURNE.

MIDNIGHT SESSION.

12.00 a.m.—Duo of.xr.
12.15 a.m.—Instrumental by Mr. J. E. Powell.
12.30 a.m.—Music.
12.45 a.m.—Address by Mr. J. E. Powell.
1.00 a.m.—Music.
1.15 a.m.—Instrumental by Mr. J. E. Powell.
1.30 a.m.—Music.
1.45 a.m.—Address by Mr. J. E. Powell.
2.00 a.m.—Music.
2.15 a.m.—Address by Mr. J. E. Powell.
2.30 a.m.—Music.
2.45 a.m.—Address by Mr. J. E. Powell.
3.00 a.m.—Music.
3.15 a.m.—Address by Mr. J. E. Powell.
3.30 a.m.—Music.
3.45 a.m.—Address by Mr. J. E. Powell.

2YW, SYDNEY.

Wednesday.

MIDNIGHT SESSION.

12.00 a.m.—Opening Tunes.
12.15 a.m.—Address Mr. J. E. Powell.
12.30 a.m.—VoiceTO.
12.45 a.m.—Address by Mr. J. E. Powell.
1.00 a.m.—VoiceTO.
1.15 a.m.—Address by Mr. J. E. Powell.
1.30 a.m.—VoiceTO.
1.45 a.m.—Address by Mr. J. E. Powell.
2.00 a.m.—VoiceTO.
2.15 a.m.—Address by Mr. J. E. Powell.
2.30 a.m.—VoiceTO.
2.45 a.m.—Address by Mr. J. E. Powell.
3.00 a.m.—VoiceTO.
3.15 a.m.—Address by Mr. J. E. Powell.
3.30 a.m.—VoiceTO.
3.45 a.m.—Address by Mr. J. E. Powell.

2GB, SYDNEY.

Wednesday.

MORNING SESSION.

8.00 a.m.—Waltz.
8.30 a.m.—Choric Talk.
9.00 a.m.—Music.
9.30 a.m.—Pommerel Class.
10.00 a.m.—Musk.
10.30 a.m.—Health and Dew.
11.00 a.m.—Class down.

AFTERNOON SESSION.

1.30 p.m.—Waltz.
2.00 p.m.—Address by Professor H. F. Wood.
2.30 p.m.—Music.
3.00 p.m.—Address.
3.30 p.m.—Waltz.

WIRELESS WEEKLY

Friday, 11th November, 1921.

3LO, MELBOURNE.

MIDNIGHT SESSION.

12.00 a.m.—Duo of xr.
12.15 a.m.—Instrumental by Mr. J. E. Powell.
12.30 a.m.—Music.
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1.00 a.m.—Music.
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1.45 a.m.—Address by Mr. J. E. Powell.
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3.00 a.m.—Music.
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3.30 a.m.—Music.
3.45 a.m.—Address by Mr. J. E. Powell.

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12.00 a.m.—Opening Tunes.
12.15 a.m.—Address Mr. J. E. Powell.
12.30 a.m.—VoiceTO.
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1.15 a.m.—Address by Mr. J. E. Powell.
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3.45 a.m.—Address by Mr. J. E. Powell.

2GB, SYDNEY.

Wednesday.

MORNING SESSION.

8.00 a.m.—Waltz.
8.30 a.m.—Choric Talk.
9.00 a.m.—Music.
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10.00 a.m.—Musk.
10.30 a.m.—Health and Dew.
11.00 a.m.—Class down.

AFTERNOON SESSION.

1.30 p.m.—Waltz.
2.00 p.m.—Address by Professor H. F. Wood.
2.30 p.m.—Music.
3.00 p.m.—Address.
3.30 p.m.—Waltz.

The wireless weekly : the hundred per cent Australian radio journal

Page 48
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The wireless weekly : the hundred per cent Australian radio journal

RADIOKES—SOLODYNE

Once More to the Fore.

Read the article in Radio for this month describing the construction of the New and Improved RADIOKES-SOLODYNE in its De Luxe form.

Radiokes engineers have been continually improving this now famous product, and among other advances, this kit now includes: bakelite winding forms, improved design of windings, to dope, used in construction, new rigid internal mounting, permanent solder legs with additional screw terminals and more accurate matching.

