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is a true balancing device for radio frequency amplifiers, and will effectively stabilise oscillatory tendencies in circuits using radio frequency.

OTHER ELECTRAD PRODUCTS:

Wirewound Variable Resistances.
- Royalty Type A: 1 to 7megohms, 1/8., 10.
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- C: 1000 to 10 megohms, 1/8.
- D: 10000 to 100 megohms, 1/8.
- E: 100000 to 1000 megohms, 1/8.

Use it in the
- Browning Drake Circuit,
- Neutrodynne Circuit, etc.

Price 17/6

Amplified Wires (Australia) Ltd.
47 York St., Sydney.

Kindly forward me your Illustrated list of
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Name ____________________________
Address __________________________

Electrical Products are stocked by all Radio Dealers.
An Announcement of Interest to Every Radio Dealer

Harringtons Open New Wholesale Premises

In order to cope with the extension of their Radio business, Harringtons have opened, for wholesale purposes only, a new six-story warehouse situated at:

213 CLARENCE STREET, SYDNEY.

Harringtons can supply absolutely EVERYTHING in Radio. Buy ALL your goods from the one house and save money, for thereby you will get the biggest discounts, secure the best service, and save time and expense in freight. Also you will have the added advantage of running only one account.

“Goodwill built on Public Confidence since 1889.”

Harringtons Ltd.

Head Office: 386 George Street, SYDNEY
Wholesale Warehouse: 213 CLARENCE ST., SYDNEY
Also at Katoomba, Newcastle, Melbourne, Brisbane, Adelaide, Wellington (N.Z.), Auckland (N.Z.).
Why the Same Licence for a Crystal as for a Valve Set?

One frequently hears discussions concerning the broadcast listeners' licence fees. A normal point of argument in the question of why should Brown, with a simple crystal set, pay the same licence fee as Robinson, who has a valve superheterodyne? Brown can only hear the local stations—and more stations than desirable, only one station at a time—while Robinson can tune in practically all the stations in Australia and New Zealand.

It does seem at the first glance that there is something like inequitable treatment in the method of charging for the service. In the first case, the annual licence fee in exactly as much as the cost of the set, while in Robinson's case the 27/- is only a slight addition to the cost of the set.

Upon reflection, however, we can see several reasons for the authorities not discriminating in the licence fees. In the first case, when considered in the light of what might be termed practical politics, we will find rather serious drawbacks to the apparently ideal scheme of charging a fee on some basis of radio sets cost, and usefulness of the receiving equipment.

If there were to be a cheaper licence fee for crystal sets, it is not difficult to see, however much being what it is, a large demand for such licences—a larger demand than the number of crystal sets would justify. There would be no means of checking up a statement by an applicant for a licence who had a 4-valve set, that his set was really a crystal set, and even where no suggestion of such statement entered into the case, one can readily conceive the circumstances in which a household has both a crystal set and a valve set in use. Furthermore, Robinson may start off with a crystal set, and subsequently obtain his super without remembering to change his licence.

A more important reason for the uniform licence fee rests on the fact that a broadcasting service or services are available to Robinson. They are entitled to take as much of the service as they care to receive. It note the broadcasting company need not spend money to provide the service for Brown with his crystal set as for Robinson with his superheterodyne.

Here it is not unreasonable to maintain a uniform fee. If Brown can get only 11/- with his crystal set, it is in his own best interest that he pays the same licence fee as the owners of the valve sets. The uniformity of licence fee does not obtain in the matter of larger sets. That seems a fair thing for the authorities to do, so the extent of service with any kind of receiver varies with the distance from the stations. They may appear to this to be a spirit contradiction of the previous reference to the equity of the licence fee, but it does not really upon the arguments in favor of the continuation that the fee should be a uniform one.
Catching Up with the Wireless World.

By R. E. CORDER.

A WIRELESS PHOTOGRAPH was responsible for the capture of a man wanted for committing a bank robbery in Vera Cruz. Despite the fact that the man was travelling under an assumed name, he admitted his identity when confronted with his wireless likeness on arriving in New York.

WHICH ARTIST has appeared most before the microphone? Miss Agnes Horton must hold the record for ABC. Not only has Miss Horton appeared with the Sydney Opera from its inception, but she also served as announcer for most of the variety, choralists, and instrumentalists who have appeared at the Studio. There are ten more capable announcers than Miss Agnes Horton.

Without hesitation she is ready for the most difficult assignments, and every artist finds complete satisfaction.

AFTER A WRANGLE extending over three months, a move is now getting strong in Woppa to equip the Electric Hospital with radio. Some months ago, Mr. George Pembroke, a farmer, raised almost enough money to purchase the installation, and although he had received a promise of help in the work of wiring by the postal authorities, the hospital committee came to the conclusion that the time was now opportune to install radio for the patients in the hospital wards.

AN ARGUMENT ensued and has now resulted in a committee being appointed consisting of members of the hospital committee and business men of the town to supervise the installation subject to Mr. Pembroke's being willing to give his services. The hospital committee has been advised that the Department of Health is willing to authorize half the cost of the installation up to £20, subject to certain formal conditions.

"Women are again going in for sea bathing," we read. "We're certainly noticed over the radio."

"What? Do you still go doing anything on the radio?" You thought. "I didn't think so."

"No, only a grudge."

"If you've spotted the fellow who radioed your radio set, why don't you get it back?"

"I'm waiting for him to fit new valves."

SAFETY FIRST.

"Pah! Say, dial, did you get the fight on the radio last night?"

"Yes, I should say not. I think I want my wife to get more points on listening!"

"Is it not time, therefore, that the word 'wireless' should be changed?"

"And a correspondent in a daily paper. Quite true, but why only the word?"

CUSTOMER. You told me that set I bought would bring in the coast.

Radio man: You've found so much class with that set, it's quite possible you've run back the batteries, etc.

To JOHNNY COME LATELY: No, you must be in to catch him the catching-whore or you'llingle. I beg your pardon, I mean catch the whole thing.

A COMPANY has been formed in Africa to take over the bankrupt South African stations under the protection of a government monopoly for a period of five years. Stock will be offered to the public.

THE QUESTION whether broadcasting stations or increase revenue and theatre attendance has been argued over here during come into practice. In the beginning, theatre managers were fearful that radio should empty their houses, but although the question is still debated, it appears to be established that radio stimulates the desire for good music and to encourage attendance.

CATCHING diminishes or increase commercials from 3LO, which gradually becomes so detached that it can vary appropriately called a "radio wide."
"Prepare to Broadcast.

Choosing your Subject for a Radio Talk.

One hundred and one countries, and many millions of listeners, are waiting for your ideas. One speaker can do it all. His audience is made up of millions of people. He can tell them anything. He can make them laugh or cry. He can change their minds. He can make them think. He can make them do things. He can make them feel. He can make them love. He can make them hate. He can make them believe. He can make them disbelieve.

But how can you make such a talk? How can you make a talk that will be interesting, that will be entertaining, that will be educational, that will be informative?

The answer is simple. You must have a subject that is interesting, that is entertaining, that is educational, that is informative. You must have a subject that is relevant to the audience, that is relevant to the time, that is relevant to the place, that is relevant to the occasion.

But how can you find such a subject? How can you find a subject that is relevant to the audience, that is relevant to the time, that is relevant to the place, that is relevant to the occasion?

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But how can you find such a subject? How can you find a subject that is relevant to the audience, that is relevant to the time, that is relevant to the place, that is relevant to the occasion?
Dear Sir,—I have been a licensed radio dealer for nearly two years, and
I would like to point out a few items to safety valves, which
the majority of wireless fans probably do not know and which, in my opinion,
have a lot to do with the slow "making out" of wireless in the country.
It costs me 15 per cent for my dealer’s licence, and this is in reality an order,
but, if we wish to have a little music in our own home, I must pay another 15 per cent, too.
It is when I take this act into the country and de-
proprietors to a few "hunches" at a confer-
ence or lecture party, I think it a special fee of 5/- or 10/-.
If there is a smoke in turn and I am invited to bring my
sea along, another fee of £1. A radio dice right, even in its charity,
even yet another £1.
Yours, Mr. Liston, I am sure you will agree with me that if many of these unreasonable charges were removed, wireless would be much more dis-
propriated, and, as a natural conse-
quency, the sale of sets would increase which, in turn, means more revenue for the broadcasting companies. Under present conditions, radio demonstra-
tions would cost me considerably over £5 a year, unless I could deceive my sup-
er to believe I am a dealer at a reduced space.
Even so, I think the wireless world such as this.
Office dealers’ views on this subject would be much appreciated.
In conclusion, may I urge that this letter be not passed in a spirit oforryment, but purely
for the better wireless conditions generally.
Yours, etc.,
J. CLEWES.

ON PHONE, TOO.

Dear Sir,—With reference to Mr. Blanden, when he states "P.W.C. (S.P.)", it
would possibly be of much use to a lot of people if, instead of
"P.W.C. (S.P.)", they knew that (I very nearly every case of a
person being dear or partially set
the use of incorrect would proba-
bly bring to their japes of wire-
less. I have noticed this especially in my job (telephone switchboard),
that a person who is used in ad-
probably concealing one, will only
on a phone fitted with two receivers.
Yours, etc.,
W. SPRING.

The Safety Valve

Dear Sir,—The critics of the wireless stations and their pro-
grammings are interesting. With regard to the former, I would like to say
that the behaviour regarding transmission
are often in doubt, and I find two
different sets give a great variation between B.F.C. and B.E.C. using the same
audio.
I have also noted that respondents, pressure and the director of the sta-
tions have a decided influence on transmission—especially from 10,000.
Few have time to write and say so, but I am sure that many wireless
people would appreciate more letters on such subjects as would make
wireless sets more of an asset to those who have to waste a living from the
null. For them, we have to hand in B.E.D. or B.F.C. and they are two
intermediate.

Dear Sir,—I plan to be a foreign station on 69 waves on Sunday, 15th
March, 6th hour, 27th bunch at 9 p.m. In 10 m. (Sunday) 8 p.m. in
10 m. (Monday and Tuesday). He came in at very good noise, and he
clarity of transmission for his desire. The Monday and Tuesday was worth listening to.
His transmission were all in foreign, the only thing I got was
UK.

The Sunday Station B.C. also used the letters UK when I got into a
few months back. He speaks in English also.
Could any listeners enlighten me on this subject?
Yours, etc.,
H. KELLOGG.
Abelard Callery, Cashed.

Canada chose Burgess for her outputs.

MORE LECTURES.

Sunday
Programmes

They

The Sunday programmes are announced as they are all arranged
usually of interest to Australia. The programmes are given
from Monday to Thursday.
There were four more in favour of advertising of religious matter
than the broadcast programmes, as
however, we have no knowledge of the way
in which the favour of increasing the number of religious shows.
(1) "Saviour", were for denouncing
and attacking religious matters.
(2) What are the following items?
(a) Are any in favour of the annual
three consecutive weekly
programmes on either of the
(b) Are you in favour of the
weekly broadcast programmes? (21)
(c) Are you in favour of the
weekly broadcast programmes? (22)
(d) Are you in favour of the
weekly broadcast programmes? (23)
(e) Are you in favour of the
weekly broadcast programmes? (24)

Canada chose Burgess for her outputs.

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Changes in the 3LO Studio

The wireless weekly: the hundred per cent Australian radio journal

In order to concentrate on special efforts 3LO, Melbourne, has lately revised its Studio Orchestra to a Quartet under the enthusiastic leadership of Raymond Bradley, the station’s assistant violinist.

3LO Melbourne’s brilliant antiquarian and self-taught violinist, Miss Agnes Fortune, has been severely under the accident recently, and Shoreys are still deprived of her services. During the first week of her absence Miss Eileen Bradshaw most capably filled her place at very short notice, and lateley Miss Victoria Pattinson is acting as locum tenens.

Tasmania Tierney, the popular 3LO Melbourne, violinist, has returned to her accustomed chair on the platform with her beloved instrument after a spell up the country recuperating and is looking as well and playing as attractively as ever.

Those who remember Tierney’s fine work with 3LO Melbourne’s Orchestra as first violin and leader for so long in the old studio, and for some time in the new, will be interested to hear that she paid a visit recently to her orhralist and other studio friends, who welcomed her very heartily, though regretful to hear that she is still unable to return to her labours of the anding month.

Raymond Bradley’s work with his cherished violin continues to bring fresh accompaniment of pleasure weekly to all who delight in that virtue of instrument. 3LO Melbourne’s music is never completely without fresh store from Raymond Bradley as a solo player, while he very frequently furnishes very interesting obligatos to some of the leading songs, which in the taste of a very wide audience.

Warde Morgan to Sing.

When a year or so ago Australian playwrights were shocked to read of the railway disaster in W.W., in which Miss Hilda Harpy and Mr. Wade Morgan were victims, it was announced that Mr. Morgan was injured beyond possibility of recovery.

Only an indelible will and determination to get better restored him, first of all to normal life, and then to physical strength. It is one of the wonders of surgery that, after such shocking injuries, he should be able to walk without crutches, and with put a slight limp as a reminder of the accident.

His career in unusual remedy having finished, for the time being, Mr. Morgan has had to look around him for other means of using his great talents. On the 22nd October he has been forced to begin a season of work through 3LO, Melbourne. Aware from the interior interest the whole country shows in this playfully, his fine voice would make him a radio favourite under any circumstances. It is a noteworthy engagement and one that will prove very popular.

