WIRELESS WEEKLY

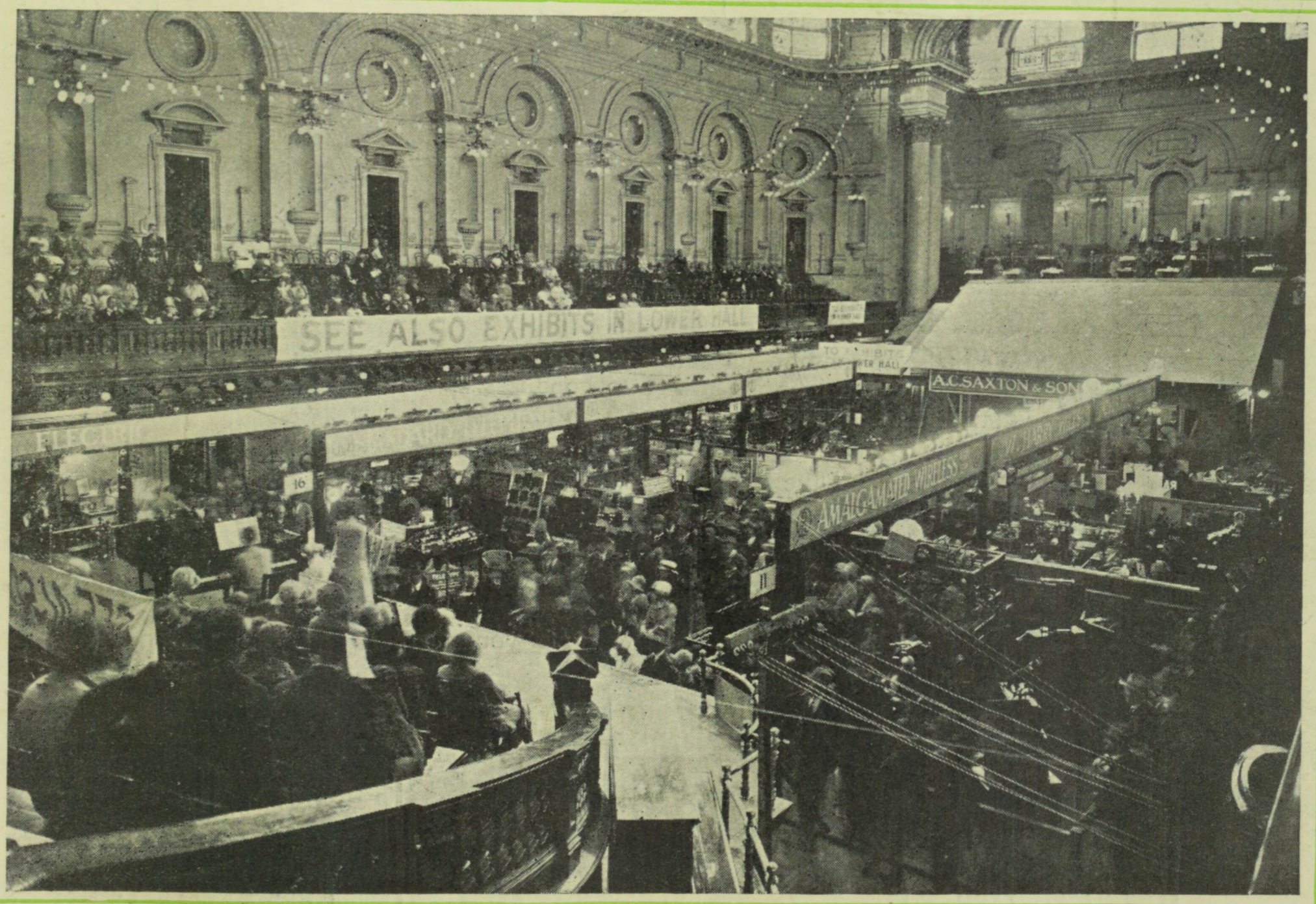
MITCHELL LIBRARY
12 APR 1928
SYDNEY.

Broadcast Programmes a Week in advance

VOLUME 11

Registered at the G.P.O., Sydney, for transmission by post as a Newspaper.

NUMBER 24

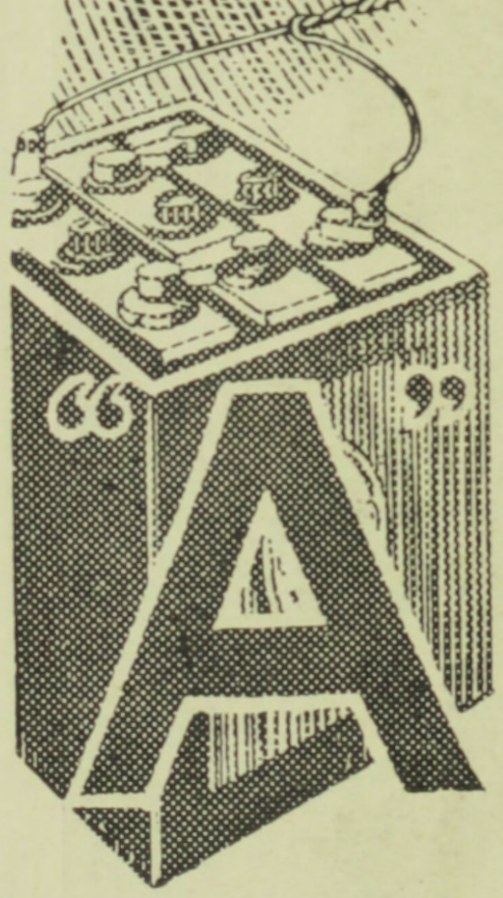


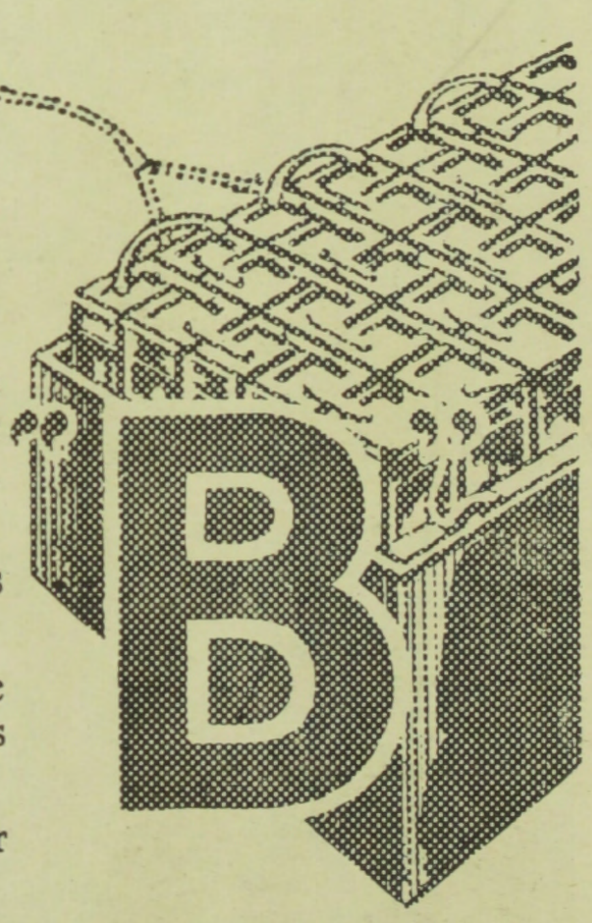
Friday, April 6, 1928

Price Threepence

Philips Introduce—

A COMBINED "A" & "B" ACCUMULATOR CHARGER





AND now comes still another Philips Battery Charger—this time to aid the man who has both accumulator "A" and "B" Batteries.

We make no sensational claims for the No. 1009, but merely say that it is an honest to goodness Charger that will keep both accumulators in first-class trim, —year in, year out.

Of course all the features of the by-now famous "FOUR-FIFTY" are incorporated.

A unique switching device, by which at a turn of the wrist, "A" or "B" battery is charged at will, lends simplicity to its other sterling qua ities.

Let your nearest Radio Dealer give you further ticulars.

SOLD BY EVERY RADIO DEALER

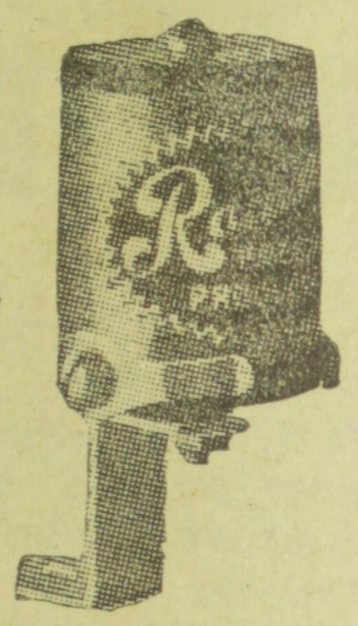
PHILIPS

RADIO APPARATUS

The Popularity of the

RADIOKES QUALITY LINE

has been proved quite beyond our expectations.



R. F Chokes, 8/6 each

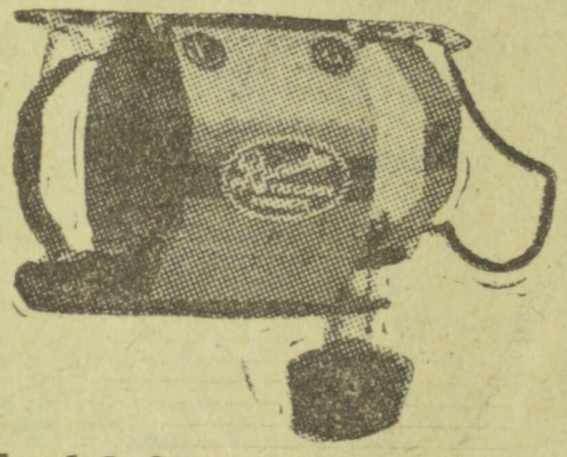
RADIOKES policy of keeping in direct touch with their customers has created a unique goodwill among Radio Fans.

RADIOKES sell you a service in addition to their products. and guarantee you satisfaction.

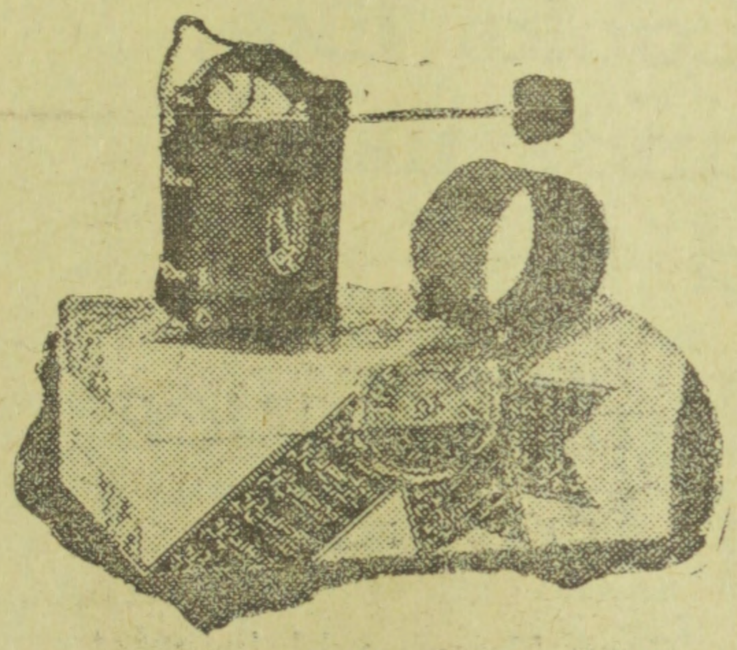
Most of all the Radio Fans of consequence visited us during the Exhibition to tell us of the excellent results they are getting from the use of our products.

RADIOKES users are truly "Happy Radio Fans."

Amperite 6/9 each



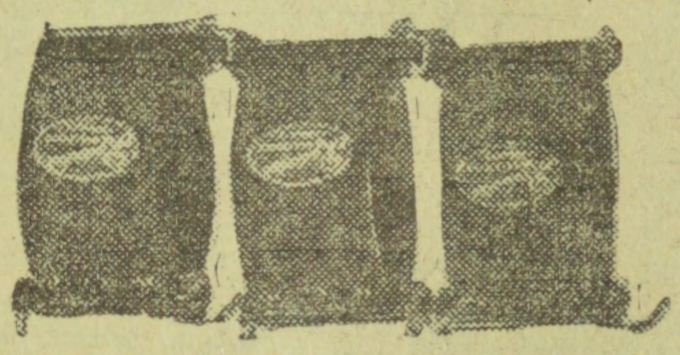
Standard 3 Circuit Tuner, 14/6 ea.



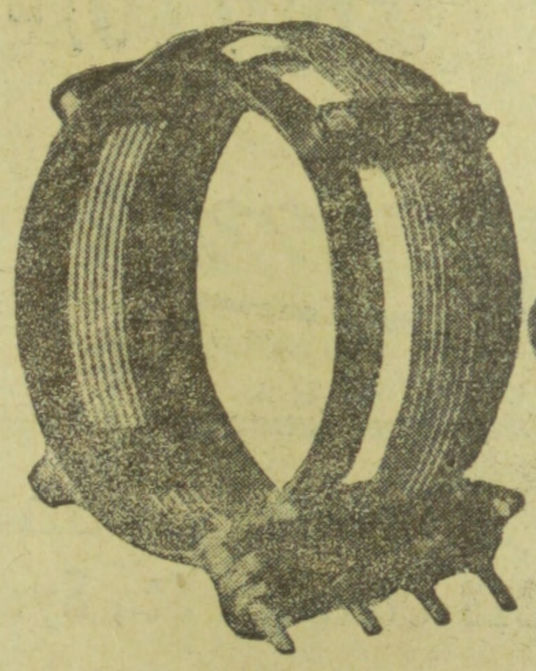
Ever Popular Browning Drake £2 per Kit.

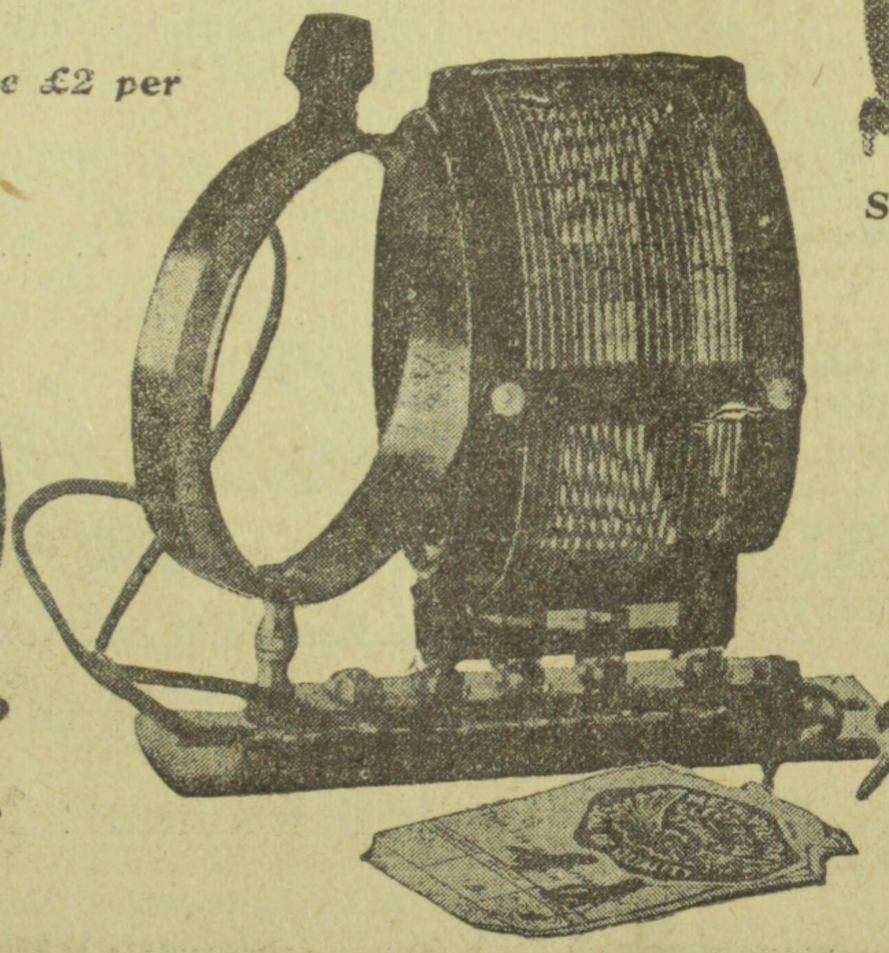
Metropolitan Electric Co. Ltd.

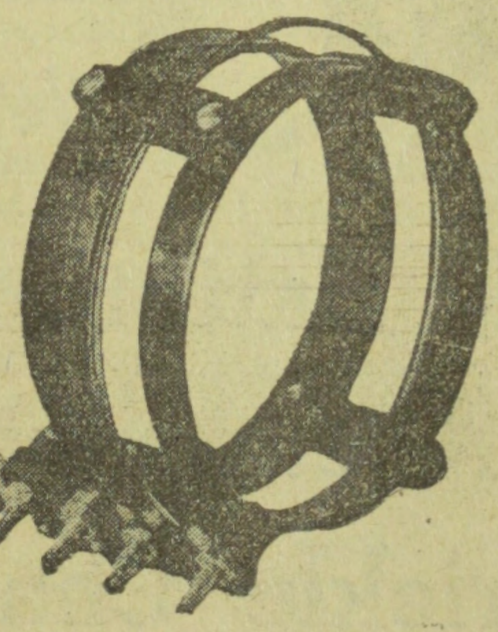
27-29 King Street, Sydney.



Standard Neutrodyne £1/12/6

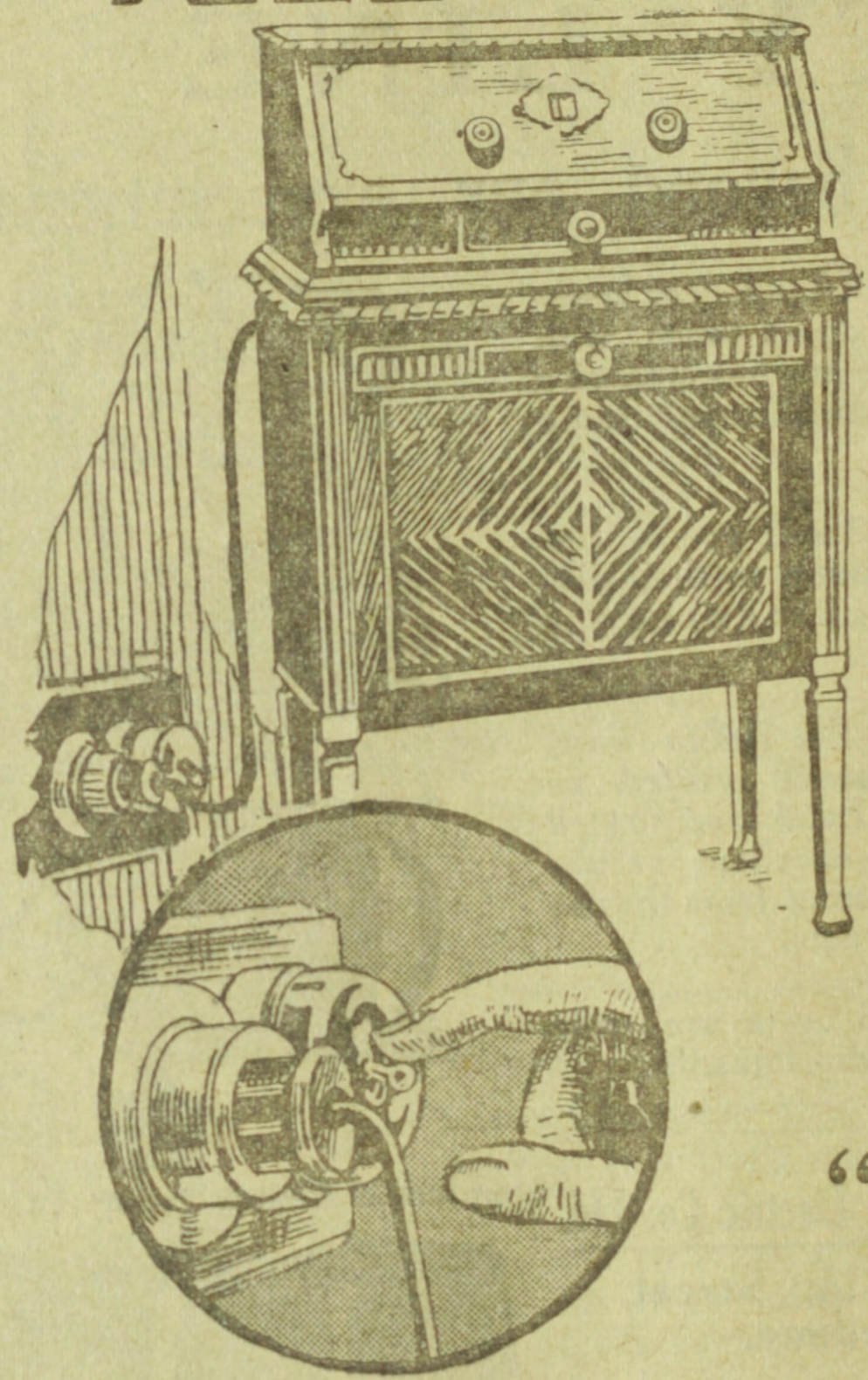






This year's greatest favourite range 15-130 metres, 55/- per kit

The ALL ELECTRIC!



GILFILLAN CONSOLE

Batteryless Radio! YOU JUST PLUG INTO THE LIGHT SOCKET AND SNAP ON THE SWITCH. Its efficiency, its beautiful appearance, are such as to raise this set definitely above the level of present day receivers.

It Looks like,
Sounds like—
and IS

"The Rolls-Royce of Radio"

Our attractive Easy Terms will interest you—Send for Details.

Cash price with all accessories including Loud Speaker. **£69/10/-**

NO Wet or Dry

Batteries
Accumulators
Trickle Chargers

Harrington's LTD

"Goodwill built on Public Confidence since 1889."

386 George Street, Sydney

Wholesale Warehouse: 213 Clarence St., Sydney

Also at: Katoomba, Newcastle, Melbourne, Brisbane, Adelaide, Wellington (N.Z.), Auckland (N.Z.).

WIRELESS WEEKLY

VOL. 11. No. 24.

FRIDAY, 6th APRIL, 1928.

A Foolish Idea Squelched.

HOPE seems to spring eternal in Mr. Fenton's breast. Mr. Fenton is the member for Maribyrnong, in the Federal House, and he has a vision of a new Heaven and a new earth that are to arise when once he succeeds in getting broadcasting out of the hands of private companies and into those of the Government.

He cannot point to a single scccessful attempt by Government agency to run business. He has recently been confronted by abject failure in the shipping venture. Other Government adventures have come to grief, yet he believes that the highly technical and specialised matter of broadcasting entertainment should be taken out of the hands that have admittedly made a success of it and handed over a Government Department that would have to learn all about it with trouble to themselves and expense to the country.

He gave his reasons for this quaint ambition. He said that it hurt him to think that the money from licenses should not go to the Government itself. He pointed out that the private companies were making profits the Government should have. Finally, he warned the P.M.G. (Mr. Gibson) and the country generally that the companies were tending towards the creation of a huge monopoly that would be a menace to the country.

"Menace" is a bogey word with which the Mr. Fentons of the day seek to frighten people. "Monopoly" is another such bogey. Granted that it would be bad for broadcasting to be in the hands of a single authority, uncontrolled, as Mr. Fenton suggests. Why, therefore, is he arguing for just this result? Would the thing be a monopoly any the less because a political party ran it? As things are, the Government is always in control of broadcasting, whether it is run by many stations or few. Let us suppose that for the sake of enduring good service throughout the continent by means that even ran to amalgamation! What could they do that the Government could not immediately undo. Let us suppose the Government ran the broadcasting! What controls the Government in the event of bad or vicious service? Why should not the party in power use the entire radio activities of Australia in their own interests? Who is to say them nay? Suppose the Government Department decreed a political address every hour. Who could effectively protest? People would refuse to renew their licenses, but would the Government care? It could afford to run at a loss. One hand would wash the other; Peter would be robbed to pay Paul. Under existing circumstances, a big falling off of licenses would indicate such a grave deterioration of service that the Government could use its weight and demand improvement. The people are safeguarded by the present system as they could be in no other way. Experience tells us that Government business is not less, but more expensive than private enterprise. Those who look for a decrease in fees by means of Governmental broadcasting are optimistic.

It is useless to labor the theme. The P.M.G. was quick to tell Mr. Fenton and his friends that their idea was fantastic and that the private companies were supplying a good service that was quite efficiently and sufficiently controlled. There ended the latest, but not the last, attempt to impair the value of broadcast entertainment, under the guise of killing a "monopoly."

Catching Up with the Wireless World.

By R. E. CORDER.

A BRUSSELS SCIENTIST considers that migratory birds are guided by the same electro-magnetic waves as are employed for broadcasting. This suggests a reason why the start of the B.B.C. winter programmes coincides with the flight of the birds from that country.

"CYMANFA GANU": How many of our readers can tell us what "cymanfa ganu" means? Only Welshmen would be familiar with it. It means "community singing," which has been known in Wales for many generations, where it usually takes the form of sacred singing festivals going on for a whole day, with intervals of preaching.

WE WOULD LIKE TO KNOW if those listeners who are all too ready to criticise broadcasting programmes have ever tried to build one? The way of the studio manager is fraught with difficulty, but it is heartening letters such as this which spurs him on to greater efforts:

"Sir,—You are just finding how to handle that broadcasting station. Very good programmes for the week-end—and it was 'bosker' last night. Carry on, Old Timers—Good Luck!"

Mr. H. P. Williams, publicity manager of 2FC, forwarded the above letter with brief but characteristic comment: "Thus do we stand—or fall!"

LESLIE ELLIOTT, irrepressible comedienne and general favorite with 2FC listeners, writes in her usual breezy style from London:

"Hello all at 2FC!—I had a wonderful time in South Africa, and since I came Home, I've been working in vaudeville, so alas! I can't broadcast. The weather has been awful! It certainly is some climate. I've been away from it so long, I am only just beginning to realise what "Sunny" New South Wales really means—despite Mr. Mares' wet week-ends. It will surprise you to hear that I may be coming back to Australia soon, with new songs—and they're all very "good"! It is enough! Cheerio, good friends.—Leslie Elliott."

EXTRACT FROM AN ENGLISH RADIO MAGAZINE: "Startling reduction in Wonder Wireless Valves. Only 3/6 each, take 2 volts on filament, amplification factor 40, and only takes .0 amps." We regret to announce that there are no such valves in Australia.

A MACHINE TO RECORD BROADCAST PROGRAMMES.

Radio programmes may be literally "put on the wire" by means of a device which records sounds permanently on a threadlike wire; the sounds may be reproduced with the aid of a radio amplifier and an ordinary loud speaker.

"OH! I SAY, OLD TOP!" came a gentleman's voice over the telephone, "that wireless set I bought off you some years ago, has been doing well, don't you know, but the giddy aerial has parted with the lead-in. I suppose you'll send a man to fix it immediately—without charge?" "You've got the wrong number, sir," said the radio salesman, "this isn't the N.R.M.A.!"

INTERNATIONAL RADIO.

No doubt, you have heard 2XAD and 2XAF, relayed from a local station, or perhaps direct, but what, perhaps, you have not heard about is the amazing amount of experiment which has made these famous short-wave stations what they are. In the March "RADIO," Martin P. Rice, manager of Broadcasting for the General Electric Co. of America, which conducts both 2XAF and 2XAD, publishes a paper, written exclusively for "RADIO," in which he details the result of the company's short-wave experiments, and announces the discovery of the ideal wavelength for international broadcasting.

IT IS SAID that the installation of wireless in hospitals has helped a lot in the healing of patients. The average length of time a patient is confined to hospital has now been decreased by one week. Commenting on this, an unkind critic of the programmes said "No wonder."

WE HAD a communciation from a strange correspondent this week. "Jacky," the 2FC kookaburra, takes dignified umbrage at 3LO Jacko's claim that he was the first bird to be heard on the air. He says:

My Dear "Jacko,"—Permit me to congratulate you on your photograph. It is a very good likeness. I would like to emphasise this point. But what I mean to say is, why should you have your photo. in the paper when I was the first kookaburra to broadcast?

I REMEMBER it so well—it isn't likely I could make a mistake. They brought me in to 2FC Studio one night, and we had a competition. One of the humans laughed first, and although it was very good, I thought I had better show him how it was done. Then when he remained quiet, I laughed again, just to encourage him. And so it went on. I found out afterwards the listeners had to write in and say which was the human and which was me.

I HAVEN'T A JEALOUS feather in my body, but when I read: "For the FIRST time in Australian broadcasting history, we are being favored with an item from one of our feathered friends," I was very angry indeed. Not only was I the first to broadcast, but when 2LO, London, relayed the second Empire programme by 2FC, I read with pardonable pride my laugh "was heard throughout the British Isles."

I WOULD like you to be quite clear that it is not professional jealousy which prompts me to write to you. I am quite sure, as one kookaburra to another, you will deplore this inaccuracy, even as I do.—"Jacky" at 2FC.

Empire Broadcasting in Australia

By H. A. Hankey.

The Secretary of the Overseas Branch of the Listeners' League of Great Britain, here records his impressions of his recent visit to Australia.

DURING my sojourn in Australia, a little under two months, visiting the capital cities and investigating local conditions in connection with the above, I have had to readjust my views in so far as Public Subscribers to the Empire Broadcasting League are concerned. It is very evident, after protracted discussions with broadcasting authorities in the various states, that the public is not in a mood to subscribe to any Radio League or Association, or, indeed, to the authorities, unless such subscription is made part of the general Licence Fee with the promise of an additional service for a slight increase in the amount.

It is difficult to account for this attitude, unless it is that they do not wish to be bothered with the formalities attendant upon joining another institution as it were. This feeling would appear to be enhanced when there is no concrete promise of a return for the trouble involved in the case of an inclusive subscription to the Commonwealth, the attitude seems to be different, as direct action would have to be taken after the commitment had been made, say by earmarking a small proportion of the general Licence Fee, or slightly increasing the amount paid.

On more than one occasion it has been suggested that the apparent lethargic attitude on the part of the general public to subscribe to any form of annual subscription may be due to the free manner in which money is spent on more tangible pleasures, even to the extent of obtaining abnormal credits, thus depleting the domestic exchequer so greatly as to place Associations, Clubs, etc., out of bounds. Of course, this can only be taken in a general way, but it quite possibly indicates that the pursuit of pleasure tends to prevent interest being taken in anything which involves even slight trouble in the shape of formalities. Be that as it may, the fact remains that a subscription of only 5/ (and less would not suffice to cover overhead exes.) would not be forthcoming, excepting from a handful of enthusiasts, and rather than risk certain failure, it was decided not to issue Brochures to the Public.

Australia is a great country, and I am more than ever convinced that she should be linked up with England by a permanent and regular system of Empire Broadcasting. The present arrangement of separate State working, so far as Empire Broadcasting is concerned, is to my mind, not ideal, and I venture to suggest that a Federal station of ample power should be erected in or about Canberra, which could, in addition to being locally operated, be served from the capital cities by landline, which might imply the use of superimposed high frequency currents (wired wireless) over the ordinary G.P.O. system. It was proposed by one authority that the capital outlay could be met by appropriating or adding sixpence to each Licence Fee, and this suggestion was seconded by another authority in another State, who was qualified to make a proposal. Personally, it is considered that the amount per person would be negligible and yet give the requisite fillip to the project, I suggest that the maintenance charges could subsequently be met by this amount, plus a revenue derived from Imperial organisation, and agents having the use of the Service for propaganda purposes daily, such as (a) The Federation of British Industries; (b) The Migration Commission. (c) The Empire Marketing Board; (d) The Empire League; (e) The Air League; (f) The Royal Colonial Institute; (g) The Overseas League, etc., etc., and Press Offices.

In Great Britain an appropriation of only 3d. per Licence would be sufficient to provide for an Empire Broadcasting Station, which, apart from giving reciprocal programmes to various parts of the Empire (which might be provided gratis by the British Broadcasting Corporation) should be able to obtain revenue from such Imperial bodies as I have already mentioned herein.

It should be borne in mind that a method of recording can easily be provided should a Speech or similar, not coincide with suitable reception hours, and such a record can be transmitted several hours after the event has actually taken place, or, indeed, at any subsequent period. What I and other authorities with whom I have come into contact, consider to be a "live" proposition, and which I have had in mind for some considerable time, is the utilisation of the existing Dominions and Colonial programmes to the best advantage (observing the apparent reluctance of the British Broadcasting Corporation to consider breaking in upon their programmes) is to operate a special receiving station outside London, and say, Manchester and Glasgow, putting to Line on the Group System, at regular hours daily, such material as is transmitted from Empire Stations. The terminals would be at, say, (a) Australia House; (b) the various State Offices; (c) New Zealand Offices; (d) Canada House; (e) Kenya Office; (f) Union of South Africa Office; (g) Overseas Clubs, etc., etc., and Press Offices.

The Terminal Reception placed would only require a straight Low Frequency Amplifier and Loud Speaker, and thus it would be possible to take full advantage of all Empire transmissions. It is considered that the Group System, over short land lines, operated by skilled personnel and allowing for various aerial systems, would be superior to direct reception at the various offices, clubs, etc., where extremely sensitive apparatus would have to be employed with the probability of local interference and abnormal fading, etc. Of course, an annual service and maintenance charge would have to be met by an inclusive annual fee from each terminal.

With regard to my reception generally in the Antipodes, I have found Australians fully aware of the great difficulties which have confronted us in Great Britain in getting the authorities in the Homeland to make a start in Imperial Broadcasting. They recognise that the provision of alternative programmes over the whole of the British Isles is, for obvious reasons, a primary consideration of the British Broadcasting Corporation. The Authorities in Australia, however, are quite willing to co-operate with the Wireless League, recognising that the consolidation of effort should make it possible to link with the various outposts of Empire in an Imperial scheme of Broadcasting, Australia has nothing to learn in the matter of Home broadcasting, as she has not only developed every phase of entertainment, but in some instances has outstripped many countries in the fullest use of the utilitarian side of wireless. The Commonwealth is therefore ripe to extend her efforts to Imperial Broadcasting, by the regular interchange of reciprocal programmes, and if the Homeland is willing to take a long view and extend her efforts in this direction, the Commonwealth of Australia will not be found wanting in keeping step in the march of progress. Time after time I have had it impressed upon me that the Country is 98 per cent. British, and there is a strong feeling that, to date, Australia has given far more than she has received in Imperial Programmes, by which it is to be understood that I am referring to "live" matters of interest, and not necessarily to a monotonous repetition of musical numbers.

Coming 2FC Programmes

Jill Manners, soprano, in the programmes at 2FC.

JACK CANNOT is off on tour with the Tip Toes Company, but before his departure he cherished the desire to do a little broadcasting. "Not entirely in my usual capacity," he confided to Mr. Anderson, manager of 2FC, with a smile. "I'd like to do some 'straight stuff,' just for a change." Mr. Cannot has earned such a reputation as comedian, it is not generally known he is the possessor of a very fine baritone, and numbers the Prologue from "Pagliacci" in his extensive repertoire. On Monday night, 2nd April, he appeared at the Town Hall, on the occasion of the welcome to the "Waratahs," and his farewell appearance is set down from the Studio on Monday, 9th April.

"MY GROUCH AGAINST 2FC": Rev. F. H. Raward is going to come right out in the open and air all his grievances. Possibly there are listeners who will appreciate the chance of comparing notes. On Tuesday, 10th April, he will quite frankly grumble for the space of fifteen minutes, after wich the broadcasting atmosphere will doubtless clear considerably.

CHARLES O'MARA, popular Irish entertainer, is back in town, and will appear at 2FC for a short season. On Easter Saturday night listeners will be entertained with his drolleries, redolent of the peat smoke of "Ould Ireland."

ROYAL SYDNEY APOLLO CLUB will be broadcast by 2FC in a well-chosen and attractive programme from the Conservatorium on Wednesday, 11th April.

IN CONNECTION with the Teachers' Conference, Lindley Evans will give a lecture-recital from King's Hall on Tuesday, 10th April, and Mr. H. F. Treharne, conductor of School Choirs, will direct an all choral programme.

"THE GREAT BARRIER REEF": Elliott Napier, who has been conducting an interesting series of articles on "The Great Barrier Reef," will give his first talk on this absorbing subject from 2FC on Tuesday night, 10th April.

"THE CRUCIFIXION," one of Sir John Stainer's best-known works, will be rendered by the choir of St. Mark's Church, Darling Point, on Good Friday evening, and will be broadcast by 2FC. Sir John Stainer was one of the greatest English composers of church music in the Victorian era, and for a long period was organist at Westminster Abbey.

THE CAPITOL THEATRE: On Easter Saturday night 2FC will devote the early part of the evening programme to the new Capitol Theatre. Between 7.30 and 7.45 a description of the magnificent interior will be given, and then the announcer will describe from the roof of the theatre the street scene below, with the vivid atmosphere of surging cars and clanging trams, all converging towards the one spot. From 8 p.m. the prologue and incidental music to the first release—"His Lady"—will be broadcast.

2FC—Coming Features of the Week

Talks

SATURDAY, 7th APRIL:
- 11 a.m.—Gardening talk by J. G. Lockley.
- 4.40 p.m.—Resume of the day's racing.
- 7.30 p.m.—Description of the CAPITOL THEATRE.

SUNDAY, 8th APRIL:
- 6.5 p.m.—CAPTAIN FRED AARONS: "Humors of History."

MONDAY, 9th APRIL:
- 4.40 p.m.—Resume of the day's racing.
- 8.30 p.m.—HENRY SILVER: "Graphology."

TUESDAY, 10th APRIL:
- 10.30 a.m.—Opening of Music Teachers' Conference at King's Hall. Addresses by the Hon. the Premier and Frank Hutchens.
- 8.45 p.m.—REV. F. H. RAWARD: "My Grouch against 2FC."
- 9.48 p.m.—ELLIOTT NAPIER: "The Great Barrier Reef."

WEDNESDAY, 11th APRIL:
- 9.5 p.m.—J. H. FAY: "Endurance feats at Olympia."
- 7.45 p.m.—DR. HARVEY SUTTON: "Adult Education."

FRIDAY, 13th APRIL:
- 7.30 p.m.—W. F. KAY: "A stranded Actor."

Music, &c.

GOOD FRIDAY, 6th APRIL:
- 7 p.m.—"STAINER'S CRUCIFIXION" from St. Mark's Church.
- 8.47 p.m.—HENRY PENN, pianoforte recital.

SATURDAY, 7th APRIL:
- 8 p.m.—Prologue and incidental music to the first release from the CAPITOL THEATRE—"His Lady."

SUNDAY, 8th APRIL:
- 11 a.m.—Divine Service from St. Andrew's Cathedral.
- 3 p.m.—TONGAN CHOIR from Lyceum. Conductor, Rev. A. H. Wood, M.A., B.D.
- 7 p.m.—Divine Service from Pitt Street Congregational Church.
- 6,20 p.m.—Organ recital by LILIAN FROST.
- 8.30 p.m.—RANDWICK BAND from the Rotunda, Coogee Beach.
- 9.30 p.m.—PETER GAWTHORNE, English baritone.

MONDAY, 9th APRIL:
- 8.30 p.m.—2FC STUDIO ORCHESTRA.
- 8.45 p.m.—JACK CANNOT, in song and story.
- Vocal selections from the "GIRLS OF GOTTENBURG," by the Kuringai Operatic Society.

TUESDAY, 10th APRIL:
- 7.35 p.m.—TEACHERS' CONFERENCE, KING'S HALL: Lecture recital by LINDLEY EVANS, pianist. H. F. TREHARNE, conductor of school choirs will direct a choral programme.

WEDNESDY, 11th APRIL:
- 8.5 p.m.—FROM CONSERVATORIUM: ROYAL APOLLO CLUB. Choral programme.

THURSDAY, 12th APRIL:
- 9.4 p.m.—ERNEST McKINLAY, tenor.
- 8 p.m.—FROM KING'S HALL: Intrumental Trio. Lional Lawson, Henry Penn, and Gladstone Bell.

The Safety Valve

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

A WOMAN'S VIEW.

Dear Sir,—Seeing many letters on the "Safety Valve" page, may I add another to the list, re Sunday Programmes.

Being a woman, I suppose the Church services appeal to me more than to the men listeners, but I do hope our Broadcasting Stations see their way to continue with their present programmes and not to change them for Jazz, comic songs, etc. (week day programmes) on Sundays. The world at large at the present time, is for downing church and all things sacred—in fact, the young generation as a whole indicate it, so lets hope the wireless of our great country will still continue in the good example they have set by putting on programmes suitable to the spending of Sunday, and not change them to suit a few who put the world first, second and third.

Thanking you for your valued space.

Yours, etc.,

E.J.O.

Gilgandra.

WHO THE ——!

Dear Sir,—Herewith another letter of protest anent the continual broadcasting of those inexpressibly dreary church services. Now that there is a reapproachment between the two A class stations, surely it could be turn about to broadcast the religious propaganda. We have heard a lot of the referendum in which church relays may or may not have topped the list. Let us be straightforward about this business. Neither 2BL, 2FC or other Australian A class stations are in the business for their health. Sunday services are a cheap and nasty proposition. In any case, why should the great majority of Radio fans who like in or adjacent to the cities, be sacrificed because a few residents of the back of nowhere desire church services on the air.

Speaking of the services generally, some of the hymns are tolerable, but great snakes, those sermons! B. Boydel says that 90 per cent. of the invalids like church services. Well, all I can say, is that that is probably why they are invalids. Who the blazes wants jazz, anyway? What we do want is some splendid music like Madame Greigs Trio, The Arcadia Broadcast, 2BL Trio, 2FC Orchestra, etc., and not for one hour, but regular sessions all day Sunday. Apropos of this, it might be mentioned that we could do with some more during the week.

Too much needless repetition of news, etc., also cause most listeners to shut up shop. But above and beyond all those awful talks on any and every conceivable subject. Personally, the only one I consider worth listening to is Mr. Locksley (Red Gum), Go-Getters for Red Cross activities, politicians and other "public men" should be strictly warned off for life. Of the hundreds of listeners, I am acquainted with only a very few, indeed, who ever tune in to a talk. While I am on a grouch, why oh why, does not that awful barber cut his own throat. His thinly veiled anti-labor propaganda is surely over the odds. And while he is about it, why not slay the ridiculous "Mike." It should be easy. Of course, it is impossible to please every radio fan, but I am convinced that the great majority are not studied as well as is possible. I could find many other avenues of complaint, but as the screed will probably get enough "goats" as it is, I will quit.

Yours, etc.,

EAROF.

Toongabbie.

UNDESIRABLE.

Dear Sir,—Re your correspondent Spencer Moon's plea for justice, may I ask who has been less just and intolerant than organised Sectarianism in the past, and if present day feeling among the sects is any forecast of the future it is time that a plea for justice was voiced on behalf of the normal and sane reasoning section of the community.

Hoping that this may arouse the able pen of some fair-minded person, thus putting an end to an undesirable form of publicity.

Yours, etc.,

W. B. DEMPSTER,

Greenwich.

SELFISH SPIRIT.

Dear Sir,—With reference to the subject of Sunday programmes, some of the writers to my mind, show a very selfish spirit.

I was very pleased to see the interest taken by your paper some time ago, in this question, in the holding of a ballot, the results of which should tell readers the taste of the majority.

There are six nights a week devoted to secular music and entertainment, and corresponding day-time programmes, while some people complain because three hours of Sunday are given up to sacred music, while they have one and a half hours.

The approximate estimate, on a very conservative estimate of an average week's programme, is thirty-six hours of secular music, and three hours of sacred music, excluding news, markets, etc.

Surely this should give no cause for complaint to the secularists, who should remember, especially in the light of the ballot results recently, that there are some who do appreciate the sacred music.

Those who write blasphemy, and complain bitterly of having to listen to church services, do not apparently consider that anyone else has any right to their choice.

In connection with my profession, I know numbers of listeners, mostly in the country, and unable to attend local services, who have very little interest in week night programmes, but who always tune into and follow every church service. They say that if sacred broadcasting was discontinued, their Radio's would be of little further use.

These are not in the majority, but the majoriy about 80 per cent. do look forward to the church services. Surely these people who prefer church music have a right to their share.

I would like to register my appreciation of the excellent programmes submitted by the broadcasters, and to urge them to continue the good work of giving the pleasure of church services to those unable to attend.

Thanking you for your valuable space, and wishing your paper every success.

Yours etc.,

GEO. W. HAM.

The Safety Valve—continued.

R10 RECEPTION.

"Dear Sir,—May be of interest to your engineers and Mr. Burbury in particular, who no doubt likes to be aware of local skip distances with climatic variations. A week or so ago your 7 p.m. 28.5 metre transmissions were only about R1 or R2, going right to inaudibility as darkness advanced.

"To-day when you put your 28.5 transmitter into action before the 4QG Hinkler stunt I could tell there was going to be something doing—and there was. Perfect reception R10 right through till 5 p.m. or when you shut down—much louder and clearer than the 442 M stuff. Could not hear the 4QG stuff on 442M account local QRM—28.5M right through it with no interference bar one X-ray machine that got going for one minute just as Hinkler was about to land, but even this did not stop her. Volume from a 4 valve Reinartz S.W. (3 audios) deafening but clear.

"Now do try and give us important events on dual—daytime—a little more length, say 30 or 32 metres, would be better for here.

Thanking you.

Yours faithfully,
OLIVER BROS.

Gunnedah.

WHY NOT FILADYNE?

Dear Sir,—Mr. Hilton Saunders' letter stating his reception on 3 valve Reinartz is no doubt an eye-opener to some of our 6 valve friends. His aerial, 63ft. high, position 275 miles from 2FC, 2BL and 2GB, is a considerable advantage over city dwellers, and with his conditions, I suggest to him that he scrap his 3 valve Reinartz, as he is running one valve too many, and substitute a Filadyne, as published in "Wireless Weekly."

I have used this circuit for over 2 years, and I am convinced that he will get as good results on detector and one audio as on three valves or any other circuit.

I use an Osram D.E. 2 L.F. as detector and P.M.4 audio. This may seem a peculiar combination, a 2 and 4 volt valve, but using a 4 volt accumulator 30 ohms rheostat it works well, as there is a drop in detector circuit as the filament current passes through the coils.

The following are results to be got any night, winter or summer:

Loud speaker.—4QG, 3LO, 3AR and B class N.S.W. stations.

Headphones.—5CL, 5DN, 5KA, 7ZL, 1YA (and 3EF, Sundays only).

Yours, etc.,
W.L.H.

Woollahra.

TONE PURITY.

Dear Sir,—In reference to Mr. Hilton Saunder's letter ("Wireless Weekly," 17/2/28), in which he says a few words regarding a three-tube set of novel lay-out, and in which he incidentally backs it against Mr. Ward's two-valve Elstreflex, or the Harkness Two or any other two-valver ever built.

That shows a sporting spirit at least, but what is he going to back it for? If for volume, well—he would be pretty safe, but if for purity of tone (of which he says nothing whatever), I am on a safe bet when I say he would lose badly.

He says that his set can be heard nightly at the other end of the town, 500 yards away (mark carefully the distance). Now how in the name of radio can a set that can be heard over a quarter of a mile away, be anything but raucous? No valve or speaker in common use could possibly carry that volume with anything like purity. It looks mighty like interaction and stray regeneration, of a very deadly sort, that is the "secret" of this "wonderful" performance.

He may possibly win on the score of picking up one or two extremely distant stations. Logging JOCK or KZRM may be all very nice to "blow" about to your fellow workers next morning, but when all is said and done, how much really first-class entertainment can one get from trying to listen to Japan or Manilla, from such a distant situation, as any southern own in Australia?

It is astonishing how many radio fans still want utmost volume. It would be well to remember at all times that a contrivance with a few valves making hideous noises in the name of "great volume" to the annoyance of the neighbors for a quarter of a mile around, is most emphatically not a real radio set.

Nowadays the prime consideration in any radio set should be purity of tone. If all radio sets in operation today possessed this quality, it would not be long before 80 per cent. of the people would be radio fans. But, it is a significant fact that a great number of people will tell you that they would just as soon walk away from a radio set as stay to listen to it. And no wonder, when one notices the many blaring contrivances that are to be heard nightly in almost any street one cares to stroll along.

First-class tone, with sufficient volume to fill a large room and be nicely audible in any part of the house, is all that the most fastidious should require. And this is what the Harkness Two and the Elstreflex are capable of doing. I built both sets; and, while the Elstreflex was rather a remarkable set in many ways, the Harkness Two was louder, and better over the long distances. I am situated approximately 90 miles north of the Queensland capital, and during last summer, the Harkness Two gave very consistent reception of all the main southern stations on the speaker. During the winter 2YA and 1YA were logged, and the list of stations properly received numbered 21. All this, as I said before is all very well, but the strong point of the Harkness is that it gives the main stations with nice volume and great purity.

For those, who may contemplate building this receiver, I would like to give a timely warning. If you are not prepared to be bothered adjusting the crystal now and again, do not build this set. It requires more patience than the turning up of the rheostat of a detector valve. Also do not depart from the brand of crystal specified. I did at first, and was rewarded by a lot of trouble. Also it is wise to refill the Harlie crystal at least every three months. Philips' B406 valves and 90 volts B battery gave good results. It pays to use large size "B" batteries and a "C" battery of suitable voltage, as both valves are audio amplifiers.

Now that I have written all this, I wish Mr. Saunders to understand that I do not want to start a "brawl" over the respective merits of the Harkness Two and his three-valver, but I merely give him the tip to tone his receiver down a bit. If it is raucous, then—the neighbors will be glad. If its tone is excellent—well, still turn it down a little. Why dispense free radio entertainment to all and sundry? More aerials may then go up!

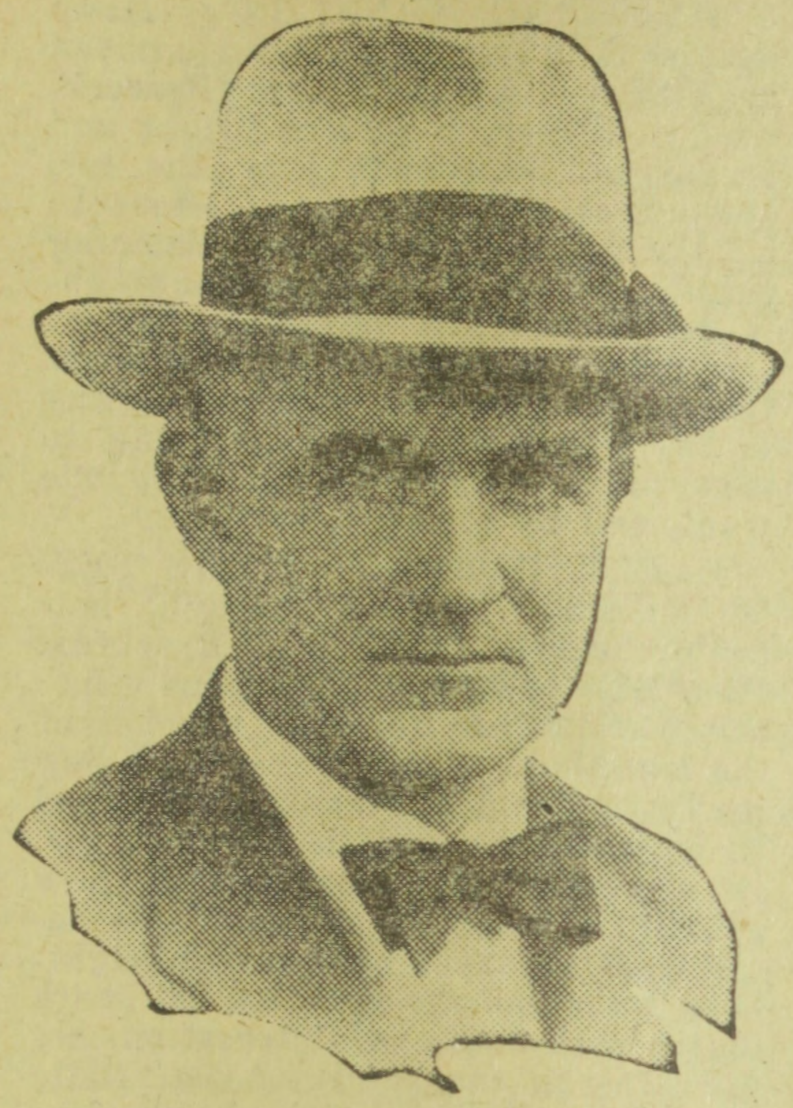
Anyone can build a set that can blare out raucous "music" that can be heard all over the ship, but it is taxing the best brains in the radio field to invent receivers that are really capable of giving first-class tone.

Yours, etc.,
VICTOR SIMPSON.

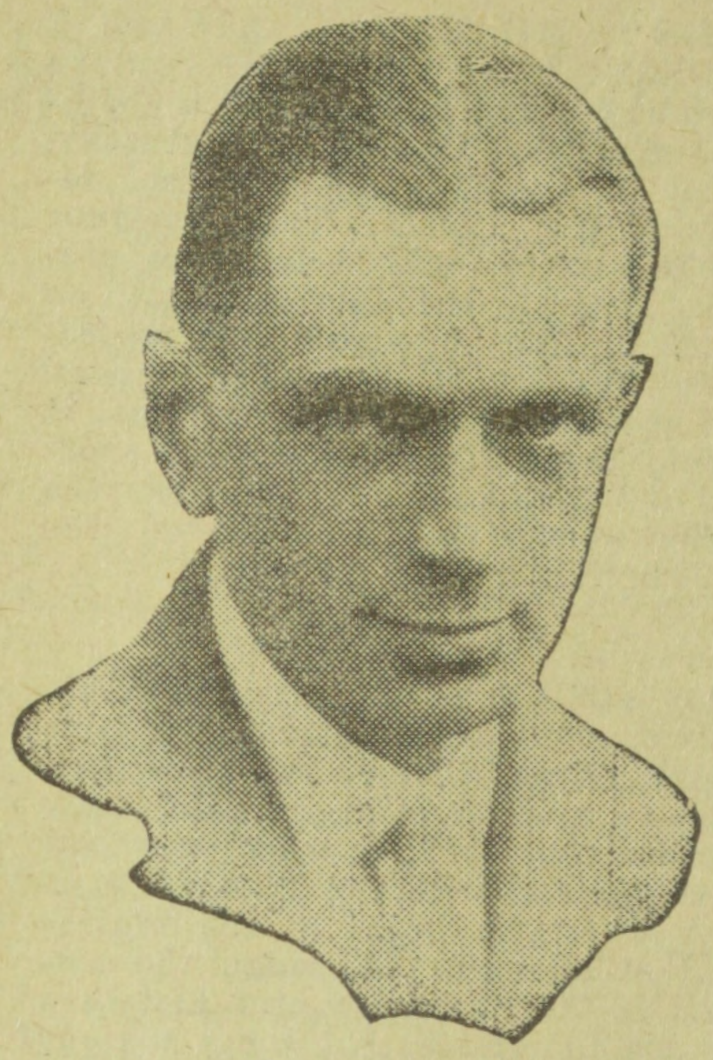
Cooran, Q.

IT'S ALL IN THE AIR

Coming Features in the Broadcasting Programmes



Basil Kirke (Uncle Bas), of 2BL.



Mr. J. Knight Barnet (Uncle Peter), of 2BL.

THE ROYAL AGRICULTURAL SHOW, which commenced on Monday last, is being reviewed and described by Mr. Basil Kirke, of 2BL. The ring events, the imports, and the wood-chopping contests will be broadcast, and the latter item is sure to raise interest, as the champions, Leo. Appo and Mackenzie, are participating. The wood-chopping contests will be described, chop for chop. Then come the trotting contests, and the official banquet. At the latter, several important speeches are to be made by Sir Samuel Hordern, President of the R.A.S., the Governor-General (Lord Stonehaven), the State Governor (Sir Dudley de Chair), and the Hon. S. M. Bruce, Prime Minister of Australia, who, we understand, has something very important to impart. On Easter Sunday, a mixed choir of 80 voices is to be broadcast by 2BL from Chalmers Presbyterian Church. The Autumn race meetings will be described daily by 2BL's Racing Commissioner.

DOROTHY DEWAR is one of the very few soubrettes who can justly lay claim to the boast that she broadcasts successfully. Of course, they all say they do. But in this particular type of work, fatal 'frequencies' are all too prevalent, and consequently the act, popular enough on the stage, is taboo on the air. Dorothy overcomes this difficulty by infusing into her work the full strength of a particularly happy personality, and her gay songs are always welcome to listeners. She will appear at 2FC on Easter Monday afternoon.

EPSOM RACES TO BE BROADCAST: Results of Epsom Races, to be held on Saturday, April 14, will be broadcast by 3LO.

WILLIAMSTOWN RACES ON THE AIR: Full details of the Williamstown races to be held on Easter Monday, April 9, will be broadcast by 3LO.