This kit was one more specified because it is considered The World's Best Coil Kit. Same price: 75c.

Specified for use in this Master Receiver also:

The use of Ampolite is imperative in this circuit, which uses a minimum of controls. If you value the life and performance of your tubes, and simplicity of operation, you cannot afford to omit Ampolite from your receiver. Price: 6/9 each.

Radiokes new and improved R.F. Chokes is the only one that can be satisfactorily used in the Solodyne.

Its characteristics are particularly suited to this circuit, and its small design and high efficiency make it ideal for use in all receivers calling for use of R.F. Chokes.

WHOLESALE:
Metropolitan Electric Co. Ltd., 2729 King St., Sydney

And at Melbourne, Brisbane, Perth and Launceston.

Buy only from Dealers who display Radiokes Products.
Surfing in the Office

A day like this inside of an oil-burning boiler, with thick felt hats and a wind blowing in from "Hay, Hay and Hooplah". Enter a compliant can-vaser, silly and persuasive, trying to sell a book on "Our glorious sunshine, clear skies and simmering warmth."

What happened? The fan man reached the footpath a bare leg ahead.

The only exposure I want to one day in a living skeleton who is selling ice-corn freezers, home refrigerators, bathing suits and overwork pyjamas.

Anyhow the compliant one interrupted me while I was enjoying a surf bath in the office. Here's the recipe:

Heat your eyes, get into a mental salt-water costume, rush down a vannitory beach and plunge joyfully into great curling imaginary breakers. Dive under and pop up, wallow lovably in the cool coral, splutter, splash and say:

Man alive, it's grand! But don't take a rinse battery in with you. Salt water doesn't agree with batteries, although the good old Burgen has stood many a salt-water test and come safely out.

When Capt. Burke landed through the New Guinea surf, his Burgen batteries were literally drowned. Yet they gave wonderful service for months afterwards.

Australia's Rails icing patrol craft are swept by big waves several times a day, and the only dry thing on board one of them is the Captain's hammer. Yet they all carry Burgen batteries.

When Byrd flew over the Pole, the cold would have cracked steel plate, but it didn't stop Burgen from action. Hot stuff, I'll say!

Later on, when Byrd crossed the Atlantic in that, sulky, far, the batteries which saved his life were again Burgen.

That's one reason why they call Burgenses the world's finest dry batteries—you can't wet them! The New York Telephone people, of 299 Colleageh Street, will tell you. The rival company's third bears over Burgenses and the call water only buzzes!
The wireless weekly: the hundred per cent Australian radio journal

1111

Red Stripe

This Red Stripe tells
You it's the Perfect Panel

JUST what qualities must a radio receiver panel possess to be lastingly good? It deserves your consideration— if buying a really-made set or if hitching up your own hook up.

Dilecto has met with every strict requirement of the most exacting experts of leading radio manufacturers. It has been used by the U.S. Navy and Signal Corps for over nine years.

Dilecto has high Dielectric resistance. It cannot warp or crack, check or chip. It will never change—even its sheen, black finish is permanent.

Dilecto is heat-proof up to 220 degrees F. It will never be affected by cold, water, oil, gasoline, fuels, ozone, solvents, and most chemicals.

Sole Australian Distributors:

O. H. O'BRIEN (SYDNEY)
(Like O'Brien and Nicholl),
37-39 Pitt St. Sydney — 654 Bourke St. Melbourne
W. H. Peterman, 169 Edward St., Brisbane.
Cut radio costs
Last for years
Are rechargeable

Instead of wasting money every few months on cheap dry-batteries which quickly run down and must be thrown away, radio users may now invest in a magnificent rechargeable PHILCO on the easiest of buying terms thus saving pounds in a year and insuring perfect reception for all time.

RECHARGING
Philco owners can use this battery night after night for months at a stretch and then recharge for a few pence.

New System
Telephones Pty. Ltd.
280 Castlereagh St.
Melbourne
Sydney
Adelaide

280 CASTLEREAHG ST.
MELBOURNE
AUST.
Here is the popular
"PORTA"
Self contained Radio Set

MUSIC in a Moment—just
open the lid; ideal for
Dancing, Motoring, Picnic,
Entertaining and News. A
Guaranteed Product of
Australia's Largest Radio
Distributors. Easy Terms!