Burgess Went over the Pole with Lynx.

Mr. Amery’s Visit.

On October 22nd the very important visit to Victoria begins of Mr. Amery, the Secretary of State for the Colonies, the first member of the British Cabinet who has visited us for many years. He will then be in London on his way through to Melbourne via Ballarat and Geelong, examining by country as he goes. The object of his visit is to make personal inspection on the spot into our conditions so that he will be able to acquire first-hand knowledge to assist him in dealing with Dominion problems when he returns. He has already been in South Africa.

At Ballarat he will first come under the influence of 3LO, Melbourne. From that time on, it is safe to prophesy that Mr. Amery will not be allowed to say a public word that is not breathed into a microphone. He will be officially welcomed at Hamollow, and his rump will be backed all over Australia. He will journey on to Ballarat after the Northern Circuit, and then make his way up to Melbourne.

On October 22nd 1927, the Secretary of State for the Colonies, Mr. Amery, will arrive in Melbourne, and his visit will be of great importance to the British Cabinet. It is expected that he will spend several days here, during which time he will pay visits to various parts of the country.

The wireless weekly: the hundred per cent Australian radio journal
Radio Receives Storm Warning, then Cooks Meal.

CAPTAIN John Bell and the crew were sent from the three-masted schooner "Kurania" to the wireless station at Cape Jervis, to man the wireless. They left Adelaide on March 2, 1927, with a wireless operator and a wireless man to man the wireless station. The crew consisted of five men and the wireless operator was the captain's son.

The wireless station was located on a remote island in the middle of the sea. The crew had to live on the island for several weeks, without contact with the outside world. The wireless equipment consisted of a large antenna and a transmitter, powered by a large battery.

The wireless station was manned 24 hours a day, 7 days a week. The crew had to keep a constant watch on the ocean, to detect any wireless signals, and to send wireless messages to the outside world.

The wireless station was a vital link to the outside world, as it allowed communication with other wireless stations and with the outside world. The crew had to be constantly on the lookout for any wireless signals, and to respond to any messages that were received.

Radio in South Australia:

A TRIP through the town and suburbs of Adelaide recently revealed that radio is now taken for granted by the people of South Australia. The wireless station at Cape Jervis is now a permanent feature of the town, and is used for communication with the outside world.

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**WIRELESS IN SCHOOLS.**

3000 schools in Great Britain are now fitted with wireless. An article in the current number of "The Wireless Weekly" states that the time has come for the British Broadcasting Company to arrange an all-day programme for schools on a separate wave length, and to use a separate wavelength for the benefit of many advanced students in various kinds of educational work at night. Mr. D. C. Temple, M.A., who writes the article, which is entitled "Secondary Education," says: "The present British educational system, and possibly slow, offers the crystal set, that comes into contact with the great world at this time..."

**The wireless weekly: the hundred per cent Australian radio journal**

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It's All in the Air

Even Song: The weekly Even Song Service will be transmitted from the Studio on Thursday, October 15th, at 4.15 p.m.

GREAT ORCHESTRA ORCHESTRA: The Regent Grand Concert Orchestra conducted by Harold G. Mitchell, will present a special programme on Monday, October 16th, at 8 p.m.

Clever Compositions: Pat McLean, the popular music composer, has to make a reappearance at the studios of 3LO, Melbourne, for a short season commencing on Wednesday, October 14th.

"The Daughter of Jairus": The John Martin award, which work, "The Daughter of Jairus," will be produced at the Studio by the Collins Street Baptist Church, under the direction of Robert Sims, on Sunday evening, October 18th.

A Camp Concert: Melbourne's musicfulness is exemplified to more than the council songs of Kaiser, and they are living in approximate realization of the concert which 3LO have arranged for the special benefit of the Liverpool Fund, on the piano of 3LO, Charles Lawrence, the well known programmer, is the capable manager of the party, while Esmond Young, conductor, A. C. Crozier, Evadna Warren, Joe Cahill, Harrison White, Lawrence Morgan, and Frank Jerdi. The entertainment will be broadcast by 3LO.

Europa, 3LO, Toorak, will broadcast evening commemorations by "Monotone," of the "Robert Sims" at the Caulfield Cup, and other races at Caulfield on Saturday, October 16th.

"Health Week." Commencing Monday, 15th October, 3LO have arranged a series of talks on the all important subject of health, which should prove of considerable interest and value. London after all is largely a matter of each other, and whether or not the service of the men who know—the doctor. Listeners will have the benefit of the knowledge of specialists, leading physicians and medical men, during Health Week, but also between them to take the fullest advantage of it. Among those who will speak for ten minutes each night are Dr. Farey, Dr. Hart, Dr. J. S. McRae, Mr. Thompson, Dr. Arthur and Mr. General O'Neill.

AUSTRALIAN COMMONWEALTH: Australian Basketball are not likely to have forgotten the banner men and women playing the W. Hampden Town Hall, which is continued its monthly appearance on Thursday, October 14th. The versatility of the Band is remarkable. To create the atmosphere to a pronounced Melbourne personality, these given ranged from the famous tenor, who will be played, as it has been done in the past, to rejoin a book already be

Page Ten

WIRELESS WEEKLY

Friday, 14th October, 1921

PUBLICITY, ink, and newspaper copy, usually increased sales of works by Australian authors, but research of the point of the public's interest for Australian Authors Week. Most of the credit is due to the proprietor of the paper, Codd. J. H. Peter, whose name on popular books is almost a guarantee of the programme of 3LO. The content was a complete one, and it will be a happy individual of the public who will do, as it has been done in the past, to rejoin a book already be

On October 12th, special arrangements have now been completed by Studio 3LO to broadcast a programme of band music from the Northcote State School. The band, which has never broadcast before, will perform under the direction of Mr. John T. Johnson, the principal of the school, and is expected to attract a large audience.

The programme at Studio 3LO, Melbourne, has been considerably strengthened by the talented young musician, Hamilton Bassman, who is widely known throughout Australia as a particularly gifted violinist. Although he was born in Melbourne, Mr. Bassman has spent the past year of his life in England, where he made his first professional appearance as a violinist at the age of eleven at the Castle Theatre, Richmond (London), and continued playing by playing Mendelssohn's Concerto at the age of twelve. He completed his studies under Professor Riosa (who was a pupil of Fritz Kreisler under the great continental maestro, Wohlfahrt), and the musical world was thrilled when it was announced that Mr. Johnson, the principal of the Northcote State School, is to join the programme.

TO CELEBRATE “Traveller Day” String programmes have been arranged for Studio 3LO, Melbourne—especially with regard to the musical side, when old English melodies of the days of Woolnough and Drakes will form a prominent feature. As is usual on these occasions, Mr. Hackett Kite will give one of the well-grounded and scholarly discourses on the story of Traveller—and listeners will be all the richer from a mental standpoint for having tuned in to the interesting service implemented by old English orchestral and vocal selections, on Friday, 15th October.

On the 15th of October Fritz Harlan’s program, “Filadelfia,” will be re-purposed from Studio 3LO, Melbourne. This great opera has proved popular in a musical degree as is evidenced by the many hundreds of letters received by Studio 3LO, Melbourne.

Talking of music, two new orchestras come on the air at this time. Miss Margaret Lowen from the Regent Theatre, South Yarra, and Professor Sargent’s organization. It is a real case of “to each his hour” and Miss Lowen is building up those older orchestras, for the popularity of Joe Armstrong’s band is leading to successes from all over the city for his services in various halls. Studio 3LO, Melbourne, has been very generous with the public, but they have to pay for such sacrifices as the stars being put into the air.

LISTENERS will be glad to welcome Miss Vera Spurling to the programme from Studio 3LO, Melbourne, as her brightness and versatility are so well known. Work in “Madama Poppamada” at the Majestic, where she has gained such a conspicuous success, Miss Spurling has many opportunities for singing, and she is still continuing her studies at the Conservatorium. For her broadcasting programmes, Miss Spurling has selected all the bravest and brightest numbers in her repertoire, and finds that this type of entertainment the majority of listeners enjoy.

Shortly we are to have the pleasure of listening to Mario Canzani from Studio 3LO, Melbourne, who will voice, harp and piano, will make a welcome addition to the programme. From a musical standpoint, there is very little that this gifted young artist cannot accomplish—her well-grounded soprano voice is equally at home in opera, concert, or light comedy music—and when singing some delightful songs at the piano, has keen sense of comedy tells her to get every point successfully home. On the piano she is a brilliant exponent, and her harp skills are too well known to need any further comment in these pages. The majority of the popular melodies arranged for the harp, are her own work—and a great many of the lyrics of the harp at the piano edges she sings at the piano are from her facile pen.

One of the best broadcast voices that has been heard from Studio 3LO, Melbourne, for some considerable time past, is that of Peggy Humbert—a lively soprano—one and all, with liquid audacity, that are shown to great advantage in her bright numbers, such as “The Plume of Pat” from “The Avadavat.” Miss Haines is widely known throughout Victoria as a recital artist, and her many friends will be glad of this opportunity of hearing her over the air.

Buy a Burgess and Cut Battery Cost.
The Radio Receiver and its Work.

CONVERTING the un-strapped radio energy into speech or music in the purpose of the radio receiver is a comparatively simple task. For a long time it was a matter of selecting the station and tuning in on the desired wave, which, however, did not always present much trouble. In the early days of radio, a receiver was nothing more than a long-tube affair, used mainly for listening purposes, and it was not until the advent of the modern receiver that the field of radio broadcasting really became a practical one.

The modern receiver is a complex machine, consisting of many different parts, each of which has a specific function to perform. The main parts of a modern receiver are the detector, the amplifier, the oscillator, the tuning circuit, and the speaker. Each of these parts plays an important role in converting the radio waves into sound.

The detector is the first stage of the receiver, and its function is to detect the presence of the signal. The signal is a series of electrical impulses that are transmitted by the radio station. The detector converts these impulses into a voltage that can be amplified.

The amplifier is the next stage in the receiver, and its function is to increase the strength of the signal. The signal is then sent to the speaker, where it is converted back into sound.

The tuning circuit is used to select the desired station. It consists of a variable capacitor and a variable inductor, which are adjusted to select the desired frequency.

The oscillator is used to produce a signal that is sent to the detector. This signal is used to modulate the incoming signal, and it is then sent to the detector.

The speaker is the final stage of the receiver, and it converts the electrical signal into sound. The speaker is connected to the amplifier, and it is the speaker that produces the sound that we hear.

The Wireless Weekly: the hundred per cent Australian radio journal

THE TRUTH ABOUT RADIO

The Wireless Weekly: the hundred per cent Australian radio journal

Friday, 14th October, 1927

FOREWORD

The number of radio sets in Australia has increased tremendously in recent years. Many new owners are not aware of the importance of the various parts of a radio set, and it is therefore desirable to explain briefly the function of each part.

The detector is the first stage of the receiver, and its function is to detect the presence of the signal. The signal is a series of electrical impulses that are transmitted by the radio station. The detector converts these impulses into a voltage that can be amplified.

The amplifier is the next stage in the receiver, and its function is to increase the strength of the signal. The signal is then sent to the speaker, where it is converted back into sound.

The tuning circuit is used to select the desired station. It consists of a variable capacitor and a variable inductor, which are adjusted to select the desired frequency.

The oscillator is used to produce a signal that is sent to the detector. This signal is used to modulate the incoming signal, and it is then sent to the detector.

The speaker is the final stage of the receiver, and it converts the electrical signal into sound. The speaker is connected to the amplifier, and it is the speaker that produces the sound that we hear.

The Wireless Weekly: the hundred per cent Australian radio journal

NEW INVENTIONS

The Wireless Weekly: the hundred per cent Australian radio journal

Friday, 14th October, 1927

THE TRUTH ABOUT RADIO

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The Story of a Filter Condenser

A tin can is all that meets the eye of the average radio novice when he views a filter condenser, and the chances are few that more than the sight would be more impressive. Yet the intricate processes and the many procedures in the manufacture of this seemingly simple piece of apparatus might be woven into a story of amazing proportions.

When it is explained that a filter condenser can be made faulty by such minute things as a speck of metal so small that it is invisible to the naked eye, or by a small flaw from the preceding stages of the operator winding the condenser, the problems confronting the manufacturer will be more fully understood and appreciated.

If we remove the tin can from a filter condenser, we will find what appears to be an empty block of several thin layers of wax, depending on the size of the condenser. Upon closer examination, however, it will be discovered that the condenser is made up of two layers of waxed and torn or scored layers of very thin paper, tightly wound and impregnated with wax.

How It Is Used.

In its application, one of the layers of tin foil is connected to one side of the electrical circuit, and the waxed layer is connected to the opposite polarity, and the layers of paper are an insulating medium. In certain circuits there is a close contact of wax, as a thousand volts between the two layers of tin foil, which, as an analogy, might be said to be nothing. But through a wax layer many volts may be passed between the two layers of tin foil, which is in effect a continuous contact.

A sheet of tin foil is taken from the tin can, and in the laboratory of the company a machine is operated which passes a strip of foil through the machine at the rate of about 1,000 yards per hour. The foil, in the size desired, is cut to the proper size, and the layers of paper are then added, so that a sheet of condenser material is ready for use.