RANDWICK EVENTS ON EASTER SATURDAY: The All Age Stakes, of a mile, and the Champagne Stakes, six furlongs, will be described by 3LO from Randwick on Easter Saturday. The events will come on at 2 p.m. and 3.15 p.m. respectively.

SYDNEY CUP RACE DESCRIBED: The running of the Sydney Cup on Easter Monday will be fully described by 3LO from Randwick. Racegoers are certain to avail themselves of this opportunity of following the big race from Barrier rise to finish.

STAWELL GIFT DETAILS THROUGH 3LO: The Stawell Gift, one of the richest races in the world, will be finalised on Easter Monday at the Stawell Athletic Club's Carnival, and 3LO will give a full account of the famous event. Other races will be described also, but chief interest centres in the result of the Gift.

SEASON'S CRICKET ACTIVITIES REVIEWED: The cricket season in retrospect will be presented by Rod McGregor through 3LO at 8 p.m. on Thursday, April 12. The talk should be of absorbing interest. The feature will be a continuation of the series which has become so popular with sporting associations. Some weeks ago, 3LO inaugurated a series of talks by the secretaries of various sporting organisations, and they have made full use of the opportunity provided to acquaint the public of their activities.

PENNANT CRICKET FINAL: The final of the Pennant cricket matches will be played on Easter Monday, and Rod McGregor will describe the play for 3LO. The match is to be played to a finish, so if it is continued on the Tuesday and Wednesday details will be broadcast. Great interest centres in the concluding clash of the season, and Rod McGregor promises an unusually full and interesting account.

THESE BOOKMAKERS KNEW SOMETHING: There are opportunists in every walk of life. Two bookmakers had wireless sets at their stands at the Williamstown Races on Easter Monday last year, and drew a crowd when they put on the air 3LO's account of the Sydney Cup at Randwick. Then, having attracted a crowd, the bookies did big business for the next race. Racegoers are wondering if a similar arrangement will be made by the bookies this year.

EXHIBITION WINNERS TO BROADCAST: On Tuesday, April 10th, a musical treat is in store for listeners when George Finlay (pianist) and Mona Nugent (soprano), winners of the 3LO 1927 Exhibition, will broadcast from the Studio. Since their winning of the Exhibition both these young artists have made considerable headway in their chosen profession. Miss Mona Nugent is rapidly coming to the front rank of rising young concert artists—her name figuring largely on many important programmes, and the services of Mr. George Finlay, whom listeners will remember, is also an inmate of the Royal Victorian Institute for the Blind, are also very much in demand.

BIG MILITARY ATHLETIC SPORTS: The ninth annual military athletic sports will be held at the Melbourne Cricket Ground on Saturday, April 14, and 3LO will broadcast details of the events. The Governor (Lord Somers) will probably be present. This is the only occasion on which leading amateur and professional runners meet in open combat, and keen racing is always provided. It should be an afternoon of good sport and the broadcast accounts of the varied events should be one of the athletic features of the year.

IT WOULD be difficult to estimate the extent to which several charitable organisations in Melbourne have benefited, as a direct result of the Sunday broadcasting by 3LO, more especially in connection with the Pleasant Sunday Afternoon held at the Wesley Central Mission. Through the medium of the Radio, Country Listeners are led to realise that these various institutions rely upon a generous public for their support—the fact is brought home to them that the collections taken up Sunday by Sunday all go towards alleviating the lot of the sick and suffering—irrespective of creed—and the result is, that whilst the church officers are taking up the collection from the congregation—a considerable number of listeners, having benefited by the excellent address, are busily making out a cheque as their donation. Again, by means of an appeal for clothing for the destitute, hundreds of parcels come to hand, that would never have found their way to Melbourne, but for that "special appeal."

A CHARMING SOUTH AFRICAN: Metta Rodney is well known by Tivoli patrons as one of "The Three Rodneys." She is a soubrette and sings charmingly to her own accompaniment on the banjo-ukulele. Her broadcasting season at 3LO, which commences shortly, should be a huge success, as she has an extensive repertoire of attractive numbers, many of which are new to listeners.

SUCCESSFUL PHYSICAL CULTURIST: No one is more competent to speak on the subject of Health and Physical Culture than Mr. P. W. Pearce, who is well known in Melbourne as the principal of The Bjelke Peterson Institute of Physical Culture. Mr. Pearce's talks from 3LO have been acknowledged by thousands of listeners-in, and many grateful letters have been received by him from those who have carried out his suggestions with benefit to their health.

THE HAWAIIANS AGAIN AT 3LO: Lovers of Hawaiian music will welcome the news that those two super-artists of the Steel Guitar and Ukulele—Frank and Francis Luiz—are due back again at Studio 3LO after a lengthy and most successful Tour abroad. The versatility of these two popular entertainers is too well known to need much comment in these pages—but their contributions to the programme—whether by way of guitar or ukulele solo or duet—or the praises of the "Golden Sands of Waikiki," sung in the rich full baritone of Frank Luiz—will be more than welcomed by Listeners.

"HUSTLING HINKLER": Many letters of appreciation have arrived at Studio 3LO for Oliver Peacock, who, in person, is just as bright and breezy as he sounds over the air, and whose choice of songs seems to hit the popular taste of the listening public. "Hustling Hinkler" thoroughly established this versatile artist in the good graces of his wireless friends, and he has gone on adding to his popularity since by going to some pains to find out what the public want, and by giving it to them.

EARLY MORNING NEWS SESSION: Have you ever thought how comprehensive the Herald Breakfast Hour Service is, how it contains something of interest for each member of the household, whether they be living in Town or in the back blocks, and if, by some unforeseen circumstance, it was suddenly discontinued, how greatly it would be missed? To begin with, it makes for general brightness by commencing the day with music, with the health interest quickly following in the shape of the "Daily Dozen" carefully explained exercises (also to music), and the weather forecast for ALL States (of tremendous importance to our Country Cousins); then the principal news items for the day, not forgetting the chief news items culled from the paper of the night before, for the benefit of those who never see "The Herald," also possibly a recipe for the housewife, followed by the Sporting, Shipping and Stock Exchange information, then to close with music and the Final Time Signal, when all clocks and watches may be correctly set for the remainder of the day. Truly an hour crowded with usefulness.

BERT HINKLER AT 2FC.—From left to right: A. S. McDonald (Chief Engineer, A.W.A.), Mrs. A. S. McDonald, Irene Vanbrugh, Bert Hinkler, and Oswald Anderson (Studio Manager, 2FC).

Round the World with One Language

A Humorous Sketch with a Moral.

By T. F. SIMON

STATION 2OT calling the world. We have an important announcement to make for the benefit of overseas listeners:—

Do doremi midola doresi dodofa do mirefa reremi..Do mimido rere mimi reresi mirere remire domiso .."

This message, repeated three times, enables every listener to take down the full text. Then each one consults his "Musical-Intermediate Dictionary," and deciphers the message as follows:—

"The Federal Board to-day made the following statement:—The King will not visit foreign countries unless . . ."

Imagine sitting by the fireside, or out on the verandah, quietly listening to your loud-speaker, when suddenly the announcer appears to make strenuous efforts at voice-production. At first it sounds suspiciously like that well-known jazz piece, "Crazy Words, Crazy Tune," and you agree that both descriptions are apt. Then you realise your mistake, and murmur "Tonic-Sol-Fa," hoping that the poor fellow will take more than a simple tonic.

Actually, the above is a specimen of a project outlined at length in an issue of "Wireless Weekly" (February 24th, 1928). Its author, Professor Carlo Spatari, a gifted musician, proposes this "Musical Code" as a means of overcoming language difficulties in broadcasting, and suggests that, as the seven tones of the musical scale (the familiar do-re-mi-fa-so-la-si) can be easily adapted into a code, the finished article should be eminently suited to transmit speeches and the like all over the world. With this object in view, the Professor appends portion of the proposed dictionary, containing but 75 words, and from this limited source the foregoing illustration has been compiled.

By way of comparison, I know of a much better project, its only drawback to wireless being that we will have to wait until television is established. However, as this, too, is rapidly taking shape, let us prepare for its advent by practising "Spik," a truly expressive language that must be seen to be appreciated.

It differs from other languages, in being not only beautiful in sound, but eurythmic and spectacular. Too little have the latter qualities been considered in formulating world-languages, and they are brought in with great effect in "Spik."

The grammar is of the simplest, and should satisfy the most radical tendencies, while reduplification in the case of plurals will commend itself, at least in principle, to such primitive races as the aborigines of Borneo. The majority of words would be pleasing to Zulu or Hottentot ears, and as wireless is being introduced to all these races, the advantages of this language will immediately became apparent. One point more, however, needs emphasising. Gesture, introduced on a scientific basis for the first time, plays a very important part, allowing even dumb people to adequately express themselves.

Without further ado, allow me to present the first lesson (with acknowledgments to "International Language," London):—

English.	SPIK.	English.	SPIK.
I	ik	my	ofik
you	vik	your	ofvik
he	lik	his	oflik
she	zik	her	ofzik
it	jik	its	ofjik
they	liklik	their	ofliklik
"	zikzik	"	ofzikzik
"	jikjik	"	ofjikjik
we	ikik	our	ofikik

From this it will be clear that nothing could be more simple or euphonic.

In "Spik" there are no troublesome declensions. Some may consider it a lack, but it will be admitted that it is of the utmost value in permitting ambiguity, where such seems desirable. Thus the cases are:—

		English.	SPIK.
Singular	Nom.	the book	buk
	Gen.	of the book	ofbuk
	Dat.	to the book	tilbuk
	Acc.	the book	buk
Plural	Nom.	the books	bukbuk
	Gen.	of the books	ofbukbuk
	Dat.	to the books	tilbukbuk
	Acc.	the books	bukbuk

Examples: "Our books" is "offikik bukbuk," and "to the books of my nephew" becomes "Tilbukbuk of-ofik nek." Could anything be more wonderfully conceived?

Now, look at the numerals, which recall the ancient Greek system:—

1 ak	10 aks	1000 (ten cubed) aksaksak
2 bak	20 baks	100 (ten squared) aksaks
3 cak	30 caks	10000 aksaksaksaks
4 dak	40 daks	(Even a child can learn this without difficulty)
and so on till		
9 kak	90 kaks	

One of the great points in this language is that there is a written and a spoken form. The numbers appended to the following examples, which are illustrative merely, are for reference.

VERBS.

English.	SPIK (written).
Present:	
I speak	ik 1 spik=ik ak-spik
Past:	
I spoke	ik 2 spik=ik bak-spik
Future:	
I will speak	ik 3 spik=ik cak-spik
Conditional:	
I would speak	ik 5 spik=ik fak-spik

In the passive, "a" becomes "e," and the numerals change to Roman:

A language is spoken	Spik	I spik=spik ek-spik
A language should be spoken	Spik	IV. spik=spik dek-spik
A language is to be spoken	Spik	XI spik=spik eksek-spik

In the spoken form, one does not use the numerals, or "ak," "bak," etc.; gestures are substituted for them, thus:—

ak	pulls down his right eyelid
bak	pulls down his left eyelid,
cak	shuts both eyes,
gak	shuts both eyes twice.
aksak	lifts his right fist,
aksbak	lifts his left fist,
akskak	extends his right fist twice in front of himself.

When using the passive form, the speaker waggles his feet:—

ek	he lifts his right foot,
bek	he lifts his left foot,
cek	he lifts both feet.
eksfek	he crosses his feet, but:
eksdek	he puts his left foot to the left.

Nothing is simpler or more graceful. Marvellous effect can be obtained in large gatherings, indoor and outdoor. Lame persons are, however, exempted from using the Passive Form.

In conclusion, I will give a few examples of the language in actual use.

WRITTEN FORM OF "SPIK."

The boy spoke =boibakspik	Boi 2 spik
The boy did not speak =boinit bakspik	Boi nit 2 spik
Did the boy speak? =Bak spik boi?	2 spik boi?

SPOKEN FORM OF "SPIK."

My neighbour's boys were playing with three dogs. Boiboi of-ofik burbur 2* plai mit cak dogdog.

*) the speaker pulls down his left eyelid.

Their children have brought twenty-eight books ofliklik kindkind 11* kop baks-jak bukbuk.

*) the speaker raises his right fist.

Much can be expressed by the tone of the gesture; for instance, if the children had broken twenty-eight windows, a cane in the fist would be an asset. The reader will, therefore, understand what was meant by saying that the language must be seen to be fully appreciated. I think we will leave it at that.

Does this wonderful scheme not immediately capture your mind, and make you wildly enthusiastic about its simplicity? Of course, it does! And how the Brazil Knuts would welcome it, being part and parcel of the makeup of this peculiar world.

But, to wind up my story in a more serious vein. Is there not a moral in all these attempts at solving the diversity of tongues? Does it not show the crying need for some unifying influence; does it not show a lack of faith in ourselves?

We have at the moment, ready for instant use, a medium that is officially recommended, not only by educational and scientific bodies, but by our own radio organisations: Esperanto.

A Radio magazine, printed wholly in Esperanto, and published in Paris, circulates all over the world.

From time to time we hear of Esperanto, but it seems to leave no lasting impression. We are vague about its construction, and doubtful of its possibilities. That it is in actual use, few Australians appear to realise, and yet every night in the week a radio fan in Europe can tune in to a series of stations, and hear Esperanto broadcast.

The fault is that we are too prone to rely on our neighbors to take the initiative. Despite the advice of the American Radio Relay League, International Radio Union, Unione Internationale de Radiophonie, and many others, Esperanto remains a closed book to us.

Instead of having the very obvious imperfections of the "Musical Code," and being limited to radio alone, Esperanto is a complete language, that has undergone every kind of test, and can be used for all purposes of international communication.

The moral is evident; you have absorbed it?

THE NEW ZEALAND STATIONS.

1YA, 2YK, 3YA, and 4YA are all controlled by the N.Z. Broadcasting Company. 2YK is in Wellington, 3YA in Christchurch, and 4YA in Dunedin. There is no transmission from 1YA on Mondays, and on Sunday a church service is broadcast, followed by musical entertainment till 9 p.m., after which the station closes down till Tuesday morning.

The transmitting equipment at Christchurch is similar to that at Auckland. 4YA broadcasts every day of the week, except Thursday, from 7.45 until 10 p.m. 2YK operates every day of the week, except Wednesday.

However, 4YA and 2YK are only temporary stations, as are the schedules.

1YA may be found on 420 metres, and has a power of 500 watts, 2YK works on 295 metres, and 4YA on 380 metres, but the power is comparatively low.

The general manager of these stations is Mr. A. R. Harris, of the Radio Broadcasting Company of New Zealand, Ltd.

Ballad on the Death of a Child.

[From a story told by "Uncle Bas" (Basil Kirke, of Broadcasters Sydney, Limited), of a little boy suffering from a disease of the heart, who was called at the request of his parents each evening, six days prior to his death, the child dying on the sixth evening, just after he heard his name called.]

I.

"No! No!" his father screamed, "it isn't Right!"
And frenzy-eyed
He paced the room with feverish footsteps round
And suddenly there rose a sobbing sound;—
A mother cried. . .
The doctor said, "It's sad—he'll die tonight."

II.

He lies inert with eyes a-stare—
His face as pallid as the sheet
For Life is passing slowly there
With ev'ry rap of the weak heart's beat.

He lies in a sweet and childish trance
And smiles as his mother whispers low—
A soft, wan smile and a trustful glance:—
And Deathwards ever the long hours flow.

III.

Dirge.

The bud's to be plucked ere it's opened in bloom—
The birdling's condemned all unfledged to die;
O, Death, who presid'st from that bright, sunlit sky,
Why snatch this young life to the night of the tomb?

The Dawn's to be merged in the set of the sun—
The journey is ending while scarcely begun—
The race (hardly started) will shortly be run.

O, Death! Hast no ear? List and hear! Hear our weeping!
O, Fate! Do we wend with the End only Sleeping?
O, Heaven! This thy Grace? Does God's Face see our weeping?
Answer! . . . There's naught but the sigh of the wind;
Silence and Death are the lot of Mankind.

IV.

The sunbeams redden on the wall,
The curtains sway in the evening breeze
And evening mists begin to fall.
About the flow'rs and trembling trees.

The time is come: grim Death draws nigh
With clutching claws in the bedside shade—
The boy starts up with a sudden cry—
"Mother! Father! I feel afraid!"
They smooth the wasted form to rest
With soothing murmurs parents know,
And the father speaks out gruffly, lest
The throbbing pain at his heart may show:

"Why, Son, you mustn't go to sleep—
Your radio call is coming, Jim!"
The boy wakes out of the mighty deep:
"My Uncle? I'll keep awake for him!"

V.

High, o'er the tramcars' plunging boom,
The radio announcer spoke;—
A weary man, in a felted room,
He cheerily talked through the evening gloom
And gaily cracked the evening joke.

The children's hour had reached its close
And he called good-nights to everyone:—
To Pat and Doris and John and Rose—
Then he stopped and thought. . . .
"Ah well, God knows. . . !
I wonder if Jimmy's alive or gone."

Then he spoke again and he said: "I trust—
I hope you can hear me, Jimmy McFall,
Remember, Jimmy, to-morrow you must—
Must still be waiting—you hear?—you MUST!
Must still be there for your Uncle's call!"

VI.

A little lad gasps suddenly
And, dead, on his father's shoulder slips;
But those who stand about can see
The sweet, gay smile that unwreathes his lips.

VII.

Mother and Father sadly stood to gaze
Through blinding tears
Upon the lifelike wonder of his face
Lit with the smile of strange, seraphic grace
Of Him who hears
The Mightiest Uncle speaking through the haze.

RONALD McCUAIG.

Should Controversial Matter Be Broadcast?

AN item of interest in the English press of recent date is a reference to the matter of censorship of broadcasting by the Government. The Government had decided not to prohibit the broadcasting of controversial matter. The British Broadcasting Corporation (and its predecessor, the Company) was not allowed to broadcast any controversial matter. The authority of the Government expressed by the Postmaster-General was necessary before any speech or talk on a controversial subject could be broadcast.

This restrictive power was the cause of considerable discussion and public dissatisfaction. The definition of "controversial matter" was not given: it was never clearly understood what was meant by it, and the B.B.C. officials eventually saved themselves the trouble of worrying about it

They said in effect—"If the Postmaster-General will not permit us to broadcast so-and-so, well, that's an end to it."

Following this out, several public speakers could not be broadcast. George Bernard Shaw, G. K. Chesterton and other publicists were debarred. There was a great deal of press criticism of the action of the B.B.C. and the Postmaster-General during the past six months, resulting apparently in the decision to lift the ban.

In Australia there has been a singular freedom from any serious complaint against the broadcasting companies. The directors of the various stations must be congratulated on that result: it speaks well for the care with which the programmes have been prepared. Although the Postmaster-General has a power of censorship over all broadcasting, there does not appear to be any reference to the power having been exercised. Of course one must expect isolated cases of complaint against particular items. There have been and will always be such complaints. But a general complaint of a representative voice raised in protest against some feature or part of the programme has not been made, so far as published statements are concerned, and one cannot easily imagine an agitation taking place without it being well known. In the broadcasting of political speeches, candidates' election addresses, party leaders' policy speeches, or occasional speeches by politicians, the Government took a firm stand a few years ago. It was announced that during election campaigns only the leaders of the principal parties would be allowed to broadcast, and then only one speech each in each state. That policy has been followed during State and Federal elections with complete success and satisfaction by 3LO and other stations.

The decision of the British Government to remove its ban on "controversial" broadcasts justifies the Australian practice. There is no need for a too restraining hand by the Government on the method or matter broadcast. The broadcasting companies should be permitted to carry the responsibility themselves of serving the public. There are many subjects which are inevitably controversial in some feature or other, and in most of the subjects it would be desirable to give the proponents of either side, pro and con, an equal opportunity to broadcast. But in some controversial subjects the public would not be sufficiently interested to listen to both sides. It would be wearisome to the general body of listeners.

Thus it is desirable to leave the decision to the broadcasting directors: to their foresight, experience and good sense, the decision as to whether or not such and such a subject should be broadcast could safely be left.

* * * * * *

OLD AGE WIRELESS: When the Gauls transmitted important news, it was shouted from tower to tower through a megaphone. Within fifteen hours, the news of the Roman massacre at Orleans was thus sent to Auvergne, 120 miles away.

Telling the World About Australia. 3LO Service.

THE world-wide publicity Australia has received, through the remarkable success that has attended 3LO'S world range short-wave tests, could not have been bought by the Commonwealth Government for thousands of pounds. But 3LO has done it all free, happy in the knowledge that it is furthering the interests of wireless and Australia in its big experiments.

The general public might find it hard to grasp the real meaning of the interest created in Australia overseas by the consistently successful short-wave broadcasts. Countries in all parts of the world have come to look upon this vast Commonwealth with a new respect, as a result of the tests—have come to recognise this, the youngest nation in the great British Empire, as a leader in this astonishing new science, that makes space an ally instead of an obstacle in speedy communication.

It is because of this, the reversal of what might reasonably be regarded as the natural order of events—the old countries of the world showing the way for young countries to follow—that Australia has earned such prominence and attention. For it has been Australia that has led the world in the sphere of Empire broadcasting, and 3LO has been the medium for conferring this distinction.

300 Letters in One Mail.

How can the magnitude of this feat be brought home to Australians? Perhaps best by the statement of a simple fact. In the last overseas mail were 300 letters, from listeners in England, America, Scotland, Ireland, France, Spain, Czecho-Slovakia, Belgium, the Dutch East Indies, Kenya Colony, Switzerland, and Germany, Siam, and Japan, to mention most of them, applauding the station for the excellence of its short-wave tests, and the excellence of the programmes.

Imagine what that means. The writers of those letters are communicating their success in picking up 3LO to the press of their countries, to their friends, lauding this country as a leader in the wireless world. It is publicity of the best kind. 3LO is reaching, and interesting in Australia, the masses of overseas countries, and trade is but one of the beneficial results that must follow.

Government Opportunity.

The short-wave broadcasts suggest an excellent avenue through which the Federal and State Governments might disseminate knowledge of Australian life and conditions. No amount of newspaper advertising, no number of addresses by State or Federal representatives overseas, can accomplish so completely and so quickly as wireless the desired result of arousing interest in Australia.

If the Federal and State Governments co-operated with 3LO, by providing the station with pithy information, in the form of news, to be broadcast, it would be both a fitting recognition of 3LO's already big work in this direction, and a very sensible and tangible step in the direction of cementing Empire unity. It is a suggestion that warrants serious consideration by Government authorities.

THROW THOSE "B" BATTERIES AWAY !

The "Economic *B* Liminator"

can be built by yourself in a few hours, and will supply "B" BATTERY CURRENT DIRECT FROM THE MAINS

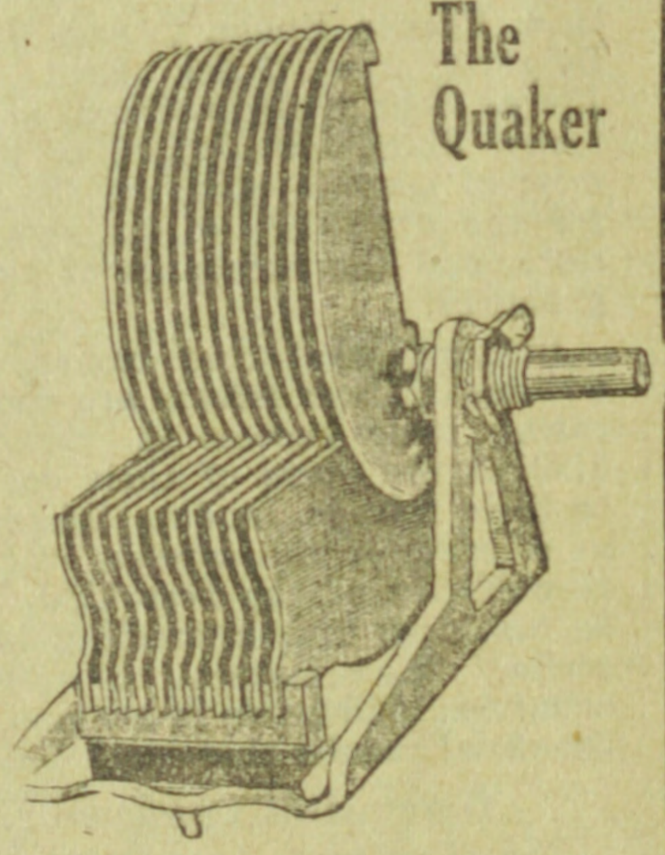
What it will do :

Supply ample Current for Valve Sets up to 5-Valve with separate voltage for Detector Amplifier Volts up to 150.

Complete Set of Parts

Including Valve and Clear Wiring Diagram Price **66/-**

The Quaker



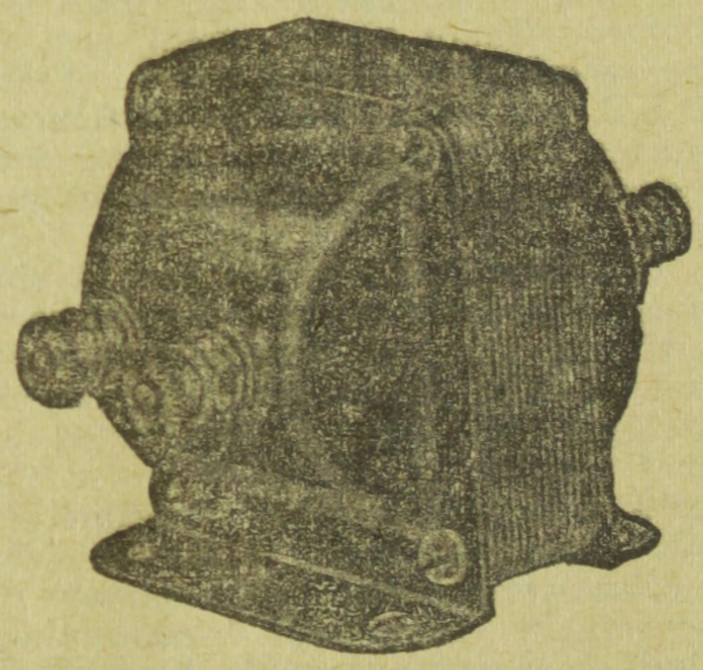
THE CONDENSER FOR ANY CIRCUIT, all brass plates, one hole fixing.
Price, .0005 ..... **9/6**

Harkness Reflex Parts

1 Bakelite Panel, 15 x 7	4	5
2 Quaker Lowloss Condensers, .0005	19	0
2 3in. Black Dials, 1/-	2	0
1 30 ohms. Certified Rheostat .	2	0
1 Double Circuit Jack	2	2
1 Single Circuit Jack	1	7
1 Carborundum Stabilising Unit	27	6
1 B.M.S. Battery Switch	1	6
1 Crescent 6 to 1 Transformer	13	6
1 Crescent 3½ to 1 Transformer	13	6
2 Bakelite Formers, 3 x 3, 1/- .	2	0
1 Terminal Board	2	3
¼-lb. 24 D.C.C. Wire	1	7
1 doz. Square Bus Wire	0	10

£4/13/10

The Crescent



THE TRANSFORMER THAT DOES NOT BURN OUT.
Ratios, 3½ to 1 and 6 to 1.
Price **13/6**

COUNTRY CLIENTS.—Our parts are absolutely guaranteed to give satisfaction. Send your orders to us conditionally that your money is refunded if you are not satisfied with the goods upon receipt of same. Goods must be returned to us within ten days. We Pay Carriage on all Orders of 10/- and over, except on Speakers, Cabinets, Batteries, and Value Payable Post Parcels.

Terms Cash with Order, or Valuable Payable Post.
No discounts.
Valves—no responsibility unless fragile postage rates are paid by purchaser.

For QUICK SERVICE address Mail Orders to ECONOMIC RADIO STORES, 492 George Street, SYDNEY.

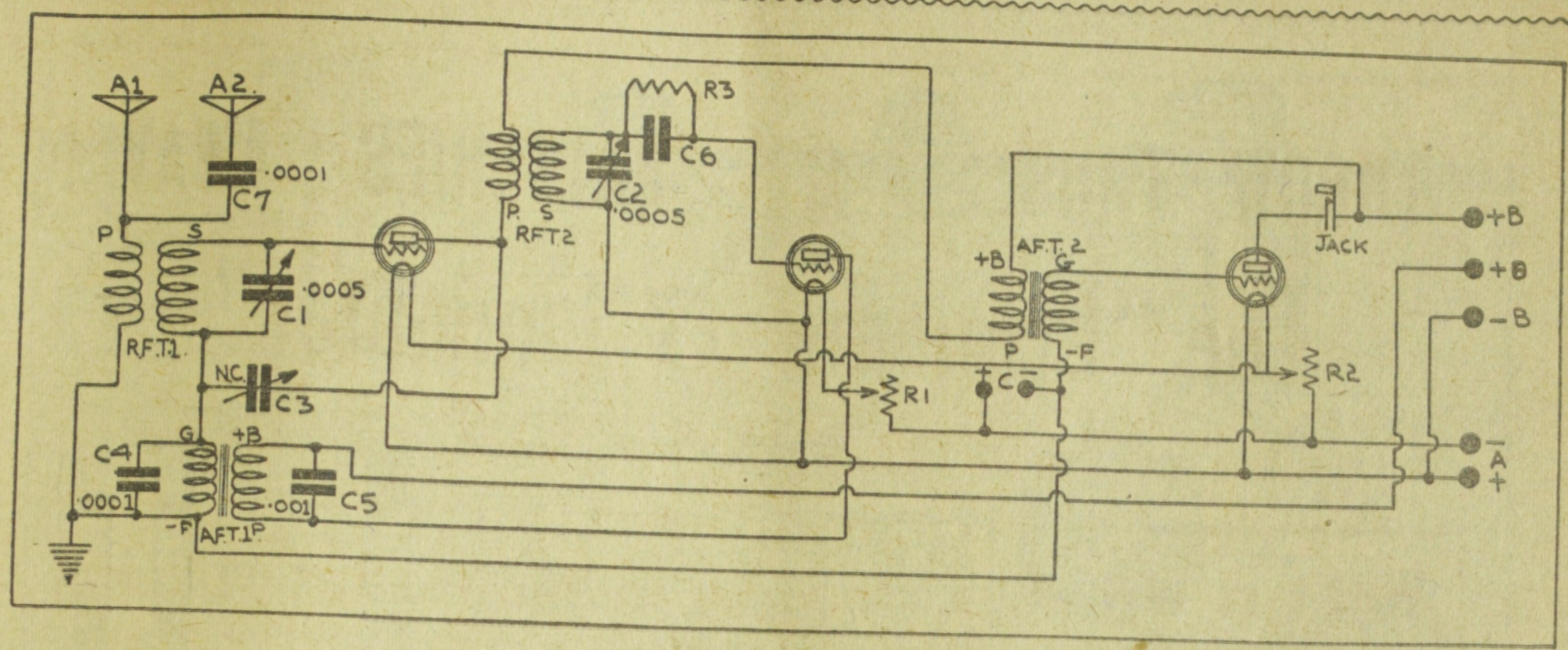
"YOURS FOR LOWER PRICES AND SERVICE THAT SATISFIES."

THE ECONOMIC RADIO STORES

PARRAMATTA:
Cor. Macquarie and Church Sts.
'Phone: UW 9601.

SYDNEY:
25 NEW ROYAL ARCADE,
'Phone: M 6138.

NEWCASTLE:
No. 13 Union St.
'Phone: New. 1622.



The Circuit.

The Harkness Reflex Receiver

Inquiries for details of the Harkness Reflex have become so insistent that for the third time, we are publishing the the whole constructional article. We trust that at the same time, this article will find favor with the majority of our readers.

VARIOUS descriptions of reflex receivers have been given in the columns of "Wireless Weekly," but by far the most popular is the one to be described here. The idea of reflexing is not by any means new, and since the original inception, vast improvements have taken place in the manufacture of components and valves so that readers will now be able to utilise this very popular circuit to the best of its capability. The reflex principle was introduced almost immediately after the development of the Three Electrode valve, and a reflex receiver has many advantages, particularly from the point of view of economy and upkeep.

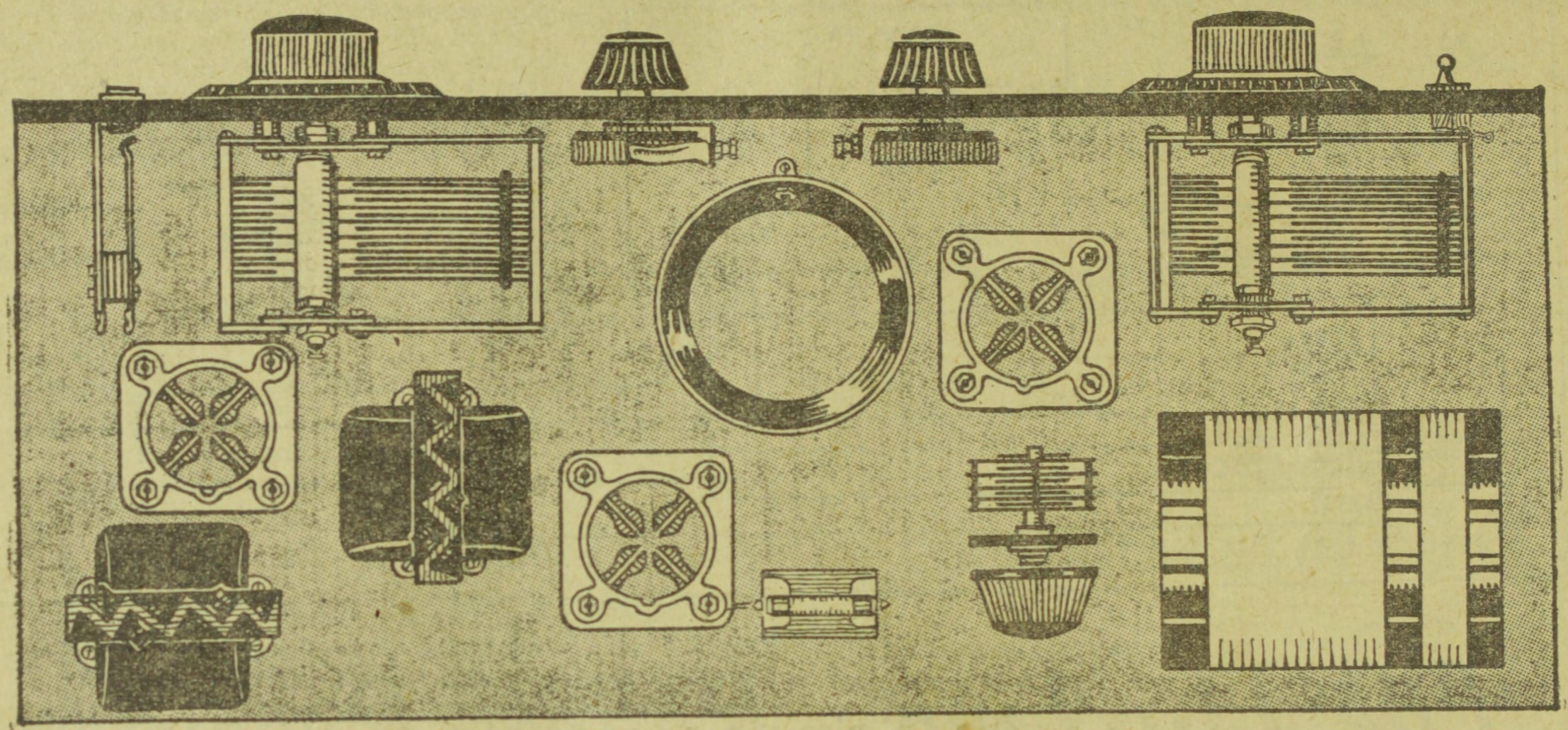
The fact that one valve does the work of two, saves the cost of a valve and that of the requisite battery supply. Many reflexed receivers have made their appearance, and one of the most popular in the early days was the ST100, designed by that well known authority, Mr. John Scott-Taggart, M.I.R.E. Next came the Grimes Inverse Duplex, the Roberts' Reflex and the Harkness Reflex. The latter has earned the reputation of being one of the most powerful and efficient two valve receivers. A most remarkable volume combined with clarity of reproduction places the Harkness Reflex in a category of its own. This receiver was tested in Sydney in the days of Mediocre valves, and those present were pleasantly surprised to hear the comparisons between this and a four valve receiver. There have been and there are many who will wish to build such a receiver. The construction and layout is quite simple without any unnecessary controls. The front panel view is quite clean and shows two tuning controls, consisting of two variable condensers with a crystal detector and rheostat in between. The battery switch and the two jacks are placed at the bottom of the panel. The back of panel view shows the coils, transformers, valve sockets, and terminal board with the aerial and earth terminals located on the same strip as the battery terminals, thus keeping unnecessary wiring from the front of the receiver. Although this layout is neat, maximum efficiency is not impaired in any way for the sake of neatness, in fact, the reverse is the case, as will be seen from the back of panel diagram. Although there are many makes of coils, sold on the market, the construction presents no difficulty as they are quite easy to make. An analysis of the circuit shows that the greatest drawback of most reflex receivers using crystal detection is absent in the Harkness Reflex. Usually, in reflex receivers the crystal is situated in the plate circuit of one of the valves, which means that the crystal has to pass the plate current through to the plate of the valve. With the synthetic type of crystal, this is a serious disadvantage, as sooner or later the crystal will give trouble owing to the extra strain imposed. The Harkness receiver has the crystal included in the secondary circuit of the second radio frequency

LIST OF PARTS FOR THE HARKNESS REFLEX.

Although the parts listed below and mentioned throughout the articles were those actually used by us in the receiver described, it must be pointed out that it is not absolutely essential that they be rigidly adhered to.

Other parts of similar quality and technical values should function quite satisfactorily.

- 1 Dilecto Formica or Hard Rubber Panel, 14 x 7 x 3-16in.
- 2 .0005 Advance or Emmco Variable Condensers.
- 1 30 ohm. Rheostat.
- 1 Double Circuit Jack.
- 1 Single Circuit Jack.
- 1 Crystal Detector (or stabilised carborundum detector).
- 1 Battery Switch.
- 1 5 to 1 Ratio Audio Frequency Transformer.
- 1 3½ to 1 Ratio Audio Frequency Transformer.
- 2 Formers, 3 x 3 in. long.
- 1 Terminal Board.
- ½ lb. 24 D.C.C. Wire.
- 1 Baseboard, 12 x 9 x ¾.
- 16-g. Tinned Copper Wire, Screws, etc.

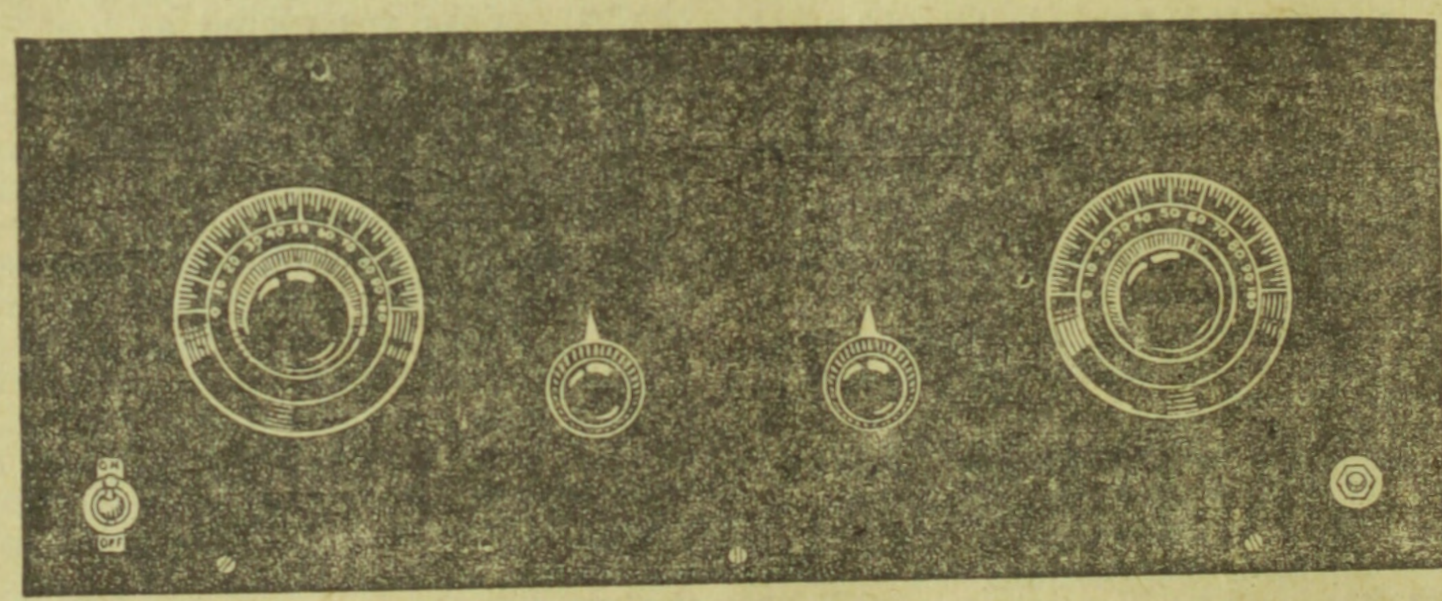


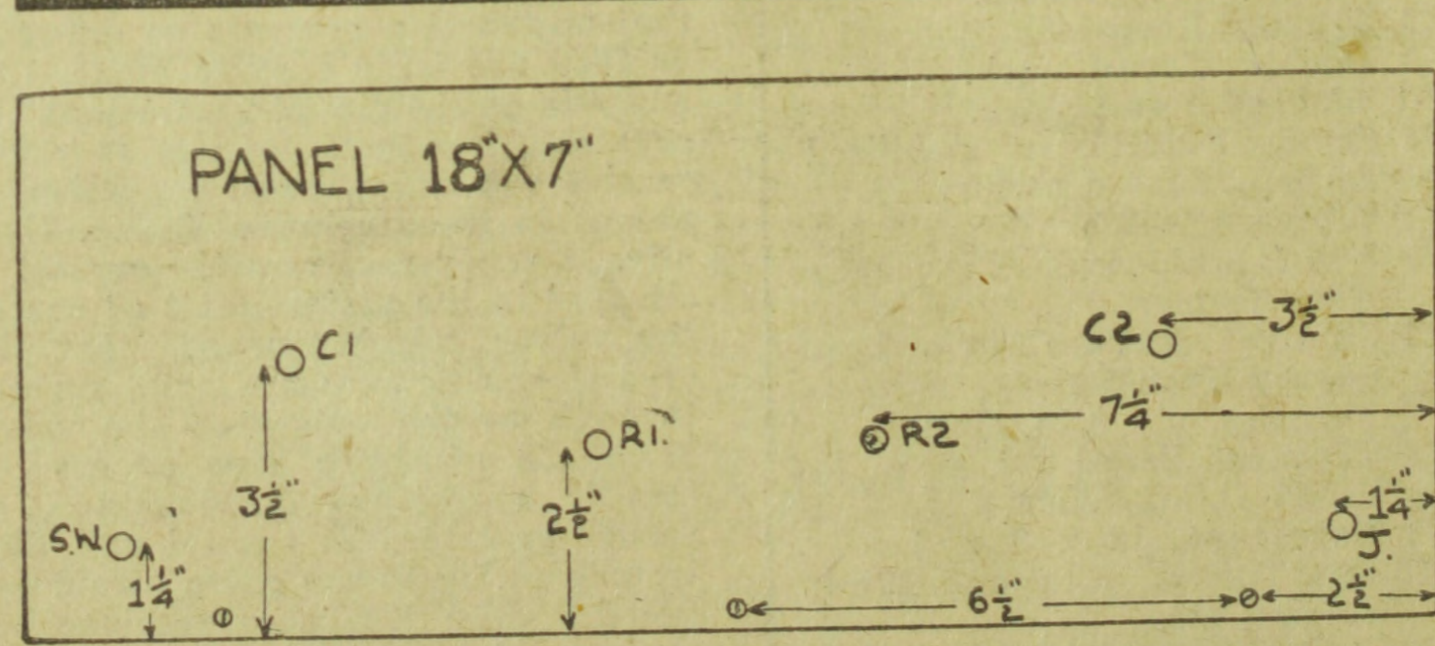
Plan view, showing positions of components. The wiring has been omitted. It is shown elsewhere.

transformer, and is thus entirely free from the plate potential. Even with one valve, good loud speaker strength is obtainable, but the addition of a second audio amplifying valve means greater volume without any sacrifice in purity, provided a good distortionless transformer is used.

Construction.

The coils or radio frequency transformers are the first consideration in the construction of the receiver. Two pieces of dilecto or hard rubber former are required for this purpose, measuring 3 inches in diameter, by three inches in length. Half an inch from one end of the tubing drill two small holes with a fine drill, about 1-16th. Through these two holes, doubling the wire back from one to the other, thread the beginning of the 24 D.C.C. wire used for the inductances. Wind on this tube, making one turn close to the other, 60 turns of wire, making sure that this is wound tightly and without any slipping. Procure a strip of strong paper twelve inches long and one inch wide, and wrap this around the completed winding, keeping the paper in the middle. Apply a little celluloid cement to keep this firm and then wind on the primary, which consists of 15 turns of the same size wire wound in the same direction. The reader may find it difficult to hold the beginning of this wire securely, but this is easily overcome. Obtain a piece of tape half an inch wide by 2½ inches long. Fold the tape in two, which makes it into a double piece half an inch wide, and 1¼ long. Into the top of the fold slip one turn of the wire, leaving about 6 inches hanging free and lay the tape length ways across the present winding and on top of the paper. Next proceed to wind your primary turns over this tape until 15 turns are wound on. Cut the wire holding the primary turns in place by means of your finger, and make the end secure by applying a small touch of sealing wax at that particular place where the last turn crosses the protruding tape at the bottom. The second radio frequency transformer R.F.2 is wound in a similar manner to the first, but instead of having a 15 turn primary, this has a 35 turn primary, which is wound similarly to the primary of the first transformer.

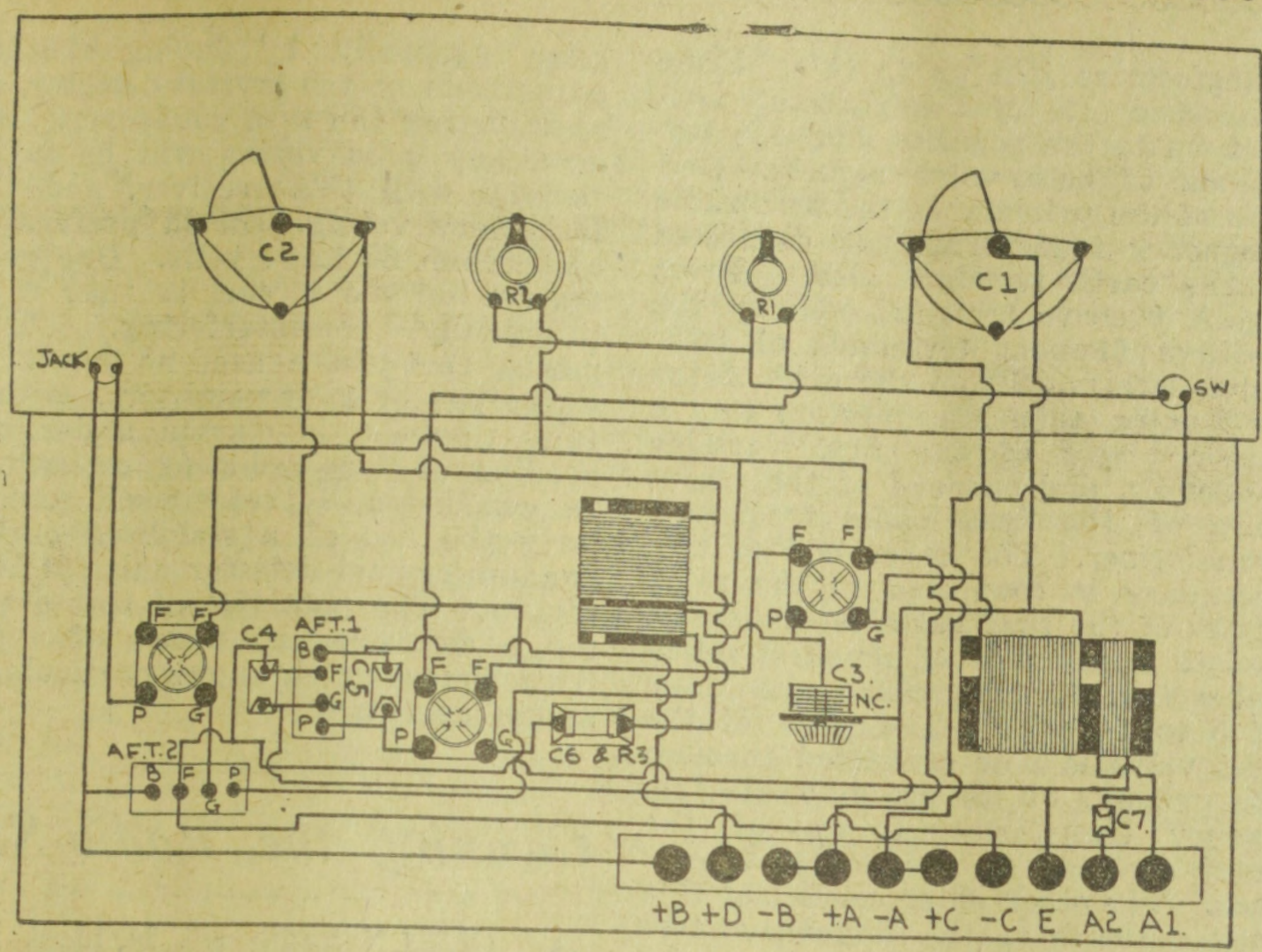




Top:—Front view of panel.
Bottom:—Drilling template of panel.

Panel Layout.

The panel layout is very simple, as may be seen from the plan. It is advisable that provision is made only for the centre spindle of the variable condensers as there are many different types on the market, of which the reader may use many, using fixing screws. A template is provided

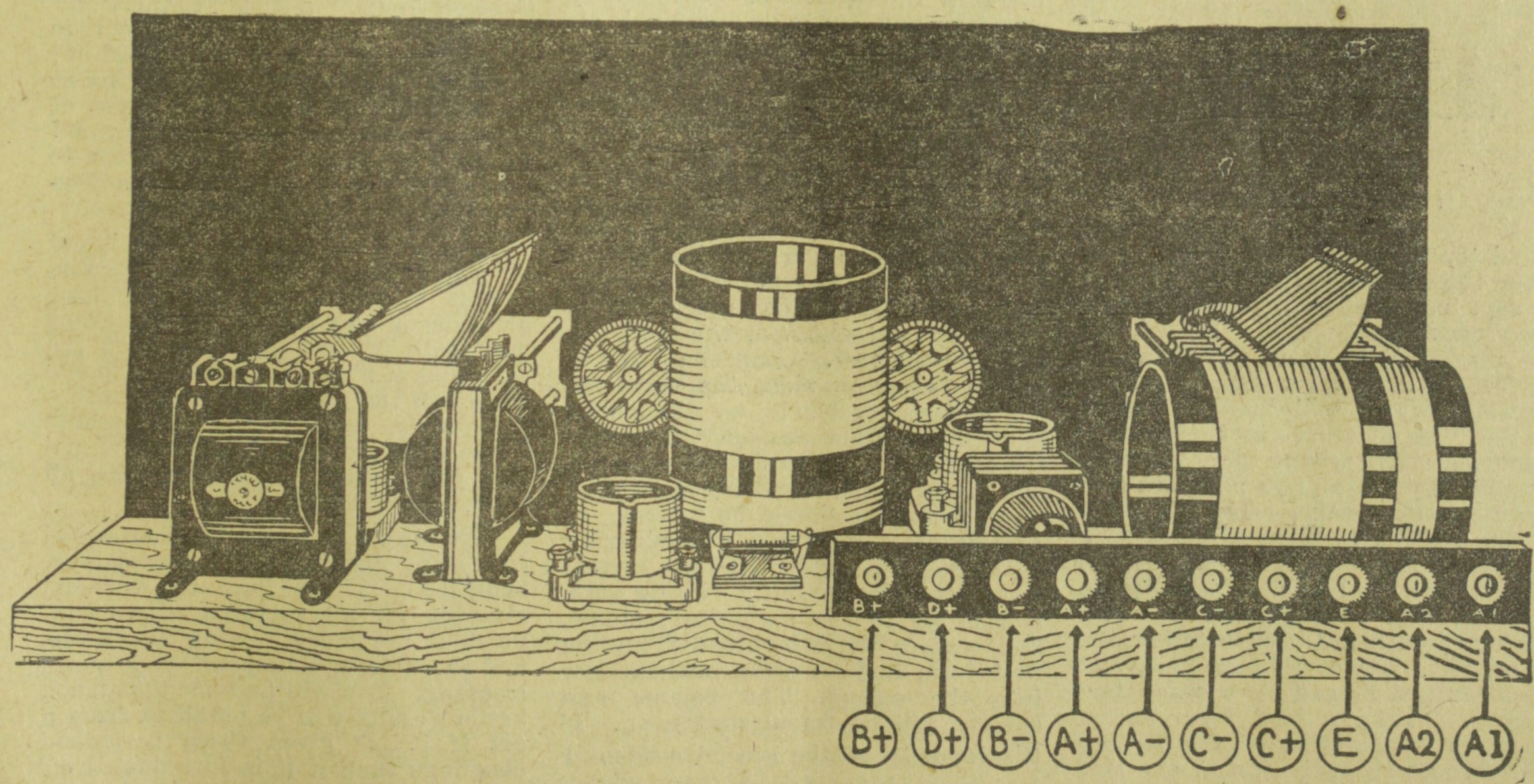


The back of panel wiring diagram check off with circuit.

with most condensers and this is placed over the spindle hole and marked off accordingly. The crystal detector is a matter for the readers own discretion, but the best type for the purpose is the stabilised carborundum unit. If this is used, the knob controlling the potentiometer will take the place of the ordinary crystal detector on the front of the panel above the rheostat. A great deal depends upon the crystal, which must be sensitive and stable in operation. There is only one rheostat control for the two valves. This is quite sufficient, as the valves are merely audio amplifiers, and, in fact, the rheostat might well be dispensed with entirely provided the correct A battery voltage is used with any particular valves. Beneath the rheostat is found the double circuit jack with the single circuit jack to the right, and the battery switch on the left. The usual care must be exercised, in drilling the panel to avoid rough edges on the holes. Do not lay too much weight on the drill. When all the drilling is completed, mount the panel apparatus, comprising the two variable condensers, the crystal detector unit, the rheostat, the battery switch and the jacks. Screw everything up tightly and securely, as nothing is more annoying, than for a receiver to develop rattles and noises due to imperfect contacts.

Baseboard.

On the baseboard are mounted the coils, valve sockets, audio frequency transformers, and terminal board. The layout adopted will be easily seen from the back view of the panel. This layout cannot very well be bettered, so that it is best to stick to the arrangement. The coils, or radio frequency transformers, are secured to the baseboard by means of two brackets, or, as an alternative, by screws through the former, with small distance spacing pieces underneath. The height of the coils should be about one inch from the baseboard. If brackets are used, practically no engineering skill is required, as a pair of pliers and a drill are sufficient to make the bends and drill the holes. It is important to note that these two radio frequency transformers should be mounted at right angles to each other, to avoid the possibility of any inter-coupling effect. It is perhaps advisable, when winding these coils, to begin and finish the primary windings on the opposite sides of the

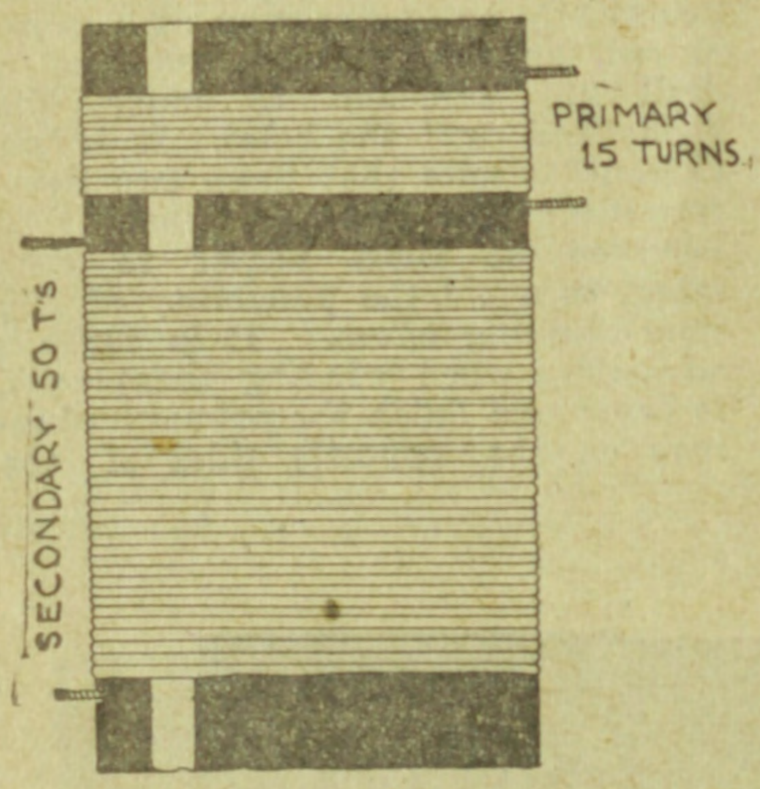


Back view of the Harkness Receiver. The S.C. Jack and Switch are hidden by the other appa ratus.

formers to the sides of which you started and finished the secondary winding. Do not overlook the fact that the secondary winding must be wound first, and the primary winding then wound on the top of this coil. Do not confuse the terms primary and secondary.