CASH PRICE £37/10/-

Re the ASTOR FIVE
Get a Catalogue.

Astor 5, Table, £26 Complete
Astor 5, Console, £35 Complete £59
Astor 5, All Electric Controlled £50 Complete £89

STAYING POWER! The FIRST essential for
Radio Entertainers is greatest in
ARMAX
it is all in the construction; the wonderful hermetic cells mean
absolutely NO LEAKAGE.

ARMAX Dry Cells.
Designated for heavy duty service (15 volts: 30-32)
15 Volt Heavy Duty, 13-8 35 Volt Heavy Duty Flat 25-60
£50.00 £50.00 £40.00 £40.00

Manufacturers Products Pty. Ltd.
Challis House, Martin Place :: Sydney
Try Power Plus Crystal, 23
The wireless weekly: the hundred per cent Australian radio journal

Pare Fifty-Two

The Moore Block

Cannot Fall

The block... and

bank... mould.

Two Tyres

are... and

hand... C.U.

Paris... &... 1l. J.

 ranch... 11. A

J.

VERNIER

COIL

HOLDERS

Made by the makers of the famous Lotus Ruyguy Valve Holder,

Carnell, Whitley & Co. Ltd.


John Arnold, P.O. Box 671,

Degrange Buildings, Degrange Street, Melbourne.

SPECIAL COUNTRY SESSION

Friday, 11th November, 1927.

3:10 p.m.—G.P.O. Clerk and chimes.

Australian Hornby Land and Famous Cars

Walter report and forecast by boards members of the

Producers Distributing Society's Film and


Parry (tode to reserve of the

Wendy Taylor Ralston.

10:50 p.m.—Cantury News from the "S.S."

7:30 p.m.—Musical Program by Mrs. Allen Harris.

10:30 p.m.—Association of the Australian

Melbourne C. Nelson Warrick Centre at 16

Robert Macdonald P. B.

7:41 p.m.—Talk on "The Care of the Eye" by

Mr. Parkinson.

5:45 p.m.—G.P.O. Clerk and chimes.

10:15 p.m.—Association of the Australian

Melbourne C. Nelson Warrick Centre at 16

Robert Macdonald P. B.

10:10 p.m.—Musical Programs by Mrs. Allen Harris.

Two Tyres

T.G.

MELBOURNE

Thursday.

310, MELBOURNE

MARKET RATES

11:00 a.m.—G.P.O. Clerk and chimes.

11:00 a.m.—Musical Programs by Mrs. Allen Harris.

7:00 a.m.—Musical Programs by Mrs. Allen Harris.

3:00 a.m.—Musical Programs by Mrs. Allen Harris.

2:00 a.m.—Musical Programs by Mrs. Allen Harris.

1:00 a.m.—Musical Programs by Mrs. Allen Harris.

12:00 a.m.—Musical Programs by Mrs. Allen Harris.

11:00 p.m.—G.P.O. Clerk and chimes.

National Archives.

SPECIAL COUNTRY SESSION

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Melbourne C. Nelson Warrick Centre at 16

Robert Macdonald P. B.

10:10 p.m.—Musical Programs by Mrs. Allen Harris.

Two Tyres

T.G.

MELBOURNE

Thursday.

310, MELBOURNE

MARKET RATES

11:00 a.m.—G.P.O. Clerk and chimes.

11:00 a.m.—Musical Programs by Mrs. Allen Harris.

7:00 a.m.—Musical Programs by Mrs. Allen Harris.

3:00 a.m.—Musical Programs by Mrs. Allen Harris.

2:00 a.m.—Musical Programs by Mrs. Allen Harris.

1:00 a.m.—Musical Programs by Mrs. Allen Harris.

12:00 a.m.—Musical Programs by Mrs. Allen Harris.

11:00 p.m.—G.P.O. Clerk and chimes.

National Archives.

SPECIAL COUNTRY SESSION

Friday, 11th November, 1927.

3:10 p.m.—G.P.O. Clerk and chimes.

Australian Hornby Land and Famous Cars

Walter report and forecast by boards members of the

Producers Distributing Society's Film and


Parry (tode to reserve of the

Wendy Taylor Ralston.