How it is made into a condenser. It is a thin, tough, smooth and clean bond paper of special manufacture, made of pure linen rags and resembling about 300 if an inch in thickness. The foil is then wound on the axis of the condenser in the process of paper manufacture — one square foot. Each lot of paper is tested in the laboratory of the company by a chemical process which causes the metallic flaws to become visible in the form of colored spots or circles.

Aside from the flaws, which are the most important consideration, the paper is also tested for tensile strength, opacity, porosity, acidity, alkalinity, moisture absorption and electrical strength. The tinfoil, likewise, must meet rigid specifications. It must be smooth, free from wrinkles, capable of standing up when rolled and folded, and it must be of a thickness of one thousandths of an inch.

The First Step.

The first step in the making of a condenser is the winding operation. Operating with an automatic feed device watched by skilled operators, the winding machines form the three layers of tin foil and paper, automatically counting the number of turns. When the desired number of turns have been wound the operator cuts the paper and forces it with a pair of shears, and the first step is completed.

Following the winding, the rolls are tested for self-circuits to prevent waste on defective material.

Impregnation or “waxing” is the most critical part of the process. The three rolls taken from the winding machines are placed in a tin frame with a steel slot at top and bottom, in such a position that the wax is held between the steel plates. The wax is then placed in a press and a predetermined pressure applied. The frame is bolted while under this pressure as a means for keeping the condenser sections in their new compounded form.

The frames are now brought to the vacuum and impregnating tanks. These tanks are huge iron tanks containing oil under pressure which prevents the impregnating liquid to be drawn from one to the other to facilitate sealing and unsealing. The tanks are vacuums or steam jacketed in order to provide the necessary heat to keep the impregnating compound in a liquid state.

After the frames, with their condenser sections, have been placed in an empty tin, a heavy lid is closed hermetically sealing all that it requires and a vacuum is created to remove all traces of air and moisture from the sections. The vacuum treatment completed, the impregnating compound is permitted to run into the sealed vat from the adjoining vat. The hot liquid penetrates through the condenser section so that the compound is thoroughly filled with compound. This impregnation only extends to every crevice and fold, but even seaks into the spaces of the insulating paper. Cooling and removal from the vat now follows, and after certain treating and annealing processes the condenser sections are removed from the iron frames.

Given "Hard Test.

The completed sections are now given a "hard test," which is done at a voltage considerably higher than the working voltage to which they will be subjected during actual operation. These tests serve to detect any faulty conductors before they are assembled.

The condenser sections are now assembled to form the various values of condensers in demand. They are electrically rendered, by placing the insulated conductors, placed in a metal can and sealed. Following this the condensers are again tested and they are ready for shipment.

After reading this the radio owner and experimenter will more fully appreciate the work of a condenser manufacturer, and perhaps he will more distinctly observe his filter condenser by substantiating the remarks in excess of that marked as "working voltage." He may even be philosophized when a condenser "breaks down" that it is taking too much.
**WIRELESS WEEKLY**

Friday, 16th October, 1927.

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### 15/- WILL BUY one of our wonderful Wheelan Super Cone Loud Speakers

**SPECIFICATION**

- Fast response 10,000 Hz.
- Durable Metal Bell.

**The Cockaday Hartley 3 Valver.**

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Radio Panel, 20 x 8 x 3-1/2</td>
<td>16  1/2</td>
</tr>
<tr>
<td>2. 100,000 ohm. Rf. Regulator</td>
<td>4</td>
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<tr>
<td>3. 100,000 ohm. Rf. Regulator 2</td>
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<tr>
<td>4. 100,000 ohm. Rf. Regulator 3</td>
<td>4</td>
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<tr>
<td>5. Standard Bell &amp; Socket, 1/2</td>
<td>4</td>
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<tr>
<td>6. A.W.A. Transformer, 8 to 4</td>
<td>10</td>
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<td>7. A.W.A. Transformer, 8 to 4</td>
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<td>13. A.W.A. Transformer, 8 to 4</td>
<td>10</td>
</tr>
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</table>

**The Complete Set of Parts £6/7/2**

---

### PARTS OF QUALITY

- Crosscouple Audio Transformers, 6 x 6 to 6-1/2 x 6-1/2
- Condenser Transformers
- F.M.S. Transformers
- Resistance Coupling Valves, 10-15-20 W
- Oscillator 304 Valves

**CURRENT TERMS:**

- 15/- discount for all orders over £6
- Quick service

**TERMS:**

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  - Phone: UW 1911
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  - 492 George St., Mail Orders: 492 George St., Mail Orders: 492 George St.
- **NEWCASTLE:**
  - 348 Hunter St. West, Phone: M 4045

---

*Advertised price: £6/7/2*
A Cockaday-Hartley 3 Valve Receiver

MANY and varied are the circuits devised by expert makers and they are all good, but the question of just how good they are is qualified by limited performance. Some makers there are who are satisfied with what they call good results from the local station, but it is certainly admitted that many makers do not consider that good results are obtainable unless they are unaided with intercepts.

It is a somewhat different matter to combine both sensitivity and selectivity in a receiver. To effectively do this some form of radio frequency amplification is desirable and this means, the addition of extra valves. The Neutrolec and the Nickolyte with both effectively being in inter-state stations and regular frequency might after night, both of those receivers are of the five-valve variety. Now, there is many a man anxious to use these valves only and to get some sort of result from the intermediate station. Last week’s receiver, the River Neutrolec, is a particular receiver for this purpose, and so is the one about to be described.

This one is known as the “Cockaday-Hartley” Three-Valve Set. No radio frequency valves are used, but a good degree of selectivity is obtainable for it. The makers of Cockaday and Hartley are well-known in the earlier circuit of radio, Cockday designs several receivers bearing his name and Hartley is better known for his work with transmitting circuits. Many and varied are the circuits and combinations of circuits which are not forward from time to time for the added of cutting out the transmission from a powerful nearby station and receiving something from a more distant or inter-state station. To the man who has no wish to employ radio frequency, then this receiver will appeal to him for besides, as has been previously mentioned, being selective, it is, nevertheless, sensitive.

Sensitivity.

A well-known method of achieving selectivity is to use as few turns in the aerial circuit as is possible. Unfortunately, while this gives the required selectivity, the sensitivity is invariably sacrificed. Cockaday introduced a method whereby only a portion of the aerial circuit was coupled through the grid, or secondary coil and the same has been done in this receiver, plus the addition of smooth reaction not that which might be called a wave trap.

Reference to the circuit diagram shows what is meant. Coil L2 is the tapped wave trap coil, L1 being the primary, and the ordinary sense of the used, and L2 being the exciting portion of the primary which is inductively coupled to L1, the secondary reaction coil. This latter coil is tuned for its whole length by LL variable condenser of 0.005 micro capacity. L1-L5 is tuned by another 0.005 micro condenser, but the reaction condenser is one of the smallidget types as much as evidence is day.

The coil designated L5 is a radio frequency choke, and acts as a filter to the radio frequency current, forcing it from the place of the detector valve down to the reaction coil, so that effective reaction is obtained. It will be noticed that the grid lead, instead of being connected across the grid condenser, is taken direct from the grid of the valve to the L1 primary lead, this absolutely essential in this circuit; no member to keep this in mind when constructing the set.

Audio Frequency.

Now the question of just what form of audio frequency should be applied is one that is ever present in the minds of technickum men. Quite a lot of discussion has arisen around this subject of audio frequency amplification, tries maintaining that for pure tone, resistance coupling is the
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The wireless weekly: the hundred per cent Australian radio journal

**Bezboard Layout.**

The back of panel wiring diagram shows just where these should go. All certain general of dimention may be met with in securing the calls to the bezboard, but the use of short pillars made from red and half inch long will raise those calls off the bezboard. A wood screw about an inch long will be found quite suitable for putting right through the former and through the pillars, which should be drilled properly, of course, and into the bezboard. They will uniform height be maintained. The former on which is wound L1 and L2 should be so mounted that the top portion L1 should be at the back of the bezboard. All right angles to the bezboard, but just for the moment, don’t screw it in its position permanently. To the left of L1 round L2. Allow approximately about two inches space between L3 and L4, as the coupling between these two will be as loose as is commensurate with the ultimate results. Whenever you do, remember that L3 should be placed at right angles to L2. This is most important, and also note that L3 is running in the same direction as L4. Now mount the detector valve socket, the radio frequency coil, the audio frequency transformer and the other components, following out the back of panel wiring diagram as a suggestion.

**Wire.**

Now prepare the terminal board. Nine terminals should be secured on a strip of mica, spaced about six inches apart. To save time and trouble under the out of each terminal clamp a soldering lug to which can be soldered the connection without disturbing anything. Mount this in its position, and also a smaller terminal board over the ends which supports the aerial and the earth terminal. The wiring can now be commenced.

**Wire.**

Join together one F terminal of each tube socket and connect the connection to the contact stack, which acts as the tap in L4, also to one side of the grid box and finally to the A positive and B negative terminals on the terminal board. Now join together one side of each, inserting this wire to the A negative and B positive terminals on the terminal board. Now join the beginning of L2 to the beginning of L3, connecting the end of L2 to the fixed plate of the first variable condenser C1, joining the movable plate of this condenser to the end of L2, also to the end of L4 and then to earth. A short length of flexible wire about six inches long should have a battery clip attached to one end and the other end joined to the aerial terminal. This battery clip wands over the taps of L1. Now connect the beginning of L4 to the fixed plates of the second variable condenser L2. From these is one side of the grid condenser, the other side of which is connected directly to the grid terminal of the detector valve and to the remaining side of the grid L4.

Join together the fixed plates of the grid mottle condenser to the moving plates of condensers C3 and to the

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For further use only. Philo.
The wireless weekly: the hundred per cent Australian radio journal

WIRELESS WEEKLY
October 1927

Which Station—or Both?

A carefree weekend is provided by the station of the Western Telegraph official wireless Melbourne. Without being particularly perturbing some of the partycertained when everything was right with the set—a five valve instrument. The operator, Mr. J. H. C. Bathurst, remarking that it appeared to be working backwards, even the wrong polarity, and a couple of volts, touched up the tachometer and tuned the oscillators, until the set balanced in other words; 2EG, one machine, and 2IB, the next.

After tuning the transformers, adjusting the meter and a few more puzzles and finding everything in order, the radio company decided to river crossing, and beyond. They looked back on their course and turned on the roof “South Pole” power plant and put it on the air. The windows were suggested as a point you will hear.

As far as the very interesting results were concerned, nothing could have been better. On the other hand, the results were not the same, as the other half of the station was sometimes very hard to get under. The operator, however, got away with the other half, as the other half with the help of the set, in fact, and another one and one-half wave lengths, which he was able to get on the air, without the help of the other half. On the other hand, the results were not the same. On the other hand, the results were not the same.

E. G. GORDON V. LAVENDER, The Mind planeter, gace a very enjoyable performance on “Science in Competition” from 2EG-2161, on the afternoon of Tuesday, 2EG. Despite the absence of actors or other elements in the production, a brilliant performance was put up by the station, with a complete and comprehensive program of a sort which was never before attempted. The performance was a complete and comprehensive program of a sort which was never before attempted.

From Bury Pole to Tropic Jacob’s: Surgeon.
Development of the Super-Neutrodyne

DURING recent years great attention has been paid to the development of multiwave broadcast receivers, and to the coming of interference problems. This development has taken place along two main lines, the superheterodyne and the super-amplifier methods.

During the war practically all transmissions and reception of important took place on long wave facilities, only, although numerous communications over short distances gained place on these wave lengths not allowed to ordinary broadcasting. Consequently, much attention was paid to the development of receivers and radio-frequency amplifiers for use on these wave lengths and several notable designs were produced.

When telephone broadcasting commenced and the public began to demand receivers in order to listen to broadcasting, efforts were made to adapt these long wave receivers to the reception of short waves, but without much success. Some which were not then fully understood, received built for short waves, on the lines of those developed for long waves, but were not sufficiently in fact, in certain cases, increasing the number of valves in the set actually reduced the strength of the wave instead of increasing it. At this time a remarkable invention had been made, that of one of the most important inventors of the world, Dr. H. F. Potter. He worked on the problem of solving the short wave problem, but apparently he did not think of solving the short wave problem, but apparently he did not think of receiving the short wave, and surprisingly, that of an exceedingly long wave, so that some of these developments had been during the war period, could be used to amplify the short wave signals. This method of receiving became known as the superheterodyne or super-amplifier method.

However, certain radio engineers were not satisfied to utilise the output of the multi-wave radio amplification in this way. In his first paper, the Superheterodyne represented a waste of valves, in that the valves were being used to change wave length and the same process of increasing and strengthening the signal. Again, there was a certain pre-ceramic about this. Theoretically, it should be easy to amplify a short wave as a long wave, but the radio engineers refused to believe that the valves could work with success. However, they came to realize that this reasoning was the fact that the distortion of a valve can be as a small percentage, which permitted the energy released by the valve to re-enter the valve and thus start the whole process of amplification in the proper way. Therefore, they endeavored to find a way of reducing the distortion of the valve and also of increasing the efficiency of the valve.

That an Australian engineer was the first to patent the circuit design which subsequently appeared in England as the ‘Elstonia’ is the claim made in this article by a local writer.