Wiring.

Proceed carefully with the wiring, consulting the back of panel diagram and the circuit diagram to obtain success in this. It is really better if the reader is conversant with symbolic diagrams to follow the wiring by means of the circuit diagram. Before permanently attaching the panel connect one side of the battery switch to the nearest side of the rheostat, as this will simplify subsequent wiring. Make all right angled bends neatly, and check off carefully with the diagrams. Solder every joint correctly and even, where terminals are provided, on such components as valve sockets, transformers, etc., it is advisable to place under the head of each terminal a small soldering tag. Screw the ter-



How the R.F. Transformers should look when finished.

minal top down hard on the tag, and make the soldered connection to this. Always remove the flux, which will run considerably when heated, as the residue is liable to make an imperfect joint, and set up a high resistance, which will manifest itself in the form of noise in the receiver. Commence by wiring the filament circuits first. I always advocate this practice, as it makes easier the final wiring. The filament circuits may be looked upon as the heart of the receiver, and all grid returns, plate circuits, etc., as the arteries. On the terminal board, link together the A negative and earth terminals, and the B negative and A positive terminals. Take a lead from the A negative to one side of the battery switch, and through this to one side of the rheostat and the earth. Terminals F of the two inter-valve transformers join up to this. From the other side of the rheostat, connect up to the negative filament terminals of both valve sockets. One side of the primary of the first radio frequency transformer is connected to the earth terminal also. From the A positive terminal join up the positive filament terminals of both valve sockets. From the grid of the first valve, take a connection to the stator plates of the first variable condenser, and one end of the secondary of the first radio frequency transformer. The other end of this secondary is connected to the rotor plates of the first variable condenser, and to terminal G of the first inter-valve transformer, which should be of 5 to 1 ratio. The plate of the first valve is now connected through the primary of the second radio frequency transformer to one of the outer contacts of the double circuit jack. The other outer contact of this jack connects to the B positive terminal and one side of the single circuit jack. The primary of the second inter-valve transformer, of 3½ to 1 ratio, is connected to the inner contacts of the double circuit jack in the usual way. One side of the secondary of the second radio frequency transformer is connected to the stator plates of the second variable condenser and one side of the crystal detector. The other side of this secondary to the rotor plates of the condenser, and to terminal P of the first inter-valve transformer primary. Terminal B of this primary connects with the other side of the crystal detector. All that now remains is to join up the aerial terminal to the open side of the first primary, and the grid terminal of the second valve to terminal G of the second transformer, and the plate of the last valve to the other side of the single circuit jack, for the final output. There are many combinations of modern and efficient valves, which may be used with the Harkness reflex receiver. Of these, I recommend either two Osram DEL 410 or DEL 610, or alternatively Philips B406 and A415. When everything is wired up and checked, the receiver is ready for test. Connect up the A and B batteries, place the valves in the sockets, and join up the aerial and earth. Plug the telephones into the first jack. Turn up the rheostat, and rotate the condensers slowly, when a station should be received at considerable volume. Considering that only one valve and a crystal comprises the circuit. Bring the station up to the maximum volume, and remove the telephones from the first jack, and plug the loud-speaker into the second. The volume and quality will be found surprising. If the capacity of the second condenser is increased too far, a little distortion may result, which may be overcome generally by finding another adjustment on the crystal detector, or re-adjusting the first condenser. Almost any good valves will be satisfactory with this receiver, and the B battery voltage should preferably be between 60 to 90 volts. One good feature of the circuit is that it is practically non-interfering. This means that there are no howls to worry you or your neighbors, so that this receiver is classed under the heading of "non-radiating receivers." In conclusion, I recommend articularly the use of a stabilised carborundum crystal detector unit for best results. The potential of this detector is controlled by means of a potentiometer, which allows particularly stable operation.

Cleaning the Radio Set.

A CLEAN radio set is most important if best results are required, and now that many listeners are cleaning their sets, the correct method of cleaning should be fully understood by every amateur. Outside of the regular testing of batteries, valves, aerials, and earth, dust and corrosion must be carefully removed.

The first thing that the serious broadcast listener should do is to dismantle his aerial system, wash the insulators in carbon tetrachloride or some other agent, which will remove the heavy accumulation of dirt and dust. Then examine the aerial itself. Is the lead-in joint tight and making good connection? Has natural oxidisation made a poor connection? Wouldn't it be worth while to put up a new wire and attach a new lead-in? Wouldn't it be worth while to change the direction in order that some of those interstate stations be received? Whilst these matters seldom occur to the average radio set owner, nevertheless they are very important.

Then on the set itself. Take it out of the cabinet, and if a vacuum cleaner is handy, use the long hose attachment and carefully clean every last trace of dirt and dust from the set. Use a pipe cleaner folded double and clean the plates of the condensers thoroughly, and see that the socket connections are bright and shiny, and that the movable connections are all solid, and will last.

Thoroughly clean the set from aerial to earth, cleaning all connections, brushing out dirt from the corners, cleaning off all surfaces where connections are made, testing all valves, and in short, giving your set a house cleaning. You will find out that much better results will be obtained from a set if it is given these periodical cleanings than if it is just dusted off from the inside with little or no attention paid to the inside.

4QG NOTES

MANY and varied are the uses to which broadcasting is put. One of the most interesting cases yet on record comes from Brisbane, where a certain well-known dentist has found that broadcasting on special occasions is an excellent tonic for his patients.

Recently the dentist to whom reference is made had an appointment with a lady patient one morning. On this particular day, a very special function was being broadcast by Station 4QG, and the dentist, having business appointments to keep, and yet not being desirous of missing the special transmission, brought in a small crystal set, ran a talking tape around his room, and fitted up his set with two pairs of 'phones, so that he could listen in to the special transmission. When one of his patients arrived, she greeted him with the remark, "I very nearly did not keep my appointment to-day. 4QG is carrying out a special transmission, and I was very interested in it. I would have liked to have stayed at home, and listened to it."

The dentist smiled, and replied: "Well, you don't need to miss it. I have my set here; so we will go on with the job, and both listen in, too."

Making his actions fit the words, the dentist then adjusted two sets of 'phones, placed one over his patient's ears, and one over his own. He then proceeded with the filling of a very troublesome tooth, and while the operation was in progress, both dentist and patient listened in to 4QG's transmission. The dentist was able to do his work very much better, and the patient did not feel a single twinge of pain during the whole of the drilling process. Truly, the uses of wireless are very, very wide.

A MOTH INTERFERES.

There was a dramatic interruption at 4QG during the time Lieut. Bert Hinkler was speaking, some few nights ago. A moth, attracted by the bright valves, crossed a safety gap, and short-circuited the high tension supply. The station was off the air for a few moments, and the Director of the station explained to Mr. Hinkler what had happened.

When the station was started up again, and the microphone was switched on, Hinkler remarked that he did not intend to say much about that moth, but could not help remarking that an Avro-Avian had much better habits, and would not have done a thing like that. The secret of the joke lies, of course, in the fact that the "moth" is another type of light aeroplane, a contemporary of the Avro-Avian.

HINKLER A RADIO FAN.

Chatting to the Director of 4QG, during his visit to the station, Lieut. Bert Hinkler expressed great interest in the fittings and equipment of the station, and expressed the hope that, on his return to Queensland, he might be able to spend a whole evening in the station during transmission, and see the modern plant in operation. He was more than interested to hear that the station was Australian-built. "I am a bit of a radio crank myself," he said, "and do quite a lot of listening in at home."

4-QG IN CANADA.

While every mail from across the Pacific brings reports on reception in the States, Canada and Alaska, of the Queensland radio service, one received recently is of outstanding interest.

Mr. P. G. Cox, of Cape Beale, Bamfield, British Columbia, Canada, writes:—

"Perhaps a report on the general reception from Station 4QG from this point, during the present winter, may be of interest. Although I do not think I have missed a single reception since I first picked 4QG up, some eighteen months ago, the reception this winter has not, on the whole, been nearly so good as last, in summer. The last few nights, however, there has been a marked improvement, and to-night, in particular, your station came in "booming" on the Amplion, just like old times. I sincerely hope this improvement will last, as I certainly enjoy your programmes. I tuned in to-night, or this morning, rather, at 3 a.m., about, during the solo, "Bells of the Sea," and enjoyed the balance of the programme with scarcely one fade.

In spite of the poor conditions generally this winter, the main point is that 4QG has pushed through every night for well over a year—a record, considering the distance, that any station could be proud of. Reception, I confess, has not always been a pleasure, owing to a frightful static, but I would feel most decidedly annoyed if I could not get at least two items of your nightly programmes. Hoping the present improvement in reception continues, and with best wishes for the continued success of your station during the coming year."

Surely this is a wonderful report.

WOMEN'S COLUMN

(By Dorothy Jordan, Conductor of the Women's Session, 2BL.)

Don't let peas and beans go to waste. Preserve them this way:—

All material for preserving or pickling should be of the best; it is impossible to get good results from old peas or stringy beans. The peas should be young and very green. Shell them, and throw them into cold water. Have a pan of slightly salted boiling water on the stove; throw the peas into this from the clean, cold water, and cook for three minutes. Then take out, and rinse under the cold tap. Have the jars ready, with a teaspoonful of sugar at the bottom of each. Fill with the peas, and then fill nearly to the top with slightly-salted cold water. Cover with the lids, but do not fasten tightly, or, in the process of cooking, they may burst; and set in a large pan, packing hay or a duster round each bottle, to prevent breaking or cracking. Pour in enough cold water to come to the neck of each bottle, heat quickly, and boil 1¾ hours. Then lift jars out, put on the rubbers, and fasten down quickly. Let jars cool off gradually, in a cool place free from draughts.

To Preserve Beans.—

The French beans should be strung each side, unless they are very young. Cut down centres and across. Boil in exactly the same manner as the peas, except that a small piece of carb. soda should be added to the boiling water. Wash under the tap, and pack into jars (without sugar), filling the jars to the top with cold water. Bring to the boil, as described above, and finish off in the same way.

Keep Your Own Machinery Fit.

Drink lots of water (between meals).

Regulate your body with foods; not medicine.

Eat fruit and vegetables every day.

Eat sparingly of fried foods and pastry.

Meat once a day is enough.

Do not worry.

Dr. Harvey Sutton, Chief Medical Officer of the Education Department (who lectures from 2BL each Wednesday, during the Women's Session), says:—

"We find that many children are left very pale and weak, because they have been allowed to run about carelessly during an attack of mumps, or other so-called childish ailment. This condition often persists for months, and the little ones are miserable and often backward.

"Where an infectious disease breaks out in a home, the infected child should be isolated from the others, in a well-ventilated room, and the other children should sleep out of doors, or, failing out of doors, in separate well-ventilated bedrooms. Any utensil or article used in common in the household, must be controlled, the sick child having its own drinking vessel, towel, etc., which should be treated with boiling water after use."

Dr. Harvey Sutton welcomes any letters, relative to your children's health, and will answer them personally.

HAVE THE MARCH 'RADIO' DELIVERED TO YOUR DOOR

HERE is your opportunity of making sure of receiving a copy of the special exhibition issue of 'RADIO' delivered free to your home.

You should not miss this issue even if you do not get 'RADIO' regularly, for it contains, in addition to the two leading technical articles of the year, short stories of merit, humorous articles illustrated by the best artists and numerous other features, both important and interesting to radio enthusiasts.

See Also Subscription Form on Page 62

PLEASE send post free to the following address, one copy of the Special Exhibition Number of "RADIO," for March 21, 1928, for which I enclose 1/1 in stamps.*

Name .....

Address .....

.....

.....

*Note.—This places me under no obligation whatever to subscribe regularly to "Radio."

Fill in, clip out, and forward this coupon to the "Circulation Department, Wireless Newspapers, Ltd., 51 Castlereagh-street, Sydney," enclosing 1/1 in stamps. A copy of the Special MARCH Issue of "Radio" will be posted to you by return mail.

BROADCASTING PROGRAMMES for the COMING WEEK

Friday, April, 6

2FC, SYDNEY

Farmer's Broadcasting Service.

Wave Length, 442 Metres.

MORNING SESSION.

11 a.m.—"Big Ben" and programme announcements.
11.5 a.m.—Studio music and news service.
12 noon.—"Big Ben." Close down.

AFTERNOON SESSION.

2.45 p.m.—Programme announcements.
2.50 p.m.—A record recital of Easter music.
3.45 p.m.—From the Capitol Theatre, Sydney. Items by Mr. Scholl, at the Wurlitzer Organ, with a description of how the various effects are obtained.
4.30 p.m.—From the Studio: Musical items and news.
4.45 p.m.—Close down.

EVENING SESSION.

7 p.m.—"Big Ben" and announcements.
7.2 p.m.—From St. Mark's Church of England, Darling Point: Stainer's "Crucifixion," rendered by the Choir.
8 p.m.—"Big Ben." From the Lyceum Hall, Pitt Street, Sydney (by arrangement with the Central Methodist Mission), a programme supplied by 2FC. The New South Wales Tramway Band.
8.7 p.m.—Sydney Calland, baritone: "The Floral Dance."
8.15 p.m.—JOYCE FOREMAN, elocutionist:
8.20 p.m.—Rosina Madell, soprano: "The Lord is My Light" (Allitsen).
8.28 p.m.—The N.S.W. Tramway Band:
8.39 p.m.—Peggy Dunbar, contralto:
(a) "Beyond the Dawn" (Sanderson).
(b) "My Treasure" (Trevalsa).
8.47 p.m.—Henri Penn pianoforte solos:
(a) "Prelude in C" (Bach).
(b) "Alla Turca" (Mozart).
(c) "Musical Box" (Pouishnoff).
(d) "Humoreske" (Levine).
8.59 p.m.—The Bennett North Vocal Quartette:
(a) "Sleep, Gentle Lady" (Bishop).
(b) "O, Peaceful Night" (German).
9.5 p.m.—From the Studio: During the interval at the Lyceum, news items will be given.
9.10 p.m.—From the Lyceum Hall, Pitt-street: Continuation of the Concert by 2FC artists. The N.S.W. Tramway Band: Group of Hymn tunes.
9.16 p.m.—Sydney Calland, baritone: "My Ships" (Barrett).
9.22 p.m.—Joyce Foreman, elocutionist:
9.26 p.m.—The N.S.W. Tramway Band.
9.32 p.m.—Rosina Madell, soprano: "The Dream of Home" (Arditti).
9.37 p.m.—Henri Penn, pianoforte solos:
(a) "Air and Tambourin" (Benjamin).
(b) "Romance" (Sapelnikoff).
(c) "Tarantelle" (Nicode).
9.50 p.m.—Peggy Dunbar, contralto:
(a) "O Night of Stars" (Thompson).
(b) "Coming Home" (Willeby).
9.58 p.m.—The Bennett North Vocal Quartette:
(a) "In this Hour" (Pinsuti).
(b) "When Hands Meet" (Pinsuti).
10.4 p.m.—The N.S.W. Tramway Band: Selection.
10.15 p.m.—National Anthem. Close down.

2BL, SYDNEY.

Broadcaster's Ltd.

Wave Length, 353 Metres.

FRIDAY, 6th APRIL, 1928.

MORNING SESSION.

11 a.m.—Service Broadcast from St. Judes Church of England, Randwick.

AFTERNOON SESSION.

3.30 p.m.—The Wurlitzer Organ from the Arcadia Theatre, Chatswood. Organist, Mr. N. Robins. Intersperse with descriptions of ring events and items of interest from the Royal Agricultural Show Ground.
5 p.m.—G.P.O. Clock and chimes.

EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes. Children's Session.
7 p.m.—Close down.
8 p.m.—G.P.O. Clock and chimes. Concert broadcast from the Excelsior Theatre Campsie. Artists: Miss Amy Ostinga, contralto. Mr. Alfred Wilmore, tenor. Mr. Robert Turner, elocutionist. Miss Ina Thornton, soprano. Mr. Maynard Wilkinson, accompanist. The Canterbury District Band.
10.15 p.m.—G.P.O. Clock and chimes. National Anthem.

2 UW, SYDNEY

Sandel Radio, Ltd.

Wave Length, 267 Metres.

FRIDAY, 6th APRIL, 1928.

Station closed down for Easter Holidays.

3LO, MELBOURNE

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

FRIDAY, 6th APRIL, 1928.

MORNING SESSION.

10.30 a.m.—Express train information. Announcements.
10.45 a.m.—MORNING SERVICE FROM ST. PAUL'S CATHEDRAL:
Sentence.
Exhortation.
General Confession.
The Absolution.
The Lord's Prayer.
Psalm 22.
First Lesson.
Te Deum.
Second Lesson.
Benedictus.
The Apostles' Creed.
The Collects.
The Anthem, "Come Unto Him" (Gounod).
Prayers.
Hymn (A. and M.), 332, "There is a Green Hill Far Away."
Sermon, The Precentor.
Hymn 108, "When I Survey the Wondrous Cross."
The Benediction.
Being Good Friday, the service will be of a quiet character; only the Psalm, Anthem and Hymns will be sung.
12 noon.—Close down.

AFTERNOON SESSION.

3 p.m.—BERTHA JORGENSEN'S QUARTETTE: "Mendelssohn's Melodies."
3.10 p.m.—ISOBEL BIDDELL, contralto: "O Rest in the Lord"—Elijah (Mendelssohn) "Jesus of Nazareth—King" (Handel).
3.17 p.m.—BESSIE GAUNSON, violin, and BERTHA JORGENSEN, violin: "Slow Movement Bach Double Concerto for Two Strings."
3.25 p.m.—J. ALEXANDER BROWNE, baritone: Rec't., "I Feel the Deity Within." (Handel). Aria, "Arm, Arm, Ye Brave."
3.32 p.m.—BERTHA JORGENSEN'S QUARTETTE: "String Quartette" (Mozart).
3.42 p.m.—HELGA BRENNICKE, 'Cello: "Kol Nidrei" (Max Bruch).
3.50 p.m.—BERTHA JORGENSEN'S TRIO: "Trio" (Beethoven).
4 p.m.—ISOBEL BIDDELL, contralto: "There is a Green Hill Far Away" (Gounod) "Easter Hymn" (Frank Bridge).
4.7 p.m.—AGNES FORTUNE: Selection (Chopin).
4.17 p.m.—COLIN THOMSON, tenor: "Onaway, Awake Beloved" (Coleridge-Taylor). "The Shepherdess" (Macmurrough).
4.24 p.m.—BERTHA JORGENSEN'S QUARTETTE: "Easter Fantasia" (Lake).
4.30 p.m.—J. ALEXANDER BROWNE, baritone: "The Threshold" (Kennedy Russell). "Vale" (Kennedy Russell).
4.37 p.m.—THE SHRINE OF REMEMBRANCE.—The movement for the erection of a Shrine of Remembrance to our soldiers, is one that should awaken thoughts of those dark days through which we passed when we had our backs to the wall in a grim struggle for the safety and security of the Empire and for the maintenance of civilisation.—The Lord Mayor of Melbourne (Sir Stephen Morell).

4.38 p.m.—DOROTHY ROXBURGH, viola:
"Rondeau" (Stanitz).
4.45 p.m.—COLIN THOMSON, tenor:
"The Prize Song," the Meistersingers (Wagner).
"Now Sleeps the Crimson Petal" (Quilter).
4.50 p.m.—BERTHA JORGENSEN'S QUARTETTE:
"String Quartette"—Andante (Dittersdorf).
5 p.m.—Close down.

EVENING SESSION.

6 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
6.20 p.m.—CAPT. DONALD MacLEAN will talk to Young Australians on "Choice and Destiny."
6.35 p.m.—Musical interlude.
.40 p.m.—"BILLY BUNNY": Stories of the Australian Bush."

NIGHT SESSION.

p.m.—Organ recital from Scots Church—MANSLEY GREER.
Suite Gothique (Boellmann).
1. Chorale.
2. Minuet Gothique.
3. Prière a Notre Dame.
4. Toccata.
Prayer and Cradle Song (Guilman).
Offertoire in D flat (Salome).
Short Prelude and Fugue in B flat (Bach).

BRASS BAND MUSIC.

7.30 p.m.—COLLINGWOOD CITIZENS' BAND:
Sacred March, "Lord of Kings."
Cornet Solo, "'Abide with Me."
7.40 p.m.—J. HOWARD KING, baritone:
"Within These Sacred Bowers" (Mozart).
7.47 p.m.—COLLINGWOOD CITIZENS' BAND:
Overture, "The Golden Sceptre."
7.57 p.m.—ISOBEL BIDDELL, contralto.
"Woe Unto Them"—Elijah (Mendelssohn).
"Ave Maria" (Schubert).
8.4 p.m.—COLLINGWOOD CITIZENS'
Sacred Ballade, "The Holy City."
"The Rosary."
8.14 p.m.—J. OWARD KING, baritone:
"Lord God of Abraham" ("Elijah"—Mendelssohn.)
8.21 p.m.—COLLINGWOOD CITIZENS' BAND:
Hymns: "Jesus Lover of My Soul."
"Nearer My God to Thee."
8.26 p.m.—ISOBEL BIDDELL ,contralto:
"The Heart Worships" (Holst).
"Yonder" (Oliver).
STRING QUARTETTE AND VOCAL ITEMS.
8.33 p.m.—BERTHA JORGENSEN'S QUARTETTE:
"Overture" (Haydn).
WESLEY CHURCH CHOIR (Conductor, Wm. G. James).
Hymns.
SAFFO ARNAV, soprano:
"Ave Maria" (Gounod).
(With violin obligato by Bertha Jorgensen.)
WESLEY CHURCH CHOIR:
"Give ear unto My Prayer" (Arcadelt).
"Lead, Kindly Light" (Buck).
AGNES FORTUNE:
"Prelude" (Chopin).
A. BOSSENCE:
"Song of Penitence" (Beethoven).
BERTHA JORGENSEN'S QUARTETTE:
Quartette (Beethoven).
WESLEY CHURCH CHOIR:
"Hear My Prayer" (Mendelssohn).
Soloist, Saffo Arnav, soprano.
BERTHA JORGENSEN, violin:
Slow movement from Mendelssohn Concerto.
A. BOSSENCE:
"O Glorious Night" (Bach).
"The Knight of Bethlehem" (Thomson).
PIANO QUINTETTE (Schumann).
Agnes Fortune and Bertha Jorgensen's Quartette.

10 p.m.—Meteorological information.
Announcements.
OUR GREAT THOUGHT: THE SHRINE OF REMEMBRANCE.
"We talk of Remembrance. Let us act our lives as if we ourselves really were making some sacrifice in remembrance of the great sacrifice made by the brave men who went forth to war during those terrible five years. It is our duty to continuously do some personal deed of sacrifice lest we forget what we owe, not only to those who gave their lives, but the vast numbers who came back permanently injured and all who did THEIR duty. It is OUR duty to raise a monument so that our children and children's children will preserve a reverential feeling of remembrance of what they also owe to the men who did such noble deeds to make the foundation of liberty and civilisation more secure."—Mr. Goerge Swinburne.
10.5 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

Associated Radio Co.

Wave Length, 484 Metres.

FRIDAY, 6th APRIL, 1928.

MORNING CHURCH SESSION.

11 a.m.—Morning Service from Independent Church, Collins Street, Melbourne.
Preacher, Rev. R. B. Reynold, M.A., B.D.
12 noon.—MIDDAY CONCERT SESSION. Transmitted from Panatrope House, 252 Collins Street (by exclusive permission of Wills and Paton, Ltd)., on the Brunswick Panatrope.

MATINEE SESSION.

ORCHESTRAL CONCERT.

2.3 p.m.—Melbourne Concert Orchestra:
Ballet Suite, "Sylvia" (Delibes).
2.23 p.m.—Miss Vera Thomson, soprano:
"Ave Maria" (Cherubini).
"Gentle Shepherd" (Pergolesi).
2.31 p.m.—Melbourne Concert Orchestra:
"Schubert's Songs" (arr. Roberts).
2.48 p.m.—Mr. Ronald Brearley, 'cello:
"Largo" (Handel).
2.52 p.m.—Miss Vera Thomson, soprano:
"Del mio Dolce Ardor" (Gluck).
"The Joy of a Rose" (Tarbox).
3 p.m.—Melbourne Concert Orchestra:
"Andante Cantabile" (Tschaikowsky).
"Notturno" (Becce).
"Scherzo" (Mendelssohn).
3.15 p.m.—Mr. Herbert Pettifer, violin:
"Tarantelle "(Bohm).
3.19 p.m.—Mr. Chas. Trewavis, baritone.
"Within these Sacred Bowers" (Mozart).
"I will not grieve" (Schumann).
3.27 p.m.—Melbourne Concert Orchestra:
"Romance sans Paroles" (Rebikoff).
3.30 p.m.—Interval Announcements.
3.40 p.m.—Melbourne Concert Orchestra:
Overture, "The Merrymakers" (Coates).
"Adagio Cantabile" (Beethoven).
3.52 p.m.—Mr. Chas. Trewavis, baritone:
"Prologue from Pagliacci" (Leoncavallo).
"Onaway Awake Beloved" (Cowen).
4 p.m.—G.P.O. Clock says "Four."
4.1 p.m.—Second weather forecast.
4.3 p.m.—Melbourne Concert Orchestra:
"Bandanna Sketches" (White).
4.10 p.m.—Miss Jean Lewis, contralto;
"Elegie" (Massenet).
"Songs my Mother taught Me" (Dvorak).
4.17 p.m.—Melbourne Concert Orchestra:
"Gipsy Pictures" (Hugh Mallory).
Suite, "Melodique" (Friml).
4.35 p.m.—Miss Jean Lewis, contralto:
"The Sweetest Flower that Grows" (Hawley).
"Annie Laurie" (Lehmann).
4.42 p.m.—Melbourne Concert Orchestra:
"In Arcady" (Nevin).
4.55 p.m.—To-night's Entertainment and Announcements.
5 p.m.—G.P.O. Clock says "Five."
"God Save the King."

CHILDREN'S SESSION.

3AR's Cousin Peter.

EVENING SESSION.

7.30 p.m.—Special Programme from St. Paul's Church, Bendigo.
7.45 p.m.—Church Bells.
8 p.m.—G.P.O. Clock says "Eight."
8.1 p.m.—Hymn, "Rock of Ages."
Introductory by Archdeacon Herring.
St. Paul's Choir:
'The Crucifixion" (Stainer).
Soloists, Messrs. Cyril Warne and W. Mansell.
9.15 p.m.—Mr. F. R. Sydes, Organ solo.
"Solemn March" (Meacham).
Mr. E. A. Miller, solo:
"A New Commandment," from "Olivet to Calvary."
Misses D. Penfold and Hazelwood, duet:
"Oh Divine Redeemer" (Gounod).
Mr. Cyril Warne, solo:
"Oh was there ever Loveliness," from "Olivet to Calvary."
Miss D. Penfold, solo:
"I know that my Redeemer liveth," from the "Messiah" (Handel).
St. Paul's Choir, Anthem:
"Lead, Kindly Light" (Pughe).
Soloist, Mrs. R. Munro.
Miss F. Hazlewood, solo:
"He was despised," from "Messiah" (Handel).
Mr. F. R. Sydes, Organ solo:
"Grand Choeur" (Salome).
Misses D. Penfold and F. Hazlewood, Messrs. C. Warne and R. Hood, quartette:
"Shepherd of Souls."
Miss B. McQualter, solo:
"With Verdure Clad."
Mrs. F. M. Warne, solo:
"When I survey the Wondrous Cross" (Laurence Hope).
St. Paul's Choir, Anthem:
"There is a Green Hill" (Gounod).
Soloists, Miss L. Schilling and Mr. Cyril Warne.
10 p.m.—"Age" News Bulletin, exclusive to 3AR.
10.4 p.m.—Weather forecast.
10.5 p.m.—Australian Good-night quote is taken from "God Loveth Strength," by Mary Gilmour.
10.6 p.m.—"God Save the King."
Close down.

4QG, BRISBANE.

Queensland Radio Service.

Wave Length, 385 Metres.

FRIDAY, 6th APRIL, 1928.

(GOOD FRIDAY).

MORNING SESSION.

The complete morning service will be relayed from Albert Street Methodist Church.
11 a.m.—Morning service.
12 noon.—Close down.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

3.15 p.m.—Band concert.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Bedtime stories by "The Sandman."
7 p.m.—A review of to-morrow's and Monday's sporting events.
7.15 p.m.—Close down.

NIGHT SESSION.

8 p.m.—Baritone Solo:
"When the Great Red Dawn is Shining."
Mr. J. D. McLeod.
A quarter of an hour's fun by "Graham" and "Wattie."

Contralto Solos:
(a) "Keep on Hopin'" (Maxwell).
(b) "Don't Hurry" (Sanderson).
Miss Lorraine Lochner.
A Dickens Reading by Mr. H. Humpreys.
Tenor Solo:
"Oft in the Stilly Night" (Moore).
Mr. C. T. Birkbeck.
Pianoforte Solo: Selected.
Mrs. Hilda Woolmer.
"Sandy" and "Percy" will entertain for a few minutes.
9 p.m.—Metropolitan weather forecast.
9.15 p.m.—The latter portion of to-night's programme will take the form of the first of a series of four Radio Novelties, which will be presented to listeners over a period of six weeks.

Those who are interested in the Novelty should arm themselves with a piece of paper and a pencil, and should listen carefully to the preliminary instructions which will be given from the station at the commencement of the Radio Novelty.

Briefly, the scheme is as follows:—

The Radio Novelty will last over four nights the first portion will be given to-night, the second portion on Saturday, April 14th, the third on Friday, April 20th, and the fourth on Monday, April 23rd.

On each of the nights the announcer at 4QG will ask listeners a series of 12 questions.

These questions will deal with ordinary everyday current events. The object of the question i. to test the general knowledge of listeners.

Radio enthusiasts who follow up the competition will be asked to write their answers to the questions on a sheet of paper, to keep their replies till the whole of the questions have been asked over the four nights, and then post them to the station, marking the envelope across the corner, "A Test of Wits."

The listener who correctly answers all the questions will receive a prize of £5. In the event of no listener correctly answering the questions the prize will be awarded to the listener whose replies are nearest to being correct. In the event of more than one listener correctly answering all the questions, the correct replies will be placed into a container, a drawing wil be made, and a prize awarded accordingly.
10.1 p.m.—"The Daily Mail" news; weather news; close down.

5CL, ADELAIDE.

Central Broadcasters, Ltd.

Wave Length, 395 Metres.

FRIDAY, 6th APRIL, 1928.

MORNING SESSION

11 a.m.—Devine Service.
12.1 p.m.—"Advertiser" news service and British Wireless news.
12.30 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Sacred service.
4 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
6.1 p.m.—For the children:
"The Story of Easter" with appropriate music.
6.40 p.m.—Sacred numbers on the Studio "Recreator."
7 p.m.—G.P.O. Chimes.
7.1 p.m.—Relayed from Lutheran Church Flinders Street, evening Divine service.
8.10 p.m.—(Approx) Sacred Concert from Flinders Street, Lutheran Church.
9.1 p.m.—Meteorological information.
9.3 p.m.—British Wireless news.
9.15 p.m.—Sacred concert from Studio.
10 p.m.—G.P.O. Chimes.
10.1 p.m.—Sacred concert continued.
10.30 p.m.—Close down.

6WF, PERTH

Westralian Farmer's.

Wave Length, 1250 Metres.

FRIDAY, 6th APRIL, 1928.

(GOOD FRIDAY.)

MORNING SESSION.

10.45 a.m.—Tune in.
11 a.m.—Morning church service.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
3.35 p.m.—From the Studio.
Musical programme, including vocal and instrumental artists.
Items by the Misses Sutton and Foley, Instrumental Duo, of the s.s. Karoola.
4.30 p.m.—Close down.

EVENING SESSION.

7 p.m.—Tune in.
The evening tranmission is broadcast on 104.5 metres as well as the usual wavelength.
7.5 p.m.—Children's Bedtime stories.
7.30 p.m.—Grand Cantata.
10.5 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 7 p.m.

7ZL, HOBART

Tasmanian Broadcasters, Ltd.

Wave Length, 516 Metres.

FRIDAY, 6th APRIL, 1928.

MORNING SESSION.
11 a.m. to 12 noon.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes the hour.
3.1 p.m.—Musical selection.
3.5 p.m.—Hobart Stock Exchange Quotations.
Weather information.
Items of interest.
3.15 p.m.—Selections by 7ZL Studio Trio:
"Brise de Soir" (Gillet).
Suite, "Tales by Moonlight" (Thomas).
Violin Solo. Selected. Mr. E. J. McCann.
Selections from a Children's Suite, (Ansell).
A Comeo "Colerdge" (Taylor).
"Salut d'Amour" (Elgar).
"Sparklets" (Miles).
4.15 p.m.—Educational talk.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30p.m.—Children's Corner with the Radio Lady.
7.15 p.m.—Young Folks gardening chat by Mr. George Nation.

NIGHT SESSION.

7.30 p.m.—Fruit and Produce reports through the courtesy of Roberts and Co. Ltd.
7.35 p.m.—Gardening talk by Mr. George Nation, Glen Nurseries, Cascades.
7.50 p.m.—Murcury special Tasmanian news service.
Railway auction produce sales.
Weather forecasts.
Hobart Stock Exchange quotations.
8 p.m.—G.P.O. Clock chimes the hour.
8.1 p.m.—Broadcast by direct wire from Lyceum Club, Hobart. Weekly Lecture.
Concert from the Studio.
Miss Elsie Lampkin, soprano.
Miss Beryl Scetrine, soprano.
Miss Ruby Piesse, accompanist.
Mr. Harry Foster, baritone.
Mr. E. Nanscawen, tenor.
9 p.m.—Talk by Member of Scottish Delegation en route on visit to Scotland.
9.30 p.m.—Cricket Chat by Mr. A. O'Leary.
9.40 p.m.—British Official Wireles news.
9.50 p.m.—Mercury special Interstate news service.
Ships within wireless range.
Tasmanian District weather reports.
9 p.m. Weather reports.
Travellers week-end information.
Tasmanian District Weather reports.
Station announcements.
Saturday's programme.
10 p.m.—Close down.

Saturday, April 7

2FC, SYDNEY.

HOLIDAY PROGRAMME.

10 a.m. to 11.30 a.m.

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.
12.5 p.m.—Studio music.
12.20 p.m.—"Sydney Morning Herald" news.
12.30 p.m.—Rugby Wireless news.
12.35 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
1.20 p.m.—Studio music.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.2 p.m.—The "Smart Set" Instrumental Trio. Popular numbers.
3.12 p.m.—Peggy Shaw, soubrette.
3.18 p.m.—Jack Wright, novelty pianist.
3.25 p.m.—John F. Dean, entertainer.
3.35 p.m.—From The Ambassadors:
The Ambassadors Dance Orchestra, conducted by Al Hammet.
3.50 p.m.—From the Studio:
Peggy Shaw, soubrette.
3.55 p.m.—The "Smart Set" Instrumental Trio. Popular numbers.
4.5 p.m.—John F. Dean, entertainer.
4.10 p.m.—From The Ambassadors:
The Ambassadors Dance Orchestra.
4.25 p.m.—From the Studio:
Peggy Shaw, soubrette.
4.30 p.m.—Jack Wright, novelty pianist.
4.40 p.m.—The "Smart Set" Instrumental Trio
4.50 p.m.—Racing and Sporting resume.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The Chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the children.
6.15 p.m.—Story time for the young folk.
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting information.
7.15 p.m.—Weather intelligence.
7.18 p.m.—"Evening News" late news service.
7.28 p.m.—Studio music.

EVENING SESSION.

7.30 p.m.—Programme announcements.
7.35 p.m.—"A Street Scene in Sydney."
7.45 p.m.—Introductory remarks and a description of the new "Capitol" Theatre.
8 p.m.—"Big Ben." Broadcast for the first time from the Capitol Theatre.
The "Capitol" Symphony Orchestra of 32

players, will play the prologue, followed by Mr. Scholl, at the Wurlitzer Organ.
Items by Ted Henkel and his Stage Band of 20 players.
A Vocal Quartette will sing several numbers in association with the Stage Prologue.
9.5 p.m.—From the Studio:
Late weather forecast.
9.6 p.m.—Virginia Bassetti, contralto.
9.13 p.m.—From The Ambassadors:
Dance music by the Ambassadors Orchestra, conducted by Al Hammet.
9.20 p.m.—Fraser Coss, baritone.
9.28 p.m.—Douglas McKinnon, concertina items.
9.33 p.m.—James Donnelly, tenor:
College songs.
9.40 p.m.—From The Ambassadors:
The Ambassadors Dance Orchestra, conductor, Al Hammet.
9.48 p.m.—Virginia Bassetti, contralto.
9.55 p.m.—From The Ambassadors:
Dance music.
10.2 p.m.—Fraser Coss, baritone—From the Studio.
10.8 p.m.—From The Ambassadors:
The Ambassadors Dance Orchestra.
10.18 p.m.—From the Studio:
James Donnelly, tenor.
10.24 p.m.—Douglas McKinnon:
Concertina numbers.
10.30 p.m.—From The Ambassadors:
Dance music.
10.38 p.m.—From the Studio:
Late weather forecast.
10.39 p.m.—The Ambassadors Dance Orchestra
10.57 p.m.—From the Studio:
To-morrow's programme and late news.
11 p.m.—"Big Ben." The Ambassadors Dance Orchestra.
11.45 p.m.—National Anthem. Close down.

2BL, SYDNEY.

SATURDAY, 7th APRIL, 1928.

EARLY MORNING SESSION.

8 a.m.—G.P.O. Clock and chimes.
Metropolitan Weather report.
8.1 a.m.—State Weather report.
8.2 a.m.—Tides at Fort Denison.
8.3 a.m.—Musical programme from the studio.
8.15 a.m.—G.P.O. Clock and chimes.
News from "Daily Telegraph Pictorial".
8.25 a.m.—Musical programme from the studio
8.30 a.m.—G.P.O. Clock and chimes.
Musical programme from the studio.
8.35 a.m.—Information, Mails, Shipping arrivals, departures and sailings.
8.38 a.m.—News from the "Daily Telegraph Pictorial"
8.45 a.m.—G.P.O. Clock and chimes.
Musical programme from studio.
9 a.m.—G.P.O. Clock and chimes.
Close down.

MORNING SESSION.

During the day description of ring events from the Royal Agricultural Show.
11 a.m.—G.P.O. Clock and chimes.
Social Notes by Mrs. Jordan.
Talk on "Simple Cooking for Children" by Mrs. Jordan.

AFTERNOON SESSION.

Racing information broadcast immediately after each race by courtesy of the "Sun."
12 noon.—G.P.O. Clock and chimes.
Special Ocean Forecast and weather report.
12.3 p.m.—Musical programme from the studio
12.20 p.m.—News from the "Sun."
12.25 p.m.—Sporting and athletic fixtures.
12.27 p.m.—What's on at the Pictures and Theatres.
12.30 p.m.—Musical programme from the studio.
12.40 p.m.—News from the "Sun."
12.50 p.m.—Musical programme from the studio.
1 p.m.—G.P.O. Clock and chimes.
During the afternoon descriptions of each race at Randwick races will be broadcast interspersed with musical items from the studio.
4.55 p.m.—Racing resume.
5 p.m.—G.P.O. Clock and Chimes.
Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
Children's Session.
6.30 p.m.—Racing Resume.
Sporting resume.
7 p.m.—G.P.O. Clock and chimes.
Dinner Music.
7.30 p.m.—Talk on "Aborigines" by "Bringa."
8 p.m.—G.P.O. Clock and chimes.
Broadcasters Topical Chorus.
8.3 pm..—Heyes Banjo Band.
8.10 p.m.—Miss Ethel Friend, contralto.
8.17 p.m.—Miss C. L. Robertson, elocutionist.
8.24 p.m.—Mr. Harry Ross, tenor.
8.31 p.m.—Broadcasters Instrumental Trio.
8.38 p.m.—Miss Bertha Waters, soprano.
8.54 p.m.—Broadcdast from the Stadium: A discription of the boxing contest by Mr. Basil Kirke.
9.30 p.m.—From the Studio:
Heyes Banjo Band.
9.37 p.m.—Miss Ethel Friend.
9.44 p.m.—Miss C. L. Robertson.
9.51 p.m.—Mr. Harry Ross.
9.58 p.m.—Broadcasters Instrumental Trio.
10.5 p.m.—Miss Bertha Waters.
10.13 p.m.—Resume of following day's programme.
10.15 p.m.—G.P.O. Clock and chimes.
The Wentworth Cafe Orchestra under the direction of Mr. S. Simpson broadcast from the ballroom of the Wentworth. During intervals between dances "Sun" news will be braodcast.
11.30 p.m.—G.P.O. Clock and chimes.
National Anthem.

2 UW, SYDNEY

SATURDAY, 7th APRIL, 1928.

Station closed down for Easter Holiday.

3LO, MELBOURNE.

SATURDAY, 7th APRIL, 1928.

EARLY BORNING SESSION.

7.15 a.m.—Jazz Jingles for the Gymnastic Jerks.
7.20 a.m.—Physical Culture Exercise (to the Jazz Jingles).
7.33 a.m.—Weather forecasts for all States.
7.40 a.m.—News.
8 a.m.—Melbourne Observatory Time Signal.
8.1 a.m.—Jazz Jingles.
8.5 a.m.—NEWS. Sporting information. Shipping, Stock Exchange information.
8.13 a.m.—Jazz Jingles.
8.15 a.m.—Close down.

MORNING SESSION.

11 a.m.—THE STATION ORCESTRA:
"A Musical Switch" (Alford).
11.10 a.m.—ETHEL MULLER, contralto:
"Just a Ray of Sunlight" (Squire).
"My Message" (D'Hardelot).
11.17 a.m.—THE STATION ORCHESTRA:
Selection, "San Toy" (Sid Jones).
Fox-trot, "Drifting and Dreaming" (Schneider).
11.32 a.m.—KATHLEEN NICHOLS, soprano:
"The Carnival" (J. Molloy).
"The Dawn has a Song" (M. Phillips).
11.52 a.m.—THE STATION ORCHESTRA:
"Three Arabian Dances" (Mont Ring).
11.45 a.m.—ETHEL MULLER, contralto:
"If Any Little Song of Mine" (Del Riego).
"Come, for it's June" (Dorothy Forster).
11.52 p.m.—THE STATION ORCHESTRA:
"Floods of Spring" (Rachmaninoff).
"Rescuendo" (Soro).

MIDDAY SESSION.

12 noon.—British Official Wireless news from Rugby. Reuter's and The Australian Press Association cables. "Argus" news service. Announcements. Description of PENNANT CRICKET—Finals.
12.20 p.m.—THE STATION ORCHESTRA:
Three Dances from "The Rebel Maid."
12.30 p.m.—KATHLEEN NICHOLS, soprano:
"Ave Maria" (Millard).
"The Lilac Tree" (Millard).
12.37 p.m.—THE SHRINE OF REMEMBRANCE:
"To the great army of men whose comradeship is a sweet momory; to the host of Victorian men and women who have borne with fortitude and proud suffering the loss of dear sons, fathers, brothers, relatives and friends, and to all who served their country in time of war, and found pleasure in the serving and compensation in the sacrifice, we stretch forth our hands in an appeal, and in assurance that there shall be set up in eternal stone a link with the Great War to retain for the Commonwealth, and for future generations, an appreciation of the freedom so dearly bought.
"Returned Soldiers—the Memorial will commemorate the self-denial of your womenfolk, the sacrifice of a comrade who did not return—make your offering help to build a mark of the nation's gratitude, that when the last of the A.I.F. has passed over there shall yet remain as a legacy the memory of a great name, and the inheritance of a great example."

G. N. S. CAMPBELL,
Organising Secretary.
National War Memorial Committee.

12.40 p.m.—THE STATION ORCHESTRA:
"Valse Pathetique" (Baron).
12.47 p.m.—FRANK and FRANCIS LUIZ:
Duet, "Akaki Oi."
Song, "A Song to Hawaii."
Steel Guitar, "Hawaiian Hotel."
Duet, "My Sweet Hawaiian Hula Girl."
1 p.m.—Melbourne Observatory Time Signal.
1.1 p.m.—OUR FRIEND FROM THE WALLABY TRACK has just called in, and will entertain you with some of the songs he sings as he jogs along the roads that lead to anywhere.
"Dear Little Shamrock."
"Three for Jack" (Squire).
1.5 p.m.—Description of PENNANT CRICKET—Finals.
1.15 p.m.—THE STATION ORCHESTRA:
Suite, "Othello" (Coleridge-Taylor).
1.25 p.m.—OUR FRIEND OF THE WALLABY TRACK will now give another couple of songs before the returns to the broad highways again—
"You Along O' Me" (Sanderson).
"Only the River Running By" (Hopkins).
1.32 p.m.—THE STATION ORCHESTRA:
Selection, "The Street Singer" (Simmson).
2 p.m.—Under the auspices of the National Safety Council, Cr. W. TURNER, Representative of the Trades Hall, will speak on "Safety First."
2.10 p.m.—Description of Stawell Athletic Club Sports from Central Park, Stawell.

AFTERNOON SESSION.

2.20 p.m.—Description of PENNANT CRICKET—Finals.
2.30 p.m.—Description of Doncaster Handicap (A.J.C. Meeting at Randwick Racecourse, Sydney), one mile, transmitted from Randwick Racecourse.

2.36 p.m.—Result of Hurdle Race, two miles, from SANDOWN PARK RACES.

2.37 p.m.—JOHNSTON'S STUDIO BOYS: Selection, "Dance Music."

2.47 p.m.—Description of PENNANT CRICKET—Finals.

3 p.m.—Description of Two-Year-Old Handicap, five furlongs, SANDOWN PARK RACES.

3.5 p.m.—JOHNSTON'S STUDIO BOYS: Selection, "Comic Opera."

3.15 p.m.—Description of Stawell Athletic Club Sports, described from Central Park, STAWELL.

3.20 p.m.—Description of Sandown Plate, six furlongs, SANDOWN PARK RACES.

3.35 p.m.—JOHNSTON'S STUDIO BOYS: Selection, "Marches."

3.50 p.m.—Description of PENNANT CRICKET—Finals.

4 p.m.—Descripton of Sandown Park Handicap, 1¼ mles, SANDOWN PARK Races.

4.5 p.m.—JOHNSTON'S STUDIO BOYS: Selection, "Foxtrots."

4.15 p.m.—Description of PENNANT CRICKET—Finals.

4. 30 p.m.—Description of Sandown Purse, 1 mile, SANDOWN PARK RACES.

4.35 p.m.—JOHNSTON'S STUDIO BOYS: Selection, "Grand Opera."

4.45 p.m.—Weather reports.

4.46 p.m.—Description of PENNANT CRICKET—Finals.

5 p.m.—Description of Trial Welter, 1 mile, SANDOWN PARK RACES.

5.5 p.m.—"Herald" news service. Stock Exchange information. Sporting results.

5.15 p.m.—Close down.

During the afternoon the results of the A.J.C. Races at Randwick and of Kerang Races will be given as they come to hand.

EVENING SESSION.

5.50 p m.—Stumps Cricket. Sporting results.

6 p.m.—Answers to Letters and Birthday Greetings by "LITTLE MISS KOOKABURRA."

6.20 p.m.—Musical interlude.

6.25 p.m.—DICKSON GREGORY: The Arrival of Australia's first steamship—"The Sophia Jane."

6.40 p.m.—"LITTLE MISS KOOKABURRA": An Easter Story—"Mrs. Blackie's chickens seeing the world," and "An Impromptu Performance of Rollo."

NEWS AND MARKET REPORTS.

7 p.m.—Stumps, Pennant Cricket. Sporting results.

7.5 p.m.—"Herald" news service. Weather synopsis. Shipping movements.

7.12 p.m.—Stock Exchange information.

7.17 p.m.—River reports.

7.20 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd.—Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions. Market reports of Fruit by the Victorian Fruiterers' Association—Retail prices. Wholesale prices of Fruit by the Wholesale Fruit Merchants' Association. Citrus fruit.

NIGHT SESSION.

7.30 p.m.—EDWARD E. PESCOTT: "Australian Pen Shaped Flowers"

7.45 p.m.—COLONEL POTTINGER: Asiatic Problems affecting Australia. Present Situations in India.

OLD IRISH FOLK SONGS AND LEGENDS.

8 p.m.—BESSIE GAUNSON, violin: "The Last Rose of Summer." "St. Patrick's Day."

8.10 p.m.—LILLIAN STOTT, soprano: "I know where I'm goin'" "The Spartan Mother's Lullaby." "B for Barney," an Irish Fragment.

8.17 p.m.—BESSIE GAUNSON, violin: "The Wearing of the Green." "Garry Owen."

8.25 p.m.—WILLIAM TAINSH, Elocutionist. Two Irish Stories. "The Settling of the Verse." "Ivy Leaves."

8.40 p.m.—BERTHA JORGENSEN'S QUARTETTE: "Irish Tunes from County Derry" (Grainger).

8.50 p.m.—LILIAN STOTT, soprano: "Slow by the Shadows." "I Wish I had the Shepherd's Lamb."

OF INTEREST TO ALL CYCLISTS.

8.57 p.m.—Description of events at the Motodrome, by "Olympus."

A TUNEFUL TIME.

FROM THE STUDIO

9.7 p.m.—THE STATION ORCHESTRA: "Ballroom Memories" (Arch Joyce).

9.17 p.m.—FRANK and FRANCIS LUIZ: Duet, "Miliana-e" Steel Guitar, "Hawaiian Love." Song, "Me and My Shadow." Duet, "Aloha, Baby BoBy."

9.30 p.m.—Description of to-night's Stadium events, by PERCY TAYLOR. At the conclusion of the match, MR. TAYLOR will give a resume.

MINGLED MELODIES.

FROM THE STUDIO.

10 p.m.—Weather report.

THE STATION ORCHESTRA: "Russian Rural Scene." "Morish Serenade."

10.8 p.m.—OUR FRIEND THE HOBO, in his hob-nailed boots, has just sailed in, and will sing: "I arise from dreams of thee" (Blumenthal.) "Beauty's Eyes" (Tosti).

10.15 p.m.—THE STATION ORCHESTRA: Rustic Revels: 1. "All the Fun of the Fair" (Percy Fletcher). 2. "Quality Court." 3. Dancing on the Green.

10.23 p.m.—MARY MacCORMICK, mezzo: "The Night Wind" (Roland Farley). "A Birthday Song" (MacFadyen).

10.30 p.m.—THE STATION ORCHESTRA: "Valse Bluette" (Del Riego).

10.34 p.m.—Late Sporting Results.

10.45 p.m.—MARY MacCORMICK, mezzo: "The Unforeseen" (Cyril Scott). "The Blackbird's Song" (Cyril Scott). "Lullaby" (Cyril Scott).

10.52 p.m.—THE STATION ORCHESTRA: Selection, "The Passing Show."

11 p.m.—OUR GREAT THOUGHT: THE SHRINE OF REMEMBRANCE—"Those of us who have felt the deep emotion that comes over us while walking through the soldier cemeteries in Flanders and Gallipoli, have thoughts that constantly dwell within us to remind us of the devotion or duty of the thousands of our brave sons. The simple slab in those evergreen God's acres, with the name of the soldier on it, or the words, "Known only to God," make an appeal to remember which we never forget. Let the Shrine of Remembrance in Melbourne be a worthy epitaph to their memory.—George Swineburne.

11.4 p.m.—THE VAGABONDS:

3AR, MELBOURNE

SATURDAY, 7th APRIL, 1928.

MORNING NEWS SESSION.
11 a.m. to 12 noon.

MIDDAY CONCERT SESSION.
12.1 p.m. to 1.55 p.m.

Transmitted from Panatrope House, 252 Collins Street (by exclusive permission of Wills and Paton, Ltd.), on the Brunswick Panatrope.

MATINEE SESSION.

ORCHESTRAL DANCE CONCERT.

Sports Results: During the afternoon the results of the Sandown Park Races will be broadcast immediately each Race is run, together with other information.

2 p.m.—Ayarz Dansonians: A half-hour Dance Session by Melbourne's favorite Dance Band. The latest popular hits, each one announced prior to its presentation.

2.30 p.m.—Melbourne Concert Orchestra: "Overture to an Irish Comedy" (Ansell). Selection, "L'Enfant Prodigue" (Wormser).

2.49 p.m.—Miss Lilian Paton, soprano: "O Love! from Thy Power" (Saint-Saens). "By the Waters of Minnetonka" (Lieurance).

2.57 p.m.—Melbourne Concert Orchestra: Suite, "On the Nile" (Hilse). "Berceuse" (Jarnefelt). "Tree Cuban Dances" (Cervantes).

3.13 p.m.—Miss Lilian Paton, soprano: "Homing" (del Riego). "I Did Not Know" (Trotere).

3.20 p.m.—Melbourne Concert Orchestra: "Ballet Egyptien" (Luigini).

3.30 p.m.—Interval Announcements.

3.40 p.m.—Mr. C. Richard Chugg, flute, and Mr. Ernie Pettifer, clarinet: Duet, "Sweet Longing" (Menzel).

3.44 p.m.—Melbourne Concert Orchestra: "Delibes Fantasie" (Urbach).

4 p.m.—G.P.O. Clock says "Four."

4.1 p.m.—Second weather forecast.

4.3 p.m.—Mr. James Scott, bass: "Rocked in the Cradle of the Deep" (Knight). "On the Beach at Otahi" (Harrison).

4.11 p.m.—Melbourne Concert Orchestra: "Four Dances from the Rebel Maid' (Phillips). Selection, "The Rainbow" (Gershwin).

4.31 p.m.—Mr. James Scott, bass: "Harpenden Common" (Buchanan). "The Jolly Sailor" (Squire).

4.39 p.m.—Melbourne Concert Orchestra: "Selection on Popular Songs" (Lor). "The Savoy Welsh Medley" (Somers).

4.55 p.m.—To-night's Entertainment. Announcements.

5 p.m.—G.P.O. Clock says "Five." "God Save the King."

CHILDREN'S SESSION.

6.30 p.m.—Uncle Mac's Entertainment.

EVENING SESSION.

DANCE CONCERT.

7.30 p.m.—Sport Session: "Harlequin" presents his budget of up-to-date news and comments on Sport of the Day.

7.45 p.m.—Everyman's Garden. Special week-end talks by Mr. W. R. Warner, President of the Nurserymen's and Seedsmen's Association of Victoria.

8 p.m.—G.P.O. Clock says "Eight."

8.1 p.m.—Ayarz Dansonians.

8.16 p.m.—Mr. Tom Semple, tenor: "The Yeoman's Wedding Song" (Ponatowsky). "The Faery Song" (Boughton).

8.24 p.m.—Ayarz Dansonians.

8.40 p.m.—The Sudnowners' Male Quartet: "Oft in the Stilly Night" (Traditional). "Baby O'Toole" (Scarmden).

8.48 p.m.—Mr. Ernie Pettifer, saxaphone: "Valse Yvonne" (Wiedoeft).

8.52 p.m.—Mr. C. A. Jamieson, of China Inland Mission, Kanchow, Kiangsi Province, will speak:
"Nationalists Capture Kanchow."
9.4 p.m.—Ayarz Dansonians.
9.20 p.m.—Mr. Herbert Sanderson, baritone:
"The Vagabond" (Williams).
"To Mary" (White).
9.28 p.m.—Ayarz Dansonians.
9.40 p.m.—The Sundowners' Male Quartet.
"There's everything nice about you" (Wendling).
"Russian Lullaby" (Berlin).
9.48 p.m.—Announcements.
10 p.m.—G.P.O. Clock says "Ten."
10.1 p.m.—Semi-final weather forecast, specially for our Country Listeners.
10.3 p.m.—Ayarz Dansonians.
10.15 p.m.—Mr. Robert Allen, alto:
"Linden Lea" (Williams).
"Vale of Dawn" (Wood).
10.22 p.m.—Mr. Tom Semple, tenor, and Mr. Herbert Sanderson, baritone:
Duet, "Drink to me only" (Traditional).
10.25 p.m.—Ayarz Dansonians.
10.37 p.m.—Mr. Robert Gillard, bass:
"Rolling down to Rio" (Sir Edward German).
"A Banjo Song" (Homer).
10.45 p.m.—"Harlequin." Sports results.
10.50 p.m.—To-morrow's Entertainment. Announcements.
10.58 p.m.—Final weather forecast.
10.59 p.m.—Our Australian Good-night Quote is taken from the poem, "Among the Palms," by Hesketh.
11 p.m.—G.P.O. Clock says "Eleven."
"God Save the King."

