

WIRELESS WEEKLY

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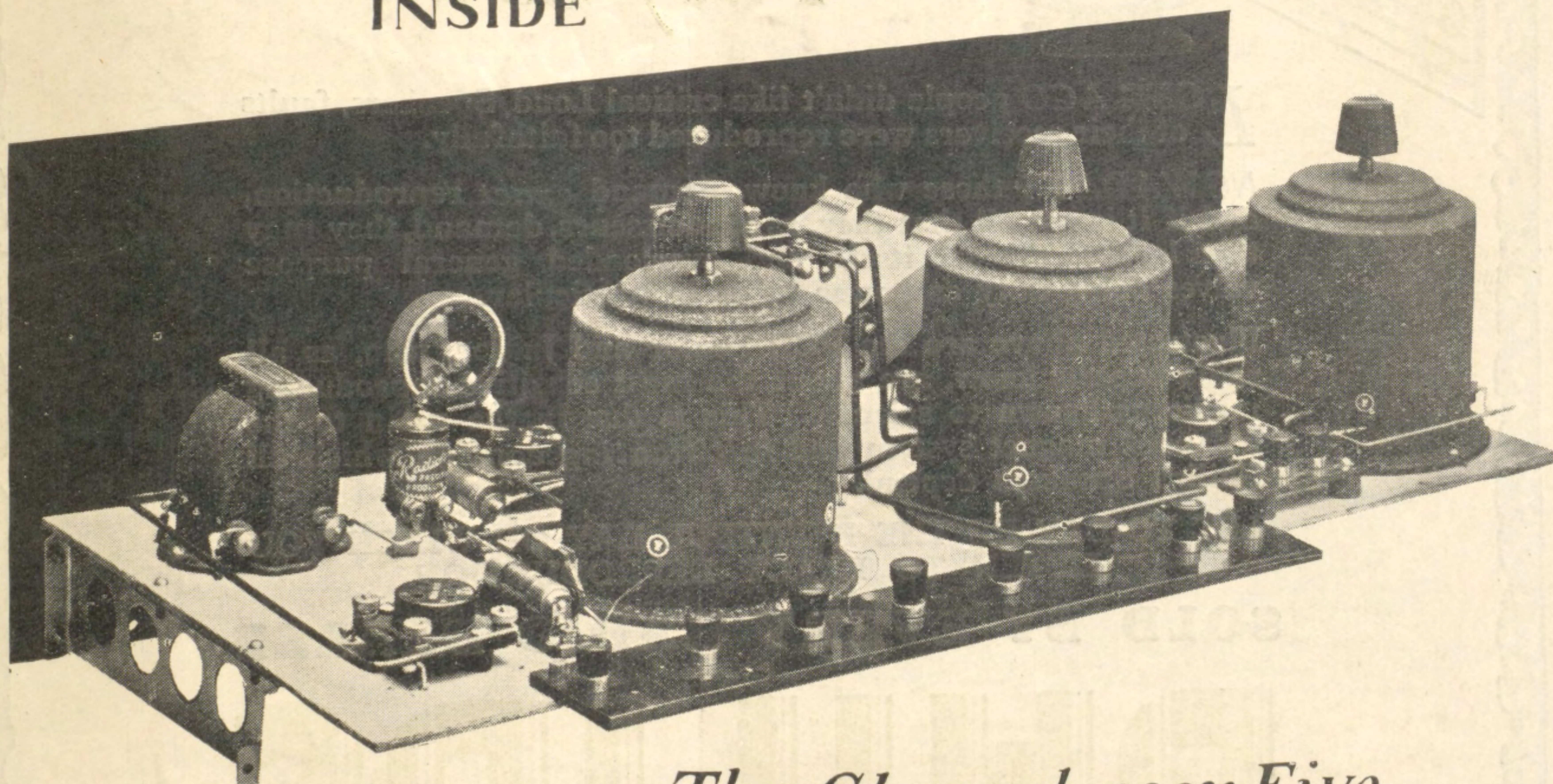
Broadcast Programmes a Week in advance