WIRELESS WEEKLY 14th October, 1937. Page Nineteen

Mr. TADAOI was the first in the world to introduce the super-amplifier method, which was patented in England in 1937. This method was later adopted by the Australian engineers, and is now in use in Australia. The method was patented in Australia in 1939.

The Elstonia method was patented in Australia in 1939, and the Australian method was patented in America as well as Australia in November, 1939. Therefore, the Australian method is now in use in Australia as well as in America.

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The Elstonia method was patented in Australia in 1939, and the Australian method was patented in America as well as Australia in November, 1939. Therefore, the Australian method is now in use in Australia as well as in America.
Carry Your ACCUMULATORS in Comfort
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It is an ingenious, but simple device, will
grasp securely all the usual type of accumulators and entirely overcomes the trouble and
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STRONG — LIGHT — DURABLE.
Made of metal with non-corrosive coating
and rubber handle.
Adjustable from 1 to 15 inches.

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Small sizes, for 1 and 2 Valve
WP 30—30 Volts ... 9/6
WP 40—42 Volts ... 13/6
WP 60—60 Volts ... 18/-

"A" BATTERIES.
Standard, 4½ Volts ... 9/6
No. 126—1½, 3 or 4½ Volts, 2/-

"C" BATTERIES.
XP30—30 Volts ... 16/-
XP40—42 Volts ... 21/-
XP60—60 Volts ... 31/6

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0/50 Volts, Pocket Type, 1/3, 0/100 and 0/100 Volts, Pocket Type, 7/6.

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THE WIRELESS WEEKLY: THE HUNDRED PER CENT AUSTRALIAN RADIO JOURNAL

WIRELESS WEEKLY

Friday, Oct. 14
2FC, SYDNEY.

FARMER'S BROADCASTING SERVICE
Wave Lengths, 445 Metres.

EVENING PROGRAMME

11 a.m.—“Big Ben” and announcements.
11.15 a.m.—“Sydney Morning Herald” news service.
11.45 a.m.—“Big Ben” and announcements.
12 noon—“Weather Service”.
12.15 p.m.—“Big Ben” and announcements.
1 p.m.—“Weather Service”.
1.15 p.m.—“Big Ben” and announcements.
1.30 p.m.—“Sydney Morning Herald” news service.
1.45 p.m.—“Big Ben” and announcements.
2 p.m.—“Big Ben” and announcements.
2.30 p.m.—“Big Ben” and announcements.
2.45 p.m.—“Big Ben” and announcements.
3 p.m.—“Sydney Morning Herald” news service.
3.15 p.m.—“Big Ben” and announcements.
3.30 p.m.—“Big Ben” and announcements.
3.45 p.m.—“Big Ben” and announcements.
4 p.m.—“Big Ben” and announcements.
4.15 p.m.—“Big Ben” and announcements.
4.30 p.m.—“Big Ben” and announcements.
4.45 p.m.—“Big Ben” and announcements.
5 p.m.—“Big Ben” and announcements.

NEW SOUTH WALES “A” AND “B” GRADE BROADCASTING STATIONS
1FC—Farmer’s Broadcasting Service, Ltd., Broadcast from 141 metres, power 4000 watts.
2FC—Farmer’s Broadcasting Service, Ltd., Broadcast from 445 metres, power 6000 watts.
3FC—Sydney Broadcasting Station, Ltd., Broadcast from 98 metres, power 3000 watts.
4FC—Forster, New South Wales, Broadcast from 154 metres, power 2500 watts.
5FC—Maitland, New South Wales, Broadcast from 210 metres, power 2500 watts.
6FC—Dubbo, New South Wales, Broadcast from 265 metres, power 2500 watts.
7FC—Parkes, New South Wales, Broadcast from 320 metres, power 2500 watts.
8FC—Warwick, New South Wales, Broadcast from 375 metres, power 2500 watts.
9FC—Cootamundra, New South Wales, Broadcast from 430 metres, power 2500 watts.
10FC—Canberra, New South Wales, Broadcast from 485 metres, power 2500 watts.

AFTEINOON SESSION:
2 p.m.—“Big Ben” and announcements.
2.15 p.m.—“Big Ben” and announcements.
2.30 p.m.—“Big Ben” and announcements.
2.45 p.m.—“Big Ben” and announcements.
3 p.m.—“Big Ben” and announcements.
3.15 p.m.—“Big Ben” and announcements.
3.30 p.m.—“Big Ben” and announcements.
3.45 p.m.—“Big Ben” and announcements.
4 p.m.—“Big Ben” and announcements.
4.15 p.m.—“Big Ben” and announcements.
4.30 p.m.—“Big Ben” and announcements.
4.45 p.m.—“Big Ben” and announcements.
5 p.m.—“Big Ben” and announcements.

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1FC—Farmer’s Broadcasting Service, Ltd., Broadcast from 141 metres, power 4000 watts.
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6FC—Dubbo, New South Wales, Broadcast from 265 metres, power 2500 watts.
7FC—Parkes, New South Wales, Broadcast from 320 metres, power 2500 watts.
8FC—Warwick, New South Wales, Broadcast from 375 metres, power 2500 watts.
9FC—Cootamundra, New South Wales, Broadcast from 430 metres, power 2500 watts.
10FC—Canberra, New South Wales, Broadcast from 485 metres, power 2500 watts.

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2BL, SYDNEY.
Broadcasters' Ltd.
Wave Length, 315 Metres.

Friday

EARLY MORNING SESSION. 7 to 8 A.M.

MORNING SESSION.

11.30 a.m.-C.D.O. Clerk and Chemist.
11.50 a.m.-Advertisement.
12.00 p.m.-Parallel Broadcast from the Studio.
1.15 p.m.-C.D.O. Clerk and Chemist.

AFTERNOON SESSION.

11.00 a.m.-Information, Maps, Shipment and
11.30 a.m.-Market Report.
12.00 noon.-C.S.M. Market Report.
12.30 p.m.-C.S.M. Market Report.
1.00 p.m.-C.S.M. Market Report.
1.30 p.m.-C.S.M. Market Report.
1.45 p.m.-C.S.M. Market Report.
2.15 p.m.-C.S.M. Market Report.
3.45 p.m.-C.S.M. Market Report.
4.15 p.m.-C.S.M. Market Report.
5.00 p.m.-C.S.M. Market Report.
6.00 p.m.-C.S.M. Market Report.

2GB, SYDNEY.
Theosophical Broadcasting Service.
Wave Length, 315 Metres.

Friday

MORNING SESSION.

5.30 a.m.-Morn. Talk.
6.00 a.m.-Morn. Talk.
6.30 a.m.-Morn. Talk.
7.00 a.m.-Morn. Talk.
7.30 a.m.-Morn. Talk.
8.00 a.m.-Morn. Talk.
9.00 a.m.-Morn. Talk.
10.00 a.m.-Morn. Talk.
11.00 a.m.-Morn. Talk.
12.00 noon.-Morn. Talk.
12.30 p.m.-Morn. Talk.
1.00 p.m.-Morn. Talk.
1.30 p.m.-Morn. Talk.
2.00 p.m.-Morn. Talk.
2.30 p.m.-Morn. Talk.
3.00 p.m.-Morn. Talk.
3.30 p.m.-Morn. Talk.
4.00 p.m.-Morn. Talk.
4.30 p.m.-Morn. Talk.
5.00 p.m.-Morn. Talk.
5.30 p.m.-Morn. Talk.
6.00 p.m.-Morn. Talk.
6.30 p.m.-Morn. Talk.
7.00 p.m.-Morn. Talk.
7.30 p.m.-Morn. Talk.
8.00 p.m.-Morn. Talk.
8.30 p.m.-Morn. Talk.
9.00 p.m.-Morn. Talk.
9.30 p.m.-Morn. Talk.
10.00 p.m.-Morn. Talk.
11.00 p.m.-Morn. Talk.

AFTERNOON SESSION.

11.00 a.m.-A.M.O. Talk.
11.30 a.m.-A.M.O. Talk.
12.00 noon.-A.M.O. Talk.
12.30 p.m.-A.M.O. Talk.
1.00 p.m.-A.M.O. Talk.
1.30 p.m.-A.M.O. Talk.
2.00 p.m.-A.M.O. Talk.
2.30 p.m.-A.M.O. Talk.
3.00 p.m.-A.M.O. Talk.
3.30 p.m.-A.M.O. Talk.
4.00 p.m.-A.M.O. Talk.
4.30 p.m.-A.M.O. Talk.
5.00 p.m.-A.M.O. Talk.
5.30 p.m.-A.M.O. Talk.
6.00 p.m.-A.M.O. Talk.
6.30 p.m.-A.M.O. Talk.
7.00 p.m.-A.M.O. Talk.
7.30 p.m.-A.M.O. Talk.
8.00 p.m.-A.M.O. Talk.
8.30 p.m.-A.M.O. Talk.
9.00 p.m.-A.M.O. Talk.
9.30 p.m.-A.M.O. Talk.
10.00 p.m.-A.M.O. Talk.
11.00 p.m.-A.M.O. Talk.
11.30 a.m.-A.M.O. Talk.
12.00 noon.-A.M.O. Talk.
12.30 p.m.-A.M.O. Talk.
1.00 p.m.-A.M.O. Talk.
1.30 p.m.-A.M.O. Talk.
2.00 p.m.-A.M.O. Talk.
2.30 p.m.-A.M.O. Talk.
3.00 p.m.-A.M.O. Talk.
**WIRELESS WEEKLY**

Friday, 14th October, 1937.

**4ZZ, BRISBANE**

Queensland Radio Service

Wave Length, 588 Kilocycles.

**FRIDAY**

**MORNING SESSION.**

1.23 p.m. - National News, weather, information.

**1.40 p.m.** - Lecture given for Blind (Garden Road High School).

2.11 p.m. - Standard hour signal for Blind.

2.35 p.m. - Standard hour signal for Blind.

**AFTERNOON SESSION.**

3.10 p.m. - Programme of music by the State Orchestral Performers (Concert Hall).

3.15 p.m. - Boys' Choral Society (Bronte Park, New South Wales).

3.30 p.m. - Sydney Symphony Orchestra.

3.45 p.m. - Music Appreciation (Sydney Technical College).

4.00 p.m. - Vocal Ensemble of Australian Capital Territory.

**5.00 p.m.** - National News, weather, information.

**6.00 p.m.** - National News, weather, information.

**7.00 p.m.** - National News, weather, information.

**7.30 p.m.** - National News, weather, information.

**SCL, ADELAIDE**

Central Broadcasters, Ltd.

Wave Length, 888 Kilocycles.

**FRIDAY**

**JOINING SESSION.**

5.00 p.m. - Standard hour signal.

5.20 p.m. - National News, weather, information.

5.45 p.m. - National News, weather, information.

**8.00 p.m.** - National News, weather, information.

**9.00 p.m.** - National News, weather, information.

**WIRELESS TRANSMISSIONS**

**6WF, PERTH**

Western Farmers.

Wave Length, 1200 Kilocycles.

**FRIDAY**

11.00 p.m. - Programmes of music by the State Orchestral Performers (Concert Hall).

11.15 p.m. - Boys' Choral Society (Bronte Park, New South Wales).

11.30 p.m. - Sydney Symphony Orchestra.

11.45 p.m. - Music Appreciation (Sydney Technical College).

12.00 a.m. - Vocal Ensemble of Australian Capital Territory.

12.15 a.m. - National News, weather, information.

12.30 a.m. - National News, weather, information.

12.45 a.m. - National News, weather, information.

**FOREIGN BROADCASTERS.**

**JNCW - Sydney Broadcasters Co., Ltd.**

A.M. and P.M. in English and Australian.

**JNCW - Sydney Broadcasters Co., Ltd.**

2.00 p.m. - National News, weather, information.

2.15 p.m. - National News, weather, information.

2.30 p.m. - National News, weather, information.

2.45 p.m. - National News, weather, information.

3.00 p.m. - National News, weather, information.

3.15 p.m. - National News, weather, information.

3.30 p.m. - National News, weather, information.

3.45 p.m. - National News, weather, information.

4.00 p.m. - National News, weather, information.

4.15 p.m. - National News, weather, information.

4.30 p.m. - National News, weather, information.

4.45 p.m. - National News, weather, information.

5.00 p.m. - National News, weather, information.

5.15 p.m. - National News, weather, information.

5.30 p.m. - National News, weather, information.

5.45 p.m. - National News, weather, information.

6.00 p.m. - National News, weather, information.

6.15 p.m. - National News, weather, information.

6.30 p.m. - National News, weather, information.

6.45 p.m. - National News, weather, information.

7.00 p.m. - National News, weather, information.

7.15 p.m. - National News, weather, information.

7.30 p.m. - National News, weather, information.

7.45 p.m. - National News, weather, information.

8.00 p.m. - National News, weather, information.

8.15 p.m. - National News, weather, information.

8.30 p.m. - National News, weather, information.

8.45 p.m. - National News, weather, information.

9.00 p.m. - National News, weather, information.

9.15 p.m. - National News, weather, information.

9.30 p.m. - National News, weather, information.

9.45 p.m. - National News, weather, information.

10.00 p.m. - National News, weather, information.

10.15 p.m. - National News, weather, information.

10.30 p.m. - National News, weather, information.

10.45 p.m. - National News, weather, information.

11.00 p.m. - National News, weather, information.

11.15 p.m. - National News, weather, information.

11.30 p.m. - National News, weather, information.