4QG, BRISBANE

SATURDAY, 7th APRIL, 1928.

NO MORNING TRANSMISSION.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

The Q.T.C. Race Meeting will be described direct from the Ascot Racecourse.
The commencement of tranmission will depend upon the starting time of the first race, and will be announced from the studio at 7.45 p.m. on the day prior to the races.
5 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Bedtime stories by "Uncle Ben."
7.15 p.m.—Racing results.
7.20 p.m.—To-day's sporting news described.
7.30 p.m.—Sailing notes by Mr. Fred Smith.

NIGHT SESSION.

8 p.m.—Orchestral music by the Tivoli Operatic Orchestra under the baton of Mr. C. Groves.
8.45 p.m.—Motor Cycle Races.
9.30 p.m.—Dance Music.
10 p.m.—"The Sunday Mail" news.
Weather news.
Close down.

5CL, ADELAIDE.

SATURDAY, 7th APRIL, 1928.

MIDDAY SESSION.

12 noon.—G.P.O. Chimes.
12.1 p.m.—"Advertiser" news service and British Wireless news.
12.30 p.m.—Popular numbers on the Studio "Recreator."
1 p.m.—G.P.O. Chimes.
1.1 p.m.—Popular numbers on the "Recreator" interspersed with Kadina and interstate racing results.
2 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Kadina and interstate racing results
3.5 p.m.—Popular numbers on the Studio "Recreator" interspersed with further racing results.
5 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

5.50 p.m.—Resume of the afternoon's sporting results.
6 p.m.—G.P.O. Chimes.
6.1 p.m.—Children's Entertainment by the 5CL Radio Family.
6.30 p.m.—Dinner Music on the Studio "Recreator."
7 p.m.—G.P.O. Chimes.
7.1 p.m.—S. C. Ward and Co's Stock Exchange Intelligence.
7.8 p.m.—Scripture Reading.
7.15 p.m.—Talk on "Heroes of Missions."
7.30 p.m.—"Books and Bookmen" by C. G. Riley.
7.45 p.m.—Summary of local and interstate sporting results.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Orchestral concert by Bijou Orchestra of 50 performers, conducted by J. Hubbard.
9 p.m.—G.P.O. Chimes.
9.1 p.m.—British Wireless news.
9.15 p.m.—Orchestral concert continued.
10.1 p.m.—Interstate and local sporting results.
10.15 p.m.—Dance selections relayed from the Maison de Danse.
10.55 p.m.—Sunday's programme.
1.1 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH.

SATURDAY, 7th APRIL, 1928.

MORNING SESSION.

12 noon.—Tune in.
12.5 p.m.—Musical programme, including pianoforte selections by Miss Evelyn Wills, A.R.C.M.
12.47 p.m.—Markets, news and cables.
1 p.m.—Time signal.
1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Close down.
1.55 p.m.—Tune in.

AT ASCOT.

EASTER MEETING (First day.)
Running commentary of the following Racing events relayed from the Ascot Racecourse, Ascot.
2 p.m.—Glencoe Hurdles, (two miles).
2.40 p.m.—Plantagenet Plate (seven furlongs).
3.20 p.m.—Easter Mile (one mile).
3.30 p.m.—FROM THE STUDIO
Musical programme, including vocal and instrumental artists.
Progressive cricket scores.
4 p.m.—Junior Handicap, (five furlongs).
4.40 p.m.—Osborne Stakes (one mile and three furlongs).
5.20 p.m.—River Handicap, Welter (One Mile and a furlong).
5.30 p.m.—Close down.

EVENING SESSION.

6.45 p.m.—Tune in.
The evening transmission is broadcdast on 104.5 metres as well as the usual wavelength.
6.50 p.m.—Birthday greetings for the Kiddies by Uncles Henry, Bertie and Duffy.
7.10 p.m.—Sports results.
7.20 p.m.—Markets, news, and cables.
7.45 p.m.—Talk.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements such as alterations to programmes, etc.
8.3 p.m.—Music and song.
Musical programme from the studio, including vocal and instrumental artists.
Motor cycling events described in detail relayed from the Claremont Speedway.
10 p.m.—Late news items by courtesy of "The Daily News" newspaper Co.
Ships within Range announcement.
Weather report and forecast.
Sports results.
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of programme given on 1250 Metres, commencing at 6.45 p.m.

7ZL, HOBART

SATURDAY, 7th APRIL, 1928.

MORNING SESSION.
11 a.m. to 12 noon.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes the hour.
Musical selections.
3.15 p.m.—Weather forecasts.
Musical selections continued.
Sporting results announced during session.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Uncle Hector's corner.

NIGHT SESSION.

7.30 p.m.—Musical selections.
7.50 p.m.—Mercury special Tasmanian news service.
Weather forecasts.
Hobart Stock Exchange quotations.
Sporting results.
8 p.m.—G.P.O. Clock chimes the hour.
8.15 p.m.—Dance numbers by the Pavilion Dance Band from the City Hall, Hobart, interspersed with items from the studio.
10.20 p.m.—British Official Wireless news.
Weather information.
Station announcements.
Sunday's programme.
Close down.

Sunday, April 8

2FC, SYDNEY.

MORNING SESSION.

10.55 a.m.—Programme announcements.
11 a.m.—"Big Ben."
From St. Andrew's Cathedral, George Street, Sydney:
The Morning Service.
Conducted by the Very Rev. Dean Talbot (Dean of Sydney).
12.15 p.m.—From the Studio:
News service and Musical items.
12.30 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben."
From the Lyceum Hall, Pitt Street, Sydney:
Pleasant Sunday Afternoon Service, arranged by the Central Methodist Mission.
Special programme by the Choir, conducted by Rev. A. H. Wood, M.A., B.D.
Special Address by Rev. John G. Wheen, President General of the Methodist Church in Australia.
Assisting artists:
Robert Turner, elocutionist.
Jessie Winchester, soprano.
4 p.m.—From the Band Rotunda, Coogee Beach:
A programme by the Randwick Municipal Band; Conductor, Mr. E. P. Kerry.
5 p.m.—"Big Ben." Close down.

EVENING SESSION.

6 p.m.—"Big Ben" and announcements.
6.5 p.m.—Captain Fred Aarons will continue his series of talks on
"The Humors of History."
6.20 p.m.—From the Congregational Church, Pitt Street, Sydney:
An Organ Recital by Miss Lilian Frost.

Drive your set to greater distance—greater volume—with Burgess Radio Batteries. Burgess have double the power of ordinary dry batteries because they are Chrome-buit.

New System Telephones Pty. Ltd.
280 Castlereagh St., Sydney.
181-3 King Street. Melbourne.
Charles St., Adelaide
Canada Cycle & Motor Agency Ltd., Creek and Adelaide Sts., Brisbane

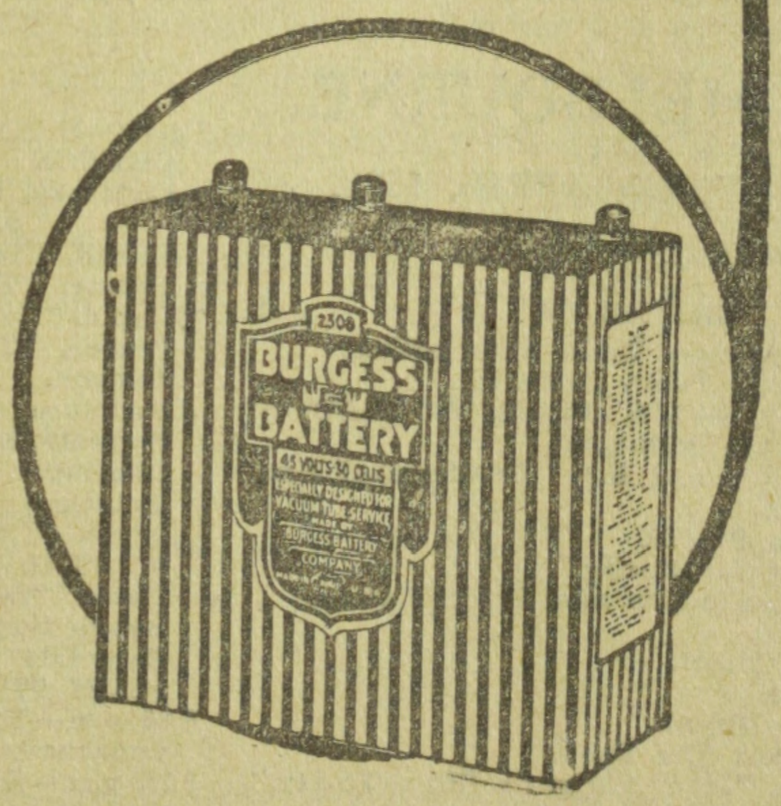
SOLD BY ALL HIGH CLASS DEALERS

CHROME--the famous preser ativ is a patented feature of Burgess manufacture.

You'll never know how good your radio really is until you use

BURGESS
CHROME-BUILT RADIO
BATTERIES

"the great propelling power"



7 p.m.—"Big Ben."
The Evening Service from the Congregational Church, Pitt Street, Sydney.
Preacher, Rev. T. E. Ruth.
8 p.m.—From the Band Rotunda, Coogee Beach:
The Randwick Municipal Band; Conducter, Mr. E. P. Kerry.
9.30 p.m.—From the Studio:
Peter Gawthorne, baritone.
9.40 p.m.—St. Quintin Downer:
Pianoforte solos.
9.52 p.m.—Peter Gawthorne, baritone.
10 p.m.—St. Quintin Downer:
Pianoforte solos.

2BL, SYDNEY

SUNDAY, 8th APRIL, 1928.

MORNING SESSION.

10.45 a.m.—Special "Sun" news service.
11 a.m.—Service broadcast from St. Judes' Church of England, Randwick.

AFTERNOON SESSION.

2 p.m.—G.P.O. Clock and chimes.
Special session for children in hospitals.
2.15 p.m.—H.M.V. Gramophone recital.
2.45 p.m.—Information Service.
3 p.m.—G.P.O. Clock and chimes.
Organ recital by Mr. N. Robins broadcast from the Arcadia Theatre, Chatswood.
4 p.m.—Studio Programme.
5 p.m.—G.P.O. Clock and chimes.
Close down.

EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
Children's session.
7 p.m.—Service broadcast from Chalmers Presbyterian Church, City.
8.30 p.m.—The British music Society's String Quartette.
8.40 p.m.—Miss Millie Hughes, soprano.
8.47 p.m.—Mr. Bryce Carter, cellist.
8.54 p.m.—Miss Nellie Ravens, contralto.
9.1 p.m.—Miss Noral Alexander, elocutionist.
9.13 p.m.—Mr. Clement Williams, baritone.
9.20 p.m.—Miss Dulcie Blair, violinist.
9.27 p.m.—Miss Millie Hughes.
9.34 p.m.—The British music Society's String Quartette.
9.44 p.m.—Miss Nellie Ravens.
9.51 p.m.—Mr. Bryce Carter.
9.58 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist.
10.3 p.m.—Mr. Clement Q. Williams.
10.10 p.m.—Miss Dulcie Blair.
10.17 p.m.—National Anthem.

2UW, SYDNEY

SUNDAY, 8th APRIL, 1928.

Station closed down.

3LO, MELBOURNE.

SUNDAY, 8th APRIL, 1928.

MORNING SESSION.

EASTER DAY.

10.30 a.m.—Express Train Information.
Bells from St. Paul's Cathedral.
10.45 a.m.—SERVICE FROM ST. PAUL'S CATHEDRAL, Melbourne:
Hymn 125 (A. and M.), "Ye Choirs of New Jerusalem."
The Lord's Prayer.
The Collect for Purity.
The Commandments and Kyrie Eleison.
The Epistle.
The Holy Gospel.
Gloria Tibi.
The Nicene Creed.
The Sermon: The Dean.
Hymn 134, "Jesus Christ is Risen To-day."
Offertory.
The Prayer for the Church Militant.
The remainder of the service will not be broadcast.
12.15 p.m.—British Official Wireless News.
News from yesterday's papers.
12.25 p.m.—Close down.

AFTERNOON SESSION.

2 p.m.—Sonora Recital:
'CELLO SOLO:
"Berceuse de Jocelyn" (Godard).
Played by Pablo Casals.
ORCHESTRA, WITH PIANO:
"Variations Symphoniques" (Franck).
Parts 1, 2, 3 and 4.
Alfred Cortot (pianoforte) and the London Symphony Orchestra, conducted by Sir Landon Ronald.
SONG:
"Caro Mio Ben" (Giordani).
Marguerite Dalvarez (mezzo-soprano).
SONG:
"O Flower of all the World" (A. Woodforde-Finden).
Walter Glynne, tenor.
BAND:
"Il Trovatore": Selections (Verdi).
Parts 1 and 2.
Creatore's Band.
ORGAN SOLO:
"Casse-Noisette Suite" (Tschaikovsky, arr. Katzmann).
"Valse des Fleurs."
Played by Reginald Foort.
SONG:
"My Love is like a Red, Red Rose" (Traditional).
Joseph Hislop, tenor, with piano, violin and 'cello accompaniment.
3 p.m.—PLEASANT SUNDAY AFTERNOON SERVICE, CENTRAL MISSION, WESLEY CHURCH, Lonsdale Street, Melbourne.
CHAIRMAN, REV. J. H. CAIN.
Hymn No. 105, "Jesus, Our Risen King."
Prayer, Rev. C. Irving Benson.
Orchestral Selection, Mr. C. M. Williams, Conductor.
Hymn No. 52, "Mine eyes have seen the Glory."
Solo, Mrs. Thomas Dickson.
Orchestra.
Solo, Mrs. Thomas Dickson.
Notices.
Offering.
Orchestra.
ADDRESS, DR. D. S. McCOLL:
"EASTER'S MESSAGE TO THE WORLD."
National Anthem.
Benediction.
Orchestra.
4.30 p.m.—Close down.

EVENING SESSION.

6 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
6.25 p.m.—"BROTHER BILL":
"The Meaning of Easter."
6.45 p.m.—Bells from St. Paul's Cathedral.

NIGHT SESSION.

7 p.m.—EVENING SERVICE FROM WESLEY CHURCH:
Conducted by REV. C. IRVING BENSON.
Special Easter Service.
Introit, "The Lord is in His Holy Temple."
Prayer, "The Outer Gate."
Hymn, "Crown Him with Many Crowns."
Prayer, "The Inner Court."
Anthem.
Scripture Reading.
Intimations.
Offering.
Anthem.
Hymn, "Low in the Grave He Lay."
MONTHLY BOOK SERMON.
Hymn, "Immortal Love for ever Full."
Benediction.
Sevenfold Amen.
FROM THE STUDIO:
8.30 p.m.—Birthday Greetings and programme announcements. Island shipping movements.
8.32 p.m.—Song Feature of the week.
8.35 p.m.—BRUNSWICK CITY BAND.
GERTRUDE HUTTON, contralto:
"Hosanna" (Grainger).
HORACE WHITE AND J. ALEXANDER BROWNE, duet:
"Crucifix" (Faure).
BRUNSWICK CITY BAND:
"A Military Church Parade, Fantasia" (Hume).
SAFFO ARNAV, soprano:
"Hear ye, Israel" ("Elijah") (Mendelssohn).
MELBOURNE CHORAL UNION (Conductor, Wm. G. James):
"Easter Music from Cavalleria Rusticana" (Mascagni).
HORACE WHITE, tenor:
"Easter Hymn" (Frank Bridge).
QUARTET: Saffo Arnav, Gertrude Hutton, Horace White and J. Alexander Browne:
"God So Loved the World" (Stainer).
BRUNSWICK CITY BAND:
"Farewell, my Comrades" (Rimmer).
Selected.
MELBOURNE CHORAL UNION:
"He watching over Israel"—"Elijah" (Mendelssohn).
"Hallelujah Chorus"—"Messiah" (Handel).
9.50 p.m.—Announcements.
The Royal Automobile Club of Victoria's SAFETY MESSAGE for to-day is for MOTORISTS:
"Don't drive too close to the petrol pump at garage or filling stations and always be sure to shut off the engine when the tank is being filled with petrol."
THE SHRINE OF REMEMBRANCE:
"Our peace and security, our opportunities for development and prosperity, our sense of national destiny and its realisation are expressions and embodiments of what our glorious dead wrought for us. But lest we forget, and to remind us not only of what we owe but of what we ought, an outward symbol of beauty, serenity and illumination, reflecting and perpetuating the memories of the deeds and lives of our heroes is not only desirable but necessary."—Rabbi Brodie.
10 p.m.—"GOD SAVE THE KING."

3AR, MELBOURNE

SUNDAY, 8th APRIL, 1928.

MORNING CHURCH SESSION.

10.30 a.m.—Chimes from St. John's Church, Toorak.
11 a.m.—Morning Service from Independent Church, Collins Street.

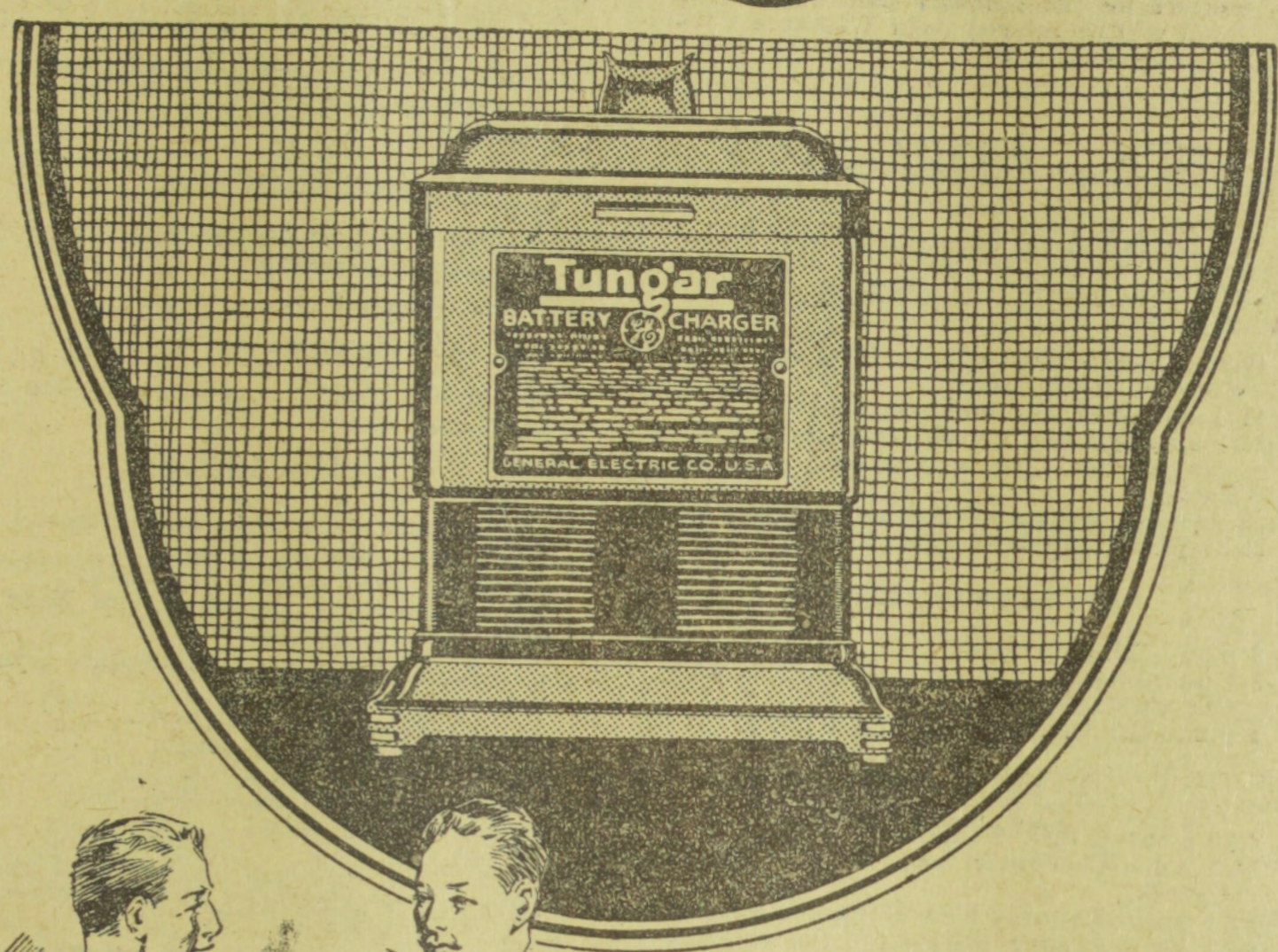
AFTERNOON SESSION.

"CELEBRITY CONCERT."

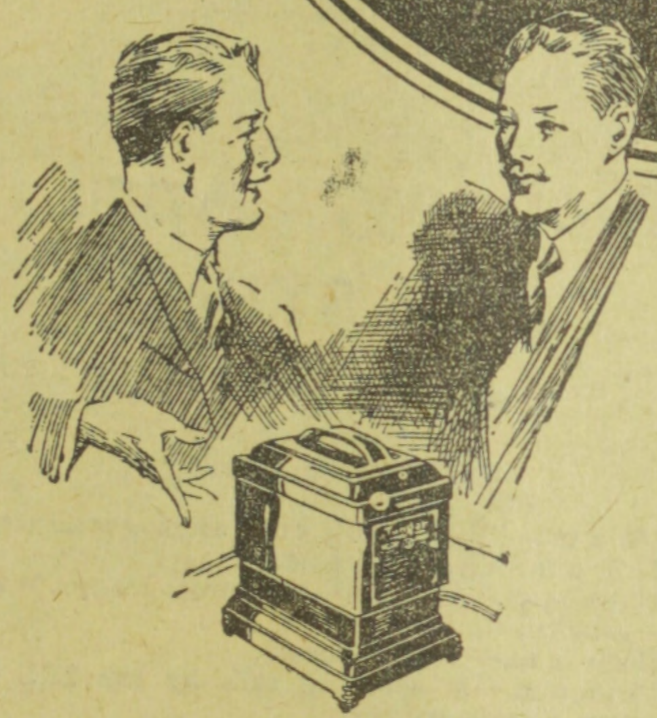
3 p.m.—The Victoria Trio:
"First Movement from Trio in D Minor" (Arensky).
3.10 p.m.—Miss Jean Lewis, contralto:
"But the Lord is Mindful" (Mendelssohn).
"Only the Desolate" (Tschaikowsky).
3.18 p.m.—Mr. Herbert Pettifer, violin:
"Romance" (Joachim).
"Bizzarrerie" (Elgar).
3.26 p.m.—The Victoria Trio:
"Ave Maria" (Schubert).
"Scherzo from Trio, Op. 36" (Mendelssohn).
3.34 p.m.—Mr. Alan T. Eddy, bass baritone:
"On Wings of Song" (Mendelssohn).
"The Blind Ploughman" (Clarke).
3.42 p.m.—Mr Ronald Breafley, 'cello:
"Traumerei" (Schumann).
"Lied Ohne Worte" (Mendelssohn).
3.49 p.m.—The Victoria Trio:
"Menuett" (Boccherini).
"Hungarian Dance, No. 1" (Brahms).
"Finale from Trio, Op. 36" (Mendelssohn).
4.5 p.m.—Miss Jean Lewis, contralto:
"Lascia ch' io pianga" (Handel).
"The Asra" (Rubinstein).
4.12 p.m.—Miss Ethel Brearley, piano:
"First Movement from the Moonlight Sonata" (Beethoven).
"Refrain de Berceau" (Palmgren).
4.20 p.m.—Mr. Alan Eddy, bass baritone:

Tungar

BATTERY CHARGER



It's a G.E. Product
backed by
G.E. Prestige



REDUCED PRICES!

GOOD news! Tungars are down to £7. In the last 12 months the sales for Tungars have increased by leaps and bounds. Mass production enables them to be now produced at greatly reduced price yet without the slightest sacrifice to quality. You need a Tungar —to keep your reception full and clear always—to save those frequent trips to the charging station and endless bother and expense. Get your Tungar to-day at any of the best radio dealers.

Now Everyone can have a TUNGAR

AUSTRALIAN GENERAL ELECTRIC
Australian General Electric Company, Ltd

93-95 Clarence Street. SYDNEY,
53 King Street, NEWCASTLE.

Civic Centre,
CANBERRA

611 Dean Street
ALBURY

"Like as the Hart" (Allitsen).
"The Lord is my Light" (Allitsen).
4.27 p.m.—The Victoria Trio:
"The Londonderry Air" (Coleman).
4.30 p.m.—"God Save the King."

CHILDREN'S SESSION.

6 p.m.—Special Children's Hour.

EVENING CHURCH SESSION.

7 p.m.—Evening Service from Cairns Memorial Church, E. Melbourne.
Minister, Rev. F. A. Hagenauer, M.A.

EVENING SESSION.

8.30 p.m.—Brunswick Panatrope Entertainment: Broadcast from Panatrope House, 252 Collins Street, Melbourne (by exclusive permission of Wills and Paton, Ltd.), under the direction of the Panatrope Committee: Chairman, Mr. W. D. S. Taylor.
Selector, Mr. John Feil.
Direction, Mr. Thos. Seymour Nixon.

8.30 p.m.—The B.B.C. Wireless Symphony Orchestra:
Selection, "Aida" (Verdi).
"Grand March," from "Aida" (Verdi).

8.38 p.m.—Mr. Alfred O'Shea, tenor:
"Killarney" (Falconer).
"The Fairy Tales of Ireland" (Lockton).

8.46 p.m.—The Band of the Royal Air Force:
Selection, "Community Song" (In two parts).

8.52 p.m.—The J. H. Squire Celeste Octet:
"She Wandered Down the Mountain Side" (Clay).
"Silent Night, Holy Night" (arr. Sear).

8.58 p.m.—Mr. Leet Pouishnoff, piano:
"Caprice in G Major" (Paderewski).
"Shepherd's Hey" (Grainger).

9.4 p.m.—Mr. Tom Burke, tenor:
"The Minstrel Boy" (Thos. Moore).
"Thank God for a Garden" (Del Riego).

9.10 p.m.—Mr. Eddie Dunstedter, pipe organ:
"Are You Happy?" (Yellen).
"Blue Heaven" (Donaldson).

9.16 p.m.—Mr. Albert Sammons, violin:
"Londonderry Air" (arr. Sammons).
Irish reel, "Molly on the Shore" (arr. Kreisler).

9.22 p.m.—Court Symphony Orchestra:
The Blue Bird, "Dance of the Stars" (Morman O'Neill).
The Blue Bird, "Dance of the Hours" (Morman O'Neill).

9.8 p.m.—Famous Bernardo Musical Boys, Xylophone:
Duet, "The Royal Pageant" (Ida Hampden).
Duet, "Melody in F" (Rubinstein).

9.34 p.m.—The B.B.C. Wireless Symphony Orchestra:
Suite, "Casse Noisette" (Tschaikowsky).
(a) "Danse Chinoise."
(b) "Danse Russe, Trepak."

9.42 p.m.—Dame Clara Butt, contralto:
"The Knight of Bethlehem" (Maughn).
"Trees" (Rasbach).

9.48 p.m.—Herman Finck's Orchestra:
"Bacchanalia" (arr. Herman Finck). In two parts.

9.54 p.m.—The "Age" News Bulletin, exclusive to 3AR.
9.58 p.m.—Weather forecast.
9.59 p.m.—Our Australian Good-nigt Quote is taken from the poem, "Laudamus," by Adam Lindsay Gordon.
10 p.m.—"God Save the King."

4QG, BRISBANE.

SUNDAY, 8th APRIL, 1928.

MORNING SESION.

11 a.m.—The complete morning service will be relayed from St. Stephen's Roman Catholic Cathedral.
12.30 p.m.—Close down.

AFTERNOON SESSION.

BAND CONCERT.

3.15 p.m.—The concert by the Brisbane Excelsior Band will be relayed from the Botanic Gardens.
4.30 p.m.—Close down.

NIGHT SESSION.

The complete evening service will be relayed from St. Stephen's Roman Catholic Cathedral.
7.30 p.m.—Evening service.

BAND CONCERT.

At the conclusion of the church service the concert by the Brisbane Municipal Concert Band will be relayed from Wickham Park.
9.30 p.m.—Close down.

5CL, ADELAIDE

SUNDAY, 8th APRIL, 1928.

MORNING SESSION.

10.45 a.m.—Carillon of bells from St. Andrew's Church, Walkerville.
11 a.m.—G.P.O. Chimes.
11.1 a.m.—Divine Service relayed from Parkside Baptist Church, Preacher, Rev. B. E. Tuck.
12.10 p.m. (Approx).—British Wireless news.
12.20 p.m. (Approx).—Close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Sacred concert by Parkside Baptist Church Choir.
4 p.m.—G.P.O. chimes and close down.

EVENING SESSION.

6.30 p.m.—G.P.O. Chimes.
63.1 p.m.—Carillon of bells from St. Andrew's Church.
6.36 p.m.—Running time of East-West express.
6.37 p.m.—Sunday stories for the children by the "Bird Lady."
7 p.m.—G.P.O. Chimes.
7.1 p.m.—Relay from Maughan Church, Franklin Street—evening Divine Service.
8.15 p.m.—Sacred concert from Maughan Church.
9.30 p.m.—Talk by Mr. P. H. Nicholls: "Resurgam."
9.45 p.m.—Address by Mr. A. L. Brown, "Adelaide's Churches No. 5."
10 p.m.—G.P.O. chimes and meteorological information.
10.4 p.m.—British Wireless news.
10.10 p.m.—National Anthem and close down.

6WF, PERTH.

SUNDAY, 8th APRIL, 1928.

MORNING SESSION.

10.45 a.m.—Tune in.
11 a.m.—Morning service relayed form St. George's Cathedral, Perth.
12.15 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
3.35 p.m.—From the Studio.
Musical programme, includnig vocal and instrumental artists.
4.30 p.m.—Close down.

EVENING SESSION.

7 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
7.5 p.m.—Children's bedtime stories.
7.30 p.m.—Evening church service relayed from Chas. Street, Methodist Church, West Perth.
8.45 p.m.—A Relay.
Concert by the Perth City Band, conducted by Mr. L. M. Price.
and items by vocal assisting artists, relayed from the Government Gardens, Perth.
10.5 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 7 p.m.

7ZL, HOBART

SUNDAY, 8th APRIL, 1928.

MORNING SESSION.

11 a.m.—Church service from Chalmers Presbyterian Church, Hobart.
Close down.

AFTERNOON SESSION.

3.30 p.m.—G.P.O. Clock chimes the hour.
Concert from the Studio.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Chidlren's Corner with the Sunday Lady.

NIGHT SESSION.

7 p.m.—Church service from Memorial Congregational Church, Hobart.
Preacher, Rev. Arthur C. Nelson.
At conclusion of Church service Band concert from St. Davids Park.
9.40 p.m.—Mercury special interstate news service.
British Official Wireless news.
Ships within wireless range.
9 p.m. Weather forecasts.
Station announcements.
Monday's programme.
Close down.

Monday, April 9

2FC, SYDNEY

HOLIDAY PROGRAMME.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.25 a.m.—Studio music.
10.35 a.m.—A sporting talk by the 2FC Racing Commissioner.
10.50 a.m.—Studio music.
11 a.m.—"Big Ben." Studio music.
NOTE: Racing events of the Easter Meeting at Randwick will be described by the 2FC Racing Commissioner.

MIDDAY AND AFTERNOON SESSIONS.

12 noon.—"Big Ben" and announcements.
12.5 p.m.—Studio music.
12.20 p.m.—"Sydney Morning Herald" news.
12.30 p.m.—Rugby Wireless News.
12.35 p.m.—Studio music, interspersed with Racing descriptions.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
1.20 p.m.—Studio music.
During the intervals of Racing events at Randwick, the following musical items will be given from the Studio:
Nancye McGilchrist, violin.
Tom Foggitt, novelty pianist.
Joyce Gillespie, soprano.
Dorothy Dewar, soubrette.
4.45 p.m.—Complete sporting resume.
5 p.m.—"Big Ben." Close down.

ORMOND'S LATEST TRIUMPH

—*Surpassing all previous records of Condenser design!*

When Ormond produced their Standard S.L.F. Condenser they attained a triumph that alone was enough to ensure the endurance of their reputation. But with the eagerness of enterprize they aimed at even greater achievement. The result transcends anything previously accomplished as you will readily admit if you examine the new Ormond "No. 3" S.L.F. Condenser at your dealer's.

THE NEW ORMOND "No. 3" S.L.F. CONDENSER is a typical Ormond product —highly finished, highly efficient. It is cheaper in price than any yet, but still peerless in performance.

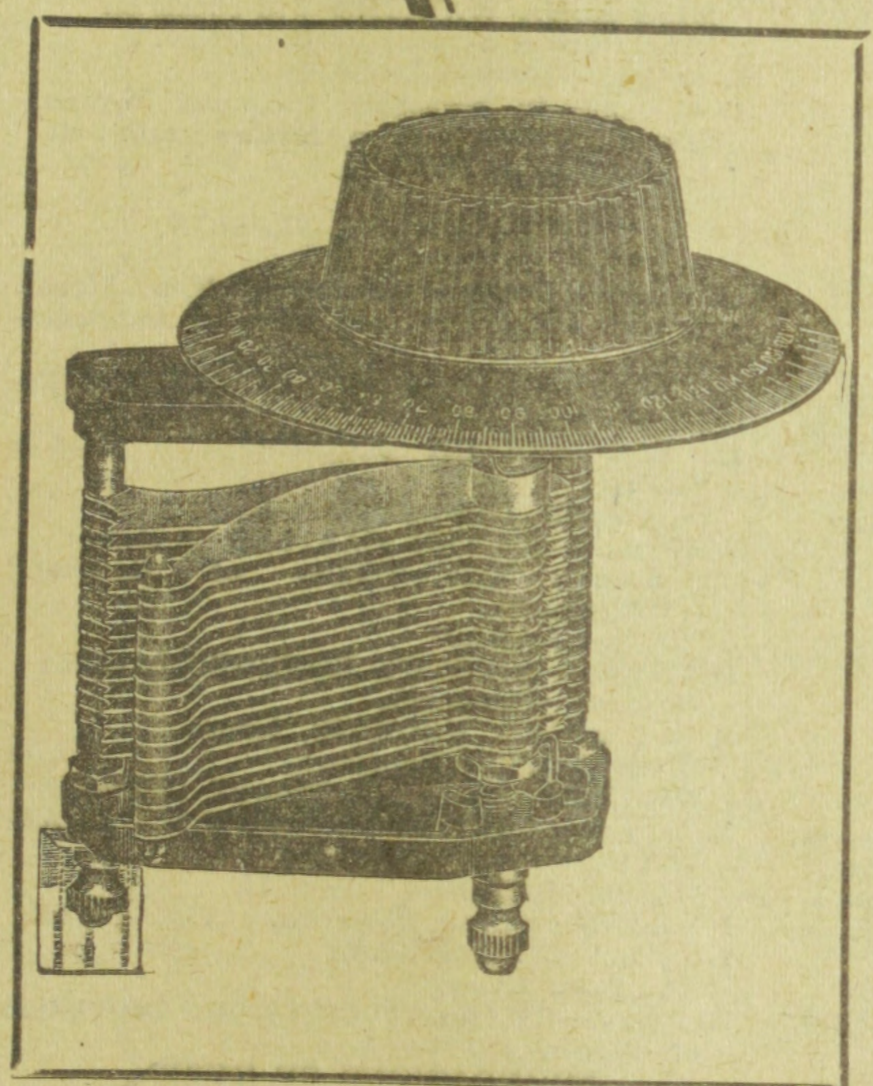
The New ORMOND "No. 3" S.L.F. CONDENSER is the precision Straight Line Frequency condenser with a greatly reduced frame and highly finished Bakelite end plates.

Specially shaped vanes give high maximum and low minimum capacity with TRUE S.L.F. readings throughout the full 180 degrees scale. No bunching of half the wavelengths between 0 and 27 degrees—all stations are spread evenly over the dial.

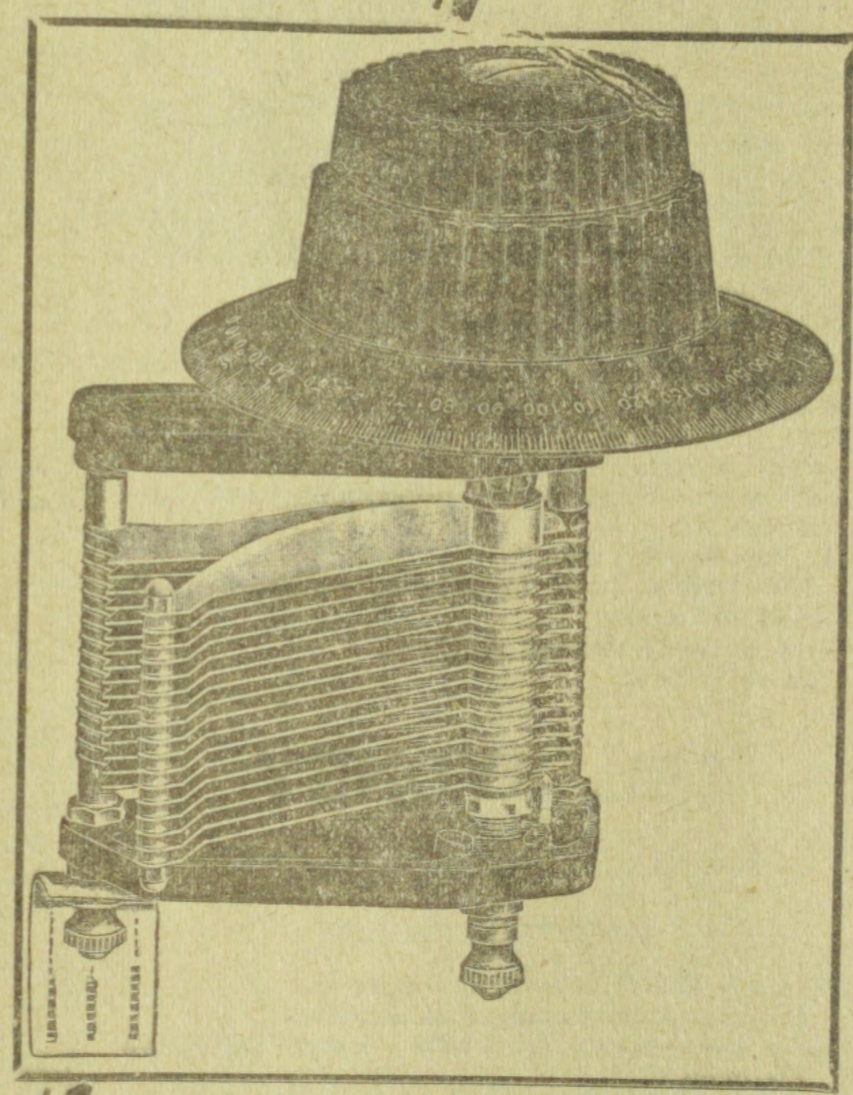
Supplied either with 4 in. Bakelite Plain Dial or 4 in. Bakelite Friction Control Dial.

Each is engaged in 180 single degrees, showing 0 at the shortest wavelengths —stations are still referred to in metres—and towards 180 for longer wavelengths. Easy to mount—One hole fixing.

Terminals and Soldering Tags for connections.



Backed by over 25 years' BRITISH Manufacturing Experience



Complete With Plain Dials.

.00025 .... 11/6 ea.
.00035 .... 12/- ea.
.0005 ..... 12/6 ea.

WHOLESALE DISTRIBUTORS FOR VICTORIA:

A. G. Healing and Co. Pty., Ltd., 354-360 Post Office Place, Melbourne.

Harringtons Ltd., 266 Collins Street, Melbourne.

FACTORY REPRESENTATIVE:
John Arnold, Box B 71, Degraves Street, Melbourne.

"ORMOND" ENGINEERING COMPANY LTD.

Registered *Trade Mark*

199-205 Pentonville Road, King's Cross, LONDON, ENGLAND.

FACTORIES: Whiskin St. and Hardwick St., Clerkenwell, LONDON, ENGLAND.

TELEGRAMS: "Ormondengi, Kincross."

EARLY EVENING SESSION.

5.40 p.m.—The Chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the children.
6.15 p.m.—Story time for the young folk.
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news.
7.15 p.m.—Weather intelligence.
7.18 p.m.—"Evening News" late news service.
7.28 p.m.—Studio music.

NIGHT SESSION.

7.40 p.m.—Programme announcements.
7.45 p.m.—Studio music.
8 p.m.—"Big Ben."
Laurence Macaulay, baritone.
8.8 p.m.—Henry Silver will continue his weekly series of talks on "Graphology."
8.22 p.m.—From the Studio:
Selections from the well-known Opera, "The Girls of Gottenberg"
(by permission of J. C. Williamson Ltd.), will be given by principals of the Ku-Ring-Gai Operatic Society.
8.40 p.m.—The 2FC Studio Orchestra.
Conductor, Horace Keats.
8.56 p.m.—Laurence Macaulay, baritone, and Harold Hickey:
Duet (Wattman).
9 p.m.—"Big Ben." Late weather forecast.
9.3 p.m.—The 2FC Studio Orchestra.
Conductor, Horace Keats.
9.17 p.m.—Wally Baines, comedian.
9.22 p.m.—The 2FC Studio Orchestra.
Conductor, Horace Keats.
9.36 p.m.—Duet, Laurence Macaulay, baritone, and Harold Hickey, tenor:
"Una furtiva lagrima" (L'Elisir d'Ambre) (Ponizetti).
9.40 p.m.—The 2FC Studio Orchestra.
Conductor, Horace Keats.
9.55 p.m.—Harold Hickey, tenor:
(a) Maire my Girl" (Aiken).
(b) "Dear Old Pal of Mine" (Rill).
10 p.m.—"Big Ben."
The 2FC Studio Orchestra.
Conductor, Horace Keats.
10.2 p.m.—Wally Baynes comedian.
10.20 p.m.—The 2FC Dance Band.
Conductor, Cec. Morrison.
10.30 p.m.—Late weather forecast.
10.31 p.m.—2FC Dance Band, conducted by Cec. Morrison.
10.57 p.m.—To-morrow's programme and late news.
11 p.m.—"Big Ben."
2FC Dance Band in popular numbers until 11.45 p.m.
11.45 p.m.—National Anthem.
Close down.

2BL, SYDNEY

MONDAY, 9th APRIL, 1928.

MORNING SESSION.

11 a.m.—G.P.O. Clock and chimes.
Musical programme from studio.
11.15 a.m.—News from the "Daily Telegraph Pictorial."
11.30 a.m.—Musical programme from the Studio.
11.45 a.m.—News from the "Daily Telegraph Pictorial."

AFTERNOON SESSION.

Race results broadcast immediately after each race by courtesy of the "Sun."
12 noon.—G.P.O. Clock and chimes.
Special Ocean forecast and weather report.
12.3 p.m.—Musical programme from the studio
12.20 p.m.—News from the "Sun."
12.25 p.m.—Sporting and athletic fixtures.
12.27 p.m.—What's on at the Pictures and Theatres.
12.30 p.m.—Musical programme from the studio.
12.40 p.m.—News from the "Sun."
12.50 p.m.—Musical programme from Studio.
1 p.m.—G.P.O. Clock and chimes.
During the afternoon descriptions of ring events at the Royal Agricultural Show and races from Randwick will be broadcast interspersed with musical programme from the studio.
4.55 p.m.—Racing Resume.
5 p.m.—G.P.O. Clock and chimes.
Close down.

EARLY EVENING SESSION.

5.45 p.m.—Clock and chimes.
Children's Session.
6.30 p.m.—Racing resume.
Sporting resume.
7 p.m.—G.P.O. Clock and chimes.
Dinner Music.
7.30 p.m.—News from the "Sun."
8 p.m.—G.P.O. Clock and chimes.
8.1 p.m.—Miss Elsie Findlay, soprano.
8.8 p.m.—The Wurlitzer Organ broadcast from the Arcadia Theatre, Chatswood.
Organist, Mr. N. Robins.
8.15 p.m.—From the Studio.
Mr. E. H. Watson, baritone.
8.22 p.m.—Mr. Leslie McCallum, flute solos.
8.29 p.m.—Mr. Robert Vawdrey, elocutionist.
8.36 p.m.—Miss Hilda Wallace, mezzo soprano.
8.43 p.m.—Tooth's Brewery Band.
9.3 p.m.—Weather report and forecast by courtesy of C. J. Mares, Govt. Meteorologist.
Resume of following day's programme.
9.8 p.m.—Miss Elsie Findlay.
9.15 p.m.—Mr. Leslie McCallum.
9.22 p.m.—Mr. E. H. Watson.
9.29 p.m.—Tooth's Brewery Band.
9.49 p.m.—Mr. Robert Vawdrey.
9.56 p.m.—Miss Hilda Wallace.
10.3 p.m.—The Arcadia Theatre, Chatswood.
The Wurlitzer Organ.
10.24 p.m.—Talk on "Ceylon—The Gem of the East" by Mr. Basil Kirke (courtesy P. & O. Company).
10.30 p.m.—Romano's Restaurant Dance Orchestra under the direction of Mr. Merv. Lyons. During intervals between dances "Sun" news will be broadcast.
11.30 p.m.—G.P.O. Clock and chimes.
National Anthem.

2UW, SYDNEY

MONDAY, 9th APRIL, 1928.

Station close down.

3LO, MELBOURNE.

MONDAY, 9th APRIL, 1928.

EARLY MORNING SESSION.

HERALD BREAKFAST HOUR.

EASTER MONDAY.

"Shall man alone, for whom all else revives,
No resurrection know— Shall man alone,
Imperial man! be sown in barren ground,
Less privileged than grain on which he feeds."—Young.
7.15 a.m.—Morning Melodies.
7.20 a.m.—PHYSICAL CULTURE EXERCISES (to music).
7.33 a.m.—Weather forecast for all States.
7.40 a.m.—NEWS.
8 a.m.—Melbourne Observatory Time Signal.
8.1 a.m.—Morning Melodies.
8.5 a.m.—SPORTING INFORMATION. Shipping. Stock Exchange fluctuations.
8.13 a.m.—Morning Melodies.
8.15 a.m.—Close down.

HOMILIES ON THE HOME—AN HOUR FOR WOMEN.

11 a.m.—3LO'S CULINARY COUNSELS, or how to create creature comforts with a minimum of cash.

CURRIED EGGS.

8 eggs.
1 dessertspoon butter or fat.
1 onion.
1 teaspoon curry powder.
1 teaspoon sugar.
Boiled rice.
1 dessertspoon flour.
½ apple.
½ pint milk or water.
¼ teaspoon salt.

METHOD:—(1) Put water in small saucepan, when boiling add eggs. (2) Boil 8 minutes, then drop into cold water. (3) Remove shells from eggs. (4) Peel and cut up apples and onions. (5) Make fat hot in saucepan and fry apple and onion a light brown. (6) Add flour, sugar, curry powder, salt, then milk or water. (7) Add eggs cut in four and cook 15 minutes. (8) Serve eggs and gravy in middle of dish with a border of boiled rice.
NOTE: Cold meat, fish or vegetables may be used instead of eggs.
11.2 a.m.—THE SHRINE OF REMEMBRANCE: "If the Citizens of Victoria view in their proper perspective the great sacrifices of those who gave of their best to the nation in the Great World War, they will not hesitate to do all that lies in their power to contribute liberally to the Fund for the Shrine of Remembrance. It is the final tribute we pay to those who are now but a hallowed memory and an invisible presence, also to those who are still suffering from the effects of war. "Perhaps greater still in the completed memorial will be the inspiration to generations yet unborn."
—Margaret E. Crocker, representing the Australian Women's National League.
11.5 a.m.—CLUES TO THE SUCCESSFUL COMBINATION OF CULINARY INGREDIENTS:
MISS FLORA PELL, Inspector of Schools.
Be sure to have your notebooks and pencils at hand.
11.20 a.m.—Musical interlude.
11.25 a.m.—Under the auspices of the Royal Victorian Institute of Architects,
MISS EDNA WALLING will speak on "The Garden as part of the Home."
11.40 a.m.—Musical Interlude.
11.45 a.m.—In response to many requests, "Domina" will give a further talk on "Short Story Writing."

MIDDAY NEWS SESSION.

12 noon—Melbourne Observatory Time Signal.
12.1 p.m.—"Argus" news service. Announcements.
12.10 p.m.—Description of CRICKET: PENNANT FINALS.
1.24 p.m.—BERTHA JORGENSEN'S QUARTET:
"Cinderella Dances," Part 1.
12.30 p.m.—EILEEN CASTLES, soprano:
"Antima's Aria"—"Tales of Hoffman" (Offenbach).
"To the Angels."
12.37 p.m.—DOROTHY ROXBURGH, viola:
"Rondo" (Hammer).
12.45 p.m.—ED. HOCKING, tenor:
"Columbine" (Chapman).
"My Mary, Sweet and Brown" (Kilner).
12.52 p.m.—BERTHA JORGENSEN'S QUARTET:
"Cinderella Dances," Part II.
1 p.m.—Melbourne Observatory Time Signal.
1.1 p.m.—R. F. RITTER:
"A Short Story."
1.15 p.m.—PENNANT CRICKET: Description of Finals.

FOUNDATIONS OF MUSIC.

1.24 p.m.—BERATHA JORGENSEN'S QUARTET:
Selection from the Works of Wieniawski:
"Slow Movements" (Wieniawski).
1.34 p.m.—EILEEN CASTLES, soprano:
"Aria"—"Cavalleria" (Mascagni).
"To the Angels."
1.41 p.m.—ED. HOCKING, tenor:
"All in a Lily-white Gown" (E. Martin).
"Drink to Me Only" (Quilter).
1.48 p.m.—Under the auspices of the National Safety Council of Victoria,
H. J. BOOK will speak on
"Safety First."
2 p.m.—Description of Seaford Hurdle, 2 miles, Williamstown Races, by "Aintree."
2.5 p.m.—Announcements.
2.10 p.m.—Description of Syney Cup, 2 miles, run at Randwick Course, Sydney.

AFTERNOON SESSION.

2.15 p.m.—THE STATION ORCHESTRA:
Tango, "El Amante" (Thos. Allen).

VARTA

Eliminate Dry Batteries, Radio's greatest worry and expense, by installing "Varta" Rechargeable Accumulators

SPECIALLY DESIGNED RADIO "A" AND "B" BATTERIES.

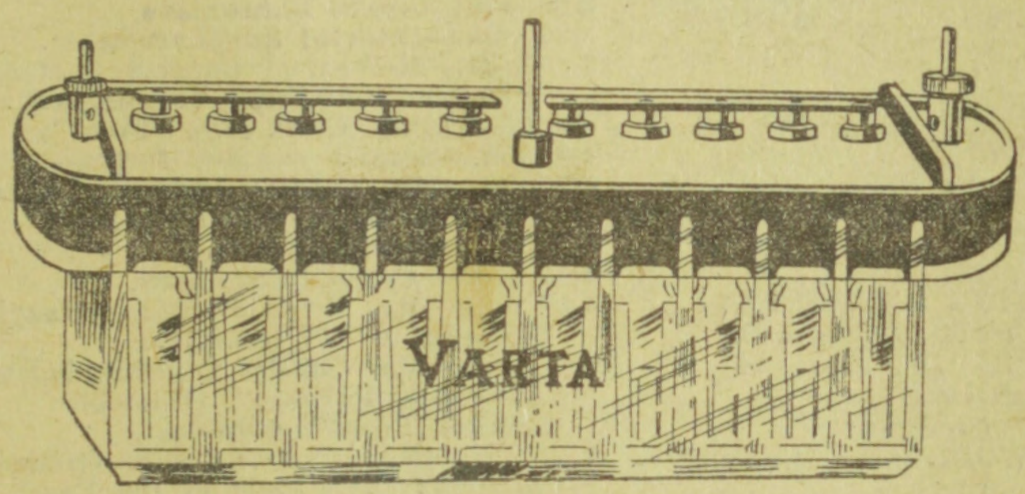
"VARTA" in Radio Batteries denotes quality and efficiency.
Accumulators give punch and pep to Radio Receivers.
Removes all Radio trouble associated with dry cells.
Tried out once, used always, because they
Are manufactured by Europe's greatest and most experienced firm.

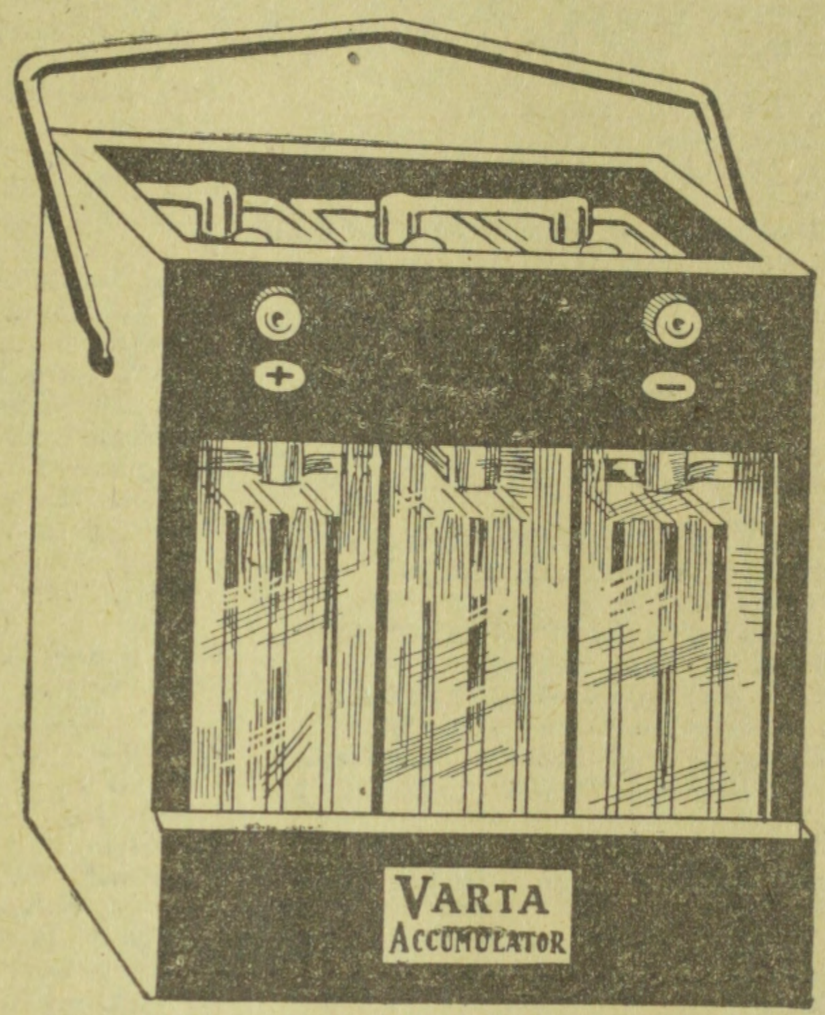
Prices Within Reach of All

All Varta "A" Batteries supplied in well made wooden base, having solid Terminals, Strong Handle, Sides open for inspection of Plates.

PRICES FOR "A" (Not Charged).

2L1—4 Volt, 21 A.H.	£2/5/6
2L2—4 Volt, 45 A.H.	£3/-/-
2L3—4 Volt, 80 A.H.	£4/11/3
3L1—6 Volt, 21 A.H.	£3/3/9
3L2—6 Volt, 45 A.H.	£4/5/-
3L3—6 Volt, 80 A.H.	£6/-/-





"VARTA" "B" BATTERIES
In most useful sizes from 10 Volt Units, with 2 Volt Tappings, to 100 Volts, or to order.

PRICES FOR "B" (Not Charged).

5W.—10 Volt, without Case	10/-
10W.—20 Volt, without Case	£1/-/-
30W.—60 Volt, made up 10 Volt Cells	£3/7/6
40W.—80 Volt, made up of 10 Volt Cells	£4/7/6

"SIMPLEX" "A" AND "DUPLEX" "A" & "B" BATTERY CHARGERS.
made in the same factory as "Varta" Accumulators, specially designed for the correct charging of "Radio" "A" and "B" Batteries.

Cannot over-charge. Can be used as Trickle Chargers.
Noiseless in operation. Simple Construction. Long Life.

Where the correct charging of Radio "B" Batteries is vital to their efficient operation.

The "Duplex" Charger is supreme.

"SIMPLEX," £5/5/-. "DUPLEX," £8/8/-.