10:50 p.m.—Cantury News from the "S.S."

7:30 p.m.—Musical Program by Mrs. Allen Harris.

10:30 p.m.—Association of the Australian

Melbourne C. Nelson Warrick Centre at 16

Robert Macdonald P. B.

7:41 p.m.—Talk on "The Care of the Eye" by

Mr. Parkinson.

5:45 p.m.—G.P.O. Clerk and chimes.

10:15 p.m.—Association of the Australian

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The wireless weekly : the hundred per cent Australian radio journal

The Long Life Battery
Throughout the Commonwealth Ever-Ready Radio Batteries are listed for their long life and allowed reliability. As time has been the approbation of their worth, Every-Rady who are now greater than ever before, an insatiable indication that these batteries here to full measure the stamp of the radio public's approval.
At all Radio dealers, in a range of types to suit all requirements.

The "Standard" Dry Radio Cell
Price 3s.
The Ever-Ready "Standard" Dry Radio Cell as illustrated, is fitted with two screw terminals, and since its introduction has met with great success, users recognising its immense superiority over any import. SIZES, 6V x 14. Weight. Zhe. Also for bells, telephones, signalling and electro-medical apparatus, etc.

"Wanda" Plug Radio Battery
This illustrates the new radio high-tension "W" Battery, which can be obtained 31s. 6d. or 60 units fitted with a Wanda plug, and 2 screw terminal...

PRICE:

<table>
<thead>
<tr>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small size</td>
<td>31s. 6d</td>
</tr>
<tr>
<td>Medium size</td>
<td>60 units</td>
</tr>
<tr>
<td>Large size</td>
<td>100 units</td>
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</tbody>
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If unsuitable locally, write for address of nearest source of supply to
The Ever-Ready Co. (Gt. Britain) Ltd.
103 Pitt Street
SYDNEY
SNAP ON YOUR POWER AS YOU DO YOUR LIGHT!

Acme Socket Power takes all battery troubles out of radio.

Just plug into your nearest electric light or power socket; and with Acme to rectify the current to suit your set, you have full force of silent power at trifling cost per hour.

Acme Socket Power never fails.

Yours on Easy Terms.

New System Telephones Pty. Ltd.
280 Castlereagh St.,
Sydney.
GUARANTEED
10 YEARS
CAN'T
BE
BEAT

Charge Your Own Batteries
90 Per Cent. of Bad Reception is due to BATTERY TROUBLES.

90 Per Cent. of Battery Troubles is due to FAULTY Charging or Neglect.

COLUMVOX, A. and B. CHARGER. CASH PRICE ... $2.50 Tube, 35/- extra.
Terms: 15/- Deposit, and 14 Weekly Payments of 9/-.

COLUMVOX A. CHARGER. CASH PRICE .......... $1.10/6. Tube, 25/- extra.
Terms: 15/- Deposit, and 14 Weekly Payments of 7/-.

Filadyne, One Valve

3 tubes - $1.75
6 tubes - $4.50
12 tubes - $9.00

Colville Moore Wireless Supplies Limited
10 ROWE ST., SYDNEY. (Next Hotel Australia)
Phone B 3951

7ZL, HOBART

Thursday.
... MORNING SESSION ... 11 a.m. to 11.15 a.m.
AFTERNOON SESSION
3 p.m. ... 3.05 p.m. Clock Checks
3.10 p.m. - Three in rotation
3.30 p.m. - Colville Checks, Enquiry.
3.35 p.m. - General Enquiry.
3.40 p.m. - Musical selections by E. E. Steed.
4.00 p.m. - Miscell. by Colin Best.
4.45 p.m. - Closer.
Friday, Nov. 18
2FC, SYDNEY

EASY EVENING SESSION
7 p.m. to 8 p.m.

MORNING SESSION
9 a.m. - "Big Ben" and programme announcements.
10.3 a.m. - Studio music.
10.5 a.m. - Latest news and programme announcements.
11 a.m. - "Morning Hymn" sung.
11.10 a.m. - Studio music.
11.35 a.m. - A story.
11.45 a.m. - Radio music.
11.50 a.m. - Morning music for school children.
12.40 a.m. - "Big Ben." Close down.