11.45 p.m. - National News, weather, information.
The wireless weekly: the hundred per cent Australian radio journal

**WIRELESS WEEKLY**

**Friday, 12th October, 1927.**

**7ZL, HOBART**

Tasmanian Broadcasters, Ltd.

Wave Length, 635 Metres.

**Friday**

**MOONLIGHT SESSION.**

11 p.m. to 12 p.m.

**EARLY EVENING SESSION.**

12.45 p.m. - Children's Corner with the "Radio Lady".

2 p.m. - Young Falls producing duo by Mr. G. Campion.

**BOY'S SESSION.**

9 a.m. - Rock, Western and juvenile music through the courtesy of Roberts and Co., Ltd., Hobart.

9.30 a.m. - Weather service with Weather Information. Scenes of interest - extraordinary

11 a.m. - "Radio Morning Show" comes on air.

Midday - Weather music.

Afternoon - Information of the City Tasmania's needs. This will be described in the running by the RPI (Radio Publicity Institute) for the 3rd Day of the 2nd Centennial of Yankalilla.

1.15 p.m. - "Radio Morning Show" concludes.

4.15 p.m. - "Radio News" studio news work.

5 p.m. - "Radio News" begins delivering the afternoon's following special items with the "Radio News" staff. Sunday: Cannot publish at this time; "Radio News" goes on air.

9 p.m. - "Radio News" goes on air.

**RHYTHM SESSION.**

6.30 p.m. - "Radio News" studio news work.

7 p.m. - "Radio News" service of the City Hobart.

**WIRELESS WEEKLY**

**Saturday, Oct. 15.**

**2FC, SYDNEY.**

**EARLY SESSIONS.**

7 a.m. to 9 a.m.

**LATE SESSIONS.**

10 a.m. to 12 p.m.

**EARLY EVENING SESSIONS.**

12.30 a.m. - "Radio News" goes on air.

**EARLY SESSIONS.**

7 a.m. to 9 a.m.

**LATE SESSIONS.**

10 a.m. to 12 p.m.

**COCKTAIL SESSION.**

12.30 a.m. - "Radio News" goes on air.

**LET US BE SERIOUS.**

Friday, 12th October, 1927.

**WIRELESS WEEKLY**

**Page Twenty-Five**

**8.45 a.m. - "Radio News."**

8.50 a.m. - "Radio News." The "Radio News" of the week will be on air.

9.15 a.m. - "Colours.""The Irish London Telegram," Under the direction of Radio News staff.

9.20 a.m. - "Radio News." The "Radio News" of the week will be on air.

9.30 a.m. - "Radio News." The "Radio News" of the week will be on air.

9.45 a.m. - "Radio News." The "Radio News" of the week will be on air.

10 a.m. - "Radio News." The "Radio News" of the week will be on air.

10.15 a.m. - "Radio News." The "Radio News" of the week will be on air.

10.30 a.m. - "Radio News." The "Radio News" of the week will be on air.

11 a.m. - "Radio News." The "Radio News" of the week will be on air.

11.15 a.m. - "Radio News." The "Radio News" of the week will be on air.

11.30 a.m. - "Radio News." The "Radio News" of the week will be on air.

11.45 a.m. - "Radio News." The "Radio News" of the week will be on air.

12 noon - "Radio News." The "Radio News" of the week will be on air.

1.00 p.m. - "Radio News." The "Radio News" of the week will be on air.

2.00 p.m. - "Radio News." The "Radio News" of the week will be on air.

3.00 p.m. - "Radio News." The "Radio News" of the week will be on air.

4.00 p.m. - "Radio News." The "Radio News" of the week will be on air.

5.00 p.m. - "Radio News." The "Radio News" of the week will be on air.

6.00 p.m. - "Radio News." The "Radio News" of the week will be on air.

6.15 p.m. - "Radio News." The "Radio News" of the week will be on air.

**LET US BE SERIOUS.**

Friday, 12th October, 1927.
WIRELESS WEEKLY

FRIDAY, 11TH OCTOBER, 1927.

2 U.W., SYDNEY.

SUNDAY EVENING SESSION.

5.45 p.m.-D.J.B. Smith and G. L. Graham.

SUNDAY NIGHT SESSION.

6.45 p.m.-Children's Songs.

2 LO, MELBOURNE.

MONDAY EVENING SESSION.

2.30 p.m.-L. Johnson and I. Johnson;

5.30 p.m.-R. H. Johnson and I. Johnson.

5.45 p.m.-Children's Songs.

H. K. I. (Walter), Melbourne.

5.45 p.m.-Children's Songs.

3 LO, MELBOURNE.

SUNDAY EVENING SESSION.

5.45 p.m.-Children's Songs.

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MONDAY EVENING SESSION.

2.30 p.m.-L. Johnson and I. Johnson;

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5.45 p.m.-Children's Songs.

H. K. I. (Walter), Melbourne.

5.45 p.m.-Children's Songs.

4 QG, BRISBANE.

SUNDAY EVENING SESSION.

5.45 p.m.-Children's Songs.

5.45 p.m.-Children's Songs.

4 QG, BRISBANE.

MONDAY EVENING SESSION.

2.30 p.m.-L. Johnson and I. Johnson;

5.30 p.m.-R. H. Johnson and I. Johnson.

5.45 p.m.-Children's Songs.

H. K. I. (Walter), Melbourne.

5.45 p.m.-Children's Songs.

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SUNDAY EVENING SESSION.

5.45 p.m.-Children's Songs.

5.45 p.m.-Children's Songs.

4 QG, BRISBANE.

MONDAY EVENING SESSION.

2.30 p.m.-L. Johnson and I. Johnson;

5.30 p.m.-R. H. Johnson and I. Johnson.

5.45 p.m.-Children's Songs.

H. K. I. (Walter), Melbourne.

5.45 p.m.-Children's Songs.

4 QG, BRISBANE.
Friday, 14th October, 1937,

2.00 p.m. - Coon's visit.
4.00 p.m. - Coon's show.

EASY STYLING SESSION.
12 noon - Photomechanical Session.
5.00 p.m. - Photomechanical Session.

WIRELESS WEEKLY

Page Twenty-Seven

11.00 a.m. - Sporting omnibus.
12.30 p.m. - Transferring Branches at 2 p.m. for
the purpose.
11.00 a.m. - E.P.O. Club.Value.

MORNING SESSION.
11.00 a.m. - Photomechanical Session.
12.30 p.m. - Photomechanical Session.

FROM 11TH TO 13TH.

WIRELESS WEELY.

Page Twenty-Seven

11.00 a.m. - Sporting omnibus.
12.30 p.m. - Transferring Branches at 2 p.m. for
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FROM 11TH TO 13TH.

WIRELESS WEELY.

Page Twenty-Seven

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12.30 p.m. - Transferring Branches at 2 p.m. for
the purpose.
11.00 a.m. - E.P.O. Club.Value.

MORNING SESSION.
11.00 a.m. - Photomechanical Session.
12.30 p.m. - Photomechanical Session.

FROM 11TH TO 13TH.
2BL, SYDNEY

Sunday

MORNING SERMON.
11.45 a.m. Special News Service.
12.45 a.m. Special Service at Uniting Church.

AFTERNOON SERVICE.
1.30 p.m. Special News Service.
2.15 p.m. Special Service at Uniting Church.

NIGHT SERVICE.
7.00 p.m. Special News Service.
8.45 p.m. Special Service at Uniting Church.

2GB, SYDNEY

Sunday

MORNING SERVICE.
9.45 a.m. Special Service at Uniting Church.

WINTER SERVICE.
2.30 p.m. Special News Service.
3.15 p.m. Special Service at Uniting Church.

3LO, MELBOURNE

Sunday

MORNING SERVICE.
9.30 a.m. Special Service at Uniting Church.

2 UW, SYDNEY

Sunday

MORNING SERVICE.
9.30 a.m. Special Service at Uniting Church.

Afternoon Service.
4.15 p.m. Special News Service.
5.00 p.m. Special Service at Uniting Church.
WIRELESS WEEKLY

4QG, BRISBANE.

Sunday.

EVENING SERVICE.

1.15 a.m.-Service to Labour and Birthday.

2.30 a.m.-"THE FED-UP FARMER" will give the latest farming information.

7 a.m.-Church service from St. Paul's Cathedral.

MORNING SERVICE.

ST. ANDREW'S PRESBYTERIAN CHURCH.

The complete Morning Service will be played from St. Andrew's Presbyterian Church.

1.15 a.m.-Service.

AFTERNOON SERVICE.

EVENING SERVICE.

1.15 a.m.-Service from St. Andrew's Presbyterian Church.

MORNING SERVICE.

ST. ANDREW'S PRESBYTERIAN CHURCH.

The complete Morning Service will be played from St. Andrew's Presbyterian Church.

1.15 a.m.-Service.

NIGHT SERVICE.

ST. ANDREW'S PRESBYTERIAN CHURCH.

The complete Evening Service will be played from St. Andrew's Presbyterian Church.

12.45 a.m.-Service.

WIRELESS WEEKLY

Page Twenty-Nine

Monday, Oct. 17

2FC, SYDNEY.

EASILY HARMONIZING MORNING SESSION.

7 a.m. to 11 a.m.

Monday Session.

24.30 a.m.-"The New" and program music.

26.30 a.m.-"Ode to a Queen" music.

3 a.m.-"Easter Morning Service" music.

8.30 a.m.-"Easter Morning Service" music.

11.30 a.m.-"Easter Morning Service" music.

NIGHT SESSION.

21.30 a.m.-"Easter" and program music.

22.45 a.m.-Church service from St. Andrew's Presbyterian Church.

23.15 a.m.-Service from St. Andrew's Presbyterian Church.

AFTERNOON SESSION.

26.15 a.m.-Service from St. Andrew's Presbyterian Church.

7ZL, HOBART.

Sunday.

EVENING SERVICE.

11.15 a.m.-Service from the Royal Agricultural Showground, Hobart.

12.30 p.m.-Service from the Royal Agricultural Showground, Hobart.

AFTERNOON SERVICE.

1.45 p.m.-Service from the Royal Agricultural Showground, Hobart.

Afternoon Service.

7.30 p.m.-"Big Hit" and program music.
Wireless Weekly

2BL, Sydney

Monday, 14th October, 1927

Early Morning Session—7 a.m.

Morning Session

11:00 a.m.—Grand Union March from the Mound.
11:20 a.m.—Church Service.
11:40 a.m.—News from the Time Zone.
12:00 p.m.—Hear the Damage Report.
12:30 p.m.—Hear the Damage Report.
1:00 p.m.—Hear the Damage Report.
1:30 p.m.—Hear the Damage Report.
2:00 p.m.—Hear the Damage Report.
2:30 p.m.—Hear the Damage Report.
3:00 p.m.—Hear the Damage Report.
3:30 p.m.—Hear the Damage Report.
4:00 p.m.—Hear the Damage Report.
4:30 p.m.—Hear the Damage Report.
5:00 p.m.—Hear the Damage Report.
5:30 p.m.—Hear the Damage Report.
6:00 p.m.—Hear the Damage Report.
6:30 p.m.—Hear the Damage Report.
7:00 p.m.—Hear the Damage Report.
7:30 p.m.—Hear the Damage Report.
8:00 p.m.—Hear the Damage Report.
8:30 p.m.—Hear the Damage Report.
9:00 p.m.—Hear the Damage Report.
Brandes Tablecone

The Cone is housed in an attractive Cabinet of unique design, which has a walnut finish. The circular diaphragm has an extremely sensitive driving unit which brings a wealth of volume with pure and effortless ease. The magnet in the cone unit is unusually large.

The instrument is supplied complete with cord connection and is a proposition of excellent value.

It has a genuine claim to be better than any similar instrument at the price.

Height, 10in.; breadth, 9½in.; depth, 11½in. (at base).

Retail Price :: £2/19/6

Send for our Free Catalogue.

INTERNATIONAL RADIO CO. LTD.,
229 CASTLEREAUGH STREET, SYDNEY
91-93 COURTENAY PLACE, WELLINGTON, N.Z.
BETTER RADIO BATTERIES

have NEVER been BUILT

Leading dealers recommend and sell Bright Star Batteries because of their super power and extra long life—install Bright Star to-day and hear the improvement in your results.

The Superior Staying Power of Bright Star Radio Batteries (all types) is acclaimed by most prominent Engineers and experts. They continually lead in every conceivable test over other makes and prove in actual use they are the cheapest Radio Battery you can buy.

Bright Star BATTERIES
in your set INSURE against distortion and poor reception.

FACTORY REPRESENTATIVES:
International Radio Co. Ltd.
229 CASTLEREAGH ST. • • • SYDNEY

SEND FOR OUR NEW CATALOGUE
IT'S FREE

Triple Duty, 42 Volts. Price 33/-

C or B Battery, 33 Volt, Price
11/9

No. 6-A
A Battery, 11 Volt
CROSLEY 6-85—6 Valve Set

For those who demand PERFECTION

A SIX-VALVE, single control radio, installed in a beautiful console cabinet, with built-in reproducer—a genuine Crosley Mission—can be had for but £36/10/. The very radio you have been waiting for at a ridiculously low price. This is a really long distance receiver, capable of bringing in stations from coast-to-coast. Its single dial control makes tuning a very simple matter, and its many exclusive Crosley features combine to form a radio that meets the requirements of the most particular radio listeners. The set consists of three stages of radio frequency amplification, detector and two stages of audio frequency, a circuit unexcelled for perfect reception. All stations can be found instantly on the one control, which revolves smoothly under light pressure. It is so designed as to permit use of a power valve in the last audio frequency stage. In addition there are the now-famous Crosley Accumulators and the Crescendos and many other attractive features found only in very high priced equipment.