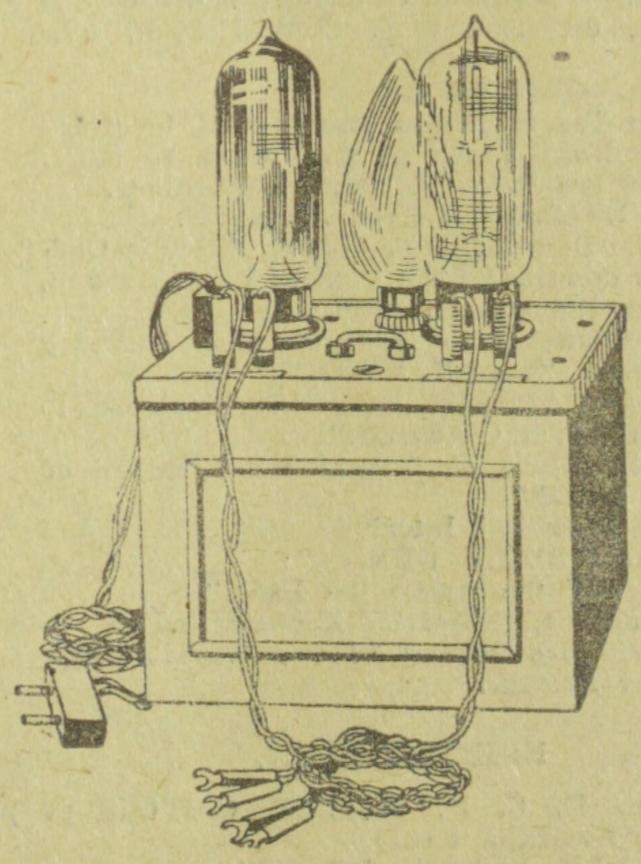
Sole Agents for N.S.W. and Queensland:

ELECTRIC SUPPLIES AND ENGINEERING (AUST.), LIMITED.

Also Sole Agents for Tele-fun-Ken Wireless Products; 3, 4 and 5 Valve Receivers, in design, years ahead of any others.
Loud Speakers of Quality Reasonably Priced.

N.S.W. Distributors of "VARTA" Products from whom supplies are Available.

FARMERS, LTD., Market Street, Sydney.
MICK SIMMONS, LTD., Haymarket, Sydney.
MOTOR IGNITION CO., 8 Wentworth Avenue, Sydney.
RODMAN'S, LTD., 11 Elizabeth Street, Sydney.
SLINGSBY & COLE.
W. HARRY WILES, Goulburn Street.
MURDOCH'S IN PARK STREET, LTD., Sydney.
ELECTRIC HOME SERVICE, Mount Street, North Sydney.
WILLIAMS COMPANY, Lindfield.
TEMPLE, MALIN AND EVANS, Crow's Nest.
A. MEIRER, West Wyalong.
SWAINS, LTD., Pitt Street.
HARRINGTONS LTD.



2.20 p.m.—Description of PENNANT CRICKET: Finals by Rod. McGregor.
2.25 p.m.—Description of Stawell Athletic Club Sports described from Central Park, Stawell.
2.35 p.m.—Description of Juvenile Handicap, 6 furlongs, WILLIAMSTOWN RACES, by "Aintree."
2.40 p.m.—JACK LUMSDAINE (The Radio Rascal), whispering baritone (by permission J. C. Williamson, Ltd):
"Dew, Dew, Dewey Day."
"Calling" (Lumsdaine).
2.47 p.m.—Description of PENNANT CRICKET: Finals, by Rod. McGregor.
2.57 p.m.—THE STATION ORCHESTRA:
Selection, "The Chocolate Soldier."
3.7 p.m.—BERYL HAYDEN, soubrette, (by permission J. C. Williamson, Ltd.):
"A Little Light Entertainment."
3.10 p.m.—Description of W.R.C. Easter Cup, 1½ miles, WILLIAMSTOWN RACES, by "Aintree."
3.15 p.m.—Description of Stawell Athletic Club Sports, described from Central Park Stawell.
3.25 p.m.—THE STATION ORCHESTRA:
"A Musical Switch—A Pot Pourri of Melodies Old and New" (Alford).
3.40 p.m.—NED TYRRELL, banjo:
Selected.
3.45 p.m.—Description of Steeplechase, 2 miles, WILLIAMSTOWN RACES, by "Aintree."
3.50 p.m.—ROY GALLOWAY, baritone (by permission J. C. Williamson, Ltd.):
"Oh, Do Cheer Up."
3.55 p.m.—Description of PENNANT CRICKET: Finals, by Rod. McGregor.
4.5 p.m.—THE STATION ORCHESTRA:
Selection, "You're in Love" (Friml).
4.15 p.m.—Description of Federal Handicap, 5 furlongs, WILLIAMSTOWN RACES, by "Aintree."
4.20 p.m.—EILEEN CASTLES, soprano:
"The Forest Song," from "Robin Hood" (Bekovis).
4.25 p.m.—FRANK AND FRANCIS LUIZ, steel guitar:
"Hula Blues."
"Kawaihau Waltz."
4.30 p.m.—Description of Stawell Athletic Club Sports, described from Central Park, Stawell.
4.40 p.m.—THE STATION ORCHESTRA:
Reconciliation from the Ballet, "Les Millions D'Arlequin."
4.45 p.m.—Description of Werribee Welter, 1 mile, WILLIAMSTOWN RACES, by "Aintree."
4.50 p.m.—Special eather Report for Mildura district. Weather report from Adelaide.
4.51 p.m.—Description of PENNANT CRICKET: Finals, by Rod. McGregor.
5 p.m.—"Herald" News Service. Sporting results.
5.10 p.m.—Description of Stawell Athletic Club Sports, described from Central Park, Stawell.
5.15 p.m.—Close down.
During the afternoon results will be given of Stratford Races as they come to hand. Also of the Races at Randwick, Sydney.

EVENING NEWS SESSION.

5.30 p.m.—Description of Stawell Athletic Club Sports described from Central Park, Stawell.
5.50 p.m.—Sporting results.
6 p.m.—Answers to Letters and Birthday Greetings, "BILLY BUNNY."
6.20 p.m.—CAPTAIN DONALD MacLEAN:
"The Spanish Conquests."
How the Dons disc'overed the Treasure of the World."
6.35 p.m.—Musical Interlude.
6.40 p.m.—"BILLY BUNNY":
"Stories of the Australian Bush."

MELODIES—NOT MARKETS.

7 p.m.—Sonora Recital of the World's Most Famous Records.

NIGHT SESSION.

7.30 p.m.—E. C. H. TAYLOR will talk to Young Australia on
"School Life and School Sport."
7.45 p.m.—COLONEL POTTINGER:
"Asiatic Problems affecting Australia. Other Countries in Asia."
8.15 p.m.—Birthday Greetings and Programme announcements.

A MUSICAL MEDLEY.

8.16 p.m.—COLLINGWOOD CITIZENS' BAND:
March, "Thru Bolts and Bars."
Cornet Solo, "Easter Flowers."
8.26 p.m.—ROY GALLOWAY, baritone (by permission J. C. Williamson, Ltd.):
Selected.
8.33 p.m.—FRENCH BROS., banjoists:
"In a Street of Chinese Lanterns" (Melcliffe).
"It"—from "Desert Song" (Romberg).
8.40 p.m.—LILLIAN STOTT, soprano;
Waltz Song, "Tom Jones" (German).
"The Elf Man" (Wills).
8.47 p.m.—COLLINGWOOD CITIZENS' Band:
Serenade, "Magic."
8.54 p.m.—BERYL HAYLEN, soubrette;
"Confidences."
9 p.m.—THE STATION ORCHESTRA:
"Atalantis"—The Lost Continent (Safranek).
1. "Morning Hymn of Praise."
2. "A Court Function."
3. "I Love Thee" (The Prince and Aaner).
4. "The Destruction of Atlantis."
"Elegie" (from Trio in D Minor" (Arensky).
9.10 p.m.—FRANK AND FRANCIS LUIZ:
Duet, "Hula Maid."
Steel guitar, "Three o'clock in the Morning."
Song, "Kuu Ipo."
Duet, "My Honolulu Hula Girl."

ONE ACT PLAY.

9.22 p.m.—"A BREEZY MORNING."
Mr. Goldie, MAURICE DUDLEY.
Mrs. Goldie, MRS. MAURICE DUDLEY.
9.42 p.m.—COLLINGWOOD CITIZENS' BAND:
"An Idyl."
9.50 p.m.—JACK LUMSDAINE (The Radio Rascal), Whispering Baritone (by permission J. C. Williamson, Ltd.):
"Shady Tree."
"Mary Lou."
9.57 p.m.—FRENCH BROS., banjoists:
"Lantern of Love" (Werinch).
"One Summer Night" (Coslow).
10 p.m.—ROY GALLOWAY, baritone:
Selected.
10.10 p.m.—Weather.
10.11 p.m.—THE STATION ORCHESTRA.
Selection, "The Works of Moszkowski."
10.22 p.m.—LILLIAN STOTT, soprano:
"Come, Cushion Your Head."
"Dream o' Day, Jill" (German).
10.29 p.m.—COLLINGWOOD CITIZENS' BAND:
March, "The Call of the East."
10.34 p.m.—JACK LUMSDAINE, Whispering Baritone:
"I Wonder How I Look when I'm Asleep."
"It all Depends on You."
10.41 p.m.—"Argus" news service. Meteorological information. British official wireless news from Rugby. Island Steamer Movements.
The Royal Automobile Club of Victoria's SAFETY MESSAGE for to-day is for MOTORISTS:
"An automobile engine running in an ordinary small garage with doors and windows closed will produce enough carbon monoxide in a few minutes to cause death. If a person is alone in such a garage, he is generally overcome without warning."
10.51 p.m.—COLLINGWOOD CITIZENS' BAND:
Fox Trot, "There ain't no maybe in my Baby's Eyes."
Melody, "Reconciliation."
11 p.m.—OUR GREAT THOUGHT:
"To the thousands of men whose bodies lie in far away countries, who made the supreme sacrifice for us, the silent testimony in our midst of a Shrine of Remembrance, designed as far as possible as an adequate expression of a people's desire that the sacrifice made on their behalf should never be forgotten, is a proper offering to their blessed memory."—Sir Aaron Danks.

DANCE MUSIC.

11.1 p.m.—THE VAGABONDS.
11.40 p.m.—"GOD SAVE THE KING."

3AR, MELBOURNE

MONDAY, 9th APRIL, 1928.

EARLY MORNING SESSION.

9.15 a.m.—Description of the arrival of mail liner from overseas at Prince's Pier, Port Melbourne, by Mr. J. D. Porter, of the "Graphic."

MORNING NEWS SESSION.
11 a.m. to 12 noon.

MIDDAY CONCERT SESSION.

Transmitted from Panatrope House, 252 Collins Street (by exclusive permission of Wills and Paton, Ltd.), on the Brunswick Panatrope.

MATINEE SESSION.

ORCHESTRAL DANCE CONCERT.

Sport. During the afternoon, the results of the Williamstown races, together with other information, will be broadcast immediately after each race is run.
2 p.m.—Ayarz Dansonians.
A half-hour Dance Session of the latest popular dance hits by Melbourne's favorite Dance Band. Each one announced prior to its presentation.
2.30 p.m.—Melbourne Concert Orchestra:
"Scandinavian Suite" (Juel-Fredericksen).
"Toreador et Andalouse" (Rubenstein).
2.45 p.m.—Miss Ethel Newman, from the Palace Theatre, London, in recitations and monologues.
2.53 p.m.—Melbourne Concert Orchestra:
"Sanderson's Popular Songs" (Baynes).
"The Turkish Patrol" (Michaelis).
3.8 p.m.—Mr. Herbert Pettifer, violin:
"Playera" (Sarasate).
3.12 p.m.—Miss Ethel Newman, entertainer, in monologues.
3.19 p.m.—Ayarz Dansonians.
3.30 p.m.—Interval announcements.
3.40 p.m.—Melbourne Concert Orchestra:
"Woodland Sketches" (MacDowell).
4 p.m.—G.P.O. Clock says "Four."
4.1 p.m.—Second weather forecast.
4.3 p.m.—Mr. Charles Duncan, baritone:
"The Blue Dragoons" (Russell).
"My Dreams" (Tosti).
4.11 p.m.—Ayarz Dansonians.
4.27 p.m.—Mr. Ernie Pettifer, saxaphone:
"Saxaphobia" (Wiedoeft).
4.31 p.m.—Mr. Charles Duncan, baritone:
"At Santa Barbara" (Russell).
"Clothes Props" (Charles).
4.39 p.m.—Melbourne Concert Orchestra:
Selection: "The Maid of the East" (Neale).
"La Bella Espagnola" (Moses-Tobani).
4.50 p.m.—To-night's entertainment.
4.55 p.m.—Special racing report; acceptances and barrier positions for the Moonee Valley races, by "Daybreak."
5 p.m.—G.P.O. Clock says "Five."
God Save the King.

CHILDHEN'S SESSION.

6.30 p.m.—3AR's Cousin Peter.

EVENING SESSION.

EVERYBODY'S CONCERT.

7.15 p.m.—Book Session. Mr. Alfred Firman, Chief Librarian of Mullen's, presents rapid reviews on books of yesterday, to-day, and to-morrow.
7.25 p.m.—Hobby Session. Mr. W. S. Corfield, of Harrington's, will speak on "Photography for Beginners."
7.35 p.m.—Sport Session. "Harlequin" presents his budget of up-to-date news and comments on Sport of the day.
7.50 p.m.—Macnamara's Stock reports.
8 p.m.—G.P.O. Clock says "Eight."
8.1 p.m.—Melbourne Concert Orchestra:
"L'Arlesienne, Part 2" (Bizet).
8.18 p.m.—Miss Julia Russell, soprano:
"Aubade le Roi D'ys" (Lalo).
"Cradle Song" (Gretchaninow).
8.26 p.m.—Ayarz Dansonians.
8.42 p.m.—Mr. Charles Trewais, baritone:
"Captain Mac" (Sanderson).
"Song of the Toreador" (Bizet).
8.50 p.m.—Mr. C. A. Jamieson, of China Inland Mission, Kanchow, Kiangsi Province,

EMMCO *hands industry a new Radio Factory*

In the remarkable development of the radio industry in Australia, Emmco has played a leading part. The Company has fostered a spirit of progress which has resulted in a higher standard of radio efficiency, coupled with lower prices.

Emmco radio products are used in thousands of sets all over Australia, from the simple crystal receiver to the eight valve superhet. Many manufacturers standardise on Emmco parts for their receivers.

In the big new Emmco factory, provision has been made for a vastly increased output of radio parts. The public know that name Emmco. They ask for Emmco products.

THE DEMAND FOR EMMCO PRODUCTS IS MORE THAN DOUBLE THAT OF LAST YEAR.

SOME EMMCO PRODUCTS.

A.B.C. Eliminators.	"B" Battery Eliminators.
Super Power Eliminators.	Transformers.
Condensers.	Emmcostads.
Rheostats.	Vernier Dials.
Headphones.	Sockets.

Also the new Velmo Vernier Dial at 6/-, and the Baby Velmo at 5/- (for May delivery).

Buy Emmco RADIO PRODUCTS AT ALL DEALERS

Invitations to the official opening of the new Emmco factory, on April 12th, are issued to radio dealers by Mr. H. J. Hapgood, Manufacturers' Products Pty., Ltd., Challis House, Sydney.

will speak. "Anti-British and Anti-Christian Demonstrations."
9.2 p.m.—Melbourne Concert Orchestra: "Godard Cycle" (Ernest Urbach).
9.20 p.m.—Miss Julia Russell, soprano: "The Maids of Cadiz" (Delibes). "J'ai Pleure en Reve" (Georges Hue).
9.28 p.m.—"Harlequin." Sport results.
9.36 p.m.—Melbourne Concert Orchestra: "The Cabaret Girl" (Kern).
9.50 p.m.—Announcements.
10 p.m.—G.P.O. Clock says "Ten."
10.1 p.m.—Semi-final weather forecast, specially for our Country Listeners.
10.3 p.m.—Ayarz Dansonians.
10.12 p.m.—Mr. Charles Trewais, baritone: "The Windmill" (Nelson). "The Fairy Tales of Ireland" (Eric Coates).
10.20 p.m.—Melbourne Concert Orchestra.
10.35 p.m.—Ayarz Dansonians.
10.45 p.m.—"Harlequin." Sport results.
10.52 p.m.—The "Age" News Bulletin, exclusive to 3AR.
10.58 p.m.—Final weather forecast.
10.59 p.m.—Our Australian Good-night quote is taken from the poem, "The Wish," by Mary Gilmour.
11 p.m.—G.P.O. Clock says "Eleven." God Save the King.

4QG, BRISBANE.

MONDAY, 9th APRIL, 1928.

NO MORNING TRANSMISSION.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

A description of the Q.T.C. Easter Race Meeting will be relayed direct from Ascot Racecourse.

The time for the commencement of the transmission will depend upon the starting time of the first race.

From Ascot Q.T.C. Meeting.
5 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—Mail train running times, Daily Standard news.
Weather information announcements.
6.10 p.m.—Lecturette: A French talk—the tenth and last of a series—"Idioms, Common Proverbs"—by Dr. E. A. D'Edgerley.
6.30 p.m.—The children's session: Stories by "The Sandman."
7 p.m.—Special news service; market reports; stock reports.
7.30 p.m.—Weather news; "Daily Standard" news; announcements.
7.43 p.m.—Standard time signals.
7.45 p.m.—Lecturette: "The Children's Music Corner"—conducted by the "Music Man."

NIGHT SESSION.

The final session of the Ipswich-Blackstone Eisteddfod will be relayed from the Tivoli Theatre, Ipswich.

The programme will include the final chorus and the final items in the soprano, contralto, tenor, baritone, bass, and other sections.

8 p.m.—Ipswich-Blackstone Eisteddfod.
10 p.m.—"Daily Mail" news.
Weather news.
Close down.

5CL, ADELAIDE.

MONDAY, 9th APRIL, 1928.

DAY SESSION.

12 noon.—G.P.O. Chimes.
12.1 p.m.—"Advertiser" news service and British Wireless News.
12.30 p.m.—Musical numbers on the studio "Recreator."
1 p.m.—Relayed from Oakbank Racecourse, a running description of events of the Onkaparinga Racing Club's annual meeting, by Mr. Arnold Treloar, interspersed with musical numbers and interstate results from the Studio.
5 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
6.1 p.m.—Children's entertainment by the 5CL Radio Family.
6.30 p.m.—Dinner Music on the Studio "Recreator."
6.50 p.m.—Resume of the afternoon's sporting results.
7 p.m.—G.P.O. Chimes.
7.1 p.m.—Dinner Music continued.
7.8 p.m.—Scripture Reading.
7.15 p.m.—Talk arranged by the Aborigines Protection League.
7.30 p.m.—"The care of the clothes" a talk arranged by Ford Bros.
7.40 p.m.—Entertainment for the 5CL Twinkler Boys Club.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Special Popular and Comedy concert by the 5CL Costume Comedy Company, and the Studio Orchestra, including:
Wm. Runge, comedian.
Don Fraser, comedian.
Geo. Horton, humorist.
Linda Wald, soprano.
Beatrice Kingston, soubrette.
Tom King, pianist.
Lizette Foglia, violin.
9 p.m.—G.P.O. Chimes.
9.1 p.m.—Meteorological information.
9.2 p.m.—British Wireless news.
9.9 p.m.—Comedy Company concert continued.
10.1 p.m.—"Advertiser" news service.
10.10 p.m.—Interstate and local sporting results.
10.15 p.m.—Comedy Company concert continued.
10.30 p.m.—Dance Music relayed from the Maison de Danse, Glenelg.
10.55 p.m.—Tuesday's programme and meteorological information.
11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH.

MONDAY, 9th APRIL, 1928.

MIDDAY SESSION.

12 noon.—Tune in.
12.5 p.m.—Musical programme, including vocal and instrumental numbers also pianoforte solos by Miss Evelyn Willis, A.R.C.M.
12.47 p.m.—Markets, News, and Cables.
1 p.m.—Time signal.
1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Close down.
1.55 p.m.—Tune in.

AT ASCOT.

EASTER MEETING (Second Day).

Running commentary of the following Racing events relayed from Ascot Racecourse, Ascot.
2 p.m.—Padbury Hurdles, (two miles and a quarter).
2.40 p.m.—Autumn Handicap (six furlongs).
3.20 p.m.—Metropolitan Handicap (one mile and a half.)
3.30 p.m.—From the Studio.
Musical programme, including vocal and instrumental numbers.
Progressive Cricket scores.
4 p.m.—The W.A.T.C. Sires' Produce Stakes of 1928 (seven furlongs).
4.40 p.m.—The W.A.T.C. St. Leger of 1928 (one mile and three quarters).
5.20 p.m.—Avon Handicap, Welter (Seven-furlongs).
5.30 p.m.— Close down.
6.45 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
6.50 p.m.—Stories for the kiddies by Uucles Herny, Bertie and Duffy.
7.20 p.m.—Stocks, Market, news.
7.45 p.m.—Talk by Lieut. Col. Le Souef, Director of the Zoological Gardens, South Perth.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements such as alterations to programmes, etc.
8.3 p.m.—Concert Night.
Musical programme from the Studio, including vocal and instrumetal artists.
10 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.
Ships within Range announcement.
Weather report and forecast.
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 6.45 p.m.

7ZL, HOBART

MONDAY, 9th APRIL, 1928.

MORNING SESSION.
11 a.m. to 12 noon.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes the hour.
3.1 p.m.—Musical selection.
3.5 p.m.—Hobart Stock Exchange quotations.
Weather information.
Items of interest.
3.15 p.m.—Selections by 7ZL studio Trio: "Selections from A Princess of Kensington" (German). "A Japanese Sunset" (Deppen).
Violin Solo. Selected. Mr. E. J. McCann.
"Dreamy Lagoon" (Elliott).
"Canzone d'Amour" (Buro).
"Reverie" (Volpatti).
4.15 p.m.—Fashion talk by Aunt Edna of Brownells Ltd.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Funny Man talks to the children.
7 p.m.—Uncle Hector talks to the children.

NIGHT SESSION.

7.30 p.m.—Musical selection.
7.35 p.m.—News bulletin from the Department of Markets and Migration.
7.50 p.m.—Mercury special Tasmanian news service.
Railway auction produce sales.
Weather forecasts.
Hobart Stock Exchange quotations.
8 p.m.—G.P.O. Clock chimes the hour.
8.1 p.m.—Band Concert by Risdon E. Z. Band. Conductor, Mr. A. Byrne.
9.40 p.m.—British Official Wireless news service.
Tasmanian District Weather reports.
9 p.m. weather forecasts.
Weather reports from Australian Capital cities.
Station announcements.
Tuesday's programme.
Close down.

Tuesday, April 10

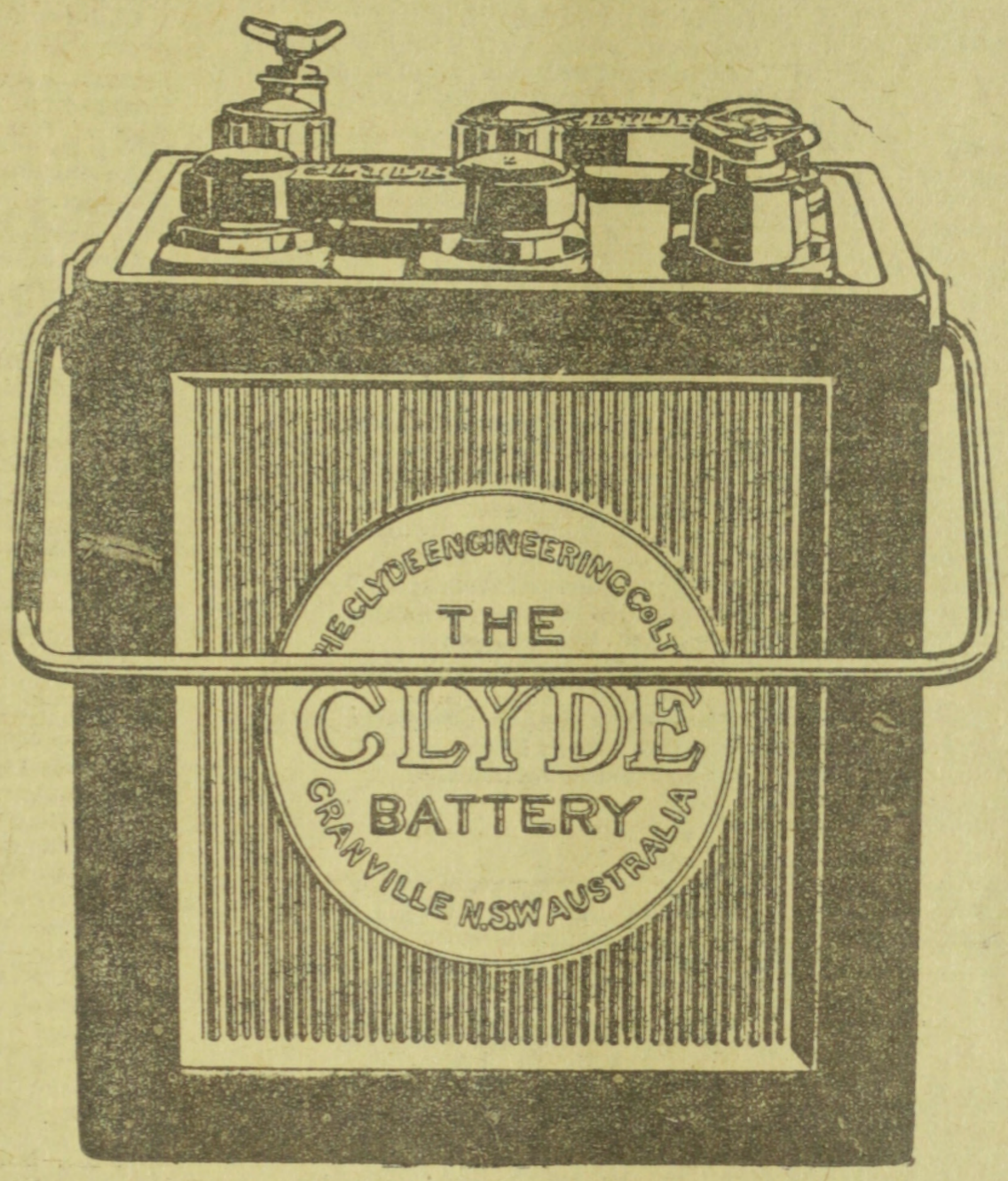
2FC, SYDNEY

EARLY MORNING SESSION.
7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.10 a.m.—"Sydney Morning Herald" news service.
10.20 a.m.—Last minute Racing information by the 2FC Commissioner.
10.30 a.m.—From the King's Hall: Opening of the First Annual Conference of the Music Teachers of New South Wales.
11 a.m.—From the Studio: "Big Ben" and studio music.

CLYDE



Clyde for Cars, Radio and Home Lighting.

IT hardly needs our continued assurance to convince you that Clyde is a good battery.

If you want more, just ask the man who has been using a Clyde Radio Battery for twelve months or more.

Provided he has given it decent, ordinary attention, he will tell you that it is as good to-day as the day he bought it.

He will tell you that it has given him—right through—steady, silent service, without trouble or worry—that it has stood up to its work as a good battery should.

Depend upon it. You're quite safe in buying a Clyde.

Made by The Clyde Engineering Company, Limited, Granville.

Obtainable at all Radio Dealers and Garages.

BATTERY SALES DEPT.,

MAIN SERVICE STATION

106-110 Goulburn Street, SYDNEY.

11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.15 a.m.—A Cooking Talk by Miss Ruth Furst.
11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning Herald" news service.
12.15 p.m.—Rugby Wireless News.
12.20 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.20 p.m.—Studio music.
1.28 p.m.—Stock Exchange, second call.
1.30 p.m.—Phillipa Alston, contralto.
1.34 p.m.—Studio music.
1.55 p.m.—Phillipa Alston, contralto.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.3 p.m.—From the King's Hall, Sydney: On the occasion of the first Annual Conference of the Music Teachers of New South Wales: Musical Lecture on Pianoforte. Lecturer, Walter Thorman.
3.30 p.m.—From the Studio:
Helen Morris, soprano.
3.35 p.m.—Nita Lee, soubrette:
"Once in a Blue Moon" (Lang).
3.40 p.m.—Popular records.
3.55 p.m.—Phyllis Broadbent, soprano.
4 p.m.—"Big Ben." A reading.
4.15 p.m.—Helen Morris, soprano.
4.20 p.m.—A Pianoforte reproduction.
4.30 p.m.—Nita Lee, soubrette:
"Baby Mine" (Donaldson).
4.35 p.m.—Studio music.
4.40 p.m.—Pyllis Broadbent, soprano.
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Studio music.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The Chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the children.
6.15 p.m.—Story time for the young folk: Fairy Tales told by "Aunt Lily."
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news.
7.10 p.m.—Dalgety's market reports (wool, wheat and stock).
7.18 p.m.—Fruit and vegetable markets. P.D.S. Poultry Reports.
7.22 p.m.—Weather and shipping news.
7.26 p.m.—"Evening News" late news service.

NIGHT SESSION.

7.35 p.m.—Programme announcmeents.
7.40 p.m.—From the King's Hall, Sydney (arranged by the Musical Association of N.S.W.):
A Lecture Concert in connection with the First Annual Conference of the Music Teachers of N.S.W.
Lecturers: Lindley Evans, H. F. Treharne.
"Musical Appreciation in the Schools."
The use of Disc Records (with illustrations) and Radio—The Employment of Music Teachers in the Schools—Method of Training School Choirs.
Musical programme by School Choirs:
1. "Boat Song" (Steele).
Choir, Presbyterian Ladies' College, Croydon. (Conductor, Lindley Evans.)
2. "Care mio ben" (unison) (Giordano).
"Under the Greenwood Tree" (two parts) (Steele).
"Vesper Hymn" (three parts) (Beethoven-Gratton).
The Canterbury Boys' High School. (Conductor, H. W. Peterson, B.A.
3. "O Hush Thee my Baby" (three parts) (Sullivan).
"A Dryad Asleey" (unison) (B. F. West).
"Water Lilies" (Karl Linders).
"The Lord is my Shepherd" (H. Smart).
"The Enchanted Spring" (P. E. Fletcher).
"The Gipsy Chorus" ("Bohemian Girl") (Balfe).
Selections from the above by the Boys' Choir of the Christian Brothers, St. Mary's Cathedral. (Conductor, The Rev. Brother Healy.)
9 p.m.—"Big Ben."
From the Studio:
Late weather forecast.
Charles Lawrence.
9.10 p.m.—Clyde Thorpe, violinist:
(a) "Chanson Polonaise" (Emilio Pente).
(b) "Andante Cantabile" (Tschaikowsky-Kreisler).
9.18 p.m.—Rev. F. J. Raward:
"My Grouch Against 2FC."
9.32 p.m.—Charles Armand, basso.
9.40 p.m.—Clyde Thorpe, violinist:
(a) "Tango" (Albeniz-Elman).
(b) "Minuett" (Boccherini).
9.48 p.m.—Elliott Napier will give a talk on "The Great Barrier Reef" (the first of a series).
10 p.m.—Charles Lawrence, entertainer:
Humorous Song and Story.
10.10 p.m.—Charles Armand, basso.
10.18 p.m.—From the Ambassadors:
The Ambassadors' Dance Orchestra.
Conductor, Al. Hammet.
10.26 p.m.—Items from the Studio.
10.32 p.m.—Late weather forecast.
10.33 p.m.—From the Ambassadors:
The Ambassadors Dance Orchestra.
10.57 p.m.—From the Studio:
To-morrow's programme and late news.
11 p.m.—"Big Ben."
The Ambassadors Dance Orchestra in popular numbers until 11.45 p.m.
11.45 p.m.—National Anthem.
Close down.

2BL, SYDNEY.

TUESDAY, 10th APRIL, 1928.

EARLY MORNING SESSION.

8 a.m. to 9 a.m.

MORNING SESSION.

10.30 a.m.—G.P.O. Clock and chimes.
Musical programme from Studio.
11 a.m.—G.P.O. Clock and chimes.
Social Notes—Replies to correspondents.
Talk on "Toilet Hints" by Mamselle Vitkowska.
During the day descriptions of ring events will be broadcast from the Royal Agricultural Show.
12 noon.—G.P.O. Clock and chimes.
Special Ocean forecast and weather report.
12.3 p.m.—Musical programme from the studio
12.8 p.m.—Information—Mails, Shipping, and port directory.
12.11 p.m.—Boats in call by wireless.
12.13 p.m.—Fruit Market report.
12.15 p.m.—Vegetable Market Report.
12.17 p.m.—London Metal Market report.
12.19 p.m.—Dairy Farm and Produce Market Report.
12.22 p.m.—Forage Market Report.
12.24 p.m.—Fish Market report.
12.26 p.m.—Rabbit Market report.
12.28 p.m.—Stock Exchange report.
12.30 p.m.—H.M.V. Gramoprone recital.
1.27 p.m.—Stock Exchange Report.
1.30 p.m.—G.P.O. Clock and chimes.
Talk to children and special entertainment for children in Hospital.
2 p.m.—G.P.O. Clock and chimes.
Close down.

AFTERNOON SESSION.

Racing information broadcast immediately after each race by courtesy of the "Sun."
3 p.m.—G.P.O. Clock and chimes.
News from the "Sun."
3.15 p.m.—Civil Service Stores Trio.
3.30 p.m.—News from the "Sun."
3.40 p.m.—Pianoforte Recital from the Studio.
3.50 p.m.—News from the "Sun."
4 p.m.—G.P.O. Clock and chimes.
Civil Service Stores Trio.
4.15 p.m.—Talk on "The Women of Ancient Rome."
4.35 p.m.—Musical programme from the studio
4.50 p.m.—News from the "Sun."
4.55 p.m.—Features of evenings programme.
4.57 p.m.—Poultry Market report.
4.59 p.m.—Racing Resume.
5 p.m.—G.P.O. Clock and chimes.
Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
Children's Session.

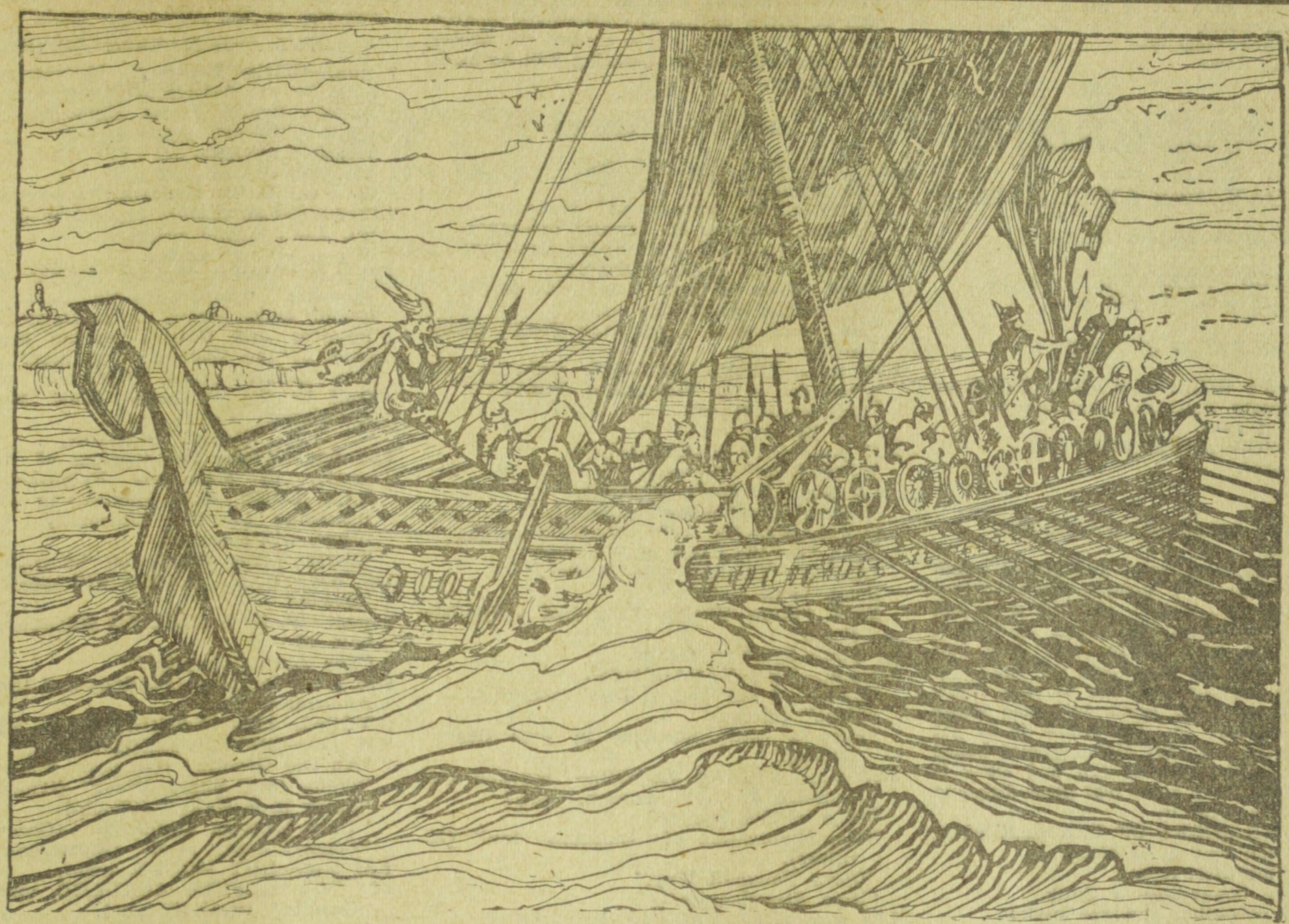
SPECIAL COUNTRY SESSION.

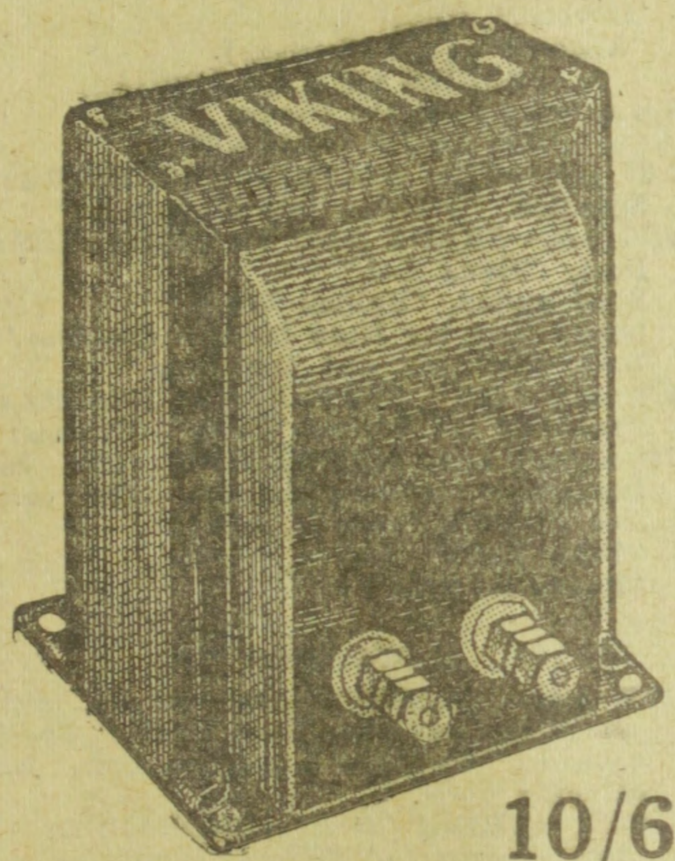
6.30 p.m.—G.P.O. Clock and chimes.
Australian Mercantile Land and Finance Co's report.
Weather report and forecast by courtesy of Govt. Meteorologist.
Producers Distributing Society's Fruit and Vegetable Market report.
Stock Exchange report.
Grain and Fodder report ("Sun.")
Dairy Produce Report ("Sun.")
N.R.M.A. Talk.
6.45 p.m.—Country News from the "Sun."
7 p.m.—G.P.O. Clock and chimes.
Dinner Music.
7.30 p.m.—Talk by a member of the St. John Ambulance Assoc.
8 p.m.—G.P.O. Clock and chimes.
Broadcasters' Topical Chorus.
8.3 p.m.—Night of Shakespeare, and music inspired by his works, with brief dissertations on the various items, and selections from Shakespeare, by Mr. W. S. Reay.
Broadcasters' Light Orchestra, under the direction of Mr. J. Knight Barnett.
8.10 p.m.—Miss Helena Stewart, soprano.
8.17 p.m.—Miss Mary Charlton, pianist.
8.24 p.m.—Mr. Peter Sutherland, basso.
8.31 p.m.—Mr. W. S. Reay.
8.41 p.m.—Miss Madge Clague, contralto.
8.48 p.m.—Mr. Norman Wright, tenor.
8.55 p.m.—Weather report and forecast, by courtesy of Mr. C. J. Mares, Government Meteorologist.
Resume of following day's programme.
9 p.m.—G.P.O. Clock and chimes.
9.1 p.m.—Broadcasters' Light Orchestra.
9.8 p.m.—Miss Helena Stewart.
9.15 p.m.—Miss Mary Charlton.
9.22 p.m.—Mr. Peter Sutherland.
9.29 p.m.—Broadcasters' Light Orchestra.
9.36 p.m.—Miss Madge Clague.
9.43 p.m.—Mr. W. S. Reay.
9.53 p.m.—Mr. Norman Wright.
10 p.m.—G.P.O. Clock and chimes.
10.1 p.m.—Broadcasters Light Orchestra.
10.11 p.m.—The Wentworth Cafe Orchestra, under the direction of Mr. S. Simpson, broadcast from the ballroom of the Wentworth. During the intervals between dances "Sun" news will be broadcast.
11.30 p.m.—G.P.O. Clock and chimes.
National Anthem.

2 UW, SYDNEY

TUESDAY, 10th APRIL, 1928.

7 p.m.—Studio items.
7.10 p.m.—Where to Go Session.
7.14 p.m.—Dinner music.
7.40 p.m.—Mrs. James Campbell, pianoforte solo: Selected.
7.47 p.m.—Studio items.
7.55 p.m.—Mr. and Mrs. Campbell, steel guitar duet:
(a) Selected.
(b) Selected.
8.1 p.m.—News items.
8.15 p.m.—Mrs. Campbell, pianoforte solo: Selected.
8.22 p.m.—Studio items.
8.30 p.m.—Mr. and Mrs. James Campbell, steel guitar duet:
(a) Selected.
(b) Selected.
8.37 p.m.—Weather forecast.
8.40 p.m.—Gems of the Opera (arranged and presented by Mr. G. F. Manuel):
(a) Story of the opera.
(b) Biographical notes on life of composer.





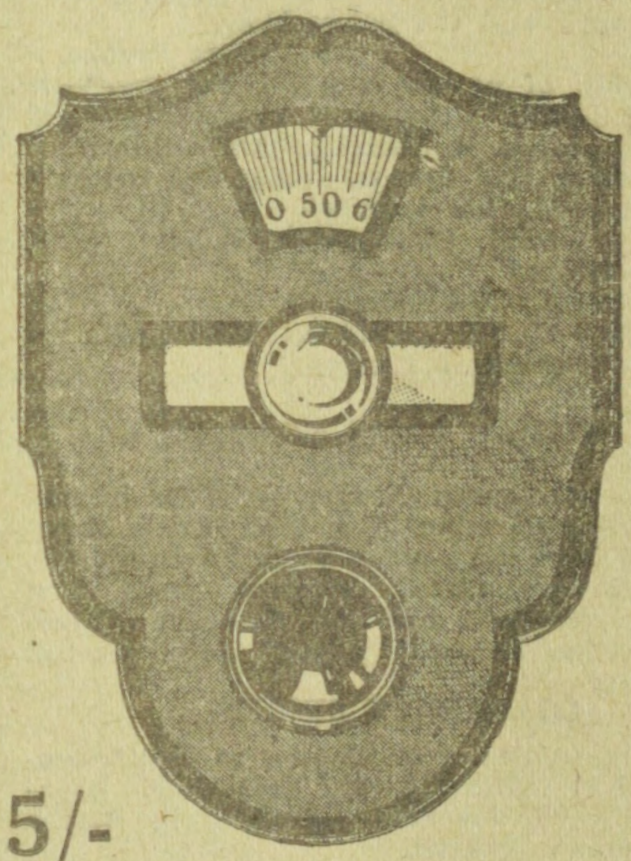
10/6

Another VIKING arrives in Australia!

TO join that other famous "Viking"—the Audio Frequency Transformer — now comes the "Viking" Vernier Dial. Here it is on the right, and it's yours for 5/-. Handsome, isn't it? And gives you velvet control.

On the left is illustrated the "Viking" Transformer. Gives you tons of volume, but no distortion. Price, 10/6.

Ask your dealer for both "Vikings."



5/-

The VIKING Range of RADIO PARTS

"Nothing Cheaper — — Nothing Better!"

WHOLESALE DISTRIBUTORS FOR N.S.W.

Fox & Macgillycuddy Ltd., Sydney
Harringtons Ltd. - - - Sydney
A. G. Healing Ltd. - - - Sydney
Weldon Electric Supply Co. Ltd. Sydney

(c) Vocal and instrumental illustrations taken from each act of the opera.
(d) Musical notes.
9.55 p.m.—Announcements.
10 p.m.—Close down.

3LO, MELBOURNE

TUESDAY, 10th APRIL, 1928.

EARLY MORNING SESSION.

"HERALD" BREAKFAST HOUR.
7.15 a.m. to 8.15 a.m.

MORNING SESSION.

11 a.m.—3LO's CULINARY COUNSELS, or how to create creature comforts with a minimum of cash.

LEMON SNOW PUDDING.

½ pint water.
1 egg.
2 lemons.
1 tablespoon arrowroot or cornflour.
2 oz. sugar.

METHOD: (1) Put water and grated lemon rind on to boil. (2) Moisten the arrowroot with a little cold water. (3) Stir it in and cook three minutes. (4) Turn it into a basin to cool, add lemon juice and boil lightly. (5) Whip up white of egg very stiffly. (6) Lightly add one to the other. (7) Wet a mould or basin with cold water and put mixture in. (8) Allow it to get quite cold and set. (9) Make ½ pint boiled custard with the yolk of egg and allow it to cool. (10) Turn snow into glass dish and serve custard with it.

11.2 a.m.—THE GLORY OF THE GARDEN:
"Just now the lilac is in bloom
All before my little room;
And in my flower-beds, I think
Smile the carnation and the pink;
And down the borders, well I know,
The poppy and the pansy blow."
—Rupert Brooke.
"O thing of beauty is a joy for ever"—is YOUR Garden a bower of blossoms?
11.5 a.m.—MISS E. NOBLE, gas cooking:
"Preparing cold Sweets, Jellies and Cream."
11.20 a.m.—Musical interlude.
11.25 a.m.—MRS. DOROTHY SILK:
"Homecrafts."
11.40 a.m.—Musical interlude.
11.45 a.m.—CAPT. DONALD MacLEAN:
"Great Women of History."

MIDDAY NEWS SESSION.

12 noon.—Melbourne Observatory Time Signal.
12.1 p.m.—Australian Mines and Metals Association from the London Stock Exchange this day. British official wireless news from Rugby. Reuter's and the Australian Press Association Cables. "Argus" news service.

COMMUNITY SINGING.

12.15 p.m.—Community singing in the Assembly Hall, Collins Street, Melbourne. (Conductor, G. J. Mackay). Assisted by Bertha Jorgensen's Quartet.
Soloists:
EILEEN CASTLES, soprano:
"Ave Maria" (Gounod).
With violin obligato by Bertha Jorgensen:
"Believe me if all those endearing young charms" (Irish).
JACK LUMSDAINE (The Radio Rascal), Whispering baritone (by permission J. C. Wiillamson, Ltd.):
Selected.
FROM THE STUDIO:
1.45 p.m.—Meteorological information. Weather forecast and rainfall for Victoria, Tasmania, South Australia and New South Wales. Ocean forecasts. River reports. Stock Exchange information.
1.55 p.m.—Under the auspices of the National Safety Council of Victoria, J. FOWLER, Betterment and Publicity Board, Victorian Railways, will speak on
"Safety First."
2.10 p.m.—Close down.
Results of Stawell Amateur Turf Club Races will be given during the afternoon, hourly. Note: If Cricket Finals extend till to-day arrangements for broadcasting will be made accordingly.

AFTERNOON SESSION.

2.15 p.m.—THE VAGABONDS:
"My Regular Girl" (Warren).
"Fifty Million Frenchmen" (Rose).
"Golden Memories of Hawaii" (Stevens).
2.24 p.m.—OLIVER PEACOCK, baritone.
2.31 p.m.—THE VAGABONDS:
"Night Time is Love Time" (Davis).
"Wondering Why" (Malie).
"How long must I wait for You?" (Stillwell).
2.40 p.m.—BERYL HAYDEN, soubrette (by permission J. C. Williamson, Ltd.):
"Millions of Men."
"Sad Ending."
2.47 p.m.—THE VAGABONDS:
"Slow River" (Myers).
"A Night in June" (Friend).
"Me and My Shadow" (Jolson).
2.56 p.m.—FRANK AND FRANCIS LUIZ:
Duet, "On the Beach at Waikiki."
Ukulele, "Ukulele Solo Medley."
Song, "Pua Mohala."
Duet, "Since Ukulele Lady had a Ukulele Baby."
3.7 p.m.—Sporting results.
3.8 p.m.—THE VAGABONDS:
"Dance of the Tinker Toys" (Schobel).
"Chloe" (Moret).
"Keep a Little Sunshine in your Heart" (Davis).
3.17 p.m.—VIOLET JACKSON, soprano (by permission J. C. Williamson, Ltd.):
Songs of Old London:
"The Nightingale of Lincoln's Inn" (H. Oliver).
"Down Vauxhall Way."
"Ripe Strawberries."
3.24 p.m.—THE VAGABONDS:
"Put your arms where they belong" (Davis).
"I wonder how I look when I'm asleep?" (Brown).
"A Shady Tree" (Donaldson).
3.33 p.m.—ROY GALLOWAY, baritone (by permission J. C. Williamson, Ltd.):
Selected.
3.40 p.m.—THE VAGABONDS:
"Desert Isle" (Archer).
"C'est Vous" (Silver).
"Sweet Yvette" (Davis).
3.49 p.m.—OLIVER PEACOCK, baritone.
3.56 p.m.—THE VAGABONDS:
"Just Around the Corner" (Hayes).
"My Blue Heaven" (Donaldson).
"I'm Lonely Without You" (Warren).
4.5 p.m.—Sporting results.
4.6 p.m.—BERYL HAYDEN, soubrette.
"Smile, Smile."
4.12 p.m.—THE VAGABONDS:
"Love is just a little bit of heaven" (Bryan).
"Persian Rosebud" (Leslie).
"Just a Memory" (Henderson).
4.21 p.m.—VIOLET JACKSON, soprano:
"The First Violet" (Mendelssohn).
"Lackaway" (Crampton).
4.28 p.m.—THE VAGABONDS:
"Shanghai Dream Man" (Davis).
"Bless her little heart" (Dennicker).
"I've got somebody now" (Williams).
4.37 p.m.—ROY GALLOWAY, baritone:
Selected.
4.45 p.m.—Weather reports.
4.46 p.m.—THE VAGABONDS:
"Baby's Feet go Pitter Patter" (Kahn).
"Cross your Heart" (Gesler).
"Millenberg Joys" (Morton).
5 p.m.—"Herald" news service.
Stock Exchange information.
Sporting results.
5.15 p.m.—Close down.

EVENING SESSION.

5.50 p.m.—Sporting results.
6 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
6.20 p.m.—DICKSON GREGORY:
"The Romantic Career of the S.S. Coogee."
6.35 p.m.—Musical interlude.
6.40 p.m.—"BILLY BUNNY":
"Stories of the Australian Bush."

NEWS AND MARKET REPORTS.

7 p.m.—Official Report of Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke Street, Melbourne.
7.5 p.m.—"Herald" news service.
Weather synopsis.
Shipping movements.
7.12 p.m.—Stock Exchange information.
7.17 p.m.—Fish Market reports by J. R. Borret, Ltd.: Rabbit prices.
7.19 p.m.—River reports.
7.21 p.m.—Market Reports by the Victorian Producers' Co-operative Co., Ltd.: Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions. Market reports of fruit by the Victorian Fruiterers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.

NIGHT SESSION.

7.30 p.m.—Under the auspices of the University of Melbourne Extension Board, C. R. LONG, M.A., Lecturer in Australian Literature to the University Extension Board, will speak on
"Early Verse Production in Australia."
7.45 p.m.—E. M. PASCOE will speak on "Bowls."
8 p.m.—W. J. G. TURNER will speak on behalf of
"The Austin Hospital."
8.15 p.m.—Birthday Greetings and Programme Announcements.

VOCAL AND INSTRUMENTAL RECITAL.

8.16 p.m.—GEORGE FINDLAY, Piano Recital:
"An Old Gavotte" (Composer unknown).
"Waltz in C Sharp Minor" (Chopin).
"Study in E Major" (Chopin).
"To a Watteau Landscape" (Godovski).
"Concert Study in C" (Rubenstein).
8.30 p.m.—GUY MOORE, tenor.
8.37 p.m.—ALFRED ACKLAND, violin:
"Gavotte" (Bach-Kreisler).
"Andantino" (Martini-Kreisler).
"Gavotte" (Gossee).
"Andante" (Tschaikowsky).

STORIES OF THE OPERAS.

9 p.m.—Story of the Opera, Part 3.

VAUDEVILLIANITIES.

9.30 p.m.—THE STATION ORCHESTRA:
Selection, "Whirled into Happiness."
9.40 p.m.—FRANK AND FRANCES LUIZ:
Duet, "Hana Lei."
Steel guitar, "Kalima Waltz."
Song, "Lay my Head beneath the Rose."
Duet, "Drifting and Dreaming."
9.52 p.m.—THE STATION ORCHESTRA:
"Tales of the Vienna Woods" (Strauss).
10 p.m.—JACK LUMSDAINE (The Radio Rascal), whispering baritone (by permission J. C. Williamson, Ltd.):
"Baby Mine."
"Bungalow and You."

NEWS SERVICE.

10.7 p.m.—"Herald" news service. British official wireless news from Rugby. Sporting notes by "Olympus" announcements. Island shipping notes.

THE SHRINE OF REMEMBRANCE:
"Every citizen of Victoria should feel proud to contribute towards the erection of the "Shrine of Remembrance." On the one hand it will denote the last tribute paid by an ever grateful country to those who counted death as nothing compared to the preservation of that liberty and freedom, the achievement of which has meant so much to the development of the race. On the other hand, it will conote our humble thanks to God for that preservation whereby our country and our children have been spared a closer acquaintance with the ravages and horrors of war."
Major General H. E. Elliott.

POPULAR FAVOURITES.

10.17 p.m.—EILEEN CASTLES, soprano:
"Roi de Thule" (Gounod).
"Angels Guard Thee" (Godard).
10.24 p.m.—THE STATION ORCHESTRA:
"A Perfect Day" (C. J. Bond).
"Mighty Lak a Rose" (Nevin).

Guaranteed Parts

COUNTRY CLIENTS NOTE.—Postage Paid on Orders over 10/–, with the exception of Sets, Loud Speakers, Batteries, Aerial Wires, and Value Payable Parcels. All goods sold with a Money Back Guarantee if not satisfied and returned within ten days money will be refunded.

Harkness Reflex

Experimenters wishing to build a good reliable three-valve set would be well advised to try this receiver.

	£	s.	d.
1 Panel, 14 x 7 x 3-16 Dilecto	0	10	0
or Bakelite	0	6	2
2 .0005 Advance S.L.F. Condensers	1	1	0
1 De Jur 30 Ohm. Rheostat	0	3	6
1 Single Circuit Jack	0	1	7
1 Double Circuit Jack	0	2	3
1 Detector, Harlie, 7/6; Carborundum	0	11	0
1 Electrad Battery Switch	0	2	0

	£	s.	d.
1 3½-1 Transformer, F.M.C.	0	12	6
1 5-1 Transformer, F.M.C.	0	12	6
1 Cardboard Former, 6 x 3in.	0	0	6
1 Terminal Board	0	2	3
½-lb. 24 D.C.C. Wire	0	2	8
12 Lengths Bus Bar	0	0	10
2 Lengths Spaghetti	0	0	8

Keep Down Your Battery Troubles and Enjoy the Full Benefits of Radio.

	Cash Price. £ s. d.	5 Months' Terms. (19 weekly repayments.)	12 Months' Terms. (52 weekly repayments.)
Colmovox "A" Charger	5 10 0	Dep. 11/–; Weekly 5/6.	Dep. 11/–; Weekly 2/2
Colmovox "A" and "B" Charger	6 10 0	Dep. 13/–; Weekly 6/6.	Dep. 13/–; Weekly 2/6
Philips' Power Plus "B" Eliminator, 3002	9 15 0	Dep. 19/6; Weekly 9/9.	Dep. 19/6; Weekly 3/9
Philips Power Plus "B" and "C" Eliminator, 3003	11 15 0	Dep. 23/6; Weekly 11/9.	Dep. 23/6; Weekly 4/6
Philips' Type 372	8 15 0	Dep. 17/6; Weekly 8/9.	Dep. 17/6; Weekly 3/4
Emmco "B" Eliminator	10 10 0	Dep. 21/–; Weekly 10/6.	Dep. 21/–; Weekly 4/–
Emmco Super Eliminator	12 12 0	Dep. 26/–; Weekly 12/7.	Dep. 26/–; Weekly 4/10
Philco 83X Wet Battery	8 15 0	Dep. 17/6; Weekly 8/9.	Dep. 17/6; Weekly 3/4
Three Star Wet Battery, 80 Volt	5 10 0	Dep. 11/–; Weekly 5/6.	Dep. 11/–; Weekly 2/2
R.C.A. Speaker, 100A	10 10 0	Dep. 21/–; Weekly 10/6.	Dep. 21/–; Weekly 4/–
Amplion A.C., 7 Cone	7 15 0	Dep. 15/6; Weekly 7/9.	Dep. 15/6; Weekly 3/–
Philips' Trickle Charger	3 10 0	Dep. 7/–; Weekly 3/6.	
Rec-Tox. Trickle Charger	5 10 0	Dep. 11/–; Weekly 5/6.	Dep. 11/–; Weekly 2/2

These and any other parts may be purchased on our Easy Payment System.
COUNTRY CUSTOMERS are limited to terms over 5 months only.