VOLUME 12

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

NUMBER 2

**NEW CIRCUIT
INSIDE**



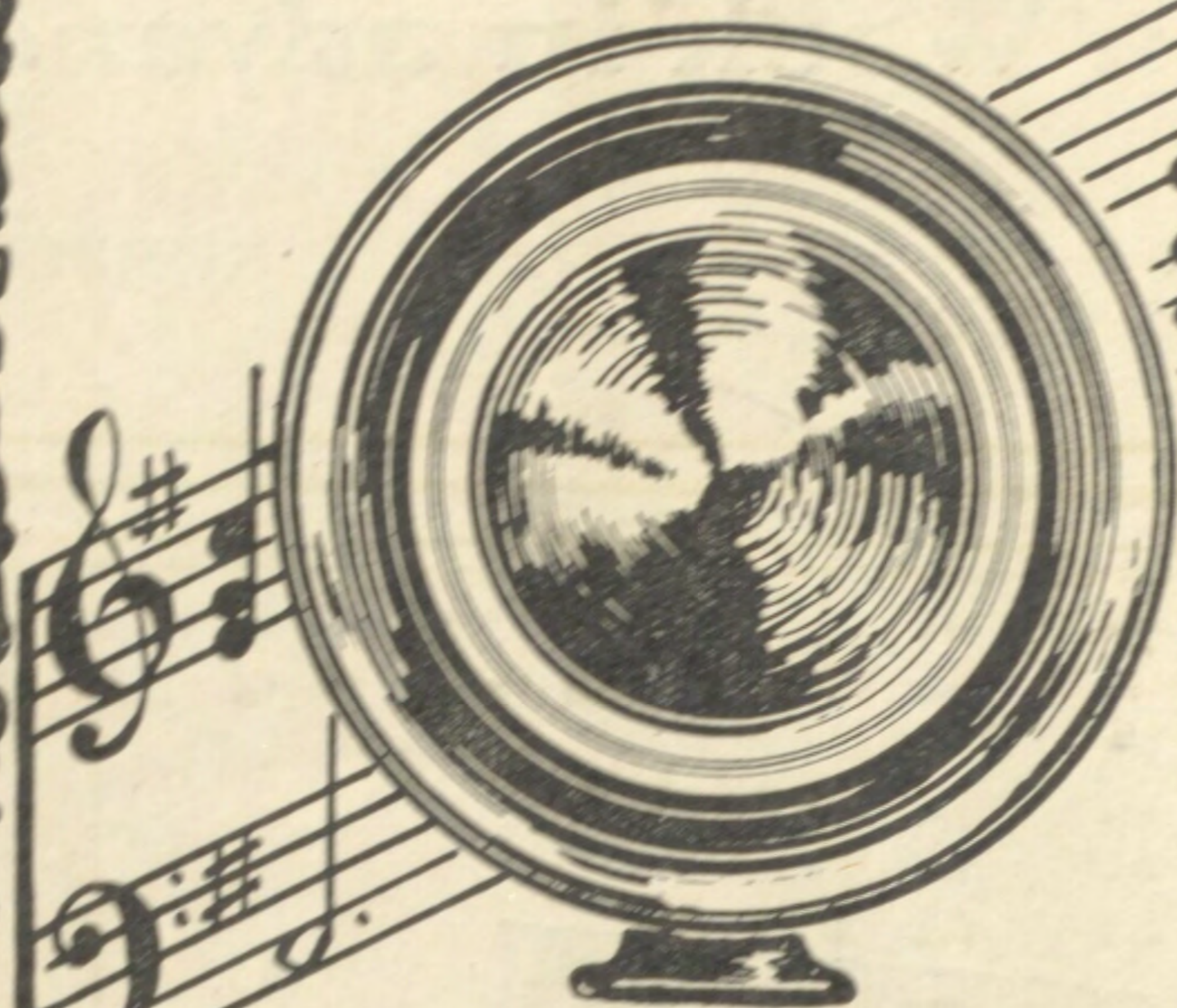
The Gloomchaser Five

Friday, May 4, 1928

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Junior Loudspeaker
£5/5/-**



**Philips
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Loudspeaker
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Illustrated above are the PCJJ Senior and Junior, who, as all radio experts know, are about the most sensitive reproducing mediums known to science. This is due in the main to the balanced magnet system and *full floating cone* on which all Philips Speakers depend.