Six Outstanding Features of the 6-85

There are six features in the six valve 6-85 which combine to make the set so exceptionally efficient. FIRST—SINGLE DIAL CONTROL. All stations found instantly on this one control.

SECOND—SOLID SHIELDED CASSETTE. This provides durable, substantial casing for the electrical units and helps maintain operation.

THIRD—ACUMINATORS. The exclusive means for obtaining super selectivity in tuning in distant stations.

FOURTH—POWER TUBE ADAPTABLE. Removable power valve at last stage of audio frequency.

FIFTH—CRESCORDO. An exclusive Crosley device which permits building up of volume on each an extent that equals, probably, on other receivers, a full forty per cent.

SIXTH—BEAUTIFUL CABINET. The cabinet is of handsome mahogany finish, with exquisite safety latches.

Send for Our Free Catalogue:

INTERNATIONAL RADIO CO. LTD.,
229 CASTLEREAGH STREET, SYDNEY
91-93 COURTENAY PLACE, WELLINGTON, N.Z.
WIRELESS WEEKLY
Friday, 14th October, 1927.

2 UW, SYDNEY
Monday.
MORNING SESSION.
10 a.m.—‘The Kings of Australia’ (rehearsal).
11 a.m.—All-station news.
12 noon.—All-station news.
1 p.m.—All-station news.
3 p.m.—All-station news.
4 p.m.—Afternoon Session.
5 p.m.—All-station news.
6 p.m.—All-station news.
7 p.m.—All-station news.
8 p.m.—All-station news.
WNB.

3 LO, MELBOURNE.
Monday.
MORNING SESSION.
8 a.m.—Melbourne Country music (Australia East and Australia West). The Australian Farm Service (Australia East and Australia West).
10 a.m.—Australian Lawn Tennis Association.
11 a.m.—All-station news.
12 noon.—All-station news.
1 p.m.—All-station news.
2 p.m.—All-station news.
3 p.m.—All-station news.
4 p.m.—All-station news.
5 p.m.—All-station news.
6 p.m.—All-station news.
7 p.m.—All-station news.
8 p.m.—All-station news.
WNB.

Over-ride Switch for Heavy Current Drains.
That, after all, is what you really seek from your set. The "Advance" Audio Frequency Transformer has been specially designed to give you pure-tuned volume—to increase the clarity and strength of your reception. The name "Advance" is a guarantee of its electrical and mechanical perfection. Made in ratios of 2:1, 3:1, and 5:1.

Wholesale Distributors:
FOX & MACGILLYCUDDY LTD.
Daily Telegraph Bldgs., Sydney
HARRINGTONS LTD.
George St., Sydney
WIRELESS WEEKLY

Tuesday, Oct. 18

2FC, SYDNEY.

EARLY MORNING SESSION.
7 a.m. to 9 a.m.

MORNING SESSION.
9 a.m. - "Big Box" and programme announcements.
10 a.m. - Music in the program.
11 a.m. - "Saturday Morning Herald" news.
11 a.m. - "Saturday Morning Herald" news.
12 noon - "Saturday Morning Herald" news.
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"Trues! to nature" CLARITONE Speakers stand far ahead among all the newest things in Radio. Their greater tone range brings in the extreme high and low notes that make voices sound real and reproduce the subtlety and quality of instrumental music.

The human speaking voice is interpreted with unusual richness and freedom from metallic vibrations. And distortionless volume is another advantage ensured by CLARITONE Speakers. You’ve got to hear CLARITONE before you can really understand why they are "Trues! to nature."

WELDON ELECTRIC SUPPLY CO. LTD.
352 KENT STREET, SYDNEY
Suppliers of Everything in Radio and Electrical Equipment

The JUNIOR CLARITONE (W2G7), 4/- (excl. air). The Reflec CLARITONE Speaker, a super reflex model, 5/-.

MEASURES: 7½" dia., 4½ lb.

Send us for particulars of our special trade preparations.
The wireless weekly: the hundred per cent Australian radio journal

WIRELESS WEEKLY

Friday, 14th October, 1927.

SYDNEY.

2 UW, SYDNEY.

Tuesday.

10 a.m.-W.W. Director, Sydney (from the studio). (mr. W. J. hackett, boarded by the studio quartet, conductor ROBERT BROAD.

5 p.m.-R. PAYNE, violinist.

6.30 p.m.-MR. R. M. FASON will speak on "the wireless weekly: the hundred per cent Australian radio journal." (mr. R. M. FASON will speak on "the wireless weekly: the hundred per cent Australian radio journal.

SYDNEY.

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Tuesday.

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5 p.m.-R. PAYNE, violinist.

6.30 p.m.-MR. R. M. FASON will speak on "the wireless weekly: the hundred per cent Australian radio journal." (mr. R. M. FASON will speak on "the wireless weekly: the hundred per cent Australian radio journal.

3LO, MELBOURNE.

Tuesday.

10 a.m.-W.W. Director, Melbourne (from the studio). (mr. W. J. hackett, boarded by the studio quartet, conductor ROBERT BROAD.

5 p.m.-R. PAYNE, violinist.

6.30 p.m.-MR. R. M. FASON will speak on "the wireless weekly: the hundred per cent Australian radio journal." (mr. R. M. FASON will speak on "the wireless weekly: the hundred per cent Australian radio journal.

There is no "just-as-good" as Burress.
Up with those signals—for the "Four Fifteen" is here! Philips new wonder valve is a triumph indeed. Test this statement by plugging it into the detector socket of your radio set. Previously inaudible signals will jump into life, and the just audible ones will now fill your speaker.

Now follow it with another "Four Fifteen," and in an instant you will gain a new appreciation for Radio Reproduction. Prove for yourself that this new Super Detector—First Stage Audio Valve is all that it is claimed to be.

To-day is not too early to say, "A Philips 'Four Fifteen,' please!" You will never regret the impulses that made you say it.
The wireless weekly : the hundred per cent Australian radio journal

WIRELESS WEEKLY

FRIDAY, 14TH OCTOBER, 1927.

6WF, PERTH.
Tuesday.

12.30 p.m.—Close down.
12.30 p.m.—“Here’s the news, and Cabinet.”
12.30 p.m.—“Queenie’s Vents” (Blackburne). 11 a.m.—Queenie’s Vents supplied by the Meteorological Bureau of Western Australia.
12.30 p.m.—Radio Announcer in the Studio.
12.30 p.m.—Close down.
12.35 p.m.—Close down.
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1.20 p.m.—“Here’s the news, and Cabinet.”
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CONSISTENCY of RADIOKES Products

explains why they are always chosen for use by the highest authorities, by the largest manufacturers, and by home set constructors. THEY realise that the best is not too good for their Radio Frequency components.

The COCKADAY-HARTLEY Receiver in this issue calls for RADIOKES—THE BEST—PRODUCTS.

The best in R.F. Chokes is represented by Radiokes. The smallest, most efficient, and most robust is Radiokes.

The most popular and most praised is represented by the now famous Radiokes Gold Label R.P. Choke.

Price, 8/6 each.

From all good dealers or direct.

Metropolitan Electric Co. Ltd., 27-29 King St., Sydney
And at Melbourne, Brisbane, Auckland, Hobart and Launceston.

Buy from the trader who displays Radiokes Products.

The Super Tubes you have been looking for. These tubes have been pronounced by leading authorities as the finest they have ever used. Tested to the highest standard of any tube made in America or Europe.

Type 200A

Price, 16/- each

Type 199

Price, 12/- each

Power Types

Price, 30/- each

Good tubes are little better than poor tubes without Amperite. Clinical performance and long life requires the best automatic filament control of each individual tube afforded only by Amperite. Install an Amperite filaments and resistors—and look for the trade. Remember, there are no obsolete parts—good-tube-priced limitations are liable to ruin your pet tubes.

Eliminates hard rheostats and simplifies wiring.

Price, 6/6 each.
WIRELESS WEEKLY

2BL, SYDNEY.

Wednesday.

EARLY MORNING SESSION.
11 a.m.-C.P.O. and Chimes.
Morning programme of the Studio.
11.30 a.m.-Talk on "Relaxing" by Miss
Cora Vekete, Musician. Womphra.
11.45 a.m.-Music from the Studio.

COUNTRY SESSION.
11.50 a.m.-Dancing (Local Artists).

AFTERNOON SESSION.

Radio news broadcast, immediately
after such shows, by electro of the "New
Local and National Artists. Close Down.

The Mighty 6SX Philco is Supreme.

The wireless weekly : the hundred per cent Australian radio journal
Friday, 14th October, 1927. WIRELESS WEEKLY

EMMCO
LIGHT SOCKET POWER IS
CLEAN, SAFE, AND ECONOMICAL

Price:
£10/10/-

Here is the finest "B" Power Unit money can buy—and at a price made possible only by mass production along highly organized lines, in one of Australia's largest engineering establishments.

EMMCO "B" power, provided by the EMMCO ELIMINATOR gives you that constant, full, effortless power which your receiver demands. Banish battery worry once and for all. Fit an EMMCO Eliminator NOW.

AT ALL DEALERS
Buy EMMCO Radio Products

Made in Australia for Australian conditions and constructed throughout of the finest materials.
Are You a Back Number?

When big figures ceased to be fashionable, the cause of man behind desk seems dead. Life has been one long struggle to dodge the back number class.

Do you buy a brand new one?

Three months later a familiar-looking model may appear making your face a has been. Do you save for a new one? In a few weeks, however, develop caustic or theТИн necestal adds a button and widens the shirt front area.

Gladly a woman shingles her hair to be up to date, and then Paris decrees a new cut—she invents in an expensive hair which resembles a shell helmet and extravagantly the shop windows are full of wide-brimmed admires.

You can't dodge the cut! When you really reach the stage of not caring whether you are a back number, your friends order waffles and try to think of exciting events to talk about you.

It's the same way in radio. In baby days most of us were crystal-gazers, but when the set with dials was invented we shifted the old set to the attic or put it under the sofa when friends visited.

Now the very latest thing is the addition of shells. Instead of turning knobs you put your finger on a tiny wheel and the universe springs to your beck and call to help Burgess batteries!

When my New System friends decided to make big a set in radio sets as they did in batteries, they launched a No. 10, 50 Watt, Solarite, changeable, like the finest car. Thus they opened the new style in the very best, so to speak.

The New System was the first to appear in the more than ten years of the old model. It makes other sets all very old.

But there is no need for the thousand sets of other makes to pass in the back number set at a fair price and pay the balance on the front set in Australia on easy long terms.

And this No Med Set can't get out of date in a few years—the price not possible, unless they hang a different external fashion on the wheel, for each new model!

Don't be a back number! Call is today at 2.30 Castlereagh-street, and be measured for a new set right—ladies' and men's belts by New Systems Telephones Pty., Ltd.

3LO, MELBOURNE

Wednesday

MIDAY SESSION

2.15 p.m.—Melbourne Observatory Time Signal.
1.45 p.m.—News, weather, telegrams, by "Mary, Mary.
1.00 p.m.—Radio Park, Time Ball, by "Mary, Mary." (Globe).

Evening Session

CHILDREN'S HOUR

6.30 p.m.—Donovan Junior.
WIRELESS WEEKLY

Page Forty-Two

THE WONDERFUL P.M. FILAMENT

IN THE MULLARD P.M. RADIO VALVES

The Filament that is absolutely unique in its length, huge emission, great toughness and master performance—the filament with a published British National Physical Laboratory Test Report, proving its power to be consistent and lasting—A British Filament found only in Mullard P.M. Valves.

Obtainable from every Radio Dealer in Australia.

Mullard

THE MASTER-VALVE

[Advert for Mullard valves]
NEW SETS FOR OLD

Trade in your old set as part payment of a magnificent New System 5-valve radio set.

The balance may be paid on long easy terms.

Chassis-built

Chassis-built and labelled like the finest motor-car, New System radio has absolute rigidity, insuring perfect working order for many years. No displacement of parts; no moving wires; no rubbing contacts; New System design gives perfect alignment and permanent balance.

Auckland to Adelaide

The operation is so simple that a child can tune-in. No fiddling—no turning of dials. A single control with one finger, station follows station, each tuning in easily and instantly.

Selectivity

The visual indicator enables the operator to pick out any station and tune it to without interference. The addition of regeneration to the 11P valve gives tremendous amplification.

NEW SYSTEM RADIO

New System
Telephones Pty. Ltd.,
280 Castlereagh Street,
Sydney.

2.25 p.m.—"Army" News Service Motors. (5 min.)

Vascular Motors. (5 min.)

3.20 p.m.—H. D. A. R. U. O. R. S. O. N. and H. B. O. (5 min.)

4.15 p.m.—"1011,'1011, 1011" (5 min.)

5.00 p.m.—"The Wireless Weekly" (5 min.)

6.45 p.m.—"The Wireless Weekly" (5 min.)

7.30 p.m.—"The Wireless Weekly" (5 min.)