NOON SESSION
11.50 a.m. - "Big Ben" and entertainment.
11.55 a.m. - Studio music.
12.45 a.m. - "Morning Hymn" sung.
12.50 a.m. - Studio music.
12.55 a.m. - Morning music for school children.
1.00 p.m. - Studio music.
1.40 p.m. - "Big Ben," weather forecasts.
1.45 p.m. - "Poetry" and "Children's Corner" for school children.
1.45 p.m. - "Big Ben." Close down.

LATE EVENING SESSION
10 p.m. - "Children's Corner" by "Big Ben." Close down.

WIRELESS WEEKLY
Friday, 11th November, 1927.

EARLY EVENING SESSION
5.45 p.m. - Children's Corner by "Big Ben." Close down.
6 p.m. - "Children's Corner" by "Big Ben." Close down.

NIGHT SESSION
9 p.m. - "Big Ben," weather forecasts.
9.15 p.m. - "Poetry" and "Children's Corner" for school children.
9.45 p.m. - "Big Ben." Close down.

AFTERNOON SESSION
3 p.m. - "Big Ben" and announcements.
4 p.m. - Radio music.
4.30 p.m. - "Poetry" and "Children's Corner" for school children.

126 M.W.F. - PITT STREET, SYDNEY.

RA, RE, FT!TY-SLS
Remm • i.. • lurg.-1•·
premi.. •••• next
door but one. Stil t
umkr
the Railway.

No. 486 PITT STREET

WETLESS Fixed Condensers
They are built up to a high standard. Only the finest wire is used as
insulation. They are guaranteed operation, and will last the years.

MANUFACTURED BY
J. WETLESS,
28 KING ST., ROCKDALE

Phone: 1W 1111.
OUR EASY TERMS

APPLY TO
Accumulators, A & B Loud Speakers
Chargers
Complete Sets
Eliminators
Gramophones, etc.

SMALL DEPOSIT—SMALL WEEKLY PAYMENTS.

Keogh
Radio Supplies
The House of Quality and Standard Equipment.

PHILIPS “A” CHARGER.
Maximum Charging Rate, 1.3 amp. ............. £3.5/

EMMCO “A” CHARGER.
Maximum Charging Rate, 2.5 amp. ............. £4.15/

BALKITE “A” CHARGER.
Maximum Charging Rate, 2.5 amp. ............. £3.5/

BALKITE TRickle Charger.
Maximum Charging Rate, ½ amp. ............. £3.10/

TUNGAR A. & B. CHARGER.
Maximum Charging Rate, 2 amp. ............. £8.10/

Are you having trouble with your receiving set? Call and interview Our Engineer, Chas W. Slade (Technical Editor, “Daily Telegraph”).

We specialise in rewiring and altering all classes of Sets, with guaranteed results.

Our Super Heterodyne Experience is Unsurpassed.

KEOGH RADIO SUPPLIES
40a PARK STREET
(Between Castlereagh and Pitt Streets)
Open till 8 p.m., Friday
Rechargeable DRY!

Think what this means. Seven hours for the price of one.

45 volts. Price 35/- ea.

The best made in Australia, Tab Batteries, firm and solid. The Tab battery is simply superior to the 4S battery. Try it and see for yourself.

MANUFACTURERS
Products Pty. Ltd.,

IMPORTED SETS
Agents for all Sets of Radio Products, including Clyde Bantam.

ARMAX BATTERIES

ASTOR SETS
G & R Sets
Airzone Coils and Loops.

BALDWIN SPEAKERS
Paramount Crystals
Purchased exclusively from Sydney

H. J. HAPGOOD
Challis House, Martin Place,
SYDNEY

Tels.: BW 1328

WIRELESS WEEKLY

LATE P.M.- FRANZ FIACCHI, "Radio Musician," 313.

LATE P.M. - WILFRID PARTRIDGE, "The Sydney Opera House." 313.

LATE P.M. - FRANK JONES, "The Airline of Australia." 313.

LATE P.M. - MARIE LAYTON, "The Films of America." 313.

LATE P.M. - WILFRID PARTRIDGE, "The Story of the Airline of Australia." 313.

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Saturday, Nov. 19
2FC, SYDNEY

EARLY MORNING SESSION—6 a.m.