SEND FOR LATEST PRICE LIST OF SETS AND PARTS.

Colville Moore Wireless Supplies Ltd.

10 Rowe Street (next Hotel Australia) SYDNEY

Phone, B 2261

10.30 p.m.—ERNEST SAGE, baritone:
"Gracious and Kind Art Thou, My Queen" (Brahm).
"Isobel" (Frank Bridge).
10.37 p.m.—HAROLD MOSCHETTI, tenor sax:
"Vision d'Amour" (Wiedoeft).
10.42 p.m.—THE STATION ORCHESTRA:
Selection, "Mary" (Hirsch).
10.53 p.m.—ERNEST SAGE, baritone:
"All Through the Night" (Walter Maynard).
"Mountain Lovers" (W. H. Squire).
11 p.m.—OUR GREAT THOUGHT:
There are no dull minutes—no moments when there is nothing to do in the home that boasts a radio.
There is always entertainment. There is music to listen to or dance to—a singer, a player, a band or orchestra.
Or one may enjoy a play or lecture, or in spirit stand at the ringside of boxing bout or wrestling match.
Wonderfully varied are the joys of wireless. Have you a radio in YOUR Home?
11.1 p.m.—THE VAGABONDS.
11.40 p.m.—"GOD SAVE THE KING."

3AR, MELBOURNE

TUESDAY, 10th APRIL, 1928.

MORNING NEWS SESSION.
11 a.m. to 12 noon.

MIDDAY CONCERT SESSION.
12 noon to 1 p.m.

Transmitted from Panatrope House, 252 Collins Street (by exclusive permission of Wills and Paton, Ltd.), on the Brunswick Panatrope.

MATINEE SESSION.
ORCHESTRAL DANCE CONCERT.

2 p.m.—Ayarz Dansonians.
A half-hour Dance Session by Melbourne's favorite Dance Band. All the latest popular hits, each one announced prior to its presentation.
2.30 p.m.—Melbourne Concert Orchestra:
"La Source Ballet Suite" (Leo Delibes).
Selection: "Stop Flirting" (Gershwin).
2.52 p.m.—Miss Jessie Shmith, contralto:
"O, Love, from Thy Power" (Saint-Saens).
"Blackbird Song" (Cyril Scott).
3 p.m.—Melbourne Concert Orchestra:
"Schumann Songs" (Ar. Chas. Roberts).
3.18 p.m.—Mr. Herbert Pettifer, violin:
"Melodia" (Respighi).
3.22 p.m.—Miss Jessie Shmith, contralto:
"The Winds are Calling" (Landon Ronald).
"Waters of Minnetonka" (Lieurance).
3.30 p.m.—Interval announcements.
3.35 p.m.—"Madamoiselle Jeunesse." Interval talk on "Timely Topics of Interest to our Lady Listeners."
3.45 p.m.—Ayarz Dansonians.
4 p.m.—G.P.O. Clock says "Four."
4.1 p.m.—Second weather forecast.
4.3 p.m.—Mr. C. Richard Chugg, flute:
"Pastorale and Douree" (Sir Ed. German).
4.7 p.m.—Mr. Robert Allen, alto:
"Friend o' Mine" (Sanderson).
"Brian of Glenaar" (Graham).
4.15 p.m.—Melbourne Concert Orchestra:
Selection: "Gipsy Love" (Lehar).
"Consolation" (Haydn Wood).
4.30 p.m.—Mr. Robert Allen, alto:
"Lifeless and Grey, the Sea Lies" (Lohr).
"Little Brown Cottage" (Dickson).
4.37 p.m.—Ayarz Dansonians.
4.55 p.m.—Announcements. To-night's entertainment.
5 p.m.—G.P.O. Clock says "Five."
God Save the King.

CHILDREN'S SESSION.

6.30 p.m.—Uncle Mac's Entertainment.

EVENING SESSION.
ORCHESTRAL CONCERT.

7.20 p.m.—Dr. Floyd, Organist and Choirmaster at St. Paul's Cathedral, Melbourne, will talk on "The Art of Listening."
7.30 p.m.—A broadminded and up-to-date short talk by "Friar Tuck": "Love."
7.35 p.m.—Sport Session. "Harlequin" presents his budget of up-to-date news and comments on Sport of the day.
7.50 p.m.—Macnamara's Stock report.
8 p.m.—G.P.O. Clock says "Eight."
8.1 p.m.—Melbourne Concert Orchestra:
Overture: "Hunyady Lazzlo" (Erkel Ferencz).
8.12 p.m.—Miss Freda Treweek, mezzo-soprano:
"Hindoo Song" (Bemberg).
"My Ships" (Barratt).
8.20 p.m.—Ayarz Dansonians.
8.36 p.m.—Miss Ethel Brearley, piano:
"Two Arabesques" (Debussy).
8.40 p.m.—Miss Freda Treweek, mezzo-soprano:
"O, Lovely Rose" (MacDowell).
"Two Brown Eyes" (Ed. Greig).
8.48 p.m.—Mr. C. A. Jamieson, of China Inland Mission, Kanchow, Kiangsi Province, will speak on "Under Bolshevik Regime."
9 p.m.—Melbourne Concert Orchestra:
"Musical Gems of Tschaikowsky" (Ar. Langey).
"Canzona del Violino" (Schebek).
9.16 p.m.—Mr. Ronald Brearley, 'cello:
"Ballade" (Weisenborn).
9.20 p.m.—Ayarz Dansonians.
9.30 p.m.—"Harlequin." Sport results.
9.38 p.m.—Melbourne Concert Orchestra:
"Savoy Medley of Medleys" (Somers).
"Yashmak Land" (Thurban).
9.50 p.m.—Announcements.
10 p.m.—G.P.O. Clock says "Ten."
10.1 p.m.—Semi-final weather forecast, specially for our Country Listeners.
10.3 p.m.—Mr. James Scott, bass:
"Simon bthe Cellarer" (Hattan).
"Passing By" (Purcell).
10.11 p.m.—Melbourne Concert Orchestra:
"Songs from the Old Folks" (Ar. Lake).
10.27 p.m.—Mr. James Scott, bass:
"The Lute Player" (Allitsen).
"Rip Van Winkle" (Carroll).
10.34 p.m.—Ayarz Dansonians.
10.45 p.m.—"Harlequin." Sport results.
10.52 p.m.—"Age" News Bulletin, exclusive to 3AR.
10.58 p.m.—Final weather forecast.
10.59 p.m.—Our Australian Good-night quote is from the poem, "De Te," by Adam Lindsay Gordon.
11 p.m.—G.P.O. Clock says "Eleven."
God Save the King.

4QG, BRISBANE

TUESDAY, 10th APRIL, 1928.

MORNING SESSION.
10.30 a.m. to 11.30 a.m.

MIDDAY SESSION.

1 p.m.—Market reports; weather information supplied by the Commonwealth Weather Bureau; news services supplied by "The Daily Mail" and "The Daily Standard."
1.20 p.m.—Lunch hour music.
1.58 p.m.—Standard time signal.
2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Mail train running times.
3.31 p.m.—A programme of music from the studio.
4.15 p.m.—"The Telegraph News."
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—Mail train running times. Daily Standard news, Weather Information announcements.
6.10 p.m.—Dinner music.
6.30 p.m.—The children's session.
7 p.m.—Special news service; market reports; stock reports.
7.30 p.m.—Weather news, announcements.
7.43 p.m.—Standard time signals.
7.45 p.m.—Lecturette: "The Progress of Agriculture in Queensland"—No. 1 of a series by Mr. J. F. F. Reid (Editor, "Queensland Agricultural Journal").

NIGHT SESSION.

A full programme by the Studio Opheans (conducutor, Mr. Tom Muller).
8 p.m.—FROM THE STUDIO:
"Opening Chorus" (J. Sachau).
The Studio Opheans.
Baritone Solo:
"The Viking Bold" (F. Mullen).
Mr. Fred Crane.
Tenor Solo:
"The Toilers" (Piccolomini).
Mr. Geo. Williamson.
Octette:
"Down in the Depths" (K. Linders).
The Studio Opheans.
Bass Solo:
"When the Ebb Tide Flows" (Bingham).
Mr. J. P. Cornwell.
Tenor Solo:
"Bianca" (T. Mattie).
Mr. E. W. Muller.
A thought for To-night:
"Life's Sermons" Will. H. Lister.
Duet:
"Friendship" (Glover).
Messrs. H. Gilroy and F. Crane.
Octette:
"Laughing" (Franz Abt).
The Studio Opheans.
Musical Monologue:
"The Chimney Seat" (Williams).
Mr. Tom Muller.
Tenor Solo:
"The Blind Ploughman" (Clarke).
Mr. Ray Bruce.
Octette:
"My Distant Love" (Schubert).
The Studio Opheans.
Baritone Solo:
"Merry Monk" (Bevan).
Mr. Tom Muller.
9 p.m.—Metropolitan Weather forecast.
9.1 p.m.—Tenor Solo:
"She is Far From the Land" (Lambert).
Mr. H. Gilroy.
Octette:
"A Family Matter" (Kratz).
The Studio Opheans.
Duet:
"Two Friends" (Ball).
Messrs. Geo. Williamson and J. P. Cornwell.
Octette:
"All Through the Night" (Graves).
The Studio Opheans.
Baritone Solo:
"The Vagabond Song" (Cundell).
Mr. E. Harper.
Baritone Solo:
"The Pagan" (Lohr).
Mr. Fred Crane.
Tenor Solo:
"The Song of Sleep" (Somerset).
Mr. Geo. Williamson.
Octette:
"Dreaming Lake" (Schumann).
The Studio Opheans.
Bass Solo:
"The Vagrant" Mullins).
Mr. J. P. Cornwell.
Musical Monologue:
"Be a Man" (Pether).
Mr. Tom Muller.
Tenor Solo:
"Love is Waiting" (Squire).
Mr. E. W. Muller.
Octette:
"Hymn to Night" (Beethoven).
The Studio Opheans.
Tenor Solo:
"The Castillian's Lament" (Del Riego).
Mr. H. Gilroy.
10 p.m.—"The Daily Mail" news.
Weather news. Close down.

5CL, ADELAIDE

TUESDAY, 10th APRIL, 1928.

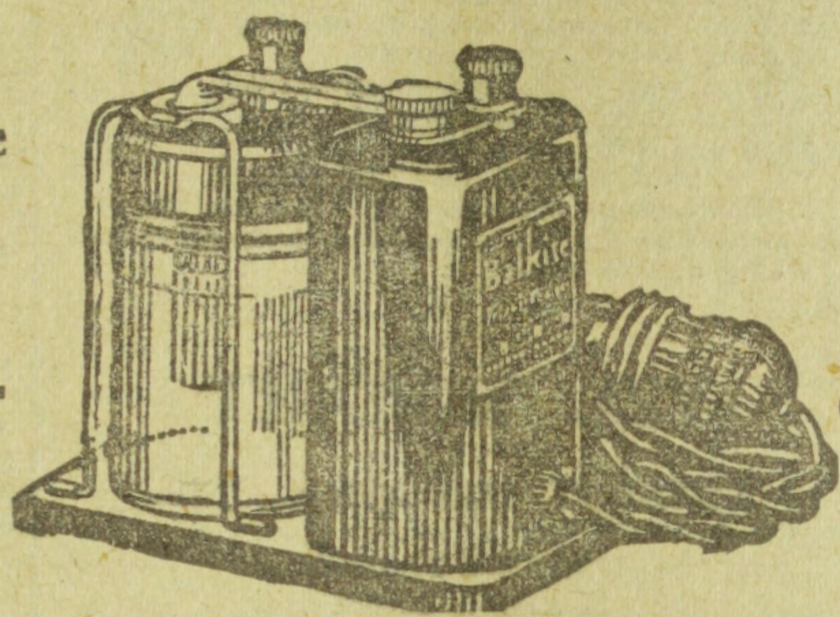
MIDDAY SESSION.

12 noon.—G.P.O. Chimes.
12.1 p.m.—"Advertiser" news service and British Wireless news.
12.30 p.m.—Musical numbers on the studio "Recreator."
12.50 p.m.—S. C. Ward and Co's Stock Exchange Intelligence.

New Shipment just arrived

Standard Throughout the Radio World

NOW ONLY **£3/10/-**



NOW ONLY **£3/10/-**

Trickle Charging began with Balkite

and Balkite still leads in popularity, service and number in use

Trickle charging, now the most convenient and most popular of all means of charging your radio "A" battery, was not possible until the development of the Balkite Trickle Charger. For Balkite was the first charger that could be connected permanently to your "A" battery and the light socket. It was the first charger that kept the battery always fully charged. And Balkite was the first charger that converted your battery into a complete power unit supplying "A" current from the light socket.

To-day there are over 400,000 Balkite Trickle Chargers in use. Just as it was first in making trickle charging possible, Balkite has always been first in popularity and number in use. Balkite is the standard trickle charger, tried and proved by use in the hands of its thousands of owners.

Like all Balkite Radio Power Unit, this charger is a permanent piece of equipment. It has no tubes and nothing to replace or renew. It is noiseless in operation and can usually be used during reception. It is very compact and small, and its current consumption is very low.

The Balkite Trickle Charger can be used as a trickle charger with any 6-volt radio "A" battery. Thus used, it keeps your battery always at full power and in effect converts it into a light socket "A" power supply. With 4-volt batteries, it can be used as an intermittent charger of the usual type. Or as a trickle charger if a resistance is added. Charging rate is approximately ½ ampere.

Add a Balkite Trickle Charger to your "A" battery. Know the convenience of permanent silent "A" power from the light socket always.

Balkite Trickle Charger. Over 400,000 in use. Charging Rate about ½ ampere. As a Trickle Charger automatically keeps your "A" Battery fully charged.

Price £3/10/-

Balkite "B" eliminates "B" Batteries entirely, and supplies silent permanent "B" Current from the light socket. Over 150,000 in use.

MODEL BW for up to 5 valves . £8/19/6

MODEL B 135 for larger sets .. £13/10/-

The right to the use of Tantalum in Rectifiers is the exclusive property of the Fansteel Products Company Inc., under their Australian Patent No. 19988/24.

The Famous Balkite *B* Eliminator

Absolutely in a Class by Itself.

Model BW up to 5 Valves **£8/19/6** **Model B135** for large Sets **£13/10/-**

OBTAINABLE ALL DEALERS

(Wholesale Only) O. H. O'BRIEN (Sydney), 39 Pitt St., Sydney; 654-664 Bourke St., Melbourne.
W. E. PETERMAN, 160 Edward St., Brisbane.

12.57 p.m.—Meteorological information.
1 p.m.—G.P.O. Chimes.
1.1 p.m.—Musical numbers on the studio "Recreator."
1.57 p.m.—Meteorological information.
2 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. chimes.
3.1 p.m.—Musical numbers on the studio "Recreator."
3.45 p.m.—Talk by Rev. G. E. Hale, B.A.
4 p.m.—G.P.O. Chimes.
4.1 p.m.—Musical numbers on the Studio "Recreator."
4.57 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
5 p.m.—G.P.O. chimes and close down.

EVENING SESSION.

6 p.m.—G.P.O. chimes.
6.1 p.m.—Children's entertainment by the 5CL Radio Family.
6.30 p.m.—Dinner Music on the Studio "Recreator."
6.50 p.m.—General Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union, Taylor Bros., Retail Grocers Association, Interstate Fruit and Produce Market Co. Ltd.
7 p.m.—G.P.O Chimes.
7.1 p.m.—Stock Exchange Intelligence by S. C. Ward and Co.
7.8 p.m.—Scripture Reading.
7.15 p.m.—Extracts from "News Bulletin."
7.30 p.m.—Gardening talk by Lasscocks Nurseries.
7.40 p.m.—Entertainment for the 5CL Girl's Club.
7.30 p.m.—Gardening talk by Lasscocks Nurseries, Lockleys.
7.40 p.m.—Entertainment for the 5CL Girls Club.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Instrumental Concert from 5CL's band Studio, by the S.A. Railways Band, interspersed with vocal numbers by Elsie Wolley, mezzo, and Ugo Mina, baritone.
9 p.m.—G.P.O. Chimes.
9.1 p.m.—Metorological information.
9.2 p.m.—British Wireless news.
9.8 p.m.—Dalgety's Wheat report.
9.9 p.m.—Instrumental and vocal concert continued.
10 p.m.—G.P.O. Chimes.
10.1 p.m.—"Advertiser" news service.
10.10 p.m.—"Windbag's" Sporting Service.
10.17 p.m.—Relay from the Maison de Danse, Glenelg—Dance Selections.
10.55 p.m.—Wednesday's programme and meteorological information.
11 p.m.—G.P.O. chimes and National Anthem.

6WF, PERTH.

TUESDAY, 10th APRIL, 1928.

MIDDAY SESSION.

12.30 p.m.—Tune in.
12.35 p.m.—Markets, News, and cables.
1 p.m.—Time signal.
1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Studio Instrumental Trio.
1.30 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
3.35 p.m.—Organ music relayed from the Grand Theatre, Murray Street.
Vocal and instrumental interludes from the studio.
4.30 p.m.—Close down.

EVENING SESSION.

6.45 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
6.50 p.m.—Stories for the Kiddies by Uncles Henry, Bertie and Duffy.
7.20 p.m.—Stocks, Markets, News.
7.45 p.m.—Talk by Dr. J. S. Battye, B.A., LL.B.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements such as alterations to programmes, etc.
8.3 p.m.—Nautical Night.
Items by 6WF's Station Orchestra, conducted by Mr. Ronald E. Moyle, A.T.C.L.
Vocal assisting artist.
10 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.
Ships within Range announcement.
Weather report and forecast.
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of programme given on 1250 metres, commencing at 6.45 p.m.

7ZL, HOBART

TUESDAY, 10th APRIL, 1928.

MORNING SESSION.
11 a.m. to 12 noon.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes the hour.
3.1 p.m.—Musical selection.
3.5 p.m.—Hobart Stock Exchange quotations.
Weather information.
Items of interest.
3.15 p.m.—Selections by 7ZL Studio Trio:
"Le Jeu Charment" (Simon).
"Arlequin et Columbino" (Lambelet).
Violin Solo. Selected. Mr. E. J. McCann.
"Meadowland" (Bendix).
"Selections from San Toy" (Jones).
"Kissing Seranade" (Micholi).
"I love Thee" (Grieg).
"La Gondola" (Honselt).
4.15 p.m.—Educational Talk.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Cousin Mac talks to the children.
7 p.m.—Uncle Hector talks to the children.

NIGHT SESSION.

7.30 p.m.—Musical selection.
7.35 p.m.—Literary Lapses and Library Lists by Mr. W. E. Fuller.
7.50 p.m.—Mercury special Tasmanian news service.
Railway auction produce sales.
Weather forecasts.
Hobart Stock Exchange quotations.
8 p.m.—G.P.O. Clock chimes the hour.
8.1 p.m.—Broadcast by direct wire from Strand Theatre, Hobart. Selections by Strand Orchestra. Conductor Mr. Ben Corrick.
9.50 p.m.—British Official Wireless news.
Mercury special Interstate news service.
Ships within wireless range.
Tasmanian District Weather reports.
9 p.m. Weather forecasts.
Weather reports from Australian Capital cities.
Station announcements.
Wednesday's programme.
10 p.m.—Close down.

Wednes., April 11

2FC, SYDNEY

EARLY MORNING SESSION.
7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—From the King's Hall, Sydney, on the occasion of the first Annual Conference of the Music Teachers of N.S.W.
Violin Musical Lecturette.
Lecturer, Gerald Walenn.
11 a.m.—From the Studio:
"Big Ben." Studio music.
11.5 a.m.—A.P.A. and Reuter's Cable Service.
11.15 a.m.—A talk on Home Cooking and Recipes by Miss Ruth Furst.

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning Herald" news service.
12.15 p.m.—Rugby Wireless News.
12.20 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.20 p.m.—Studio music.
1.28 p.m.—Stock Exchange, second call.
1.30 p.m.—Betty Armstrong, soprano.
1.34 p.m.—Studio music.
1.55 p.m.—Betty Armstrong, soprano.
2 p.m.—"Big Ben."
NOTE: A full description of the Racing events at Randwick on the occasion of the Easter Meeting will be given by the 2FC Racing Commissioner.
3 p.m.—From the King's Hall:
Violin Musical Lecturette.
Lecturer, Gerald Walenn.
3.30 p.m.—Further Events of the Easter Meeting at Randwick.
During racing intervals, the following musical items will be given from the Studio:
"If I might come to you" (Squire).
"Sunflakes" (Montague and Phillips).
Ruby Browne, mezzo soprano.
Fosse Brakell, contralto.
Angela Glancy, soprano.
4.45 p.m.—From the Studio:
Stock Exchange, third call.
4.47 p.m.—Sporting resume, and Studio music.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The Chimes of 2FC.
5.45 p.m.—The "Hello Man" speaks to the children.
6.15 p.m.—Story time for the young folk.
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news.
7.10 p.m.—Dalgety's Market Reports (wool, wheat and stock).
7.18 p.m.—Fruit and vegetable markets.
7.22 p.m.—Weather and shipping news.
7.26 p.m.—"Evening News" late news service.

NIGHT SESSION.

7.40 p.m.—Programme announcements.
7.45 p.m.—Studio music.
7.50 p.m.—Mr. Stewart will give the first of a series of talks on behalf of The Workers' Educational Association. Subject, "Adult Education."
8.5 p.m.—From the Conservatorium Hall, Sydney: A programme by the Royal Sydney Apollo Club. Conductor, Arnold Mote:
Part song, "My Lovely Fishermaiden" (Aritzko).
Apollo Club.
8.13 p.m.—Tenor solo, "O Souverain! O Juge! O Pere!" (from "le Cid" (Massenet).
8.22 p.m.—Part songs:
(a) "Serenade" (de Koven).
(b) "Indian Love Song. Op. 55" (Zollner).
Apollo Club.
8.40 p.m.—'Cello solo, "Adagio" (Bargiel).
Mr. Bryce Carter.
8.48 p.m.—Soprano solo:
"Elizabeth's Greeting" (from "Tannhauser") (Wagner).
Miss May Crayen.
8.55 p.m.—Cantata:
"The Viking's Last Voyage" (Chadwick).
Mr. Emil Sussmilch (Member, R.S.A.C.) and Apollo Club.
Interval.

9.5 p.m.—During the interval at the Convatorium—from the Studio:
Late weather forecast.
H. J. Fay, a talk on sport:
"Endurance Feats at Olympia."

9.17 p.m.—From the Conservatorium Hall, Sydney: The second half of the programme by the Royal Sydney Apollo Club. Conductor, Arnold Mote:
Scene I. (Act 3):
"By Yonder Shrine" ("Tannhauser") (Wagner).
Elizabeth Wolfram and the Elder Pilgrims.
(Miss May Craven) (Mr. S. G. Tapscott)
Apollo Club. Members, R.S.A.C.

9.22 p.m.—Tenor solo:
(a) "Piggesnie" (Peter Warlock).
(b) "Yesterday and To-day" (Spross).
Mr. Ernest McKinlay.

9.32 p.m.—Part songs:
(a) "The Soldier's Farewell" (Kinkel).
(b) "Chinese March" (Ootto).
Apollo Club.

9.40 p.m.—'Cello solo:
(a) "Minnelied" (Grunfeld).
(b) "Minuette" (Becker).
Mr. Bryce Carter.

9.50 p.m.—Soprano solo:
(a) "Spirit Flower" (Tipton).
(b) "Secrecy" (Wolf).
Miss May Craven.

10 p.m.—Part song:
"Greek War Song" (J. C. Bridge).
Apollo Club.
Accompanists:
For solo items, Vern Barnett.
For club items, C. H. Davis.

10.10 p.m.—From the Studio:
Charles O'Mara, entertainer:
(a) "The Donovan's Story" (arr. Needham).
(b) "The Rale McCoy" (O'Mara).

10.18 p.m.—Dance items.

10.26 p.m.—Late weather forecast.

10.27 p.m.—Charles O'Mara, entertainer:
(a) "The Darling Girl from Clare" (Collinson).
(b) "Gilligan's Moving Day" (Stanford).

10.34 p.m.—Len Maurice, popular baritone.

10.40 p.m.—Dance items.

10.50 p.m.—Len Maurice, popular baritone.

10.57 p.m.—To-morrow's programme and late news.

11 p.m.—"Big Ben."
National Anthem.
Close down.

2BL, SYDNEY.

WEDNESDAY, 11th APRIL, 1928

EARLY MORNING SESSION.

8 a.m. to 9 a.m.

MORNING SESSION.

11 a.m.—G.P.O. Clock and Chimes.
Talk on "Camping," by Miss Gwen Varley, Broadcasters' Women's Sports Authority.
Social Notes: Replies to correspondents.
Welfare talk by Mrs. Jordan.
During the day descriptions of Ring Events from the Royal Agricultural Show will be broadcast.

AFTERNOON SESSION.

Racing information, broadcast immediately after each Race, by courtesy of the "Sun."
12 noon—G.P.O. Clock and Chimes.
Special Ocean Forecast and Weather Report.

Exide
WIRELESS BATTERIES

STANDARD EQUIPPED IN ALL THE MARCONI'S SYSTEMS THROUGHOUT THE WORLD.

Made by the oldest and largest Battery Makers in the World.
The Chloride Electrical Storage Co. Ltd., England.

Exide "A" BATTERIES IN 2 VOLT UNITS.

Type.	Capacity.	Price each Cell fully charged. £	s.	d.
C.Z.2.	40 amp. Hours intermittent	1	1	0
C.Z.3.	60 amp. Hours intermittent	1	5	0
C.Z.4.	80 amp. Hours intermittent	1	9	6
C.Z.5.	100 amp. Hours intermittent	1	14	0
C.Z.6.	120 amp. Hours intermittent	1	19	0

Exide "A" BATTERIES IN 2 VOLT UNITS.
Suitable for Dull Emitter Valves.

Type.	Capacity.	Price each Cell fully charged. £	s.	d.
D.T.G.	20 amp. Hours intermittent	0	8	6
D.F.G.	45 amp. Hours intermittent	0	16	0
D.H.G.	100 amp. Hours	1	10	0

Exide "B" BATTERIES.

Type.	Capacity.	Price for bat. fully charged. £	s.	d.
W.J.	20 volts, 2,500 milliamp. Hours	1	3	0
W.H.	24 volts, 5,000 milliamp. Hours	2	4	0

All Batteries when discharged can be recharged.

If these cells are not fully discharged and left idle, they will stand six months without sulphating.

N.S.W. Distributors and Exide Service Station:

GIBSON BATTLE & CO., LTD.

Tel.: M 2771 (3 lines) HUNT STREET, SYDNEY. (Off Wentworth Avenue) Tel.: M 2771 (3 lines).

12.3 p.m.—Musical programme from the Studio.

12.8 p.m.—Information, Mails, Shipping, and Port Directory.

12.11 p.m.—Boats in call by wireless.

12.13 p.m.—Fruit Market Report.

12.15 p.m.—Vegetable Market Report.

12.17 p.m.—London Metal Market Report.

12.19 p.m.—Dairy Farm and Produce Market Report.

12.22 p.m.—Forage Market Report.

12.24 p.m.—Fish Market Report.

12.26 p.m.—Rabbit Market Report.

12.28 p.m.—Stock Exchange Report.

12.30 p.m.—H.M.V. Gramophone Recital.

1.27 p.m.—Stock Exchange Report.

1.30 p.m.—G.P.O. Clock and Chimes:
Talk to Children and Special Entertainment for Children in Hospital.

2 p.m.—G.P.O. Clock and Chimes.
Racing resume.

2.5 p.m.—Musical programme from the Studio.

2.20 p.m.—News from the "Sun."

2.30 p.m.—Musical programme from Studio.

2.45 p.m.—Talk on "Celtic Mythology."

3 p.m.—G.P.O. Clock and Chimes.
Racing resume.

3.5 p.m.—News from the "Sun."

3.10 p.m.—Pianoforte Recital from Studio.

3.20 p.m.—News from the "Sun."

3.30 p.m.—Musical programme from Studio.

3.40 p.m.—Dungowan Dance Band, broadcast from Dungowan Cabaret.

4 p.m.—G.P.O. Clock and Chimes.
Racing resume.

4.5 p.m.—Musical programme from the Studio.

4.15 p.m.—Talk on "The Women of Ancient Rome."

4.30 p.m.—Dungowan Dance Band.

4.50 p.m.—Features of evening's programme.

4.52 p.m.—Racing resume.

5 p.m.—G.P.O. Clock and Chimes.
Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and Chimes.
Children's Session.

SPECIAL COUNTRY SESSION.

6.30 p.m.—G.P.O. Clock and Chimes.
Australian Mercantile, Land and Finance Co.'s Report.
Weather Report and Forecast, by courtesy of Government Meteorologist.
Producers' Distributing Society's Fruit and Vegetable Market Report.
Stock Exchange Report.
Grain and Fodder Report ("Sun").
Dairy Produce Report ("Sun").
N.R.M.A. Report.

6.45 p.m.—Country News from the "Sun."

7 p.m.—G.P.O. Clock and Chimes.
Gulbransen Dinner Music.

7.30 p.m.—Talk on "Astrology," by Miss J. Charlton Smith.

NIGHT SESSION.

8 p.m.—G.P.O. Clock and Chimes.

8.1 p.m.—Miss Beryl Scott (Songs at the Piano).

8.8 p.m.—Broadcasters' All-Sports Expert will talk on General Sporting.

8.23 p.m.—The Canterbury District Band, broadcast from Baker's Hall, Campsie.

8.43 p.m.—Miss Beryl Scott.

8.50 p.m.—The Canterbury District Band.

9 p.m.—G.P.O. Clock and Chimes.
Weather Report and Forecast, by courtesy of Mr. C. J. Mares, Government Meteorologist.
Resume of Following Day's Programme.

9.5 p.m.—Radford's Radio Players in a Comedy in Three Acts.

10.25 p.m.—Romano's Restaurant Dance Orchestra, under the direction of Mr. Merv. Lyons. During intervals between dances "Sun" news will be broadcast.

11.30 p.m.—G.P.O. Clock and Chimes.
National Anthem.

2UW, SYDNEY

WEDNESDAY, 11th APRIL, 1928

7 p.m.—Studio items.

7.10 p.m.—Where to Go Session.

7.14 p.m.—Dinner music.

7.45 p.m.—Miss Doris Fitzmaurice, elocutionist: Selected.

7.52 p.m.—Musical items.

8 p.m.—News items, mails and shipping intelligence.

8.15 p.m.—Miss Tyaman, pianoforte solo: Selected.

8.22 p.m.—Studio item.

8.26 p.m.—Miss Doris Fitzmaurice, elocutionist: Selected.

8.32 p.m.—Studio item.

8.36 p.m.—Miss Tyaman, pianoforte solo: Selected.

8.42 p.m.—Studio item.

8.46 p.m.—Weather forecast.

8.48 p.m.—Instrumental items.

9 p.m.—Dance music.

9.20 p.m.—Request numbers.

9.30 p.m.—Dance music, by courtesy of Morley Johnson, Ltd.

9.55 p.m.—Announcements.

10 p.m.—Close down.

3LO, MELBOURNE

WEDNESDAY, 11th APRIL, 1928

EARLY MORNING SESSION.

"HERALD" BREAKFAST HOUR.

7.15 a.m. to 8.15 a.m.

MORNING SESSION.

11 a.m.—3LO's CULINARY COUNSELS, or how to create creature comforts with a minimum of cash.

WALNUT SPONGE.

1½ cups flour.
1 cup sugar.
2 tablespoons butter.
2 eggs.
1 teaspoon cream of tartar.
½ teaspoon carbonate of soda.
1 teaspoon ground ginger.
½ teaspoon spice.
1 teaspoon cinnamon.
1½ gills milk.
2 ozs. walnuts.

METHOD: Cream butter and sugar, add eggs separately, milk, sifted flour, soda and cream of tartar, blend well, add chopped walnuts. Bake in two buttered sandwich tins for 20 minutes. When cold fill between with whipped cream and chopped walnuts. Pour chocolate icing over and decorate with ½ walnuts.

11.2 a.m.—THE SHRINE OF REMEMBRANCE:
"The movement for the erection of a Shrine of Remembrance to our soldiers is one that should awaken thoughts of those dark days through which we passed when we had our backs to the wall in a grim struggle for the safety and security of the Empire and for the maintenance of civilization."
—The Lord Mayor of Melbourne—
Sir Stephen Morell.

11.5 a.m.—S. SHELDON: Household Laundry Problems:
"Electric washing machines; what to consider about them, and how to get the best out of them."

11.20 a.m.—Musical interlude.

11.25 a.m.—MRS. M. CALLAWAY MAHOOD: DIFFICULTIES IN DECORATION: JAGS AND JIGSAWS:
"Have you a little extinguisher on your roof? Even the extinguisher turret and the jigsawed gable are direct descendants of legitimate structural features. Even the tin chimney and the corrugated iron tank may have structural dignity as well as a definite use. But there are many details of suburban architecture that cannot claim beauty, use or architectural meaning. This talk will discuss character and adaptability in modern house building.

11.40 a.m.—Musical interlude.

MIDDAY NEWS SERVICE.

12 noon.—Melbourne Observatory Time Signal.

12.1 p.m.—Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. British official wireless news from Rugby. Reuter's and the Australian Press Association cables. "Argus" news service. Description of PENNANT CRICKET: Finals.

12.20 p.m.—BERTHA JORGENSEN'S QUARTET:
"Music Pictures" (Foulds).

12.30 p.m.—EILEEN CASTLES, soprano:
"Ballatella" (Pagliacci) (Leoncavallo).
"O that we two were Maying" (Nevin).

12.37 p.m.—Stock Exchange information.

12.40 p.m.—HEIGA BRENNICKE, 'cello.

12.47 p.m.—FRANK AND FRANCIS LUIZ:
Duet, "Akahi Gi."
Song, "A Song to Hawaii."
Steel guitar, "Hawaiian Hotel."
Duet, "My Sweet Hawaiian Hula Girl."

1 p.m.—Melbourne Observatory Time Signal.

1.1 p.m.—BERTHA JORGENSEN'S QUARTET:
"Tristessa" (Braford).
"Masaryk" (Solter).

1.8 p.m.—Meteorological information. Weather forecast and rainfall for Victoria, Tasmania, South Australia and New South Wales. River reports. Ocean forecasts. Stock Exchange information.

FOUNDATIONS OF MUSIC.

1.15 p.m.—BERTHA JORGENSEN, violin. Today Miss Jorgensen has chosen selections from the Works of Wieniawski:
"Obertase" (Wieniawski).
"Chansen Polonaise" (Wieniawski).

.25 p.m.—EILEEN CASTLES, soprano:
"Micaela's Song"—"Carmen" (Bizet).
"Elegie" (Massenet).

1.30 p.m.—Speeches from the Rotary Club luncheon, transmitted from the Town Hall, Melbourne.

2 p.m.—Description of All Aged Stakes, 1 mile, A.J.C. Races, Randwick, transmitted from Randwick Racecourse, Sydney.

2.6 p.m.—Result of Hurdle Race, 2 miles, Victorian Club Races at Moonee Valley, by "Aintree."
2.7 p.m.—Close down.
During the afternoon results of the Stawell Amateur Turf Club Races will be given as they come to hand.

AFTERNOON SESSION.

2.15 p.m.—THE STATION ORCHESTRA: "Berceuse," from "Jocelyn" (Godard).
2.30 p.m.—Description of 2 Year Old Handicap, MOONEE VALLEY RACES, by "Aintree."
2.35 p.m.—JACK LUMSDAINE (The Radio Rascal), whispering baritone (by permission J. C. Williamson, Ltd):
"There must be a Silver Lining."
"That's My Mammy."
2.42 p.m.—THE STATION ORCHESTRA: Selection from "Whirled into Happiness" (Stalz).
2.53 p.m.—BERYL HAYDEN, soubrette (by permission J. C. Williamson, Ltd.):
"Do Let Me Listen."
3 p.m.—Description of Highweight Handicap, 6 furlongs, MOONEE VALLEY RACES, by "Aintree."
3.5 p.m.—Sporting results.
3.7 p.m.—THE STATION ORCHESTRA:
"The Broken Hearted Sparrow"—A love episode in bird land (Bindix).
"Air de Ballet." No. 11 (Borch).
3.15 p.m.—Description of Champagne Stakes, 6 furlongs, RANDWICK RACES, transmitted from RANDWICK, SYDNEY.
FROM THE STUDIO:
3.21 p.m.—ROY GALLOWAY, baritone (by permission J. C. Williamson, Ltd.): Selected.

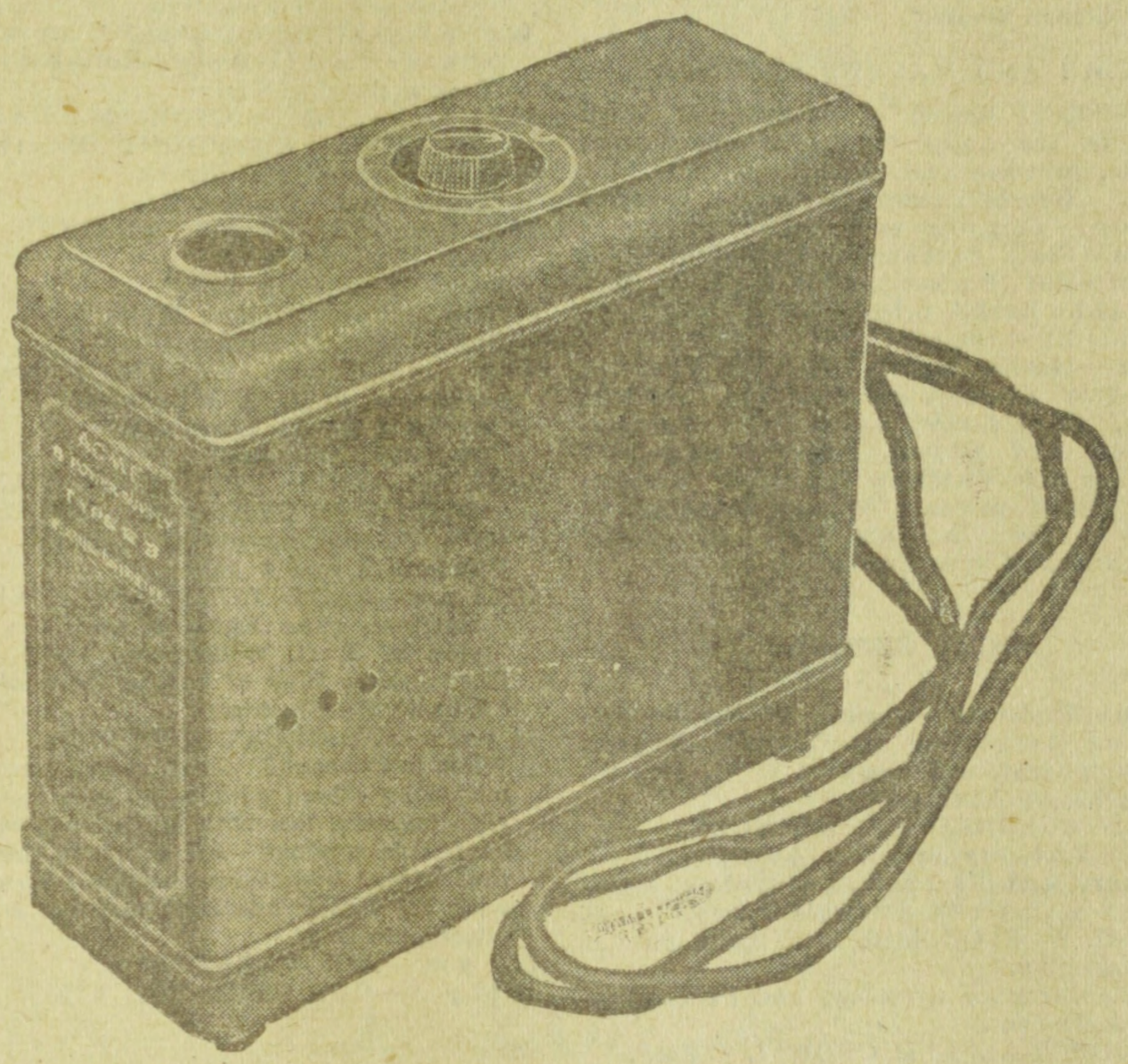
THE COLOURED IDEA.

3.28 p.m.—SUNNY CLAY AND HIS BRUNSWICK RECORDING ORCHESTRA, in the latest Jazz, Foxtrots and One Steps:
"Sometimes I'm Happy."
"Together We Two."
"Dear, On a Night Like This."
Selected.
3.40 p.m.—Description of Victorian Club Handicap, 1¼ miles, MOONEE VALLEY RACES, by "Aintree."
FROM THE STUDIO:
3.45 p.m.—SUNNY CLAY AND HIS BRUNSWICK RECORDING ORCHESTRA, in the latest Jazz, Foxtrots, and One Steps:
"Ain't that a grand and glorious feeling."
"Just like a Butterfly."
"Underneath the Stars with You."
4 p.m.—MILLIE McCORMACK, soprano:
"Serenade" (Bemberg).
"The Nightingale" (Kjerulf).
4.7 p.m.—THE STATION ORCHESTRA:
"Arabian Song" (Max Vogrich).
Tango, "El Amante" (Thomas Allen).
4.14 p.m.—JACK LUMSDAINE (The Radio Rascal), whispering baritone (by permission J. C. Williamson, Ltd.):
"Tenderly."
"Honeymoon Cottage."
4.20 p.m.—Description of Trial Handicap, 1 mile, MOONEE VALLEY RACES, by "Aintree."
4.25 p.m.—THE STATION ORCHESTRA:
"Prelude" (Junefelt).
4.28 p.m.—BERYL HAYDEN, soubrette:
4.34 p.m.—THE STATION ORCHESTRA: Selected.
"Reconciliation"—from the Ballet.
"Les Millions D'Arlequin."
4.38 p.m.—ROY GALLOWAY, baritone: Selected.
4.45 p.m.—Special weather report from Adelaide. Weather report for Mildura District.
4.46 p.m.—THE STATION ORCHESTRA:
"Spanish Dance" (Moszkowski).
4.50 p.m.—Description of April Handicap, 7 furlongs, MOONEE VALLEY RACES, by "Aintree."
4.55 p.m.—MILLIE McCORMACK, soprano:
"We Wandered" (Brahms).
"When Love is Kind" (Moore).

"ACME"

Socket Power

eliminates worry of run-down batteries



Modernize your Receiver!

" ACME " operates any set, with any valves, from your ordinary electric-light socket. Think what this means! No " B " batteries to bother about; up to 180 volts—smooth direct current; no hum, no distortion! Improved tones due to the unlimited reserve power; clearer, deeper and more natural reception. This eliminator will bring you a new appreciation of radio. It is economical too, for the first cost is practically the last. Price, **£10/15/-**

As a rectifier, the famous " RAYTHEON " Valve is employed. This tube, better known in U.S.A., is a synonym for simplicity, rugged construction, long life and general efficiency. It contains no filament, gives full-wave rectification and is easily replaced. Visit the Wireless Department and inspect this amazing accessory.

GROUND FLOOR, NEW BUILDING

FARMER'S

Pitt, Market and George Streets

5.2 p.m.—"Herald" news service. Stock Exchange information. Sporting results.

5.15 p.m.—Close down.

EVENING SESSION.

6 p.m.—Answers to Letters and Birthday Greetings by "MARY, MARY."

6.20 p.m.—CAPTAIN DONALD MacLEAN: "The Spanish Conquests." "How the Dons discovered the Treasures of the World."

6.35 p.m.—Musical interlude.

6.40 p.m.—"MARY, MARY," Grimm's Fairy Tales: "The Four Clever Brothers." "The Golden Goose."

NEWS AND MARKET REPORTS.

7 p.m.—Official Report of Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke-street, Melbourne.

7.5 p.m.—"Herald" news service. Weather synopsis. Shipping movements.

7.12 p.m.—Stock Exchange information.

7.17 p.m.—Fish Market reports by J. R. Borrett, Ltd. Rabbit prices.

7.19 p.m.—River reports.

7.21 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd. Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions. Market reports of Fruit by the Victorian Fruiterers' Association. Retail prices. Wholesale prices of Fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.

NIGHT SESSION.

7.30 p.m.—Under the auspices of the Department of Agriculture, R. CROWE, Exports Superintendent, will speak on "Marketing Methods."

7.45 p.m.—COLONEL E. POTTINGER: Asiatic Problems Affecting Australia. Summary and Conclusions regarding maintenance of White Australia Policy.

8 p.m.—H. C. SLOCOMBE will speak on "Photography."

8.15 p.m.—Birthday Greetings and Programme Announcements.

ORCHESTRAL AND CHORAL ITEMS.

8.16 p.m.—THE VICTORIAN RAILWAYS INSTITUTE SYMPHONY ORCHESTRA: Fantasia, "Melorious Melodies" (Finck).

8.28 p.m.—EILEEN CASTLES, soprano: Bolero: "Merci Dilette—Sicilian Vespers." "Leaves and the Wind" (Lewis).

8.34 p.m.—VICTORIAN RAILWAYS INSTITUE SYMPHONY ORCHESTRA: Overture, "Mirella" (Gounod).

8.41 p.m.—Mr. McGREGOR WOOD:

8.47 p.m.—BESSIE GAUNSON, violin: "Adagio" (Ries).

8.55 p.m.—THE VICTORIAN RAILWAYS INSTITUTE SYMPHONY ORCHESTRA: Suite de Concert, "L'Arlesienne" (Bizet).

9.2 p.m.—J. GREGOR WOOD, tenor: "In Love" (Lohr). "The Trumpeter" (Dix).

THE COLOURED IDEA.

9.10 p.m.—SUNNY CLAY AND HIS BRUNSWICK RECORDING ORCHESTRA, featuring Jazz Foxtrots and One Steps.

MELODY AND MERRIMENT.

9.45 p.m.—THE VICTORIAN RAILWAYS INSTITUTE SYMPHONY ORCHESTRA: Overture, "Poet and Peasant" (Suppe).

9.53 p.m.—ROY GALLOWAY, baritone (by permission of J. C. Williamson, Ltd.): "Son of Mine" (Wallace). "When You are Lonely" (Crampton).

10 p.m.—BESSIE GAUNSON, violin: "Rondino" (Beethoven). "Gavotte" (Gossie).

INTERLUDE.

10.7 p.m.—"Argus" news service. British Official Wireless news from Rugby. Announcements. Meteorological information. Island shipping information. Sporting Results.

THE SHRINE OF REMEMBRANCE.

"The Shrine of Remembrance" is a fitting and proper symbol of beauty, serenity and illumination reflecting and perpetuating the memories of the deeds and lives of our heroes, and, it is to be hoped, also of ennoblement. I am more than confident that the people of Victoria of all classes and sections will respond most generously to the appeal that is being launched for the additional funds necessary for the completion of the "Shrine of Remembrance."

—Rabbi Brodie, Rabbi of the Melbourne Hebrew Congregation.

10.17 p.m.—EILEEN CASTLES, soprano: "Oxana's Song" (Rimsky-Korsakoff). "Cradle Song" (Nevin).

10.24 p.m.—THE VICTORIAN RAILWAYS INSTITUTE SYMPHONY ORCHESTRA: "Valse Triste" (Sibelius). "Praeludium" (Jarnefelt).

10.30 p.m.—FRANK AND FRANCIS LUIZ: Duet, "Imi au ia oe." Song, "Like no a like." Steel Guitar, "Halona Waltz." Duet, "Ukulele Dream Girl."

10.40 p.m.—BERYL HADYN, soubrette (by permission of J. C. Williamson, Ltd.): "As Long as He Loves Me." "Operatic Burlesque."

10.47 p.m.—THE VICTORIAN RAILWAYS INSTITUTE SYMPHONY ORCHESTRA: Suite, "Ballet Egyptien" (Luigini). Numbers 3 and 4 only.

10.52 p.m.—JACK LUMSDAINE, Whispering Baritone (The Radio Rascal), by permission of J. C. Williamson, Ltd.: "Kentucky's Way of saying Good Morning." "Me and My Shadow."

11 p.m.—OUR GREAT THOUGHT: What is Courage? Meeting the wrongs committed by others with right, meeting trickery with honesty, lies with truth, unfairness with honorable conduct. All honor to the courage that brings men through such an experience with his honor unsullied and his conscience uncompromised.

11.1 p.m.—THE VAGABONDS.

11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

WEDNESDAY, 11th APRIL, 1928

MORNING NEWS SESSION.
11 a.m. to 12 noon.

MIDDAY CONCERT SESSION.
12 noon to 1 p.m.

Transmitted from Panatrope House, 252 Collins Street (by exclusive permission of Wills and Paton, Ltd.), on the Brunswick Panatrope.

MATINEE SESSION.

ORCHESTRAL DANCE CONCERT.

Sport. During the afternoon, results of the Moonee Valley races, together with other information, will be broadcast immediately ter each race is run.

2 p.m.—Ayarz Dansonians. A half-hour Dance Session by Melbourne's favorite Dance Band. The latest popular hits, each one announced prior to its presentation.

2.30 p.m.—Melbourne Concert Orchestra: "Romantic Suite" (Cecil Stanley).

2.41 p.m.—Mr. Ronald Brearley, 'cello, and Mr. Richard Chugg, flute: Duet: "Serenade" (A. E. Titl).

2.45 p.m.—Miss Julia Russell, soprano: "Depuis le Jour" (Charpentier). "Irish Folk Song" (Foote).

2.53 p.m.—Melbourne Concert Orchestra: Suite "Andalusia" (Arnulfo Miramontes). "Arabian Dance" (Crist). "Chinese Dance" (Crist).

3.10 p.m.—Miss Julia Russell, soprano: "Chant Inde" (Rimskey-Korsakov). "I Will Await Thee" (Clarke).

3.18 p.m.—Ayarz Dansonians.

3.30 p.m.—Interval announcements.

3.35 p.m.—Talk by Dr. George Payne Philpots, President of the Food Education Society of Victoria, and Editor of the National Magazine of Health.

3.45 p.m.—Melbourne Concert Orchestra: "On Jhelum River" (Amy Woodforde-Finden).

4 p.m.—G.P.O. Clock says "Four."

4.1 p.m.—Second weather forecast.

4.3 p.m.—Mr. Bernard Thomas, tenor: "Evening Song" (Blumenthal). "Believe Me, if All" (Moore).

4.11 p.m.—Ayarz Dansonians.

4.27 p.m.—Mr. Bernard Thomas, tenor. "Beneath Thy Window" (Di Capua). "Keep on Hopin'" (Maxwell).

4.35 p.m.—Mr. Ernie Pettifer, clarinet: "Regrets de Amour" (Bright).

4.39 p.m.—Melbourne Concert Orchestra: "Three Famous Pictures" (Haydn Wood). "Serenade" (Drdla).

4.55 p.m.—Announcements. To-night's entertainment.

5 p.m.—G.P.O. Clock says "Five." God Save the King.

CHILDREN'S SESSION.

6.30 p.m.—3AR's Cousin Peter.

EVENING SESSION.

"CONCERT HALL AND BALLROOM."

7.15 p.m.—Our Boy Scouts. Commissioner W. D. Kennedy, Deputy Camp Chief of Victoria, will give his interesting weekly notes and news on the Scout movement.

7.35 p.m.—Sport Session. "Harlequin" presents his budget of up-to-date news and comments on Sport of the day.

7.50 p.m.—Macnamara's Stock reports.

8 p.m.—G.P.O. Clock says "Eight."

8.1 p.m.—Melbourne Concert Orchestra: Overture: "Zampa" (Herold).

8.9 p.m.—Miss Ann Middleton, soprano: "On Wings of Song I Take Thee" (Mendelssohn). "Four by the Clock" (Mallinson).

8.17 p.m.—Ayarz Dansonians.

8.33 p.m.—Mr. C. Richard Chugg, flute: "Romance" (St. Saens).

8.37 p.m.—Miss Ann Middleton, soprano: "Villanelle" (Del 'Acqua). "The Robin's Song" (White).

8.45 p.m.—Melbourne Concert Orchestra: Suite: "The Fragrant Year" (Montague Ewing). "Prayer and Temple Dance" (Ed. Grieg).

9 p.m.—Mr. C. A. Jamieson, of China Inland Mission, Kanchow, Kiangsi Province, will speak on "Assaults on the Church by the Soldiers."

9.12 p.m.—Ayarz Dansonians.

9.30 p.m.—Mr. Les. Williams, humorous entertainer: "The Quack Doctor" (Hylton). "Jokes" (Manuscript).

9.38 p.m.—Melbourne Concert Orchestra: Selection: "On With the Dance" (Brahms).

9.47 p.m.—Mr. Herbert Pettifer, violin: "Indian Lament" (Dvorak-Kreisler).

9.50 p.m.—Interval announcements.

10 p.m.—G.P.O. Clock says "Ten."

10.1 p.m.—Semi-final weather forecast, specially for our Country Listeners.

10.3 p.m.—Melbourne Concert Orchestra: Selection: "Primrose" (Gershwin). "A Hillside Melody" (Montague Phillips).

10.18 p.m.—Mr. Les. Williams, humorous entertainer: "First I Went and Won the D.C.M." (Whaite). "I've Often Heard that Tale Before" (Taylor).

10.26 p.m.—Ayarz Dansonians.

10.35 p.m.—Melbourne Concert Orchestra: Suite: "The Village Green" (April).

10.45 p.m.—"Harlequin." Sport results.

10.52 p.m.—"Age" News Service, exclusive to 3AR.
10.58 p.m.—Final weather forecast.
10.59 p.m.—Our Australian Good-night quote is taken from the poem, "Adelaide Ironside," by Brunton Stephens.
11 p.m.—G.P.O. Clock says "Eleven."
God Save the King.

4QG, BRISBANE.

WEDNESDAY, 11th APRIL, 1928

MORNING SESSION.
10.30 a.m. to 11.30 a.m.

MIDDAY SESSION.

1 p.m.—Market reports; weather information supplied by the Commonwealth Weather Bureau; news services supplide by "The Daily Mail" and "The Daily Standard."
1.30 p.m.—FROM THE POSTAL INSTITUTE: Lunch hour music.
1.58 p.m.—FROM THE OBSERVATORY: Standard time signal.
2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Mail train running times.
3.31 p.m.—A programme of music from the studio.
4.15 p.m.—FROM THE STUDIO: "The Telegraph News."
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—Mail train running times, Daily Standard news, Weather Information announcements.
6.10 p.m.—Lecturette: A talk to motorists, "Lubrication"—by "Gargoyle."
6.30 p.m.—The children's hour: Stories by "Little Miss Brisbane."
7 p.m.—Special news service; market reports; stock reports.
7.30 p.m.—Weather news; announcements.
7.43 p.m.—Standard time signals.
7.45 p.m.—Lecturette arranged by the Queensland Agricultural High School and College.

NIGHT SESSION.