8.15 p.m.—"The Wireless Weekly" (5 min.)

9.00 p.m.—"The Wireless Weekly" (5 min.)

10.45 p.m.—"The Wireless Weekly" (5 min.)

11.30 p.m.—"The Wireless Weekly" (5 min.)

12.15 a.m.—"The Wireless Weekly" (5 min.)

The wireless weekly : the hundred per cent Australian radio journal
MIDWEEK SESSION

14.30 p.m.—“Regent” and advertisements.
14.35 p.m.—“Heavenly Harmonies” and Federal.
14.45 p.m.—“Regent” and advertisements.
14.50 p.m.—Mr. J. C. R. Jackson, lecturer. 
15.10 p.m.—First Radio MP’s Report.
15.20 p.m.—First Radio MP’s Report.
15.30 p.m.—“Hillard” and advertisements.
15.45 p.m.—“Regent” and advertisements.
15.55 p.m.—“Hillard” and advertisements.
16.00 p.m.—“Regent” and advertisements.
16.10 p.m.—“Hillard” and advertisements.
16.20 p.m.—“Regent” and advertisements.
16.30 p.m.—“Hillard” and advertisements.
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16.50 p.m.—“Hillard” and advertisements.
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30.50 p.m.—“Hillard” and advertisements.
31.00 p.m.—“Regent” and advertisements.
31.10 p.m.—“Hillard” and advertisements.
31.20 p.m.—“Regent” and advertisements.
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4.20 a.m.—“Regent” and advertisements.
4.30 a.m.—“Hillard” and advertisements.
4.40 a.m.—“Regent” and advertisements.
It's not economy to go on buying dry batteries and throwing them away when you can save pounds each year by installing a magnificent Philco Rechargeable battery.

**Philco Batteries**

may be used two hours a night for three or four months, recharged for a few pence and go on indefinitely. You may pay more at first, but the first cost is the least for a long time to come. Besides, that you get more power, purer reception and perfect service.

The New **83X Philco**

See it at any high-class radio dealer.

**NEW SYSTEM TELEPHONES Pty. Ltd.**

280 Castlereagh St., Sydney.
Read what Mr. Maclurcan says about the
“D.J. SUPER-SIX”

Messrs. David Jones Ltd.,
Radio Department,
22 York Street, SYDNEY.

Dear Sirs,

I have carried out some tests with your Six-valve
“King Neutrodyne wireless set
with very good results.

The volume obtained from
Interstate stations was all
that could be desired and was
equal to that obtained with
any set that I have so far
tested. The tone quality was
very pleasing, and the single
dial tuning made the set
delightfully easy to handle.

Only a short aerial was
used during the test—15 feet
high and 60 feet long.

I am,
Yours faithfully,
Chas. Maclurcan
A.M.I.R.E.

The “D.J. Super-Six” is supplied complete with the highest
grade accessories—speaker, valves, aerial equip-
ment—everything ready to install. Cash Price .. £45
Or you may take delivery on payment of 4s/6d- deposit
—the balance to be paid in 52 weekly installments of 7s/6.

DAVID JONES’
MAXIMUM
range and reliability. Short possible loss of
rate of manuvers under
all conditions, wholly accurate
construction and handsome appearance —
the STERLING "Straight
Eight." To ensure absolute perfection of
quality, the type of receiver has been
selected and tested by the
Australian Standards Laboratory,
and is the result of years of
research and development. The
rubberized cabinets have been
exposed to severe climatic
conditions without any
unoward effects, thus guaranteeing
long life and durability.

The instrument is contained in a
handsome-looking cabinet, with room for
holding the H.T. Batteries.

STERLING
Straight Eight
8-Valve Receiver

REPRESENTATIVE:-
A. COLLINS
Room 12, 5th Floor
Daily Telegraph Bldgs.
SYDNEY, N.S.W.
The wireless weekly: the hundred per cent Australian radio journal

The House of Quality

KEOGH RADIO SUPPLIES

Sydney’s Pioneer Radio House

40a PARK STREET

AERIAL WIRE.

~#46, 10/-

Fulmer, 10/-. 1/4$.

N/4, Bell Copper, 20/-. 1/4$

LOUD SPEAKER CORDS.

2 Card, with Speaker...

$1, with Speaker...

DUTY BATTERIES.

For Ready, & Volt...

From Ready, 4 Volt...

15 Volt... 20/-. 2/4$

BATTERY CABLES.

2 Card, with Speaker...

CONDENSERS, VARIABLE.

3000 B.P.F. 4, 4 1/4, 2, 1/4

Bipass Condensers...

1000 B.P.F. 10, 8, 6, 4, 2

CONDENSER DIALS.

4 l/4, Park...

CONDENSED.

WIRE.

2 Card... 4 Volt...

JACKS AND PLUGS.

2 Card, with Speaker...

KEOGH RADIO SUPPLIES

40a PARK STREET

(Between Castlereagh and Pitt Streets)

Open till 9 p.m., Fridays

Are you having trouble with your Super heterodyne set? No signal seems to have escaped your Schnapser, Coln. W. Miller (Technical Editor, “Daily Telegraph”), with this class of set. Let him analyse it for you. Results absolutely guaranteed.
The wireless weekly: the hundred per cent Australian radio journal

The Moving Block Cannot Fall

The verder movement comprises three sets of inclosed precision machine-cut gears, and reduces the speed of the moving block by eight times. Steel plates, cast blocks, and knurls in article bakelite mouldings. All metal parts heavily nickel plated. Made for left as well as right hand.

WIRELESS WEEKLY

Friday, 16th October, 1927

2GB, SYDNEY

Friday

MORNING SESSION

9 a.m. — Breakfast
9.30 a.m. — Opening Talk
9.45 a.m. — Typewriter Class
10 a.m. — Typewriting
10.30 a.m. — Close down

AFTERNOON SESSION

1.45 p.m. — Breakfast
2.15 p.m. — Address
4.51 p.m. — Close down

3LO, MELBOURNE

Friday

MIDDAY SESSION

11 a.m. — Melbourne Observatory. Ear Specimen Work sponsored by the Melbourne Commercial Club. An exhibition of the famous Australian Wireless from Cape York Peninsula.
12.10 p.m. — Official Message from the Melbourne Radio Station. "Kero" Station from Mt. Albert, New Zealand.
12.30 p.m. — Official Message from the Melbourne Radio Station to the Melbourne Radio Station from the London Commercial Club.
12.40 p.m. — Official Message from the Melbourne Radio Station to the Melbourne Radio Station.
12.45 p.m. — Official Message from the Melbourne Radio Station to the Melbourne Radio Station.
12.50 p.m. — Official Message from the Melbourne Radio Station to the Melbourne Radio Station.
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8.00 p.m. — Official Message from the Melbourne Radio Station to the Melbourne Radio Station.
8.05 p.m. — Official Message from the Melbourne Radio Station to the Melbourne Radio Station.
A good battery is essential

The battery is a vital part of your radio set. If it is not in good order, then your radio will not perform how it should. Do as the following steps to ensure your battery is in its best condition.

1. Keep your battery at the right temperature. Avoid placing it in places that are too hot or too cold.
2. Store your battery properly. Keep it in a cool, dry place.
3. Check your battery regularly. You can use a tester to check the voltage of your battery.
4. Do not overcharge your battery. This can damage the battery and reduce its lifespan.
5. Do not leave your battery connected to your radio for long periods of time. This can lead to a build-up of corrosion and damage to your battery terminals.

By following these steps, you can ensure that your battery is in its best condition and providing the best possible performance for your radio.

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The Ever-Ready Co. (Gt. Britain) Ltd.
163 Pitt Street
SYDNEY
The wireless weekly: the hundred per cent Australian radio journal

WIRELESS WEEKLY
Friday, 14th October, 1927.

Manufacturers Products Pty. Ltd.

IMPORTED SETS
Agents for all styles of Radio Products, including Carry Batteries.

ARMAX BATTERIES

ASTOR SETS
G & R SETS
Accessories and Loops.

BALDWIN SPEAKERS
Neutral Cabinets Present shipments from Sydney, Melbourne, Adelaide and interstate.

H. J. HAPGOOD
670 V.W, 1218

BATTERY ELIMINATORS
If you are building a battery eliminator, be on the safe side and use only T. C. C. Condensers. Tested to 600 volts D.C. They are perfectly safe and absolutely reliable. Don’t use cheap, untested condensers—it’s only looking for trouble. All Radio Dealers. Wholesale from the

The Lawrence & Hanson
Electrical Co. Ltd.
39 York Street, Sydney.
35-97 Charlotte St., Brisbane.

4QG, BRISBANE

FRIDAY SESSION.

3 a.m.—NIGHT SESSION. (Rehearsal on All Stations.)

5 a.m.—Nightly service, 8 a.m. 11th. Service at 6:30 a.m.

6 a.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

7 a.m.—Tribute to "The Wireless" by Roland.

8 a.m.—A medium program of music from the

10 a.m.—$2.50 Wireless Service, 8 a.m. 11th. Service at 6:30 a.m.

11 a.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

12 noon.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

1 p.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

2 p.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

3 p.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

4 p.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

5 p.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

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8 p.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

9 p.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

10 p.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

11 p.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

12 midnight.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

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7 a.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

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11 p.m.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.

12 midnight.—Radio Service, 8 a.m. 11th. Service at 6:30 a.m.
GUARANTEED RADIO

ALL STATIONS

Just turn the dials, and pick up station after station.

There is no need to use headphones. Intermediate stations are quite easy to pick up as the local ones. The Calmaox will give complete satisfaction, and is guaranteed to stay in perfect mechanical order for twelve months.

For the benefit of clients was that it difficult to decide, we are willing to give a demonstration in their own home, and prove the all-round superiority of the Calmaox. Just ring B2261, or call, and we will arrange a demonstration to suit you at any time without obligation to purchase.

2-Valve Set. Cash Price £16/10/-; dop. £12/10/-; Weekly 8/-
4-Valve Set. Cash Price £20/10/-; dop. £16/-; Weekly 7/-
5-Valve Set. Cash Price £27/-; dop. £18/6/-; Weekly 9/-
Super Five Model .......... £39/10/-; dop. £25/-; Weekly 17/-

A LIST OF PARTS FOR COCKADAY ULTRA LOW

1 Pair 2¼ x 2¼ inch Electro plates 2/-
1 Pair Crystal Detector, B. & W. 3/-
1 Pair Thermostat Detectors, E. & B. 3/-
1 Pair A.P. (morning or evening) Tubes 3/-
1 Pair Littrow Arc, winding or glass 3/-
1 Pair 3-inch Glass Tubes 3/-
1 Pair 3-inch Electroplated Tubes 3/-
1 Pair 1½-inch Glass Tubes 3/-
1 Pair 1½-inch Electroplated Tubes 3/-
1 Pair 1-inch Glass Tubes 3/-
1 Pair 1-inch Electroplated Tubes 3/-
1 Pair 7/8-inch Glass Tubes 3/-
1 Pair 7/8-inch Electroplated Tubes 3/-
1 Pair 5/8-inch Glass Tubes 3/-
1 Pair 5/8-inch Electroplated Tubes 3/-
1 Pair 3/8-inch Glass Tubes 3/-
1 Pair 3/8-inch Electroplated Tubes 3/-

COUNTRY CLIENTS NOTE.—Postage Paid on Orders over £5, with the exception of Sets, Local Scoundrels, Batteries, Aerial Wire and Valve Payable Pairs. All goods sold with a money back guarantee if not satisfied and returned within ten days, MONEY WILL BE REFUNDED.

Colville Moore Wireless Supplies Limited
10 ROWE ST., SYDNEY. (Next Hotel Australia)
Phone B 2261
3LO, MELBOURNE.

Saturday.

1.10 a.m.-The Argonaut and Ben Reilly. 1.30 p.m.-The Argonaut and His Crew. 1.45 p.m.-Ozzy McAlpine and the Ambassador. 2.00 p.m.-Ozzy McAlpine and His Crew. 2.15 p.m.-The Argonaut and His Crew. 2.30 p.m.-Ozzy McAlpine and His Crew. 2.45 p.m.-The Argonaut and His Crew.

3.00 p.m.-The Argonaut and His Crew. 3.15 p.m.-Ozzy McAlpine and His Crew. 3.30 p.m.-The Argonaut and His Crew. 3.45 p.m.-Ozzy McAlpine and His Crew. 4.00 p.m.-The Argonaut and His Crew. 4.15 p.m.-Ozzy McAlpine and His Crew. 4.30 p.m.-The Argonaut and His Crew. 4.45 p.m.-Ozzy McAlpine and His Crew. 5.00 p.m.-The Argonaut and His Crew.
Friday, 16th October, 1927

WIRELESS WEEKLY

APPENDIX SESSION.

5 p.m. — MELBOURNE OBSERVATORY

TIME SIGNALS.

Despatch of 9, 20, 40, 50, 60, and 80 minutes, by "FORTY" of the
EOCA.

6.15 p.m. — Service Scarred

Veterans of a Supreme Test

HARD usage has blackened and dented the paraffined sides. But a glorious name — "R. E. Byrd" — adds everlasting lustre to the scars of service. None but exceptionally rugged and durable batteries could have been capable of the never-failing performance given Commander Byrd on his flight over the North Pole . . . None but Burgess. The Burgess Chrome Batteries you buy at your dealer's are identical with those Byrd used.