8.15 a.m.—Big Box and programme announcement.

8.45 a.m.—Studio music.

9.30 a.m.—Sydney Morning Herald news reading.

10.30 a.m.—Talk on Gardening, by Mr. O. J. Leather ("Melbourn").

11 a.m.—Close down.

KEEPS PLEDGE

12 noon—"Big Box" and programme announcement.

12.30 p.m.—Sydney Morning Herald news reading.

Mullard
THE MASTER VALVE

MULLARD P.M. VALVES are British made "Ray Berin."

For 3-watt transmitter use.

D.H.E.-D.P. (D.C. Type 3).

D.H.E.-D.P. (A.C. Type 3).

D.H.E.-D.P. (A.C. Type 1).

D.H.E.-D.P. (A.C. Type 2).

For 5-watt transmitter use.

D.H.E.-D.P. (D.C. Type 5).

D.H.E.-D.P. (A.C. Type 5).

D.H.E.-D.P. (A.C. Type 15).

For 10-watt transmitter use.

D.H.E.-D.P. (D.C. Type 10).

D.H.E.-D.P. (A.C. Type 10).

D.H.E.-D.P. (A.C. Type 15).

D.H.E.-D.P. (A.C. Type 30).

C. M. 25A (50 vat. 2000 volt).

C. M. 25A (50 vat. 6000 volt).

All Mullard Valves are made at the Mullard Works, Redhill, London, England.

Obtainable from every Radio Dealer in Australia.

WIRELESS WEEKLY

Page 61
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National Library of Australia
Substantial PRICE REDUCTION
announced in Brown H.Q. and CABINET MODELS LOUD SPEAKERS

GOOD news to many who have been waiting for some time for the price of Brown H.Q. and Cabinet Type loud speakers to be reduced. Now is the time to get in and take advantage of this valuable offer.

The ever-growing popularity of these two types of speakers has created much demand, thus making it possible to offer a substantial price reduction. This is an opportunity for the Australian buyer to get a high-quality speaker at a lower cost.

PRICES:

<table>
<thead>
<tr>
<th>Model</th>
<th>Old Price</th>
<th>New Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>H.Q. Type</td>
<td>£7 10/-</td>
<td>£6 10/-</td>
</tr>
<tr>
<td>Cabinet Type</td>
<td>£8 10/-</td>
<td>£7 10/-</td>
</tr>
</tbody>
</table>

CABINET MODELS:

These two popular models are available at reduced prices, offering better performance and value for money. They are ideal for both home and commercial use.

OBTAINABLE:

From all Radio Dealers. Write for Pamphlet "W".

NOYES BROS.

29 Clarence St. SYDNEY
Sydney Telephone 13549

Page 62
nla.obj-675693361
National Library of Australia
The Perfect Valve Receiver

Single Dial Control

Farmer's presents this perfect receiving set, featuring unsurpassed purity of tone and simplicity of control; it is capable of producing any volume desired.

The new model five-valve receiver is set in a handsome cabinet of dark-stained Maple inlaid with walnut; beautiful "lace" finish.

Control is afforded from a central dial, and each stage is completely protected with copper shields. The cabinet has ample space for all batteries; supplied with accessories and loud speakers.

Price ... ... ... ... ... ... ... ... ... ... ... ... ... ... £5 10

This set erected free in City or Suburbs.

Farmer's Standard 2-Valve Receiver

Efficient and reliable! An ideal set for reception of all programmes. Interference of outside stations is absolutely eliminated. Included with standard equipment are two 74 Resistance-1.4 values of a type specially adapted to this particular set. Price, with one pair of headphones... £14 10

With loud-sounding equipment... Price ... ... ... ... ... ... ... ... £22

Extra Equipment for the Enthusiast

Headphones by all prominent makers:

"N & K." Price, per pair ... ... ... ... ... ... ... ... £7 6

"Hofkind." Price, per pair ... ... ... ... ... ... ... ... £10

"Kolos." Price, per pair ... ... ... ... ... ... ... ... £15

New double-sounding tinplates: 0.10 and 0.100, Price each ... ... £2

WIRELESS DEPARTMENT, Ground Floor, Market Street.
made to run the full race!