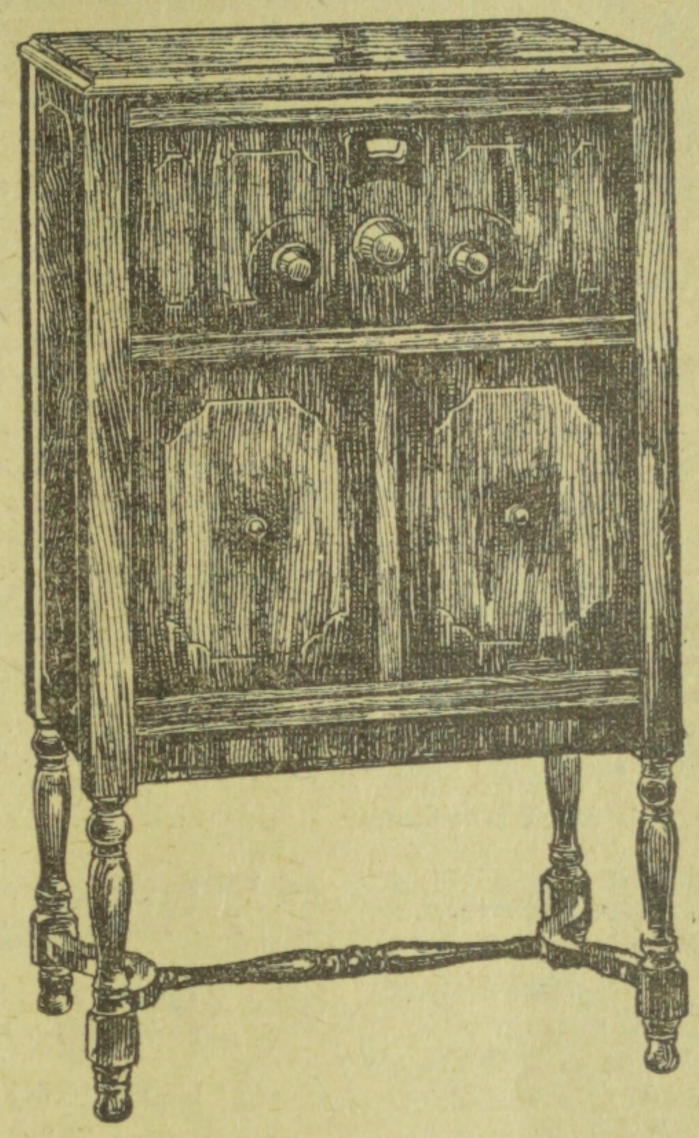
GRAND GALA CABARET DINNER DANCE. Arranged in association with Hotel Carlton and Messrs. H. Fenton (Wintergarden Theatre), Barrington Waters (Empire Theatre), and E. Lane (Tivoli Theatre), on the occasion of the Official opening of the new Carlton Banquet Hall. Proceeds to augment the Queensland Cancer Campaign's funds. To-night's programme will comprise a relay of the above function.
8 p.m.—Cabaret Dinner Dance.
10 p.m.—News service for distant listeners.
10.30 p.m.—Close down.

5CL, ADELAIDE.

WEDNESDAY, 11th APRIL, 1928

MIDDAY SESSION.

12 noon.—G.P.O. chimes.
12.1 p.m.—"Advertiser" news service and British Wireless news.
12.30 p.m.—Musical numbers on the Studio "Recreator."
12.50 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
12.57 p.m.—Meteorological information.
1 p.m.—G.P.O. Chimes.
1.1 p.m.—Musical numbers on the studio "Recreator."
1.57 p.m.—Meteorological information.
2 p.m.—G.P.O. Chimes.



For clarity of reception . . .

The "HIBOY" MODEL

Set **£65** complete

Made by the famous Magnavox engineers, this 1928 "Hiboy" Model Receiving Set is one of their greatest achievements. A Six-valve, one dial control set, callibrated directly in wave lengths so that the Station can be picked up easily. It receives clear and true all Interstate Stations (except Perth.) Very sensitive, very select. Encased in highly polished console cabinet, 38 x 22 x 15 inches. Price, set complete, with battery accommodation .. **£65**

TERMS MAY BE ARRANGED.

Radio Department, Lower Ground Floor, New Store.

DAVID JONES'

Castlereagh, Market & Elizabeth Streets.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Musical numbers on the Studio "Recreator."
3.25 p.m.—Menu talk by "Homelover."
3.45 p.m.—Fashion talk by J. Craven and Co.
4 p.m.—G.P.O. Chimes.
4.1 p.m.—Musical numbers on the studio "Recreator."
4.57 p.m.—S. C. Ward and Co's Stock Exchange Intelligence.
5 p.m.—G.P.O. Chimes. Close down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
6.1 p.m.—Entertainment for children by the 5CL Radio Family.
6.30 p.m.—Dinner Music on the Studio "Recreator."
6.50 p.m.—General Market reports, by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union, Taylor Bros., Retail Grocers Association, Interstate Fruit and Produce Market Co., Ltd.
7 p.m.—G.P.O. Chimes.
7.1 p.m.—S. C. Ward and Co's Stock Exchange Intelligence.
7.8 p.m.—Scripture Reading.
7.15 p.m.—Extracts from News Bulletin.
7.30 p.m.—Boy Scouts Corner.
7.45 p.m.—Topical talk.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Selections, Harmony Trio.
8.10 p.m.—Parts songs, Haydn Male Quartette
8.20 p.m.—Comedy, Hubert Mullins.
8.30 p.m.—Selection, Harmony Trio.
8.40 p.m.—Part songs, Haydn Male Quartette.
8.50 p.m.—Comedy, Hubert Mullins.
9 p.m.—G.P.O. Chimes.
9.1 p.m.—Meteorological information.
9.2 p.m.—British Wireless news.
9.9 p.m.—Dalgety's wheat report.
9.12 p.m.—Vocal recital by Antonio Molinari.
9.30 p.m.—Selections, Harmony Trio.
9.40 p.m.—Comedy, Hubert Mullins.
9.47 p.m.—Selection, Harmony Trio.
10 p.m.—G.P.O. Chimes.
10.1 p.m.—"Advertiser" news service.
10.15 p.m.—Dance selections relayed from the Maison de Danse.
10.55 p.m.—Thursday's programme and meteorological information.
11 p.m.—G.P.O. chimes and National Anthem.

6WF, PERTH.

WEDNESDAY, 11th APRIL, 1928

MIDDAY SESSION.

12.30 p.m.—Tune in.
12.35 p.m.—Markets, news, and cables.
1 p.m.—Time signal.
1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Studio Quintette, conducted by Mr. Val Smith.
March, "The Hurricane" (Paull).
Valse, "Pres de Toi" (Waldteufel).
Overture, "Robespierre" (Litolf).
Descriptive, "Cockney Suite" (Ketelbey).
Selection, "Selection of Gilbert and Sullivan's" arr. Sullivan.
2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
3.35 p.m.—Talk:
"Fashions" by Junette.
3.55 p.m.—Orchestral music played by Hoyts Orchestra, conducted by Mr. Harold Partington, relayed from Hoyts Regent Theatre, William street.
Vocal and instrumental numbers from the studio.
4.30 p.m.—Close down.

EVENING SESSION.

6.45 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
6.50 p.m.—Stories for the Kiddies by Uncles Henry, Bertie and Duffy.
7.20 p.m.—Stocks, Markets, News.
7.45 p.m.—Talk.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements such as alterations to programmes, etc.
8.3 p.m.—Variety Night.
Musical programme from the studio, including vocal and instrumental artists.
Orchestral music played by Harold Partington and his seventeen piece orchestra, relayed from Hoys Regent Theatre.
10 p.m.—Late news items. Ships within range announcement; weather report and forecast.
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 6.45 p.m.

Thurs., April 12

2FC, SYDNEY.

EARLY MORNING SESSION.
7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.10 a.m.—"Sydney Morning Herald" news service.
10.20 a.m.—Last minute Racing information by the 2FC Commissioner.
10.30 a.m.—From the King's Hall, on the occasion of the first Annual Conference of the Music Teachers of N.S.W.:
Musical Pianoforte Lecture.
Lecturer, Lawrence Godfrey Smith.
11 a.m.—"Big Ben."
From the Studio: Studio music.
11.5 a.m.—A.P.A. and Reuter's Cables.
11.10 a.m.—Studio music.
11.15 a.m.—A reading.
11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning Herald" news service.
12.15 p.m.—Rugby wireless news.
12.20 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.20 p.m.—Studio music.
1.28 p.m.—Stock Exchange, second call.
1.30 p.m.—Dorothy Benbow, contralto.
1.34 p.m.—Studio music.
1.52 p.m.—Dorothy Benbow, contralto.
1.55 p.m.—Last minute Racing information by the 2FC Racing Commissioner.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.3 p.m.—From the King's Hall, on the occasion of the First Annual Conference of Music Teachers of N.S.W.:
First Vocal Session.
Lecturers, Mr. Roland Foster and Mr. Frank E. Down.
3.30 p.m.—From the Studio:
Miss Eileen Moreau, soprano.
3.35 p.m.—Cliff Arnold, novelty pianist.
3.45 p.m.—Beryl Solomon, soprano:
3.50 p.m.—A reading.
4 p.m.—"Big Ben."
Miss Gladys Aubin, soprano.
4.5 p.m.—Cliff Arnold, novelty pianist.
4.15 p.m.—Miss Eileen Moreau, soprano.
4.20 p.m.—Popular records.
4.35 p.m.—Miss Beryl Solomon, soprano.
4.40 p.m.—Studio music.
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Gladys Aubin, soprano.
4.50 p.m.—Studio music.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the children.
6.15 p.m.—Story time for the young folk.
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news, told by the 2FC Racing Commissioner.
7.10 p.m.—Dalgety's Market Reports (wool, wheat and stock).
7.18 p.m.—Fruit and vegetable markets.
7.22 p.m.—Weather and shipping news.
7.26 p.m.—"Evening News "late news service.

NIGHT SESSION.

7.45 p.m.—Programme announcements.
7.50 p.m.—Edgar Warwick and Eileen Dawn: Radio sketch.
8 p.m.—From the King's Hall, on the occasion of the First Annual Conference of the Music Teachers of N.S.W. (arranged by the Musical Association of N.S.W.):

CONCERT PROGRAMME.

1. "Trio in B Flat" (Beethoven).
Henry Penn (piano), Lionel Lawson (violin) and Gladstone Bell ('cello).
2. Songs:
"Innisfree" (Pennicuick).
"Blue Eyes" (Wentzel).
"The Flowers of Sleep" ("Poppies") (Roy Agnew) (words by Victor Daley).
Miss Gwen Selva, soprano.
(At the Piano, Miss Margaret Chalmers.)
3. Violin and Piano:
"Sonata" (Cesar Franck).
Cyril Monk (violin) and Henry Penn (Piano).
4. Piano:
"Prelude in D Flat" (Albery).
"Nocturne" (Davis).
Henry Penn.

8.50 p.m.—From the Studio:
During the interval at the King's Hall:
Edgar Warwick and Eileen Dawn:
Radio Sketch.
9 p.m.—"Big Ben."
Late weather forecast.
From the King's Hall:
Continuation of Concert Programme.
5. Violin: "Dusk" (Alfred Hill).
Cyril Monk.
6. String Quartet: "Maori" (Alfred Hill).
Gerald Walenn, Lionel Lawson, Marjorie Hinley, Gladstone Bell.
7. Songs:
"Chanson Triste" (Duparc).
"Nightingales are Singing" (Brahms).
Miss Gwen Selva, soprano.
(At the piano, Margaret Chalmers.)
8 Two Pianos:
"Fantasie and Fugue" (Bach-Busoni).
"The Dream" (Arensky).
"Children's March" (Grainger).
Frank Hutchens and Lindley Evans.
9.40 p.m.—From the Studio:
Peggy Dunbar, contralto.
9.48 p.m.—Ernest McKinlay, tenor:
(a) "On Wings of Song" (Mendelssohn).
(b) "The Flower Song" (From "Carmen") (Bizet).

9.55 p.m.—A late booking.
10.5 p.m.—Peggy Dunbar, contralto.
10.12 p.m.—Ernest McKinlay, tenor:
(a) "An Eriskay Love Lilt" (Kennedy-Fraser).
(b) "Siciliana" ("Cavalleria Rusticana") (Mascagni).
10.20 p.m.—From the Ambassadors:
The Ambassadors Dance Orchestra.
Conductor, Al. Hammet.
10.30 p.m.—From the Studio:
Late weather forecast.
10.31 p.m.—From the Ambassadors:
Dance music.
10.57 p.m.—From the Studio:
To-morrow's programme and late news.
11 p.m.—"Big Ben."
From the Ambassadors:
Popular numbers until 11.45 by the Ambassadors Dance Orchestra, conducted by Al. Hammet.
11.45 p.m.—National Anthem.
Close down.

2BL, SYDNEY.

THURSDAY, 12th APRIL, 1928.

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

MORNINNG SESSION.

10.30 a.m.—G.P.O. Clock and Chimes.
Musical programme from Studio.
11 a.m.—G.P.O. Clock and Chimes.
Women's Session:
Social Notes: Replies to correspondents.
Talk on "Architecture" by Mr. Brogan.
12 noon—G.P.O. Clock and Chimes.
Special Ocean Forecast and weather report.
12.3 p.m.—Musical programme from Studio.
12.8 p.m.—Information, Mails, Shipping, and Port Directory.
12.11 p.m.—Boats in call by wireless.
12.13 p.m.—Fruit Market Report.
12.15 p.m.—Vegetable Market Report.
12.17 p.m.—London Metal Market Report.
12.19 p.m.—Dairy Farm and Produce Market Report.
12.22 p.m.—Forage Market Report.
12.24 p.m.—Fish Market Report.
12.26 p.m.—Rabbit Market Report.
12.28 p.m.—Stock Exchange Report.
12.30 p.m.—H.M.V. Gramophone Recital.
1.27 p.m.—Stock Exchange Report.
1.30 p.m.—G.P.O. Clock and Chimes.
Talk to Children and Special Entertainment for Children in Hospital.
2 p.m.—G.P.O. Clock and Chimes.
Close down.

AFTERNOON SESSION.

Racing information, broadcast immediately after each Race, by courtesy of the "Sun" newspapers.
3 p.m.—G.P.O. Clock and Chimes.
News from the "Sun."
3.10 p.m.—Musical programme from the Studio.
3.20 p.m.—News from the "Sun."
3.30 p.m.—Musical programme from Studio.
3.40 p.m.—Dungowan Dance Band, broadcast from Dungowan Cabaret.
4 p.m.—G.P.O. Clock and Chimes.
News from the "Sun."
4.8 p.m.—Musical programme from the Studio.
4.15 p.m.—Talk on "The Women of Ancient Rome."
4.30 p.m.—Dungowan Dance Band.
4.50 p.m.—News from the "Sun."
4.57 p.m.—Features of Evening's Programme.
4.59 p.m.—Racing resume.
5 p.m.—G.P.O. Clock and Chimes.
Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and Chimes.
Children's Session.

There is an "EVER-READY" for every Radio Battery need

Every battery bearing the *"Ever-Ready"* Trademark possesses in full measure the long life, economy, and reliability which have made the *"Ever-Ready"* Australia's most popular Radio Battery.

They are now made in Australia, and come to you fresh when you buy them, each one thoroughly tested before it leaves the factory.

Wire one in now—you'll be pleased with the improvement in the volume and tone of your reception.

Ask your dealer, or write us, for an interesting two-color folder about *"Ever-Ready"* Radio Batteries, which contains many valuable economy hints for "B" Battery users.

The Ever-Ready Co.
163 Pitt Street, Sydney

SPECIAL COUNTRY SESSION.

6.30 p.m.—G.P.O. Clock and Chimes.
Australian Mercantile, Land and Finance Co.'s Report.
Weather Report and Forecast, by courtesy of Government Meteorologist.
Producers' Distributing Society's Fruit and Vegetable Market Report.
Stock Exchange Report.
Grain and Fodder Report ("Sun").
Dairy Produce Report ("Sun").
Weekly Traffic Bulletin Report.
6.45 p.m.—Country News from the "Sun."
7 p.m.—G.P.O. Clock and Chimes.
Dinner music.
7.30 p.m.—News from the "Sun."

NIGHT SESSION.

8 p.m.—G.P.O. Clock and Chimes.
Variety Programme.
Broadcasters' Topical Chorus.
8.3 p.m.—The Hawaiian Harmony Girls.
8.10 p.m.—The Wurlitzer Organ, broadcast from the Arcadia Theatre, Chatswood. Organist, Mr. N. Robins.
8.15 p.m.—Mr. Roger Jones (baritone).
8.22 p.m.—Mr. F. Stewart Jarbo (elocutionist).
8.29 p.m.—Miss Doris Orr (soprano).
8.36 p.m.—Miss Enid Parker (violinist).
8.43 p.m.—Sketch by Mr. Norman Barrington and Partner.
9.3 p.m.—Weather Report and Forecast, by courtesy of Mr. C. J. Mares, Government Meteorologist.
Resume of following day's programme.
9.8 p.m.—Mr. Jack Cannot (comedian).
9.15 p.m.—The Hawaiian Harmony Girls.
9.22 p.m.—Mr. Roger Jones.
9.29 p.m.—Stan Hudson and Jack Mayer (entertainers).
9.49 p.m.—Mr. F. Stewart Jarbo.
9.56 p.m.—Miss Doris Orr.
10.3 p.m.—Mr. Jack Cannot.
10.10 p.m.—Miss Enid Parker.
10.17 p.m.—The Wurlitzer Organ, broadcast from the Arcadia Theatre, Chatswood.
10.30 p.m.—The Wentworth Cafe Orchestra, under the direction of Mr. S. Simpson. During intervals between the Dances "Sun" news will be broadcast.
11.30 p.m.—G.P.O. Clock and Chimes.
National Anthem.

3LO, MELBOURNE.

THURSDAY, 12th APRIL, 1928.

EARLY MORNING SESSION.

"Herald" Breakfast Hour.
7.15 a.m. to 8.15 a.m.

MORNING SESSION.

11 a.m.—3LO'S CULINARY COUNSELS, or how to create creature comforts with a minimum of cash.

COFFEE ROLLS.

½-lb. flour, 1 teaspoon cream of tartar, ½-teaspoon of carbonate soda, 1oz. butter, 1-oz. sugar, 1 egg, ½-gill milk.

Method: (1) Sift flour, cream of tartar, and soda; (2) cream butter and sugar; (3) add egg, then milk, then flour; (4) turn on to floured board, and knead slightly; (5) cut into twelve pieces, shape into an oval, mark centre with knife and glaze; (6) place on warm greased tray, and bake 15 minutes in hot oven.

11.2 a.m.—THE GLORY OF THE GARDEN:
"Here's flowers for you,
Hot Lavender, Mints, Savory, Marjoram;
The Marigold, that goes to bed in the sun,
And with him rises weeping."—Shakespeare
Make room in your garden for a herb border—no more bought herbs, dry and without fragrance. Grow your own.

11.5 a.m.—ELECTRIC COOKING.
11.20 a.m.—Musical interlude.
11.25 a.m.—SISTER PURCELL:
"Infant Welfare."
11.40 a.m.—Musical interlude.
11.45 a.m.—MRS. HENRIETTA C. WALKER—The Art of Being a Settler.
"Profitable Hobbies."

MIDDAY NEWS SESSION.

12 noon.—Melbourne Observatory Time Signal.
12.1 p.m.—Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. British Official Wireless news from Rugby. Reuter's and The Australian Press Association cables. "Argus" news service.

COMMUNITY SINGING.

12.15 p.m.—COMMUNITY SINGING from the Assembly Hall, Collins Street, Melbourne. (Conductor, C. J. Mackay). Assisted by Bertha Jorgensen's Quartette.

FROM THE STUDIO.

1.45 p.m.—Meteorological information. Weather forecast and rainfall for Victoria, Tasmania, South Australia and New South Wales. Ocean forecasts. River reports. Stock Exchange information.
1.55 p.m.—Close down.
During the afternoon the results of Lancefield Racing Club will be given as they come to hand.

AFTERNOON SESSION.

GRAND OPERA SELECTIONS.

2.15 p.m.—THE STATION ORCHESTRA:
Selection, "La Traviata" (Verdi).
2.25 p.m.—EILEEN CASTLES, soprano:
"The Flower Song"—Faust (Gounod).
"Ave Maria," with violin obligato (Mascagni).
2.32 p.m.—THE STATION ORCHESTRA:
Selection, "Pagliacci" (Leoncavallo).
2.45 p.m.—VICTOR BAXTER, tenor:
"Lohengrin's Narration" (Wagner).
"Star Vicino—Salvator Rosa."
2.52 p.m.—THE STATION ORCHESTRA:
"My Heart at Thy Sweet Voice," from Samson and Dellah (Sant Saens).
3 p.m.—Melbourne Observatory Time Signal.

EDUCATION HOUR.

3.1 p.m.—DR. LOFTUS HILLS:
"Topics of the Week."
3.15 p.m.—WILLIAM G. JAMES will talk to Students of Music.
3.30 p.m.—REV. WILLIAM BOTTOMLEY:
"Idylls of the King" (Tennyson).
"Gareth and Lynnette."
3.45 p.m.—THE STATION ORCHESTRA:
"Yeomen of the Guard."

A STUDIO CONCERT.

4 p.m.—EILEEN CASTLES, soprano:
"Sempre Libre"—Traviata (Verdi).
"Si uns vers avaient les ailes" (Kahn).
4.7 p.m.—THE STATION ORCHESTRA:
"Miss Hook of Holland" (Rubens).
4.20 p.m.—VICTOR BAXTER, tenor:
"Ombra Ma Fu" (Handel).
"A Banjo Song" (Homer).
4.27 p.m.—THE STATION ORCHESTRA:
4.32 p.m.—"Herald" news service. Stock Exchange information.

EVENSONG.

4.45 p.m.—Evensong from St. Paul's Cathedral
5.30 p.m.—Close down.
Results of Lancefield Races will be given as they come to hand.

EVENING SESSION.

6 p.m.—Answers to Letters and Birthday Greetings by "MARY GUMLEAF."
6.20 p.m.—"MARY GUMLEAF." A Story for the Little Ones:
"How Piggies Get Their Curly Tails."
Poems.
6.35 p.m.—Musical interlude.
6.40 p.m.—"MARY GUMLEAF":
"Christopher Robin at Home."

NEWS AND MARKET REPORTS.

7 p.m.—Acceptances for Epsom Turf Club Races. Official report of Newmarket Stock Sales, by The Associated Stock and Station Agents, Bourke Street, Melbourne.
7.5 p.m.—"Herald" news service. Weather synopsis. Shipping movements.
7.12 p.m.—Stock Exchange information.
7.17 p.m.—Fish Market reports by J. R. Borrett, Ltd. Rabbit prices.
7.19 p.m.—River reports.
7.21 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd. Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions. Market reports of Fruit by the Victorian Fruiterers' Association—Retail prices. Wholesale prices of Fruit by the Wholesale Fruit Merchants' Association. Citrus Fruits. Ballarat Pig Market reports by the Ballarat Stock and Station Agents.

NIGHT SESSION.

7.30 p.m.—H. A. BROWN will speak on "Gardening."
8 p.m.—ROD McGREGOR will speak on "Cricket."
8.15 p.m.—Birthday Greetings and programme announcements.

3LO"S DANCE NIGHT.

8.16 p.m.—THE VAGABONDS:
"Take Your Finger Out of Your Mouth" (Yellman).
"Rang Tang" (Darby).
"Fifty Million Frenchmen" (Rose).
8.25 p.m.—FRANK AND FRANCIS LUIZ;
Duet, "Miliana-e."
Steel Guitar, "Hawaiian Love."
8.28 p.m.—THE VAGABONDS:
"Just a Memory" (Henderson).
"Persian Rug" (Kahn).
"I'd Leave Ten Men" (Bloome).
8.37 p.m.—A Few Minutes' Talk about the War Memorial.
8.42 p.m.—JACK LUMSDAINE, Whispering Baritone (The Radio Rascal), by permission of J. C. Williamson, Ltd.:
"Maori Maiden."
8.45 p.m.—THE VAGABONDS:
"Painting Pretty Picture" (Weddell).
"Here I am" (Brown).
"The Mannikin Ball" (Dixon).
8.54 p.m.—EILEEN CASTLES, soprano;
"Waltz Song"—Tom Jones (German).
8.57 p.m.—THE VAGABONDS:
"Mademoiselle Mimi" (Young).
9 p.m.—ERNEST SAGE, baritone:
"Out of the Past" (Marshall).
9.3 p.m.—SONNY CLAY AND HIS BRUNSWICK RECORDING ORCHESTRA.
9.12 p.m.—FRANK AND FRANCIS LUIZ:
Song, "Me and My Shadow."
Duet, "Aloha Baby Boy."
9.15 p.m.—SONNY CLAY AND HIS BRUNSWICK RECORDING ORCHESTRA.
9.24 p.m.—JACK LUMSDAINE, Whispering Baritone (The Radio Rascal):
"My Blue Heaven."
9.27 p.m.—SONNY CLAY AND HIS BRUNSWICK RECORDING ORCHESTRA.
9.36 p.m.—EILEEN CASTLES, soprano:
"Serenade."
9.39 p.m.—SONNY CLAY AND HIS BRUNSWICK RECORDING ORCHESTRA.
9.48 p.m.—ERNEST SAGE, baritone:
"Cries from Alexander's Feast" (Handel).
9.51 p.m.—SONNY CLAY AND HIS BRUNSWICK RECORDING ORCHESTRA.

10 p.m.—"Argus" news service. British Official Wireless news from Rugby. Meteorological information. Announcements. Sporting notes by "Olympus." Island shipping movements.

THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for To-day is for MOTORISTS: "Carbon monoxide is deadly, colorless and odorless. The air in a garage or room may seem perfectly pure, yet may contain enough carbon monoxide to kill you."

10.15 p.m.—THE VAGABONDS:
"On a Dew, Dew, Dewey Day" (Johnson).
"Miss Annabelle Lee" (Pollart).
"Hustling Hinkler" (Gilbert).

10.24 p.m.—FRANK AND FRANCIS LUIZ:
Duet, "Akahi Oi."
Song, "A Song to Hawaii."

10.27 p.m.—THE VAGABONDS:
"Look in the Mirror" (Stept).
"Whoo-You-oo That's Who" (Yellan).
"The Wedding Waltz' (Gilbert).

10.36 p.m.—JACK LUMSDAINE, Whistling Baritone (The Radio Rascal):
"Hullo, Helen."

10.39 p.m.—THE VAGABONDS:
"The Sunrise" (Santly).
"Half a Moon" (Hanley).
"Blowin' off Steam" (Davis).

10.49 p.m.—EILEEN CASTLES, soprano:
"Cradle Song" (Kreisler).

10.52 p.m.—THE VAGABONDS:
"She Belongs to Me" (Johnson).
"Just a Little Cuter' (Alexander).
"Yale Blues" (Ellis).

11 p.m.—OUR GREAT THOUGHT:
"Better than one who knows what is right, is one who is fond of what is right; and better than one who is fond of what is right is the one who delights in dong what is right."—Samuel Merwin.

11.1 p.m.—THE VAGABONDS.

11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

THURSDAY, 12th APRIL, 1928.

MORNING NEWS SESSION.
11 a.m. to 12 noon.

MIDDAY CONCERT ORCHESTRA.

Transmitted from Panatrope House, 252 Collins Street, (by exclusive permission of Wills and Paton Ltd.) on the Brunswick Panatrope.

MATINEE SESSION.

ORCHESTRAL CONCERT.

2 p.m.—Ayarz Dansonians:
A half-hour dance session by Melbourne's favorite Dance Band. The Latest hits, each one announced prior to its presentation.

2.30 p.m.—Melbourne Concert Orchestra:
"Martial Moments" (Ar. A. Winter).
"Nodding Daffodils" (H. Clarke).

2.45 p.m.—Miss Maisie Owen, soprano:
"Vidrai Carino" from Don Giovanni (Mozart)
"The Heart Worships" (Holst).

2.53 p.m.—Melbourne Concert Orchestra:
Selection, "No, No, Nanette" (Youmans).:
"La Feria" Suite Expagnole (Lacome).

3.14 p.m.—Mr. Ernie Pettifer, saxaphone:
"Valse Llewellyn" (Wiedoeft).

3.18 p.m.—Miss Maise Owen, soprano:
"The First Primrose" (Grieg).
"Annie Laurie" (Liza Lehmann).

3.26 p.m.—Miss Ethel Brearley, piano:
"New England Idyls" (MacDowell).

3.30 p.m.—Interval Announcements.

3.40 p.m.—Melbourne Concert Orchestra:
"Squire's Popular Songs" (Ar. Baynes).
"Victor Herbert's Favorites" (Herbert).

4 p.m.—G.P.O. Clock says "Four."

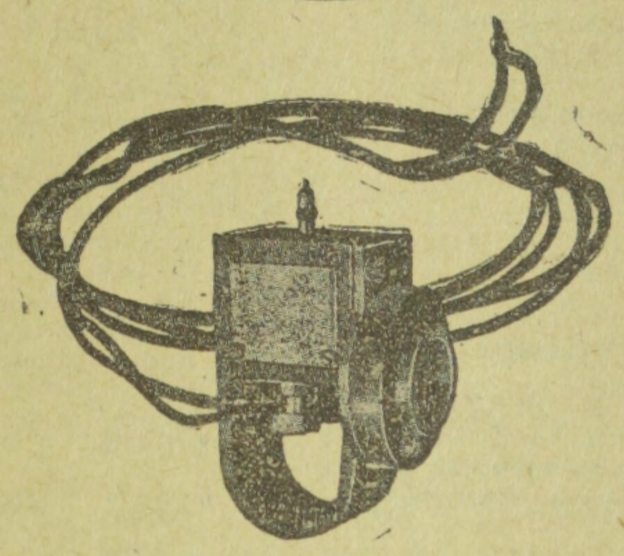
4.1 p.m.—Second Weather forecast.

4.3 p.m.—Mr. Ronald Brearley, cello:
"Lied Ohne Worte" (Mendelssohn).

4.7 p.m.—Mr. Tom Semple, tenor:
"Fairy Song" (Boughton).
"The Devon Maid" (Bridge).

4.15 p.m.—Ayarz Dansonians.

EVERYTHING BGEC ELECTRICAL
your guarantee



Cat. No.
B.C. 1660

Equip your set to reproduce from your Gramophone

with the

GECoPHONE

Gramophone Pick-up

NOW comes this latest electrical device, the GECoPHONE Gramophone Pick-up, acknowledged as the most efficient means on the market of enabling your wireless set to reproduce music and speech from a gramophone record—and with the most amazing purity of reproduction!

Simply substitute the Pick-up for the Sound Box of your gramaphone. Then the needle picks up mechanically the sound waves on the record, transforming them into electrical vibrations, passing them on via a cord and plug to the amplifier of your wireless set to be amplified and reproduced by the loud speaker.

You'll be amazed at the wealth of detail and rich tones brought from your records by this scientific component.

Price Complete with Cord and Plug

£4

Daily Demonstrations at Our Showrooms,
or Send To-day for Illustrated Leaflet.

British General Electric Co. Ltd.,
Magnet House, 104-114 Clarence St., Sydney
And at Melbourne, Adelaide, Perth and N.Z.

4.31 p.m.—Mr. Tom Semple, tenor:
"The Knights Song" (Martin Shaw).
"Drink to me only" (Roger Quilter).
4.39 p.m.—Melbourne Concert Orchestra.
4.55 p.m.—Special Racing report.
Acceptances and Barrier positions for Saturday's Races by G.F.R.
5 p.m.—G.P.O. Clock says "Five."
God Save the King.

CHILDREN'S SESSION.

6.30 p.m.—Uncle Mac's Entertainment.

EVENING SESSION.

SONG AND DANCE.

7.15 p.m.—Hobby session.
Mr. A. G. Kelson, Vice-Presvident of the 3AR Stamp Club.
7.25 p.m.—"Early Victorian History."
Mr. F. A. Currie's interesting talk this week will deal with "Some of the Pioneers of the Murray River, and the North Eastern District of Victoria."
7.35 p.m.—Sport session.
"Harlequin" presents his budget of up-to-date news and comments on Sport of the Day.
7.50 p.m.—Macnamara's Stock reports.
McPhail Anderson's Pig Market.
8 p.m.—G.P.O. Clock says "Eight."
8.1 p.m.—Melbourne Concert Orchestra:
"Tschaikowsky Fantasie" (Urbach).
8.17 p.m.—Miss Jean Lewis. contralto:
"In Heaven" (Elgar).
"Death and the Maiden" (Schubert).
8.24 p.m.—Melbourne Concert Orchestra:
Suite, "Three Easten Sketches" (Howgill).
8.39 p.m.—Mr. Ronald Brearley, cello:
"Larghetto" (Handel).
8.43 p.m.—Miss Jean Lewis, contralto:
"When all was young" (Gounod).
"All thro' the night" (Old Welsh).
8.50 p.m.—Interval Announcements.
9.2 p.m.—Melbourne Concert Orchestra:
9.18 p.m.—Mr. Ernie Pettifer, clarinet:
"Cavatina" from Robert le Devil (Meyerbeer)
9.23 p.m.—Melbourne Concert Orchestra:
"An das Meer" (MacDowell).
"Souvenir de Capri" (Giuseppe Becce).
9.30 p.m.—"Harlequin." Sport results.
9.38 p.m.—Melbourne Concert Orchestra.
Grand Selection, "Boccaccio" (Suppe).
9.50 p.m.—Interval Announcements.
10 p.m.—G.P.O. Clock says "Ten."
10.1 p.m.—Semi-Final Weather forecast, specially for our Country Listeners.
10.3 p.m.—Mr. Milton Chick, baritone:
"Vision Fugitive" (Massenet).
"The Roadside Fire" (Vaughan Williams).
10.11 p.m.—Melbourne Concert Orchestra:
Suite, "Suite Enfantine" (Lardelli).
10.26 p.m.—Mr. Milton Chick, baritone:
"Amarille," Italian 17th Century (Caccini).
"Golden Hair" (Frank Bridge).
10.34 p.m.—Melbourne Concert Orchestra:
Suite: "The Green Lanes of England" (Clutsam).
10.45 p.m.—"Harlequin." Sport results.
10.52 p.m.—"Age" news bulletin, exclusive to 3A.R.
10.58 p.m.—Final Weather forecast.
10.59 p.m.—Our Australian Good Night quote is taken from the poem "Sunset" by Arthur Bayldon.
11 p.m.—G.P.O. Clock says "Eleven."
God Save the King.

AFTERNOON SESSION.

3.30 p.m.—Mail train running times.
3.31 p.m.—A programme of music from the studio.
4.15 p.m.—"The Telegraph" news.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—Mail train running times, Daily Standard news, Weather Information announcements.
6.15 p.m.—Dinner music.
6.30 p.m.—Bedtime stories by "The Sandman."
7 p.m.—Special news service; market reports; stock reports.
7.30 p.m.—Weather news; "Daily Standard" news; announcements.
7.43 p.m.—Standard time signals.
7.45 p.m.—Lecturette: A Talk on Books by Mr. J. Doyle (McLeod's).

NIGHT SESSION.

A programme of music by Mr. H. Scott MacCallum's party.
To-night's programme will be given by a party arranged by Mr. H. Scott MacCallum. The first portion will take the form of a drawing-room entertainment, and the second portion that of a studio concert.
8 p.m.—Drawing-room entertainment.
9 p.m.—Studio concert:
Saxaphone Quartette: Popular number.
Melody Four.
Contralto Solo:
"Reaping" (Clarke).
Miss Ella Howie.
A Thought for To-night:
"On the Wrong Scent."
Will H. Lister.
Violin Solo:
"Muzarka de Concert" (Musin).
Mr. H. Scott MacCallum.
Tenor Solo:
"Mountain Lovers" (Squire).
Mr. Jack Land.
Saxaphone Quartette:
The Melody Four.
Soprano Solo:
"The Nightingale's Trill" (Gantz).
Vocal Duet: Selected.
Mr. J. Land (tenor) and Mr. H. E. Higginbotham.
Pianoforte Solo:
"Impromptu in B-Flat" (Schubert).
Mrs. Hilda Woolmer.
Bass Solo:
"Lady Faire" (Weatherly).
Mr. H. Phillips.
Monologue Miniatures:
Miss Eileen McLennan.
Saxaphone Duet: Melody Players.
Vocal Duet: Selected.
Miss Dossie Hargreaves (soprano) and Miss Ella Howie (contralto).
A Musical Episode by "Jack and Jill."
Baritone Solo:
"Lorraine."
Mr. H. E. Higginbotham.
Saxaphone Quartette:
Melody Players.
10 p.m.—FROM THE STUDIO:
"Daily Mail" news. Weather news.
Close down.

1.57 p.m.—Meteorological information.
2 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Musical numbers on the Studio "Recreator."
3.45 p.m.—"Cheer-Up" Talk by Rev. C. H. Nield.
4 p.m.—G.P.O. Chimes.
4.1 p.m.—Musical numbers on the Studio "Recreator."
4.57 p.m.—S. C. Ward & Co.'s Stock Exchange intelligence.
5 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
6.1 p.m.—Children's Entertainment by the 5CL Radio Family.
6.30 p.m.—Dinner Music on the Studio "Recreator."
6.50 p.m.—General Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S. A. Farmers' Co-operative Union, Taylor Bros., Retail Grocers' Association. Interstate Fruit and Produce Market.
7 p.m.—G.P.O. Chimes.
7.1 p.m.—S. C. Ward & Co.'s Stock Exchange intelligence.
7.8 p.m.—Scripture Reading.
7.15 p.m.—Popular Science Talk.
7.30 p.m.—Talk, "Better Homes," by Slaters (Furnishers), Ltd.
7.40 p.m.—Poultry Talk by Mr. A. M. Whittenbury
8 p.m.—G.P.O. chimes.
8.1 p.m.—Novelty Broadcast.
8.20 p.m.—Selection, Dance Numbers:
Les. Sims and His Hot Peppers.
8.30 p.m.—Popular numbers: Radio Duo.
8.40 p.m.—Selection:
Les. Sims and His Hot Peppers.
8.50 p.m.—Contralto solo: Margaret Pirie.
9 p.m.—G.P.O. Chimes.
9.1 p.m.—Meteorological information.
9.2 p.m.—British Wireless news.
9.9 p.m.—Dalgety's Wheat report.
9.12 p.m.—Selection:
Les. Sims and His Hot Peppers.
9.25 p.m.—Tenor solo: Howard Bauerochse.
9.30 p.m.—Contralto solo: Margaret Pirie.
9.35 p.m.—Selection:
Les. Sims and His Hot Peppers.
9.45 p.m.—Contralto solo: Margaret Pirie.
9.49 p.m.—Selection:
Les. Sims and His Hot Peppers.
9.55 p.m.—Tenor solo: Howard Bauerochse.
10 p.m.—G.P.O. Chimes.
10.1 p.m.—"Advertiser" news service.
10.10 p.m.—"Windbag's Sporting Service.
10.15 p.m.—Dance Music relayed from the Maison de Danse, Glenelg.
10.55 p.m.—Friday's programme and meteorological information.
11 p.m.—G.P.O. Chimes and National Anthem.

4QG, BRISBANE

THURSDAY, 12th APRIL, 1928.

MORNING SESSION.

10.30 a.m. to 11.30 a.m.

MIDDAY SESSION.

1 p.m.—Market reports; weather information supplied by the Commonwealth Weather Bureau; news services supplied by "The Daily Mail" and "The Daily Standard."
1.20 p.m.—Lunch hour address.
1.58 p.m.—Standard time signal.
2 p.m.—Close down.

5CL, ADELAIDE

THURSDAY, 12th APRIL, 1928.

MIDDAY SESSION.

12 noon.—G.P.O. chimes.
12.1 p.m.—"Advertiser" news service and British Wireless news.
12.30 p.m.—Musical numbers on the Studio "Recreator."
12.50 p.m.—S. C. Ward & Co.'s Stock Exchange intelligence.
12.57 p.m.—Meteorological information.
1 p.m.—G.P.O. chimes.
1.1 p.m.—Musical numbers on the Studio "Recreator."

Friday, April 13

2FC, SYDNEY.

EARLY MORNING SESSION.
7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.45 a.m.—A talk by "Delisse."
11 a.m.—"Big Ben." Studio music.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.10 a.m.—Studio music.
11.15 a.m.—A talk on Home Cooking and Recipes by Miss Ruth Furst.
11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning Herald" news service.
12.15 p.m.—Rugby Wireless News.
12.20 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.20 p.m.—Studio music.
1.28 p.m.—Stock Exchange, second call.
1.30 p.m.—Agnes McDiarmid, soprano.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.3 p.m.—From the King's Hall, on the occasion of the First Annual Conference of the Music Teachers of New South Wales:
Musical Lecture: "The Trend of Modern Music."
Lecturers: Wilfred Arlom, Cyril Monk.
Violinist: Moore MacMahon.
Pianist: Wilfred Arlom.
3.30 p.m.—From Petersham Congregational Church: An Organ Recital by Ambrose Gibb.
3.45 p.m.—From the Studio:
Alice Pomroy, soprano.
3.48 p.m.—Popular records.
3.56 p.m.—Hilda Nelson, mezzo.
4 p.m.—"Big Ben."
From Petersham Congregational Church:
Further items from Organ Recital by Ambrose Gibbs.
4.15 p.m.—From the Studio:
Alice Pomroy, soprano.
4.20 p.m.—From Petersham Congregational Church: Further items from Organ Recital by Ambrose Gibbs.
4.45 p.m.—From the Studio:
Stock Exchange, third call.
4.47 p.m.—Hilda Nelson, mezzo.
4.50 p.m.—Studio music.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the children.
6.15 p.m.—Story time for the young folk.
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news, told by the 2FC Racing Commissioner.
7.10 p.m.—Dalgety's Market Reports (wool, wheat and stock).
7.18 p.m.—Fruit and vegetable markets.
7.22 p.m.—Weather and shipping news.
7.26 p.m.—"Evening News" late news session.

NIGHT SESSION.

7.38 p.m.—Programme announcements.
7.40 p.m.—W. F. Kay in a new series of Theatrical talks:
No. I. "A Stranded Actor."
7.52 p.m.—Reginald Hayward, baritone.
8 p.m.—"Big Ben."
From Her Majesty's Theatre, Sydney (by permission of J. C. Williamson, Ltd), on the occasion of the return to Sydney of the Popular Musical Play,

"ROSE MARIE."

Featuring Harriet Bennett and Frederick Bentley. The First Act will be broadcast.
Cast:
Sergeant Malone, James Hughs.
Lady Jane, Yvonne Banvard.
Black Eagle, George Bryant.
Emile le Flamme, Lou Vernon.
Edward Hawley, Noel Allan.
Wanda, Stephanie Deste.
Hard Boiled Herman, Frederick Bentley.
Jim Kenyon, Reginald Dandy.
Rose Marie La Flamme, Hariet Bennet.
Ethel Brander, Mabel Lambeth.

Scenes: Act I.
1. Lady Jane's Hotel, Fond du Lac, Saskatchewan, Canada.
2. Impression—a Campfire.
3. Black Eagle's Cabin—One hour later.
4. Impression—The Campfire again.
5. Totem Pole Lodge near Kootenay Pass in the Canadian Rockies. A few weeks later.
Musical Numbers:
Introduction.
Song, "Hard-boiled Herman," Frederick Bentley and Chorus.
Song, "Rose Marie," Reginald Dandy and James Hughes.
Song, "The Mounties," James Hughes and Chorus.
Song, "Lak Jeem," Harriet Bennet and Chorus.
Duet, "Indian Love Call," Harriet Bennet and Reginald Dandy.
Song, "Pretty Things," Harriet Bennet and Chorus.
Ballet Eccentric, Frederic Bentley and Chorus.
Duet, "Why Shouldn't We," Yvonne Benvard and Frederick Bentley.
Song, "Totem Tom Tom," Stephanie Deste and Chorus.
Finale.
9.40 p.m.—From the Studio:
The 2FC Studio Orchestra, conducted by Horace Keats:
(a) Overture, "Maid of Orleans" (Rawlinson).
(b) "Gavotte Caprice" (Bortiewiez).
9.53 p.m.—Mde. Emily Marks, soprano.
(With orchestral accompaniment.)
10 p.m.—"Big Ben."
The 2FC Studio Orchestra:
(a) Suite, "Le Lac des Cygnes" (Tschaikowsky).
(b) "Rhapsodia Russe" (arr. Nussbaum).
10.16 p.m.—Reginald Hayward, baritone.
(With orchestral accompaniment.)
10.24 p.m.—The 2FC Studio Orchestra:
"A Summer's Morn" (Haines).
10.30 p.m.—Late weather forecast.
10.31 p.m.—The 2FC Studio Orchestra:
(a) "Peer Gynt Suite" (Grieg).
(b) Selection, "Miss Hook of Holland" (Rubens).
10.57 p.m.—To-morrow's programme and late news.
11 p.m.—"Big Ben."
From the Ambassadors:
The Ambassadors Dance Orchestra, conducted by Al. Hammet.
11.45 p.m.—National Anthem.
Close down.

3LO, MELBOURNE.

FRIDAY, 13th APRIL, 1928.

EARLY MORNING SESSION.

"Herald" Breakfast Hour."
7.15 a.m. to 8.15 a.m.

MORNING SESSION.

11 a.m.—3LO'S CULINARY COUNSELS of how to create creature comforts with a minimum of cash.

SEA PIE.

1-lb. steak (stewing), 1 teaspoon salt, little pepper, 1 turnip, 1 pint water, 1 carrot, 1 small onion, suet crust (½-lb. flour ¼-lb. suet, ½-teaspoon baking powder, pinch salt, ¼-pint water).

Method: (1) Cut meat in ½in. dice; (2) put into the saucepan with water and salt; (3) while coming to the boil, peel vegetables; (4) cut them into dice, then add them, simmer 1 hour; (5) make suet crust; (6) roll it in a round to fit in saucepan; (7) half-an-hour before dinner, put suet crust on top, and allow tosoak gently with lid on; (8) have ready hot dish; (9) arrange it on the dish with meat and gravy underneath and crust on top.

11.2 p.m.—THE GLORY OF THE GARDEN. Good gardening means doing the right thing at the right time, and putting the right

Missing Links

When Darwin first looked at a caged monkey a bystander remarked on the resemblance. The angry scientist, being human, avenged himself by trying to prove that all men came from Monkeys!

One of his trump cards was the fact that the last bone in our spinal columns—reading downwards from the neck—was Nature's provision for wagging a tail. Ever since scientists have been searching for the missing link—a man with a tail. The universal use of trousers has baffled research.

The clash between religion and science is due to the eagerness of the one to find a missing link with the angels, while the other is concentrating downward on tails!

We are all sensitive on chance resemblances. Personally, I broke an umbrella on an angry taxi driver who suggested that if I was on all fours a mother hippopotamus would bleat fondly at a lost offspring.

It took three men to separate an ugly friend from the ferry clerk who asked in all innocence if he required a return ticket when booking for the Sydney Zoo.

The missing link theory should not be confined to apes. Almost any crowd will contain barking imitations of a St. Bernard, a Pekin Poodle and German Sausage Dog. Probably there will be two Skunks, a Giraffe, and a Jersey Cow in the collection.

Our talk on tails brings to mind the invaluable Acme Socket Power, which uses a long tail to run any radio set. The point of the tail goes into a power or light socket, and the whole electrical energy of a city is turned into wireless music.

This long tailed product of New System Telephones, Pty., Ltd., has its birthplace at 280 Castlereagh Street, Sydney, and eliminates "B" batteries, crackles, cost and cussing.

If Darwin had seen an Acme talking, he would have spent his life showing that our original ancestor was a socket power which lived in the Garden of Eden and ate apples.

Fortunately, Darwin is now working out problems on a higher plane.

plants in the right position. This is the terminal month of Autumn, and, if not already done, sowing should not be further delayed, as the cold weather which will soon be upon us will retard their growth. Dianthus, Polyanthus, Primrose, Stock, Sweet Peas, in fact, any of these varieties will do well if sown in a warm position and before the weather becomes too cold. Keep your garden gay with flagrant flowers.

11.5 a.m.—VEGETARIAN COOKING :
Matron Bartlett will give hints on the cooking of vegetable dishes.

11.20 a.m.—Musical interlude.
11.25 a.m.—"AU FAIT":
"Fashions Fancies."
11.40 a.m.—Musical interlude.
11.45 a.m.—Under the auspices of the Public Health Department, DR. PAUL ROWAN will speak on
"Clean food—the right of everybody."

MIDDAY NEWS SERVICE.

12 noon.—Melbourne Observatory Time Signal.
12.1 p.m.—Metal prices received by the Australian Mines and Metals Association, from the London Stock Exchange this day. Reuter's and the Australian Press Association cables. British Official Wireless news from Rugby. "Argus" news service.
12.20 p.m.—BERTHA JORGENSEN'S QUARTETTE:
Magic Flute (Mozart).
12.30 p.m.—EILEEN CASTLES, soprano:
"Deli Vieui" (Mozart).
Selected.
12.37 p.m.—Stock Exchange information.
12.40 p.m.—DOROTHY ROXBURGH, Viola:
"Adagio" (Mozart).
12.47 p.m.—BERTHA JORGENSEN'S QUARTETTE:
"Cosi Fau Tutti" (Mozart).
1 p.m.—Melbourne Observatory Time Signal.
1.1 p.m.—DOLLY BURDETT, contralto:
"Voi Clu Sapate" (Mozart).
Selected.
1.8 p.m.—Meteorological information.
Weather forecast for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports.

FOUNDATIONS OF MUSIC.

1.15 p.m.—BERTHA JORGENSEN, violin, in a continuation of the works of Wieniawski:
"Polonaise Brilliante" (Wieniawski).
1.25 p.m.—EILEEN CASTLES:
"Porgi Amour" (Mozart).
1.32 p.m.—BERTHA JORGENSEN'S TRIO:
"Necken—Swedish Folk Song"—Somdby).
1.38 p.m.—DOLLY BURDETT, contralto:
"Lament of Isis" (Bantock).
"Hinden Song" (Bembery).

AFTERNOON SESSION.

2.15 p.m.—THE STATION ORCHESTRA:
Suite, "Summer Days" (Eric Coates).
1. "In a Country Lane."
2. "On the Edge of the Lake."
3. "At the Dance."
2.26 p.m.—FRANK AND FRANCIS LUIZ:
Steel Guitar, "Kawaihau Waltz."
Song, "Isles of Paradise.'
Duet, "Calm Hawaiian Seas."
2.37 p.m.—THE STATION ORCHESTRA:
Cobweb Castlel: "In the Owl's Turret" (Liza Lehman).
2. "Fly Away, Ladybird."
3. "By the Sundial."
4. "A Legend."
5. "Evensong."
2.50 p.m.—BERYL HAYDEN, Soubrette (by permission of J. C. Williamson, Ltd.):
"I'll Tell You Another."
Selected.
2.57 p.m.—THE STATION ORCHESTRA:
Selection, "Pagliacci" (Leoncavallo).
Selected.
INTERLUDE.
3.2 p.m.—FRANCES FRASER, Travels with Ulysses:
"Courage," he said, and pointed towards the land,
"This mounting wave will roll us shoreward soon.
"In the afternoon they come unto a land
"In which it seemed always afternoon."
This visit to the land of the Lotus-eaters is one of the incidents in the travels of Ulysses and his companions, who met with the most thrilling adventures and miraculous escapes.
3.17 p.m.—THE STATION ORCHESTRA:
"A Perfect Day" (Carrie Jacob Bond).
"Mighty Lak' a Rose" (Nevin).
3.24 p.m.—ROY GALLOWAY, Baritone (by permission of J. F. Williamson, Ltd.):
Selected.

ORGAN RECITAL.

3.30 p.m.—C. E. MONTEATH, F.R.C.O., A.R.C.M., Organist at St. Peter's Church.
Introduction to Act III., and Bridal Chorus from "Lohengrin."
"Minuet from Samson" (Handel).
Introduction, "Adagio" and "Allegro" from the 2nd Organ Sonata (Mendelssohn).

FROM THE STUDIO.

3.50 p.m.—THE STATION ORCHESTRA:
"Spanish Dance" (Moszkowski).
"Chanson Triste" (Tschaikowsky).
4 p.m.—JACK LUMSDAINE (The Radio Rascal), by permission of J. C. Williamson, Ltd.:
"That's a Good Girl."
"Thinking."
4.7 p.m.—HAROLD MOSCHETTI, tenor, sax.:
Selected.
4.14 p.m.—BERYL HAYDEN, Soubrette:
"Culled from the Comics."
4.20 p.m.—THE STATION ORCHESTRA:
Selection, "To-night's the Night" (Rubens).
4.30 p.m.—ROY GALLOWAY, Baritone:
Selected.
4.37 p.m.—THE STATION ORCHESTRA:
"Prelude" (Junefeldt).
4.40 p.m.—Weather forecast from Adelaide.
Weather forecast for Mildura district.
4.41 p.m.—JACK LUMSDAINE, the Whispering Baritone:
"She's Just What the Doctor Ordered."
"I'd Climb the Highest Mountain."
4.48 p.m.—THE STATION ORCHESTRA:
Selections from Moszkowski.
5 p.m.—"Herald" news service.
Stock Exchange information.
5.15 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.

6 p.m.—Answers to Letters and Birthday
6.40 p.m.—"BILLY BUNNY":
6.20 p.m.—DICKSON GREGORY:
A World Famous Steamer—the "old" "EDINA."
6.35 p.m.—Musical interlude.
6.40 p.m.—"BILLY BUNNY" :
"Stories of the Australian Bush."

NEWS AND MARKET REPORTS.

7 p.m.—Official report of Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke-street, Melbourne.
7.5 p.m.—"Herald" news service. Weather synopsis. Shipping movements.
7.12 p.m.—Stock Exchange information.
7.17 p.m.—Fish Market reports by J. R. Borrett, Ltd.—Rabbit prices.
7.19 p.m.—River reports.
7.21 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd. Poultry, Grain, Hay, Jute, Dairy Produce, Potatoes and Onions. Market reports of Fruit by the Victorian Fruiterers' Association—Retail prices. Wholesale prices of Fruit Merchants' Association. Citrus fruits.

NIGHT SESSION.

7.30 p.m.—Under the auspices of the Department of Agriculture, J. T. RAMSAY, Potato Expert, will speak on:
"Storage of Seed Potatoes."

SPORT—TECHNICALITIES AND MUSICALITIES.

7.45 p.m.—COLLINGWOOD CITIZENS' BAND:
Concert Piece, "A Little Peach."
7.52 p.m.—OLIVER PEACOCK, Baritone.
8 p.m.—H. K. LOVE: "Technicalities."
Mr. Love will be glad to attend to your wireless difficulties, and we ask you to write to him for any information you may require.
8.10 p.m.—COLLINGWOOD CITIZENS' BAND:
Waltz, "Reflections."
8.17 p.m.—EILEEN CASTLES, soprano:
Aria,
"Tosca" (Puccini).
"Bells of Shandon" (Irish).
8.24 p.m.—ERIC AKINS will speak on:
"To-morrow's Events at the Motordrome."
8.34 p.m.—COLLINGWOOD CITIZENS' BAND:
March, "Silver Wood."
Intermezzo, "Pompadour."
8.44 p.m.—JACK LUMSDAINE, Whispering Baritone (by permission of J. C. Williamson, Ltd.):
"I'm Tickled to Death, I'm Single."
"Just Like a Butterfly."
8.50 p.m.—MOANA LUA DUO, Spanish and Steel Guitar Duets:
"Southern Blues" (Akoui).
"Kawahau Waltz" (Awai).

PIANOFORTE RECITAL.

8.57 p.m.—WILLIAM G. JAMES.
"AND THE NIGHT SHALL BE FILLED WITH MUSIC."
9.12 p.m.—COLLINGWOOD CITIZENS' BAND:
Selection, "An English Garden."
9.22 p.m.—FRANK AND FRANCIS LUIZ:
Duet, "Dreamy Hawaii."
Song, "Kuu Home."
Steel Guitar, "Hula Blues."
Duet, "My Blue Heaven."
9.34 p.m.—EILEEN CASTLES, soprano:
"Saper Vorreste" (Verdi).
"On Wings of Song" (Mendelssohn).
9.41 p.m.—"AINTREE" will speak on tomorrow's races.
9.51 p.m.—COLLINGWOOD CITIZENS' BAND:
Euphonium solo, "Neptune."
10 p.m.—"Argus" news service. Meteorological information. Road Notes. British Official Wireless news from Rugby. Island Shipping notes.
THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for To-day is for MOTORISTS:
"Never run your engine unless the garage door is open or at least two windows. If you feel any headache or faintness, go at once to the open air."
10.22 p.m.—JACK LUMSDAINE, Whispering Baritone:
"Kentucky's Way of Saying Good Morning"
"Me and My Shadow."
10.19 p.m.—COLLINGWOOD CITIZENS' BAND:
Selection, "The Merry Makers."
10.30 p.m.—MOANA LUA DUO:
"Kaluna Waltz" (Awai).
"My Blue Heaven" (Donaldson).
10.37 p.m.—OLIVER PEACOCK.
10.45 p.m.—COLLINGWOOD CITIZENS' BAND:
March,
"Canberra."
Selected.
11 p.m.—OUR GREAT THOUGHT:
"The Shrine of Remembrance."
"Even as we utter the words 'we shall ever remember' we begin to forget. To forget is to betray; for it is to be false to the men who fell, to the cause for which they fell, and to ourselves. Let the whole people join in creating such a monument as will keep the names and memories of these men fresh in the minds of our children's children."—Sir William Irvine.
10.55 p.m.—MOANA LUA DUO:
"Song of Hawaii" (Bones and Corbell).
"Hilo" (Pale).
11.1 p.m.—THE VAGABONDS.
11.40 p.m.—GOD SAVE THE KING.

Saturday, April 14

2FC, SYDNEY.

EARLY MORNING SESSION.
7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.35 a.m.—A talk on Racing by the 2FC Commissioner.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben."
A.P.A. and Reuter's Cable Services.
11.5 a.m.—A talk on Gardening by "Redgum" (Mr. G. J. Lockley).
11.30 a.m.—Close down.

MIDDAY AND AFTERNOON SESSIONS.