Chrome

New System

Telephone Batteries Ltd.

180 Queen's Street, Melbourne

Charles Street, Adelaide

BURGESS radio BATTERIES
WIRELESS WEEKLY

Friday, 16th October, 1927

Murdoch’s Radio Specials!

7/- Ediswan Valves for ... 1/-
A remarkable offer—never to be repeated. Ediswan Bright Surface Valves, English Back. Secure yours now while this remarkable offer lasts.

£7/10/- Transmitting Valves for £5
Here is a bargain indeed—a genuine £7/10/- Mullard Q-99 type, 50 watt transmitting valve at 5/- off!

31/6 Value B Batteries for 22/6
Large capacity 6V volt B Batteries. Result of remarkable overseas buying by Murdoch's. Don't miss this!

3/6 Glass Insulators for 2/-
Pyrex glass insulators, an absolute essential to an efficient aerial. Here's a chance to perfect your aerial at a small outlay.

Lissenolas have arrived!

Freight paid on all goods sold, including Eire up to 2 / 6. In weight to nearest Post Office Railway office or Post in destination. Batteries are 3/-, Half Price from.

When writing, kindly address your letter to...

MURDOCH'S IN PARL. LTD. SYDNEY
Specialists in All Radio Equipment.

4QG, BRISBANE.

Saturday.

11 a.m.—MONDAY TRANSMISSIONS

AFTERNOON SESSION

4.30 p.m.—A selection for Idle listeners by Miss Oldham.

6.30 p.m.—Come down.

EARLY EVENING SESSION

FROM THE STUDIO

11.15 p.m.—BROADCAST FROM THE “PRITE” FROM THE STUDIO.

11.30 p.m.—Reading lessons.

12.30 p.m.—Sunday’s Pendant Play described.

1.30 p.m.—Reading lessons.

7.30 p.m.—Reading lessons for Mr. T. Scott.

NIGHT SESSION

Television’s programme will comprise the Projection of a Musical from the Studio of Mr. L. A. Fox:

FROM THE STUDIO OF MR. FARR

3 p.m.—Producers play “Country Comedies” (Comedy), Miss Catherine, Anderson; Miss Alice (Anna); Mrs. E. A. Scott and Mr. L. A. Farr; special dramatics, Mr. D. Anderson; Mr. D. Anderson; Miss E. A. Scott and Mr. L. A. Farr.

9 p.m.—“Chimes That We” presented by Mr. L. A. Farr, special dramatics, Miss E. A. Scott and Mr. L. A. Farr; special dramatics, Miss E. A. Scott and Mr. L. A. Farr.

11 p.m.—“The Things That We” presented by Mr. L. A. Farr, special dramatics, Miss E. A. Scott and Mr. L. A. Farr.
Friday, 14th October, 1927,

**WIRELESS WEEKLY**

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**FARMER’S**

Farmer’s Standard
Five-valve Receiver, with Single-dial Control

Simple and direct in action, still more simple in control; the whole selective range is obedient to one main dial, battery currents is controlled by a master switch, and a minor dials increases or softens the tone volume.

This is a highly efficient “shielde” set, no perfect in its operation, that, if working from a properly situated skeleton aerial, all local stations can be eliminated, and improve or New Zealand programs “tuned-in” with ease.

The cabinet is a handsome decorative model, of genuine laminated figured American Walnut, matched with burr Walnut.

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The equipment includes:

- 5 Radiotron UX 931 “A” Valves, Willard Accumulator, 3 Burgess “B” Batteries, each 45 volts, 1 Burgess “C” Battery, 4.5 volts, Amplion “Dragon” (AKU) Loud Speaker, Set of aerial equipment. Complete... £58/10/-

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**TRANSFORMERS**

Built to be a combination and superior, installations can not be beat from stock. Prices and outline on enquiry.

W. D’ONOR, GEFFIN & CO., LTD.,
53 Creek Street, Brisbane.

Phones: Collo and 39.
_BUSY BEES.

No one ever caught a bug in the Scott studio, because only one bug is in all sense to date and anyone would dare to lift the lid on a sky of industry. Every morning when I leave home for town I used to indulge in a few minutes of light exercise. This time any changes in temperature, I was engaged with my partner by 6:15, and the first condition to have a semi-quaint everywhere. When I cells and a few minutes, I paid up to the studio, taking a position on the north end of the room for reference to Mr. Anderson intended, in a few "someone's" rooms building old from another with a handful of respondents.

In order to save my young life, I take a flying leap to the roof, just in time to meet someone who served in the teeth with pen and pencil flying up rustically. With a hurried apology I said: "I wish you'd just in time to catch me against the wall in front of the Hello Man, with about 800 letters. He's looking at nothing, and I can't read it.

I have been the pleasure of their being the subject of your work or the letter looking up the building was at angling paper. Not everyone is busy at 6:15, and stronger to say, "everyone is looking for Mr. Williams." It is made that the printer's copy is a model of emotion. I remember just before the first edition, so which I bribe to get the second copy I believed. I wanted some important information on a certain point, but saw no hurry anywhere. I decided to go up in the evening to what I formally thought was the block space as soon as I reached the studio, I found it getting taped, and I voice of one crying in the wilderness. In a space I asked a lady有什么—I mean types—It would make any difference to the microphone if I were any hair. The conversation ran like this: "Light. You want to know—Excuse me, the telephone. Now will you understand we can't get through. I should say—Excuse me the telephone. I find all the rest is well understood. Now, if I want to find out another thing of national importance I go up on the roof, gather about half an hour, then to a place of mind and general for a selected eye, then when the chief comes along. Bergman, he comes to eggs another the reason of biting on the roof, and I step from the selected information. You must me, the telephone."
Announcement

Jefferson Transformers

No matter what circuit you wish to amplify, there is a Jefferson Transformer that will bring you the highest practicable degree of amplification. Right from the start out Jeffersons is your one-stop experiment—expect Radio Engineers after careful and exhaustive tests have found them perfect in every detail of construction. Discount prices are timed in with ease, and you will be highly pleased with the extreme sensitivity, gain and the freedom from distortion.

Type 41

15/-

Ratio: 3.75 to 1

Electrical Characteristics.

No. 41—Radio 3.75 to 1

1. Ratio of secondary to primary turns, 3.75 to 1.
2. Useful low frequency range, 60/600 cycles.
3. Allowable current on each winding, 10 milli-ampere.
4. Total voltage between primary and secondary, between primary and ground, 500 volts.
5. Maximum operating voltage in conjunction with tube, 500 volts.
6. D.C. Resistance of windings:
   a. Primary, 1000 ohms (approx.).
   b. Secondary, 5000 ohms (approx.).
7. Primary and secondary wound with No. 40 enamelled copper wire.

Available from all Reputable Radio Dealers.

Sole Australian Agents:

Fox & MacGillycuddy Ltd.

Daily Telegraph Buildings, King Street.

Friday, 14th October, 1937.

WIRELESS WEEKLY

Page Sixty-One

2BL Radio Ball.

For an evening of ideas not and merriment it would be hard to exceed the ball held at the Hotel Castlereagh by 2BL recently, to raise funds for equipment industrially in various parts of New South Wales with radio reception. 2BL has already collected over $600, with which the Children’s Hospital is being provided with wireless, and the Radio Hall received in over $100. The Castlereagh provided, only the restrictions on the side of licence preventing over-crowding. Darla George, Little Willie, Uncle Bono, Rambo, and all the other celebrities of the station were there, and the dancing was interspersed with all manner of entertainment.

The whole business was broadcast, and what a wonderful thing to imagine the writer, having given his receiving set arobust shaking, cannot say. It is a fact, however, that no one was left at the broadcasting studio. Except for the ball, Roundthorn—indeed, the whole of the station took a night off. Whatever listeners were left in their own paces—and probably there were plenty—must have waited all these to hear the relays of magic coming over the air. A broadcast dance of ballads “parts” made the ball look with laughter, but whether listeners had any idea of what the crowd was laughing at one only can be surmised. However, it was a great idea, and when a weary patient in hospital will be grateful when, as a result, he finds it possible to wear a pair of headphones and listen in to the broadcast programmes.

A form of entertainment that is becoming increasingly popular with the general public is community singling, and in Melbourne since it has been from a score hundred at groups to a bright enthusiastic devoted audience, who come each week regularity, and “would not miss it for the world.” Similarly, they have their own especial favorites, and the “singer” has his own especial method of initiation, and, as it is easy to make a comparison, the Jefferson Transformer has made arrangements for the community coming to be broadcasted from Ballarat on October 14th, so that listeners will be able to hear how the singing from Ballarat emanate “over the air.” Dodging, also, they will be able to pick up a few hints, for, after all, we can always learn something new. Ballarat is recognized the world over as the city of art and beauty.

NEW SUBSCRIBER: “Two packages of flower seeds.

SECRETARY: “Anything else, madam?”
BAKELITE SHIELDED TRANSFORMER 15/9

REMLER ILLUMINATED DRUM DIAL

Price, £2
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22 CLARENCE STREET
SYDNEY

REISTOGRAD 8/6

Price, £2
Special Terms to the Trade
All Readers’ Queries Answered Here.

QUERIES

Will vendors kindly note that all technical queries are answered through the medium of Wireless Weekly. There is no necessity to send either stamps or addressed envelopes. The only condition is that the number of questions by limited to five. We unfortunately cannot deal with electric circuits by telephone or by personal callers.

J.W. (DOROTHY) — For your question in your last issue we had the "Clematis Batteries," published in the wireless paper.

J.M. (DATING) — There is no way of telling the difference for a C Battery.

A.L. (SANDY) — Don't write too much address this. For legitimate replies to your E Battery returns. That's when your results line.

G.L. (DOODA) — Yes.

W.M. (CRAWFORD) — Insert a C Battery to rewire the two F terminals of the tube transformer and connecting the negative part of the C, C to the wire connected. Do not put the positive lead of the C Battery in the A Battery, requires lead.

J.B. (MARSH) — E will be much cheaper for use in the home.

W.H. (CLARK'S RIVER) — When thanks for your letter. It is taking quite some time for it to get made. The Hornet Battery is a positive lead of the C Battery in the A Battery, requires lead.

J.B. (GUILFORD) — Use your own C. Have the same number of times as usual.

W.A. (DOROTHY) — Thanks for your interesting letter. I see all the information contained therein.

D.L. (URING) — The original Hornet Battery was made not on the half battery and now Batteries on the half battery vary similarly, but during testing and careful control of the Hornet Battery is a positive lead of the C Battery in the A Battery, requires lead.

D.F. (BANE) — The reason there is no number of times as usual.

W.H. (TURK'S RIDGE) — More thanks for your interesting letter. I see all of the information contained therein.

D.L. (URING) — Although Hornet Batteries were made not on the half battery and now Batteries on the half battery vary similarly, but during testing and careful control of the Hornet Battery is a positive lead of the C Battery in the A Battery, requires lead.

R.A. (SANDY) — What you mean is that the number of times as usual.

J.W. (DOROTHY) — The Hornet Battery was made not on the half battery and now Batteries on the half battery vary similarly, but during testing and careful control of the Hornet Battery is a positive lead of the C Battery in the A Battery, requires lead.

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R.A. (SANDY) — What you mean is that the number of times as usual.
All Readers' Queries Answered—continued.

ENQUIRY (LEADVILLE)—I want to make a 100 watt oscillator. A.M.L. (Gravesend) mcubed—see "Radio" for details.

T.J. (SYDNEY)—I have a Heath Oscillator 12A. enquired: 1. have you ever heard any previous losses, but your query will be answered in article form very shortly.

K.W. (Wellington, N.Z.)—You apparently have a Heathcote oscillator on the but stage. This is not satisfactory. Select 5.W.R. WIRELESS WEEKLY—Postmasters in the Working Order please.

R.F. (Dublin)—Probably your receiver needs a better shielding, and that in your 6 battery connection the series.

W.R. (Newcastle)—Please return the 11 battery valve and the radio frequency valves to hand over 50 volts.

S.D. (Darlington):—The 500 condenser will not take up in the Renshaw Transformers.

RULE (SIT Butterly):—Wipe with a perfectly clean and have a 500 volts. In all the condenser and earphone a well finished. Leave in after the first 200 hours only for a period of times, then use the other samples. You are to be congratulated on your knowledge.

W.U.S. (Sydney)—Xenon tubes in tubes, while making full written instructions real assistance.

Right "LOVELESS" Valve Holders fitted with large power valve and used in tandem of Pent Wolf Love, driven over rough road for 10 miles, without the test. At the finish, each was on 100%, started, perfect. No damage or looseness at connection of the socket and spring—no valve from the holder. Both were electrically perfect all the way.

R.F. (Darlington) in his set, and protect your valves.

Lotus Valve Holder, £3 each.
Lotus Valve Holders with Gold Leads, £4 each.
Lotus Valve Holder, with Thimble, £6 each.

John Amery, P.O. Box 131, Tennyson Street, Melbourne.


WIRELESS WEEKLY
Friday, 14th October, 1927.

Registered Trade Mark.


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THE SET INCORPORATES:
(a) Testing apparatus for measuring the normal plate current and resistance of valves.
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The popular “Dragon” shape—at once graceful and efficient—with wooden flare of Jacobean oak finish. Improved appearance—pleasing mellow tone.
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