Any sprinter can start well, but it takes a player to win in a long run.

It's the same with batteries. The power to stick is the thing to look for — never-fading power over a long period of service. Millions buy Burgess Chrome batteries for this reason. They keep going long after others flag and fail.

Chrome—the great preservative used in finest leather, metals and paints, is also used and patented in Burgess Batteries. It gives them unusual lasting power.

BURGESS Radio BATTERIES

Sold by all high-class dealers.

New System

Telephones Pty. Ltd.
23 Queen's Bridge St., Melbourne
524 Echunga Street, Euston
Charles Street, Adelaide

Qland Agents:
Canada Cycle and Motor Agency (Q) Ltd.
Crock and Adelaide Sta., Brisbane

F RIDE WIRELESS

Friday, 14th November, 1927

WIRELESS WEEKLY

Any subscriber can start well, but it takes a player to win in a long run.

It's the same with batteries. The power to stick is the thing to look for — never-fading power over a long period of service. Millions buy Burgess Chrome batteries for this reason. They keep going long after others flag and fail.

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Qland Agents:
Canada Cycle and Motor Agency (Q) Ltd.
Crock and Adelaide Sta., Brisbane
Now it's
DAVID JONES' MOVING SALE

Here is the Sale everybody has been waiting for. At the height of the season—in time for Christmas shopping. Goods must be cleared to facilitate our big move.

RADIO GOODS
LESS 2/- in the £ FOR CASH

Now is the time to get the bigger set you've been meaning to get “some day,” and those extras too. With one or two exceptions—everything in our Radio Department is subject to this Cash Discount.

Friday Night until 9 p.m.,
David Jones’ extended shopping hours enable everyone to participate.

DAVID JONES’
For Radio Service—Sydney.

TRANSFORMERS
Built up in a Stevenson and Bendix, Federal and Earle can now be had from stock, Price and delivery on application.

ADVERTISMENT.

WIRELESS WEEKLY
Page Thirty-Three

DAVID JONES’
For Radio Service—Sydney.
All Readers' Queries Answered Here.

We receive kindly note that all wireless queries are answered through the columns of Wireless Weekly. There is no occasion to send either stamped or addressed envelopes. The only condition is that the number of queries be limited to four. We unfortunately cannot deal with technical queries by telephone or by personal callers.

Reader's queries in queries are asked to understand that we are not in a position to give technical advice. All queries will be answered as far as possible on the understanding that the information given is for the guidance of other readers and will not be considered confidential.

J. H. E. Stainton.

ALL READERS' QUERIES ANSWERED HERE.

Sixth Edition of the 'Radio' of November 1927. All queries are answered here by the editor. All queries are answered here by the editor.

WHENEVER Broadcast Receivers are mentioned you will hear nothing but enthusiasm for the A.W.A. Radiola Superheterodyne Receiver.

1. The Superheterodyne principle is recognised as being the highest development in the art of receiver design. The Radiola incorporates in a superlative degree all the essentials of a perfect radio reproduction — ultra selectivity — simplicity of tuning — beautiful appearance and superb tonal qualities.

2. Every Radiola is guaranteed for a period of twelve months.

_Deferred Payments to Suit Your Convenience_

Demonstrations at all Authorised Radiola Dealers throughout Australia.

Amalgamated Wireless (Australia) Ltd.

47 York Street, Sydney

Cut this out and post now!

Name

Address

[Advertisement for Radiola broadcast receivers]
AMPLION (AUSTRALASIA) LIMITED

beg to announce that they have taken over new Offices and Showrooms at

Bradbury House 53 York Street
SYDNEY
(Telephone B 7855 S)
to which address all future correspondence should be sent.

RADIO dealers and the public are cordially invited to call and hear demonstrations both of Amplion Loud Speakers and the Amplion Public Speech and Band Repeater Equipment.

AMPLION

The World's Standard Wireless Loud Speaker

Amplion Models from 25/- to £9/10/- The Public Speech and Band Repeater Equipment for hire or sale outright. For terms or prices write direct to AMPLION (Australia) LIMITED

SYDNEY:
Bradbury House, 53 York Street
Telephone B 7855 S

MELBOURNE:
Peacock House, 486 Bourke Street
Telephone F 4300