12 noon—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange information.
12.3 p.m.—Studio music.
12.20 p.m.—"Sydney Morning Herald" summary.
12.25 p.m.—Rugby Wireless News.
12.30 p.m.—Studio music.
NOTE: A complete description of events of the last day of the Easter Meeting at Randwick will be given by the 2FC Racing Commissioner.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
1.15 p.m.—Studio music.
NOTE: During the Racing intervals at Randwick, the following musical programme will be given from the Studio:
"The Smart Set Trio"; leader, Molly Grant.
Peggy Shaw, soubrette.
William Doyle, novelty pianist.
4.45 p.m.—Complete sporting resume.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the children.
6.15 p.m.—Story time for the young folk.
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news.
7.15 p.m.—Weather intelligence.
7.18 p.m.—Fruit and vegetable markets.
7.28 p.m.—Studio music.

NIGHT SESSION.

7.45 p.m.—Programme announcements.
7.50 p.m.—Rev. F. H. Raward:
Talk, "Let's Go Round the World."
8.5 p.m.—From the Conservatorium Hall, Sydney, on the occasion of the First Annual Conference of the Music Teachers of N.S.W.:
Concert by the Conservatorium Orchestra and Choir (Final night of the Conference):
1. Overture, "Egmont" (Beethoven).
The struggle between the Netherlands and the King of Spain, in which the story of "Egmont" forms a principal episode, and which ended in the rise of the Dutch Republic, is one of the most tremendous conflicts of modern times.
The Conservatorium Orchestra.
8.20 p.m.—The Conservatorium Choir.
8.32 p.m.—Suite No. 6 (Bach-Wood).
The first number is an arrangement of the third Prelude of the celebrated forty-eight Preludes and Fugues for the Clavichord. The second, "Lament," is the third movement from the Capriccio in B Flat Major. The fourth is the Gavotte and Musette from the sixth English suite. The fifth, "Andante Mistico" is from the famous twenty-second Prelude in B Flat Minor of the "Forty-eight." The sixth and last is the Finale from the sixth unaccompanied Violin Sonata, the difficult solo part being allotted to the violins.
The Conservatorium Orchestra.
8.40 p.m.—The Conservatorium Choir.
8.55 p.m.—From the Studio:
During the interval at the Conservatorium "The Two Magpies."
9.5 p.m.—From the Conservatorium; Continuation of the programme by the Conservatorium Orchestra and Choir:
Concerto for Pianoforte:
A Minor Opus 16 (Greig).
Solo Piano, Miss Iris de Cairos-Rego.
This beautiful composition was performed for the first time in public by the composer himself in 1879 at the Gewandhaus, Leipsic. The moledy, harmony and rhythm are choice, while the orchestral accompaniment is a special feature, and adds colour to the solo part.
The Conservatorium Orchestra.
9.37 p.m.—The Conservatorium Choir.
9.47 p.m.—"Sea Symphony" (Vaughan Williams).
The "Sea Symphony," composed in 1909, and lately revised, is one of the composer's larger settings of Walt Whitman's words.
The Conservatorium Orchestra.
10.5 p.m.—From the Studio:
Sydney Calland, baritone.
10.13 p.m.—"The Two Magpies."
10.23 p.m.—Sydney Calland, baritone.
10.30 p.m.—Late weather forecast.
10.31 p.m.—From the Ambassadors:
The Ambassadors Dance Orchestra, conducted by Mr. Al. Hammet.
10.57 p.m.—From the Studio:
Late news.
To-morrow's programme.
11 p.m.—"Big Ben."
The Ambassadors Dance Orchestra.
11.45 p.m.—National Anthem.
Close down.

3LO, MELBOURNE.

SATURDAY, APRIL 14th.

EARLY MORNING SESSION.
7.15 a.m. to 8.15 a.m.

MORNING SESSION.

11 a.m.—THE STATION ORCHESTRA:
"Tales of the Vienna Woods" (Strauss).
"The Broken Hearted Sparrow—a love episode in Birdland" (Bindip).
11.11 a.m.—EILEEN CASTLES, soprano:
"Ia Voce"—Puritani (Bellini).
"Blackbirds' Song" (Cyril Scott).
11.18 a.m.—THE STATION ORCHESTRA:
Selection, "A Waltz Dream" (Strauss).
"Arabian Song" (Max Vogrich).
11.34 a.m.—OLIVER PEACOCK, baritone.
11.41 a.m.—THE STATION ORCHESTRA:
"A Musical Switch"—A Potpourri of melodies old and new" (Alford).
11.51 a.m.—EILEEN CASTLES, soprano:
"Deh Vieni" (Mozart).
"Little Boy Blue" (Nevin).
11.58 a.m.—THE SHRINE OF REMEMBRANCE.
"We talk of remembrance. Let us act in our lives as if we ourselves really were making some sacrifice in remembrance of the great sacrifice made by the brave men who went forth to war during those terrible five years. It is our duty to continuously do some personal deed of sacrifice lest we forget what we owe, not only to those who gave their lives, but the vast numbers who came back permanently injured and all who did their duty. It is our duty to raise a monument so that our children and chil-

Use While You Pay!

Easy Terms.

Small Deposit; Small Weekly Payments.

Why be bothered with old dry Batteries?
Get an Eliminator.

Emmco £10/10/-
Dep. £1/2/-; 4/- a week.

Emmco Super Power, £12/10/-.
Dep. 25/-; 4/9 a week.

Emmco A.B.C. Eliminator and a Complete Range of Phillips' in stock; also A. and B. Battery Chargers.

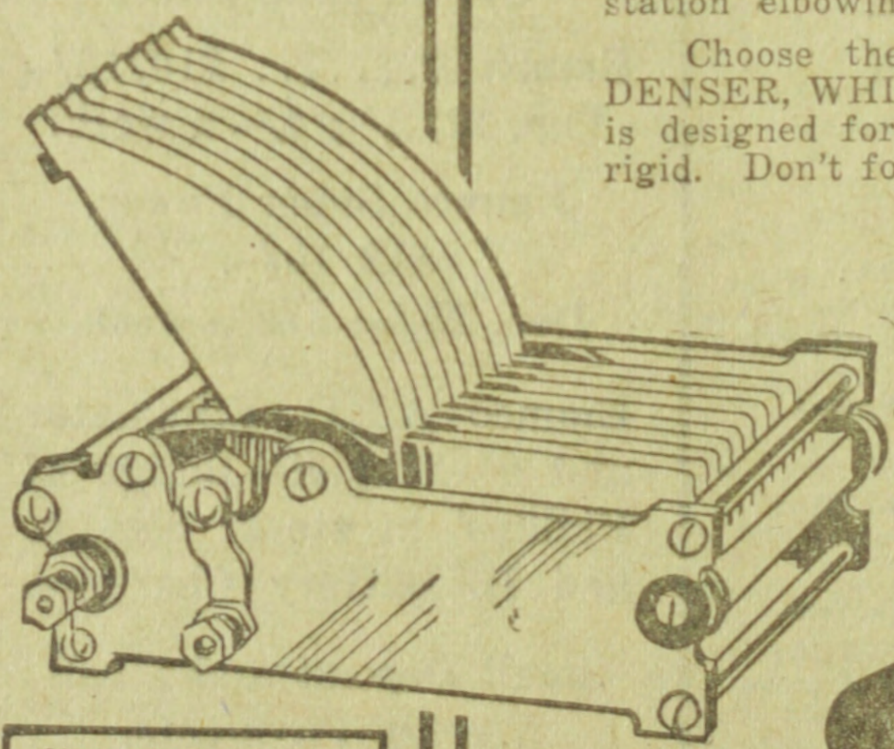
Small Deposit and Small Weekly Payments.

Railway Radio Co.
Rawson Place,
495 a Pitt Street, City.
City MA 5288

THE ability to choose your own programme from the various stations is a great boon! It means that if you do not care for the jazz from here, or the lecture from there, you can tune in elsewhere—WITHOUT INTERFERENCE.

Selectivity depends primarily upon the kind of condenser your set possesses. Any condenser may permit you to tune in 3LO, 4QG, 2FC, 5CL, and other stations, but if your logging of them is all crowded on one small section of the dial, you are apt to have the lecture from this station elbowing its way into the concert programme from that.

Choose the "ADVANCE" STRAIGHT LINE FREQUENCY CONDENSER, WHICH DOES AWAY WITH ALL STATION-BUNCHING. It is designed for multiple mounting, is in a one piece frame, and is most rigid. Don't forget the name—"Advance." Your dealer has it.



Now available in brass. Prices 1/- higher

.0005	10/6
.00035	10/-
.00025	9/6

ADVANCE
Improved
STRAIGHT LINE
FREQUENCY CONDENSER

Wholesale Distributors for N.S.W.:
FOX & MACGILLICUDDY, LTD., SYDNEY.
And
HARRINGTONS, Ltd., SYDNEY.

Manufactured in Australia by
RADIO CORPORATION OF AUSTRALIA PTY. LTD.
MELBOURNE : SYDNEY : ADELAIDE : BRISBANE

drens' children will preserve a reverential feeling of remembrance of what they also owe to the men who did such noble deeds to make the foundations of liberty and civilisation more secure. Those of us who have felt the deep emotion that comes over us while walking through the soldier cemetries in Flanders and Gallipoli, have thoughts that constantly well within us to remind us of the devotion to duty of the thousands of our brave sons. The simple slab on those ever-green God's acres, with the name of the soldier on it, or the words, "Known only to God," make an appeal to remember which we never forget.

"Let the Shrine of Remembrance in Melboure be a worthy epitaph to their memory."

—George Swinburne.

MIDDAY NEWS SERVICE.

12 noon.—Melbourne Observatory time signal.

12.1 p.m.—Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. British official wireless news from Rugby. Reuter's and the Australian Press Association cables. "Argus" news service.

IN JOYOUS MOOD.

12.20 p.m.—THE STATION ORCHESTRA: Selection, "You're in Love" (Friml).

12.31 p.m.—FRANK AND FRANCIS LUIZ:

Duet, "Hana Lei."

Steel Guitar, "Kalima Waltz."

Song, "Lay my head beneath a rose."

Duet, "Drifting and dreaming."

12.43 p.m.—Stock Exchange information.

12.45 p.m.—THE STATION ORCHESTRA: Selection, "The Chocolate Soldier." Selected.

1 p.m.—Melbourne Observatory time signal.

1.1 p.m.—JACK LUMSDAINE, whispering baritone (by permission J. C. Williamson Ltd.):
"Baby Mine."
"Bungalow and You."

1.8 p.m.—Meteorological information. Weather report and rainfall for Victoria, Tasmania, South Australia and New South Wales. Ocean reports. River reports.

1.15 p.m.—THE STATION ORCHESTRA:
"Atalantis—The Lost Continent" (Safranck)
Morning Hymn of Praise.
A Court Function.
I Love Thee (The Prince and Aana).
The Destruction of Atlantis."

1.23 p.m.—OLIVER PEACOCK, baritone.

1.31 p.m.—THE STATION ORCHESTRA: "Stars of the Desert" (Amy Woodford Finden).

1.42 p.m.—JACK LUMSDAINE, the radio Rascal:
"Dew, Dew, Dewey Day."
"Calling" (Lumsdaine).

1.49 p.m.—Close down.
During the afternoon results of Woodford Club Races will be given as they come to hand.

2 p.m.—Description of Ninth Annual Military and Athletic sports at the Melbourne Cricket Ground.

2.10 p.m.—Close down.

AFTERNOON SESSION.

2.15 p.m.—HARRY SHRUGG'S BAND: Selection, "Fox Trots."

2.30 p.m.—Description of Two-year-old Handicap, 5 furlongs less 20 yards, EPSOM RACES, by "Aintree."

2.35 p.m.—HARRY SHUGG'S BAND: Selection, "Comic Opera."

2.45 p.m.—Announcements and sporting results.

2.50 p.m.—HARRY SHUGG'S BAND: Selection, "Waltzes."

3 p.m.—Description of Trial Plate, 6 furlongs, EPSOM RACES, by "Aintree."

3.5 p.m.—Description of Ninth Annual Military and Athletic Sports at the Melbourne Cricket Ground.

3.15 p.m.—HARRY SHUGG'S BAND: Selection, "Grand Opera."

3.30 p.m.—Description of Traial Purse, 1 mile, EPSOM RACES, by "Aintree."

3.35 p.m.—HARRY SHUGG'S BAND: Selection, "Marches."

3.45 p.m.—Announcements and sporting results.

4 p.m.—Description of Brush Steeple, 2 miles 15 chains, EPSOM RACES, by "Aintree."

4.5 p.m.—HARRY SHUGG'S BAND: Selection, "Dance Music."

4.10 p.m.—Description of KING'S CUP RACE run at RANDWICK RACE COURSE, SYDNEY, transmitted from Randwick.

4.16 p.m.—FROM THE STUDIO. HARRY SHUGG'S BAND: Selection, "Comic Opera."

4.30 p.m.—Description of Epsom Handicap, 1¼ mile, EPSOM RACES, by "Aintree."

4.35 p.m.—HARRY SHUGG'S BAND: Selection, "Popular Melodies."

4.45 p.m.—Weather reports.

4.50 p.m.—Description of Ninth Annual Military and Athletic Sports at the Melbourne Cricket Ground.

5 p.m.—Description of Jumpers' Flat Race, 1¼ mile, EPSOM RACES, by "Aintree."

5.5 p.m.—"Herald" news service. Stock Exchange information.

5.15 p.m.—Close down.
During the afternoon the results of Woodford Club Races will be given as they come to hand.

EVENING SESSION.

6.0 p.m.—Answers to Letters and Birthday Greetings by "LITTLE MISS KOOKABURRA."

6.20 p.m.—CAPTAIN DONALD MacLEAN: The Spanish Conquests.

How the Dons discovered the Treasures of the World.

6.35 p.m.—Musical Interlude.

6.40 p.m.—LITTLE MISS KOOKABURRA:

Story for the Little Ones, "Molly's Cat, named 'White Socks.'"

Story for the Bigger Ones, "How Jock, Dick and Jim Spend a Half Holiday."

NEWS AND MARKET REPORTS.

7.0 p.m.—Sporting Results.

7.5 p.m.—"Herald" News Service; Weather

7.12 p.m.—Stock Exchange Information. Synopsis; Shipping Movements.

7.17 p.m.—River Reports.

7.20 p.m.—Market Reports by the Victorian Producers' Co-operative Co., Ltd.; Poultry, Grain, Hay, Straw, Jute, Dairy Produce; Potatoes and Onions; Market Reports of Fruit by the Victorian Fruiterers' Association; Retail Prices; Wholesale Prices of Fruit by the Wholesale Fruit Merchants' Association; Citrus Fruits.

NIGHT SESSION.

7.30 p.m.—FREDERICK CHAPMAN, A.L.S., F.G.S., Palaeontologist of the National Museum, will speak on:

"Trilobites."

Slingsby & Coles Ltd.

486 Pitt St., Sydney

UNDER CENTRAL STATION.

We are City Agents for United Distributors Products.

Headphones and Loud Speakers repaired and rewound.

DON'T READ THIS.

Unless you intend to take advantage of the greatest opportunity ever offered. It is as good as receiving 30/- for £1, yes, this is the way we give you 50 per cent. more for your money.

We have only a limited number of these sets to offer for sale, buy now and save money.

WONDERFUL PRICES!

5-Valve Toroid Receiver	£25/16/6
5-Valve Premier Reciver	£20/-/-
5-Valve Portable Receiver	£20/-/-
5-Valve "Henderson" Receiver ..	£19/15/-
3-Valve Supertone Receiver	£11/17/6
3-Valve Crossley Receiver	£11/5/9
2-Valve Supertone Receiver	£8/8/9
2-Valve Crossley Receiver	£8/6/9

All these sets are genuine, and have been used only for demonstration purposes, we are selling them as shop-soiled, each one carries our usual guarantee.

NOTE.—All sets absolutely complete, nothing extra to buy.

Cash or Terms

Why Not Have a SET BUILT SPECIALLY TO SUIT YOUR LOCAL CONDITIONS IF IT COSTS NO MORE ?

We will make a set to suit your locality, or to your own specifications for less than it would cost to buy the parts and make it yourself—and at the same time you get a professional job covered with a twelve months guarantee.

Call and let us show you how we do it, or write for a quote stating your requirements, locality and specifications, etc.

Some Standard Models:

5 Valve "Solodyne" Set, one or three dial control, in polished maple cabinet.
Price £14/15/-

5 Valve "Neutrodyne" Set, fitted as above.
Price £10/12/6

All makes of accessories and parts supplied at special low rates. Proprietary lines at advertised prices.

HAVE THAT OLD SET REMODELLED! You will be surprised to see how little it will cost to make it into an up-to-date set. We specialise in all rewiring, altering, repairing, etc. Our charges are low, and we guarantee all work for twelve months. Just 'phone us and our man will call and quote for your job.

EASY TERMS may be arranged on all payments. Full particulars on application.

COUNTRY CLIENTS.—Make use of our mail order department. We pay special attention to all country orders.

Loud Speakers, Headphones, etc., rewound and repaired at reasonable rates.

Call on us with your Radio troubles. We can help you. Advice is FREE, and a pleasure.

Call, Telephone or Write to

R. W. PATTERSON, RADIO ENGINEER

90 PITT STREET, SYDNEY (Near Martin Place)

Phone B2129

12 ISSUES DELIVERED POST FREE for one year

13/-

"RADIO" is the only reliable and up-to-date technical wireless journal in Australia. Latest amateur experimenter news, short stories, topical articles. Finely printed, profusely illustrated.

RADIO

IN AUSTRALIA & NEW ZEALAND
Incorporating "Sea, Land and Air".

SUBSCRIPTION FORM

To the Editor "Radio," 51 Castlereagh Street, Sydney.

Please forward "Radio" for a period of

..... for which I enclose

..... for .....
(Add Exchange to Country Cheques.)

Name .....

Address .....

Subscription Rates: 12 months (12 issues), 13/- post free; 6 months (6 issues), 6/6 post free.

52 ISSUES DELIVERED POST FREE for one year

13/-

"WIRELESS WEEKLY" gives you the complete broadcasting programmes from every important station in Australia, a week in advance, in addition to topical news and articles and a technical constructive article by a qualified radio man.

WIRELESS WEEKLY

SUBSCRIPTION FORM

To the Editor, "Wireless Weekly," 51 Castlereagh Street, Sydney.

Please forward "Wireless Weekly" for a period of

..... for which I enclose

..... for .....
(Add exchange to Country Cheques.)

Name .....

Address .....

.....

Subscription Rates: 12 months (52 issues), 13/- post free; 6 months (26 issues), 6/6 post free.

Nature has fashioned many curious things in order to people the earth and sea, but none, perhaps, more curious and wonderful than the crustaceans that we call trilobites. These three-lobed animals were once living in every sea, but are now all extinct. Their remains often occur in stone quarries, clay pits and even on slabs of slate, and in this talk some localities in Victoria will be mentioned where their many-jointed and petrified bodies may still be found.

7.45 p.m.—DR. J. A. LEACH, will speak on: "Lories."

8.0 p.m.—R. RAWSON will speak on: "Esperanto."

8.15 p.m.—Birthday Greetings and Programme Announcements.

". . . The 'voice' of that fitful song sings on and is never still." (Longfellow)

8.16 p.m.—PRAHRAN CITY BAND: Valse, "Casino Tanze" (Gunge).

8.26 p.m.—ROY GALLOWAY, Baritone (by permission J. C. Williamson, Ltd.): "Selected."

8.33 p.m.—PRAHRAN CITY BAND: "Nevada" (Nicholls). March, "Blencathia" (Rimmer).

8.40 p.m.—EILEEN CASTLES, Soprano: "Porgi Amor" (Mozart). "Elegie" (Massenet).

8.47 p.m.—PRAHRAN CITY BAND: Selection, "Melodious Memories" (Rimmer).

MOTORDROME.

8.57 p.m.—Description of Events at the Motordrome, by "Olympus."

FROM THE STUDIO.

9.7 p.m.—THE STATION ORCHESTRA: "Moonlight Sonata" (Beethoven). "Reconciliation" from the "Ballet, Les Millions D'Arlequin.

9.17 p.m.—BERYL HAYDEN, Soubrette (by permision J. C. Williamson, Ltd): Selected.

9.24 p.m.—PRAHRAN CITY BAND: "My Blue Heaven" (Donaldson). "Minuet in G" (Beethoven).

STADIUM.

9.30 p.m.—Description of to-night's Stadium Event.

FROM THE STUDIO.

10.0 p.m.—THE STATION ORCHESTRA: Suite, "Songs of Italy" (Lohr).

10.10 p.m.—FRANK AND FRANCIS LUIZ: Duet, "Hula Maid." Steel Guitar, "Three O'Clock in the Morning." Song, "Kuu Ipo." Duet, "My Honolulu Hula Girl."

10.22 p.m.—PRAHRAN CITY BAND: Overture, "La Gozza Ladra" (Rimmer).

10.37 p.m.—THE STATION ORCHESTRA: "Berceuse—from Jocelyn" (Godard). Tango, "El Amante" (Thos Allen).

10.44 p.m.—BERYL HAYDEN, Soubrette: "Selected."

LATE SPORTING RESULTS.

10.50 p.m.—Late Sporting.

11.0 p.m.—OUR GREAT THOUGHT:

Many and many a man has been ruined by his memory. So has many a firm. So has many a nation.

It is a fatal thing to make the Memory the Prime Minister of the Mind.

Cultivate your memory—yes, go as far as you can; but NEVER REMEMBER A THING THAT OUGHT TO BE FORGOTTEN.

DANCE MUSIC.

11.1 p.m.—THE VAGABONDS.

11.40 p.m.—GOD SAVE THE KING.

ADVERTISING AUSTRALIA.

Our Radio Reaches U.S.A.

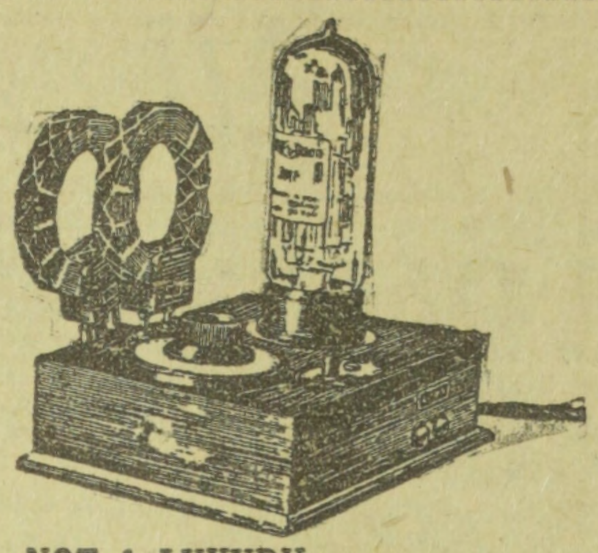
TRAVELLERS have often remarked on the absence of Australian news in American newspapers, indeed, in neswpapers all over the world outisde Australia, and this lack of publicity has been the subject of much lamentation.

Recent broadcasts from Australia to America, where the Australian programmes have been re-broadcast, however, have not only brought Australia prominently before the minds of many thousands of American listeners, but the newspaper press of the United States has given Australia columns and columns of advertisement on this subject. By last mail, cuttings from 98 newspapers were received in Sydney, all describing the broadcasts and incidentally bringing Australia prominently before the minds of millions of readers. The clippings included extracts from papers like the New York "Times," "Herald-Tribune," "Journal," "Telegram," San Francisco "Chronicle," "Minneapolis "Tribune," Boston "Globe," St. Paul "Dispatch," and Pittsburg "Post." A typical report is that of the New York "Evening World," which starts off with double column headings: "Australians' Radio Music in Springtime," "Americans hear it over Radio in Fall." "Our breakfast time programme puts Sydney to Sleep."

The report concludes with the paragraph: "Just before the sign-off at 11.30 Sydney time, a male quartette sang, 'The more we are together, the merrier we'll be,' and in that song forecast what may ultimately prove the highest mission of radio, the promotion of international understanding."

3LO'S MORNING SESSION.

Punctually at 11 a.m. the queen in the kitchen, eating bread and honey, the king in his counting house, counting out his money, the maid in the garden, hanging out the clothes, the children in the playground, too (we may suppose), will in future be delighted, amused, instructed, soothed edified and exhilarated by 3LO's morning session. Designed primarily for the ladies of the house, this session will at times overflow into all hearts. There will be music of a diversified character, talks on subjects of domestic concern, and things that have been said of afternoons, and things not better left unsaid, will be more elaborated, far from the madding crowd's ignoble strife at races and other aggravating afternoon fixtures. Those things that are said with intent less of sound than of meaning will furnish up the ante-meridianal atmostphere until the stroke of noon brings with it somewhat of regret that another perfect wireless day is well nigh half done.



NOT A LUXURY
BUT A NECESSITY OF LIFE

All our sets are built and designed on this principle. They therefore deserve the name given to them by the public itself.

Loewe Popular Sets

You get a perfect set operating without disturbance, consuming on a minimum of current, and one that can be handled even by a child.

Ask your Radio dealer to demonstrate one of our sets—there is no obligation on your part.

LOEWE RADIO

4, Fountayne Road,
Tottenham, London, N 17

Manufacturers
Products Pty. Ltd.

IMPORTED SETS

Agents for all Styles of Radi Products, including Clyde Batterie

ARMAX BATTERIES

Elec. Meter Mfg. Co. "Emmco"
Renrade Condensers, Leaks.

ASTOR SETS
G & R SETS

Airzone Coils and Loops.

BALDWIN SPEAKERS

Neutron Crystals
Prompt shipments from Sydney

Surplus Stocks sold Interstate.

H. J. HAPGOOD
Challis House, Martin Place
SYDNEY

Tel.: BW 1328

All About Atmospherics

SINCE the beginning of the world, aether waves of the order of length used in wireless telegraphy have been and are continuously traversing its surface, but have only been noticed since the inception of wireless telegraphy.

They are generally known as "atmospherics," "strays," or "X's"; disturbances known as "statics" are a special variety. Atmospherics have a very variable but generally long wavelength. Their damping is heavy, and their shock severe.

When they encounter an aerial, they set it oscillating at its own natural frequency, and are consequently very difficult to cut out; they may be reduced in strength by the use of some limiting or balancing device, or by a counterpoise, and as they are non-musical, they can be overlooked if they are not too severe.

Hissing, an almost continuous noise, especially marked during snow or when heavy clouds are passing over the aerial, is one kind of atmospheric.

Then we have clicks, or very short noises, and finally there are grinders, which is well described by its name.

In general, atmospherics appear to be more frequent and severe in summer than in winter.

Actual measurements in England indicate a maximum in June, and a minimum in March. In the East Indies the maxima occur during the changes of the monsoon. A minimum occurs during the N.E. monsoon, and a less marked minimum during the S.W. monsoon.

As a rule, atmospherics are worst from just before sunset till about 1 a.m., after which they gradually decrease. This effect varies, however, in different parts of the world.

Atmospherics which have a distant origin, as opposed to those generated locally, appear to come from the direction of the equator. More locally, atmospherics appear to have their origin in mountainous regions.

Atmospherics have either the nature of a shock; i.e., they produce in the aerial an E.M.F. (Electro Motive Force) of short duration, reaching its maximum in a very short time, or else of a band of frequencies which it is possible to eliminate by selective tuning. The former is a similar type to that which would be produced by the sudden discharge of a condenser.

In general, the severity of atmospheric interference increases with the length of the wave to which the receiving set is tuned.

On the other hand, observations made at Honululu showed that stations working on a short wavelength experienced numerous and violent disturbances, while neighboring ones on longer waves were less troubled.

Experiments were carried out by Mr. Watson Watt in England actually to measure the shape and duration of the discharges. They were found to fall roughly under two headings—aperiodic, and semi-aperiodic. The former were undirectional, and the latter had a second weaker impulse in the opposite sense to the first half cycle.

One class of atmospheric disturbance is due to lightning flashes of local origin.

As regards those coming from a distance, however, which occur even when the sky is perfectly clear, it has already been pointed out that the atmosphere is by no means at a uniform zero of potential, but that large patches of it accumulate excess negative and positive charges.

In addition to ionization by the sun's rays, local action by wind and rain may also produce similar results.

For example, when a wind blows through cloud or rain, both are electrified—the water drops positively, and the air negatively; when this occurs on a large scale several thousand feet above the earth's surface, in conditions favourable to the formation of large clouds, we get "thunder weather."

Again, evaporation is always accompanied by electrification of the liquid and vapour, so that in the tropics there is always a disturbed electrical state.

When again, a wind blowing over a sandy or dusty plain raises clouds of dust, there is intense electrification. The potential of the dust, as a system of particles, is raised by their separation. The necessary energy is supplied by the wind.

Both positive and negative ions are formed which collect on the clouds and earth respectively, leading, when the potential difference is high enough, to lightning discharges between them.

Statics are a special variety of atmospherics, and are due to electrical charges accumulated by the aerial like a lightning rod. A charged cloud approaching an aerial produces by static induction a charge of opposite sign in the aerial.

For this reason, it is always inadvisable to leave any aerial insulated from earth by a receiving condenser, as a charge is liable to accumulate and puncture the condenser, by sparking through the insulation.

THUNDER AND LIGHTNING.

AS I write, thunder and lightning are prevalent, which reminds me of the great dangers of unearthed aerials during storms. Whilst lightning storms are on your aerial should be connected direct to earth, otherwise the former may attract lightning, which in its endeavour to seek earth quickly, will damage your set and anything else that is conductive, or even semi-conductive, such as a wet house. When the aerial and earth are connected, the high electrical charge has an easy path to earth, and this functions in precisely the same manner as the lightning arrestors we see on the top of large buildings and steeples. During a recent storm in England, 2LO closed down in order to protect the plant. A station that did not close down was struck whilst transmitting and great damage was done. The same thing happened during a storm in Sydney a few months ago. 2UW was struck, and the charge accumulated on the aerial, together with the charge from the lightning, burnt out a costly transmitting valve. A listener who was following the transmission noticed how the station suddenly was cut off, and rang up to find out the cause. Until then 2UW were not aware of the calamity. Broadcasting stations in the majority now have a lightning arrestor, which consists of two metal plates placed a fraction away from each other. The aerial is connected to one side, and thence to the aerial terminal of the set, whilst the earth is connected to the remaining plate, and from there to the earth terminal of the receiver. Any charge collected by the aerial travels down the lead in, and in its endeavour to find the quickest path to earth, jumps across the tiny gap of the arrestor, and beyond a sharp crack on the 'phones or speaker, no other intimation of the averted calamity is noticed. Unless you have one of these arrestors installed, you should never risk listening during a storm. Always leave the aerial and earth connected when you leave for work, or else instruct your wife or someone else in the home what to do should a storm commence. Many sets were completely destroyed in London recently following a storm.

WHEN NEXT it is raining, note the nearest spot in your garden to your set where water is accumulating. This is where your earth should be fixed for best results. A pipe to which your earth lead is well soldered should be driven several feet into the ground at this spot.

All Readers' Queries Answered Here

F.R. (RANDWICK): Apparently you are having trouble with your Selectrex Four in neutralising the valves you are using in the R.F. stages. It would be far better to use the 199 types you have as spares for this purpose. The fact that your dial settings vary slightly on certain stations is not serious, and as the centre dial shows the highest reading, this means that slightly more inductance is required in this circuit. Try adding one or two turns to the secondary of the second radio frequency transformer. The right hand condenser which is controlling the detector circuit should tune sharply in comparison to the other two, controlling the R.F. stages. I thank you for your suggestion of an exchange dept. for readers which will be given due consideration. A C battery may be included in your receiver in the usual way, by breaking the connection from the filament terminal of the secondary of your last inter-valve transformer, and connecting the negative terminal of a 4½ volt battery to this. The positive terminal of the battery connected to the negative A supply.

Y.D.R. (DUARINGA): 2NO advises you personally regarding the proposed alteration to the "Go-Getter" short wave receiver. I do not recommend this receiver for use on the broadcast band, as it stands, as it is essentially a short wave receiver alone. You may build a receiver, however, for the broadcast band, using precisely the same circuit diagram, but with higher values of capacity and inductance accordingly. This simply resolves itself into a straight three circuit tuner more commonly known as "The Old-Reliable."

E.P. (WAVERLEY): The Emmco Super Power B Eliminator will be suitable for use with the Elstreflex Two, but it may be necessary to have an indefinitely variable resistance in the voltage output. This may be effected by means of a Bradleyohm 10.

SOLO (CONCORD WEST): I thank you for pointing out the discrepancy in the circuit diagram you refer to. You were correct in following the back of panel diagram. The slight alteration you have made should not have any effect in the operation of the receiver.

W.T. (SOUTH GRANVILLE): A Reflex receiver which will particularly suit your requirements is the W.W. Threeflex, published in "Wireless Weekly," 24/2/28. You may construct this omitting the second audio stage if required, but this stage is recommended for loud speaker results on interstate stations. Exceptional results were obtained with this receiver.

E.C. (KANGAROO VALLEY): From the description of the noises you experience in your receiver and the fact that your B batteries have been in use for nine months, it is reasonable to expect that the batteries are due for renewal. Discharged or partially discharged B batteries will set up a high internal resistance with a consequent crackling noise in the receiver, together with very poor reception.

G.H.B. (HURSTVILLE): The reason that your "Nighthawk Four" receiver will not tune in 2UW is because your valves of inductance-capacity are too high. This is obvious owing to the excellent results you are getting on all stations above the wavelength of 2KY. Reduce the number of turns on your secondaries, by about 5, but this is determined best by experiment. Remember that after having done this that your dial readings will not be the same as was previously the case. You will soon be able to find each station again and re-calibrate your receiver.

A.W.S. (WINGHAM): Your Harkness Reflex certainly seems to be unresponsive owing to defective valves. If by any chance a dull filament valve of the .06 type is considerably overloaded it means that the filament will lose its emmission and that the valve will become inoperative. Rejuvenation is not always effective if the overload has been very heavy. I do not know of any adaptors on the market to enable the usage of UX 201A valves with the old type UV 199 socket so that the only recourse is to replace with UX sockets.

W.D. (ENMORE): Home constructed coils will work quite satisfactorily with the Browning Drake circuit, but these require careful attention with regard to the primary. This must be slot wound for best results, and should be arranged so that the last turn of the primary winding is opposite to the first turn of the secondary. The aerial coil should have 50 turns and the R.F. transformer primary 25, with the secondary of 50 turns. It is really not worth while undertaking the construction, as there are most efficient Browning Drake kits obtainable on the market at a price available to everybody. Noteably of these, the Radiokes 1928 kit is to be highly recommended.

W.W.S. (DRUMMOYNE): As you state, that the detector valve of your Selectrex Four makes no difference whether in or out of the set you may expect to find that you have omitted the grid return in this circuit. This is one of the commonest faults with a beginner in set construction. When you have ascertained this, try changing positions of your valves for best results.

QUERIES

Queries must be brief and to the point.

Each enquirer is limited to three questions and where possible explanatory sketches or diagrams will faciliate the diagnosis of your trouble

S.B. (PARKVILLE): The description of the coils used with the short wave adaptor published in "Wireless Weekly" for September 9th, will be quite suitable for use with the adaptor described in February "Radio."

H.B.T. (HORNSBY): The layout you have adopted for your Bayer coil kit is quite in order and should be efficient. If you are obtaining such good results there is no benefit to be obtained by altering this layout. When a receiver is working well and giving good loud speaker results on interstate stations, it is advisable to let well alone.

A.E.C. (MAYFIELD): You certainly seem to have been the recipient of a peculiar jumble in the old type English constructed receiver you have obtained. It would appear from your description that it was designed to have three valves in shunt as the detector valve. This was common practice in England in the early days of broadcasting, and was used mainly owing to the inefficient valves then obtainable. The 300 turn loading coil was provided for the reason that 5XX, which is now Daventry, operates on a 1600 metre wavelength. My advice to you is to entirely dismantle the components and use such parts as may be possible in a modern instrument.

G.R.B. (HOLBROOK): Many descriptions of short wave receivers and adaptors have appeared in "Wireless Weekly" and "Radio." An adaptor will be quite suitable for use with the D.J. Standard Five provided that you first remove the R.F. valves. Remember that a short wave adaptor only utilises the audio amlifying portion of any broadcast receiver.

D.H. (WAHROONGA): A cheap chemical rectifier may be constructed by the use of pint jam jars with elements of pure aluminium and lead immersed in a solution of borax and distilled water. The elements should measure 5 inches by 1½ inches, and should be immersed in the solution without touching the bottom of the jar. A rectifier of this type should be used in such a manner that it passes no more than 40 volts per cell at the most. You will find full description on rectifiers in the Radio Amateurs' Handbook, obtainable at Swains, Ltd., Pitt Street, Sydney. This book contains a wealth of information and is published by the ARRL. Other readers, please note.

G.G. (NANANGO): The Philips A415 valve will be found particularly efficient in the extraordinary one valve receiver. Alternatively try an Osram DEL410, which is also a 4 volt valve of excellent characteristics.

4ZI (NORTH IPSWICH): Your Solodyne is apparently giving trouble from the symptom known as overlap. This is due to incorrect potentials on the detector valve. Try different values of grid leak and condenser together with alteration of the B battery voltage on the plate of a detector valve. As you notice the trouble particularly on 5CL it may be that your aerial earth system has a harmonic at this particular wavelength, which would greatly accentuate the effect. If you are not using a series condenser in the aerial circuit, try this, and adjust for the best position.

J.G.S. (LINDFIELD): Your query appealing for a receiver giving good selectivity, together with reliable interstate reception prompts me to mention the Peridyne Five which is appearing in "Radio" for April. This receiver will also be described in "Wireless Weekly" in the near future. I know of no five valve receiver which is capable of better results than the Peridyne from personal experience.

W.M.R. (KOGARAH): There is only one solution from your description of the operation of your Browning Drake receiver, and that is that the R.F. stage is not neutralised. When the two condensers coincide in capacity the plop you hear is the resonating of the R.F. and detector circuits, which pulls the R.F. circuit into oscillation. Make sure of this neutralisation and your trouble will disappear. The valves you are using are quite suitable and you should have no trouble in neutralising the A410. You can obtain a ballasting resistance suitable for supplying the filament voltage and current for two B406's.

G.I. (GRANVILLE): If your Elstreflex Two is giving good results I do not advise you to alter your aerial system. A counterpoise is sometimes useful as an aid to selectivity, but this cannot be looked upon as an improvement over a good earth connection for long distance reception.

J.H.M. (HENTY): I am pleased to know that you located the trouble with your "Go-Getter" short wave receiver. The best source of information for the qualification necessary to pass the Amateurs Transmitters' Examination will be found in the Radio Amateurs' Handbook published by the American Relay Raido League. This is obtainable from Swains, Ltd., Pitt Street, Sydney, but, on the other hand, you may obtain it direct by writing to the ARRL headquarters, Main Street, Hartford, Connecticut, U.S.A.

SHORTWAVE (LEURA): A well-constructed plug in adaptor used with the amplifying portion of a good broadcast receiver is equal to a 3 valve short wave receiver in performance. The adaptor should give good results on overseas international broadcast stations. At the same time, I personally prefer a well-designed short wave receiver in preference to the combination.

All Readers' Queries Answered Here. *continued.*

H.S.G. (CREMORNE): An excellent receiver for your purpose both for Sydney and the country is the W.W. Reflex, published in W.W. Feb. 24th 1928. If this is to be used in the country, the aerial should have an overall length of 60 feet, and at a good elevation. The Threeflex will give excellent loud speaker results on all stations, if used with the correct valves.

W.H. (KURRAJONG): The reason for the bunching of all the stations at the top of the dial with your Pentatron Reinartz, is due to the use of too low a capacity condenser, tuning the grid circuit. This should have a maximum capacity of .0005 mfd. when used with the Radiokes Reinartz tuner. It is advisable to use condensers of the straight line frequency type. This gives a corresponding ratio of increase in wavelength to the capacity.

CONSTANT READER (CAMDEN): If you are sure that the wiring of your Harkness Reflex three is quite in order, yet the detector valve fails to light when the set is switched on, you may expect to find the trouble either in the valve itself, or in the valve socket. Very often, a socket may make poor contact under the base with the valve pins. The Igranic transformers you have are marked after the English style, namely I.P. O.P. I.S. O.S. The terminal I.P corresponds with terminal P of the usual transformer and the terminal O.P. with B positive. Terminal O.S. corresponds with the grid terminal of the secondary and terminal I.S. with the filament negative terminal. Other readers please note.

D.X. TROUBLE (MANLY): The use of a short wave adaptor for one who is unaccustomed to short wave reception is apt to be confusing for a while. An adaptor should be looked upon as a potential short wave receiver, and consequently should be constructed with all the care usually taken with the complete receiver. The object of an adaptor is simply to use the audio amplifying portion of an existing broadcast receiver in conjunction. The correct B battery voltage for the detector valve in the Adaptor must be used together with the correct value of grid leak. If oscillation is sudden with "overlap," this will render the tuning of a distant short wave telephony station either difficult or entirely impossible. A very fine tuning control must also be provided. It will not make any difference by soldering to the opposite sides of the lugs on the coil mounting you are using. If the adaptor is properly constructed, with the rotorplates of the condensers grounded little or no body capacity should be present. The high frequency whistle you hear is apparently due to audio frequency feed back from your broadcast receiver. This may be counteracted by the insertion of small R.F. chokes in the leads from the adaptor.

W.G. (SINGLETON): Apparently, the failure of your Browning Drake receiver is due to a broken down intervalve transformer. This is most likely in the first stage. I recommend Messrs. Colville Moore, Rowe St., Sydney.

W.A.C. (ARMIDALE): P.C.J.J. is the Laboratory short wave station of Messrs. Philips Lamps Ltd., in Holland. The wavelength used is 30.8 metres. 2NO thanks you for endorsement of the "Go-getter" receiver.

D.E.C. (HABERFIELD): The dead spots encountered in tuning a short wave receiver are due to resonance with harmonics of the aerial earth system used. This effect may be overcome by using a capacity coupling to the aerial, consisting of two small discs arranged so as to be variable in the form of a small condenser placed in the aerial lead. A Pilot Neutralising condenser serves this purpose admirably. If you are using inductive coupling, this should be reduced with regard to the number of turns, and coupled loosely to the grid coil. This is one advantage of a variable coupling to the aerial coil in a short wave receiver. The dead spot effect is also sometimes overcome by the use of a suitable detector valve, such as the Philips A415. I also recommend the Te Ka De, VT128 as a short wave detector.

S.C. (REDFERN): It is a well-known fact that in various parts of the country of N.S.W. reception is far superior to Sydney. Many readers obtain astounding results in the country, but if the same receiver is used in Sydney, interstate stations are difficult to tune in. This is mainly due to the close proximity of powerful local stations and a resulting effect of shock excitation. A wave trap may assist you with your Browning Drake. Make sure also that your aerial is not too long. This should be no longer than 50 feet from the aerial terminal of the set.

C.J. (BRAIDWOOD): 100 turns of 36 gauge enamel wire on a one inch former should cover the wavelength range you require with a .0005 variable condenser. You may possibly obtain the 1200 ohms. potentiometer of any BTH valves obtainable in Sydney.

C.L.P. (LIDCOMBE): You will find a circuit diagram of a 2-valve transformer coupled amplifier in "Radio" for March with the 1928 Browning Drake article.

N.F.J. (BRISBANE): The values of capacity and inductance for home constructed coils for short wave reception are given in the "Go-Getter" short wave receiver article in "Radio" for December last.

A.L. (LEICHHARDT): If you find no decrease in volume when removing the detector valve from your Three-Valve Harkness Reflex, this points to a defective valve. Unfortunately you do not mention what valves you are using. An eliminator will work satisfactorily with this set.

E.A.R. (NUNDAH): You are certainly obtaining excellent results with your extraordinary one-valve receiver. The only way to increase the selectivity of this set will be to slightly reduce the length of the aerial. The capacity of the condenser of which you enquire is .00025 mfd. I shall be pleased to have your idea on obtaining selectivity when you have tested it.

F.J.B. (CULGOORA): It is obvious that you are using too many turns in your grid and tickler coils in your short wave adaptor for wavelengths from 14 to 90 metres. Use a coil of 4 turns for the grid and three for the tickler to cover 12 to 28 metres and 8 for the grid and 4 for the tickler to cover 29 to 45 metres. A combination of 20 and 10 will tune from 45 to 90 metres.

G.R. (REDFERN): You may use your own discretion in the spacing of the coils for the Selectrex Four. Normally, coils L1 and L2 will be spaced half an inch and L4 and L5 a quarter of an inch.

J.H. (EPPING).—You will find the description of a particularly suitable wavetrap in "W.W." for March 9th. This is of a radically different type to that generally used, and in some cases is more suitable. You should receive inter-State stations quite comfortably on the headphones with the Harkness Two Valve Reflex. A short wave adaptor, used with the audio amplifier, will certainly enable you to hear signals from New Zealand and other countries. Notably of the New Zealand short wave telephony stations; 2AQ is outstanding. With quite an ordinary three valve short wave receiver he is audible at good strength in a loud speaker almost any evening. Obtain the Radio Amateurs' Handbook by the ARRL from Swains, Ltd., Pitt Street, Sydney.

BURLA (CHINCHILLA).—The loud speaker you are using with your Browning Drake receiver is of good quality, and has a reputation which is well earned. At the same time, this particular model is a little on the small side, and I advise the AR65 model.

R.C.C. (DARGAVILLE).—The gauge of wire for the coils of the Invicta Five should be 24 D.C.C. wire. If you use .00035 condensers in place of .0005, it will be necessary to increase the value of inductance by a few turns. Eight to ten turns should be sufficient. The most outstanding receiver I have used for Australian condition is the Peridyne Five, to be published in "Radio" for April and in "W.W." at a later date.

FILTER (MURGOM).—It should not be necessary to use a separate choke capacity filter with the R.C.A. 100 current speaker. I do not by any means advise the removal of the filter from the speaker. Try Warburton Franki and Co., Kent Street, Sydney, for the Generator you require. Large capacity condensers across the B battery permanently will cause a very slight drain so that it is advisable when switching off to break the circuit between these by-pass condensers and the B battery.

MATSON ACCUMULATOR "B" BATTERY

WHY NOT

Replace your Dry "B" Batteries with MATSON ACCUMULATORS. The sturdy Battery that will last you for years. Supplied with polished oak tray, fully charged ready for immediate use.

Price, 80-volts, £3/10/; 96-volts, £4/-/-.

Obtainable from THE MATSON MFG. CO., 170 King Street, Sydney.

'Phone: B 4933.

TRANSFORMERS

Built up to a specification and wound, lamination iron cut to any size from stock. Prices and estimates on application.

O'DONNELL, GRIFFIN & CO., LTD., 53 Druitt Street, SYDNEY.

'Phones: C 4545 and 4546.

WIRELESS WEEKLY

Registered Trade Mark.

Published by Arthur William Watt, of "Astoria," Kirribilli, for the Proprietors, Wireless Newspapers Limited, 51 Castlereagh Street, Sydney; and printed by Marchant & Co. Ltd., 321 Pitt Street, Sydney.

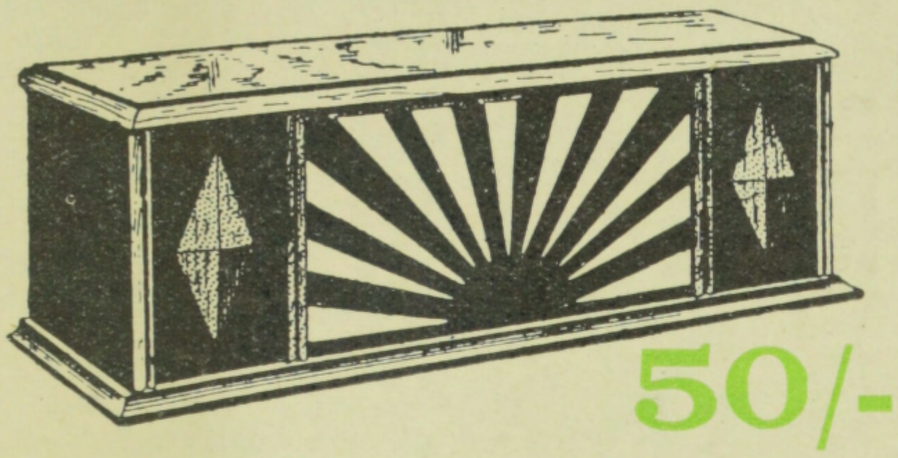
The Editor will be glad to consider Technical and Topical Articles of interest to Australian Readers. All Manuscripts and Illustrations are sent at the author's risk, and although the greatest care will be taken to return unsuitable matter (if accompanied by stamps), the Editor cannot accept responsibility for its safe return.

Subscription rates.—Twelve months (52 issues), 13/- post free. Six months, (26 issues), 6/6 post free. Single copies 3d. each, or post free, 4d. Subscriptions should be addressed to Wireless Newspapers Ltd., 51 Castlereagh Street, Sydney.

Advertising:—Our advertising representative keeps in close touch with advertisers, and he is ready at all times to supply information concerning advertising.

Agents in Great Britain:—The Colonial Technical Press Ltd., Dudley House, Southampton Street Strand, W.C.2.

"Wireless Weekly" is fully protected by copyright, and nothing that appears in it may be reprinted, wholly or in part, without special permission. The use of our articles or quotations from them for any purpose whatsoever is never permitted without our written authority.



50/-

Amplion Cabinette in Oak.
AR 100.

Outstanding Value!

The

AMPLION

Cabinette Loud Speaker

THE Amplion Cabinette is a genuine British made Amplion Loud Speaker, with all the essential Amplion features — with the Amplion reputation and guarantee behind it, offered at the ridiculously low price of Fifty Shillings. Its attractive appearance, its capability to give faithful reproduction with full volume and delightful tonal quality, make it one of the greatest radio bargains ever offered.

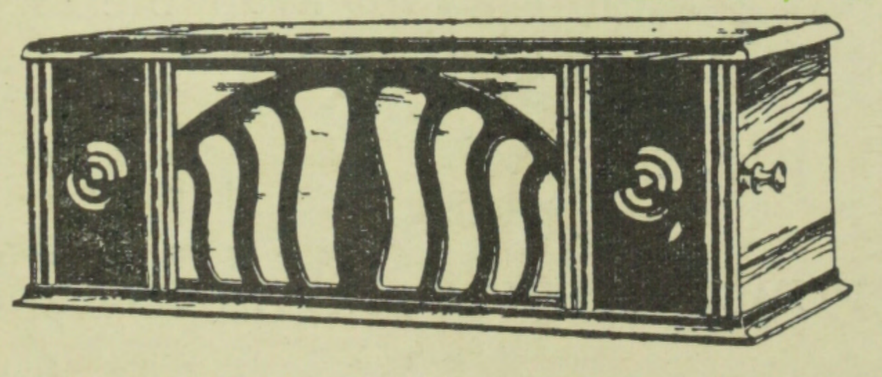
Obtainable from All Radio Dealers.

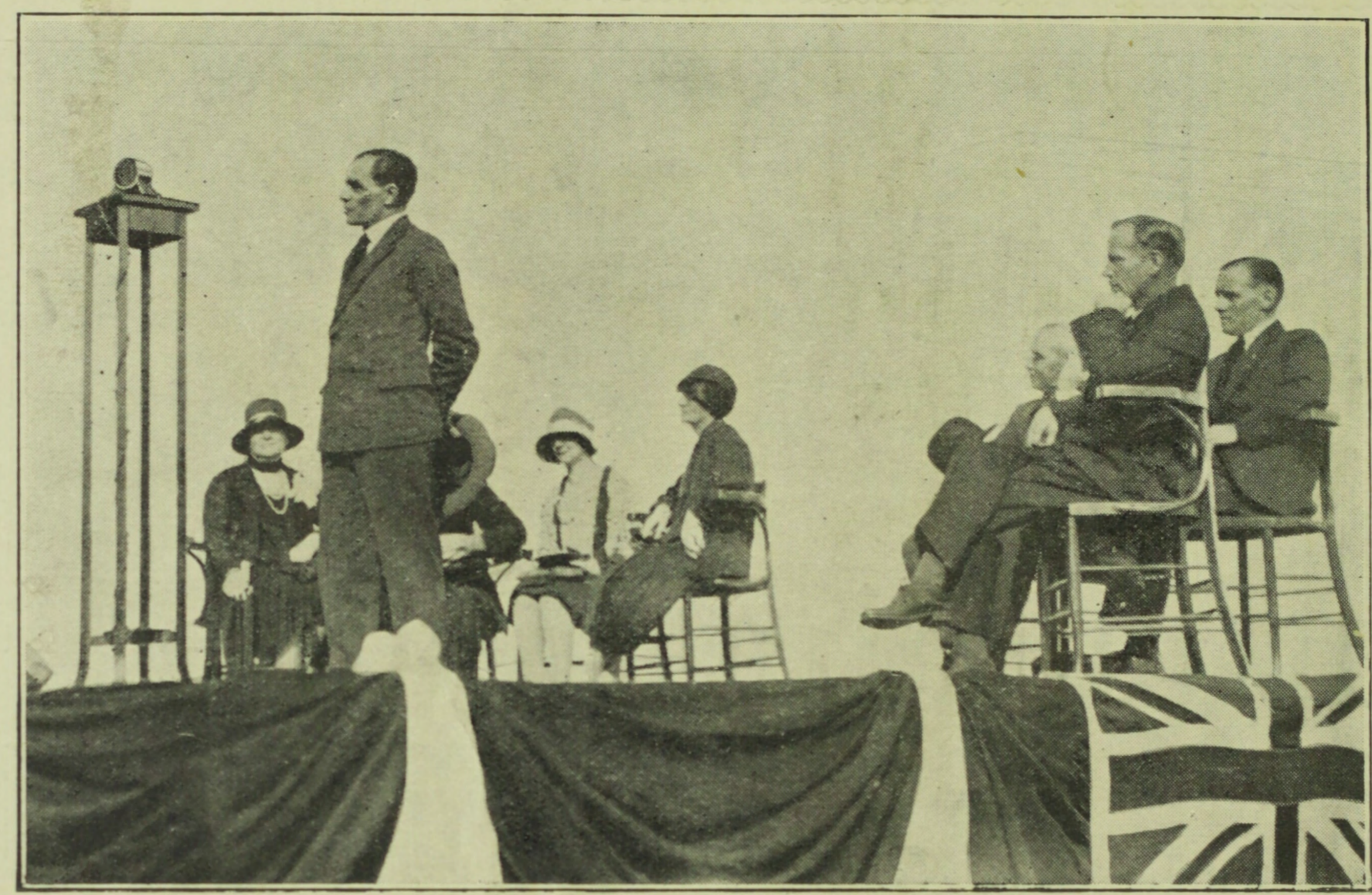
Amalgamated Wireless (Australasia) Ltd.

Wireless House, 47 York Street
SYDNEY

Amplion Cabinette in Mahogany.
AR 100M.

57/6





Hinkler responds to the Official Welcome given by the Premier, Mr. Hogan

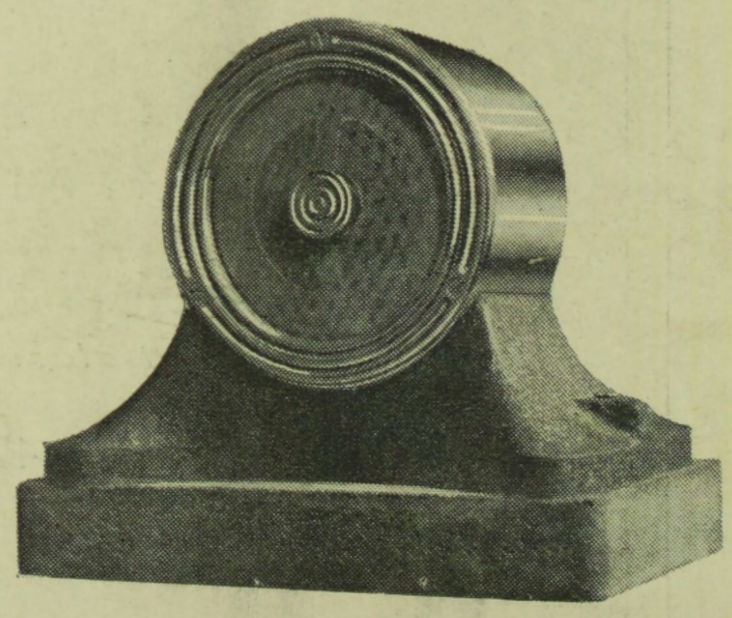
HINKLER speaks to the Multitude at MELBOURNE

and they all were able to hear every word, too. No less than twenty-nine Amplion Power Speakers were in action. Yet, so perfect is the system of amplification used in the Amplion equipment, and so efficient the microphone, that each one of these Speakers reproduced faithfully every spoken word, and even the breathing of the speakers was audible.

The Amplion Public Speech and Band Repeater Equipment, which has been used recently at all of the important functions in England, on the Continent, and in Australasia, can be hired or purchased outright. Equipment is available for addressing 100,000 persons.

AMPLION

PUBLIC SPEECH AND BAND REPEATER EQUIPMENT



The Amplion Microphone

Advertisement of Amplion (Australasia), Limited, Sydney and Melbourne.