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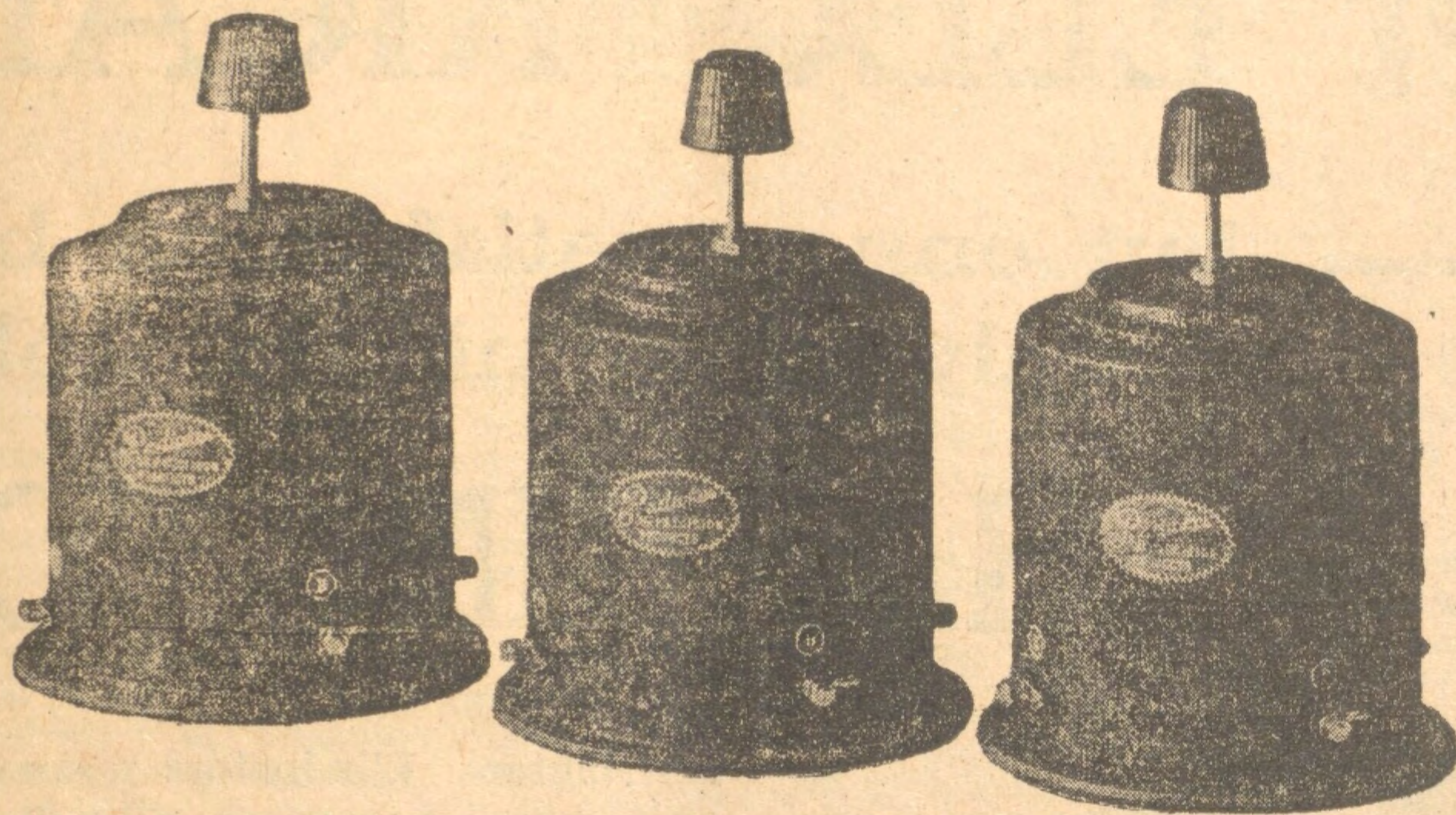
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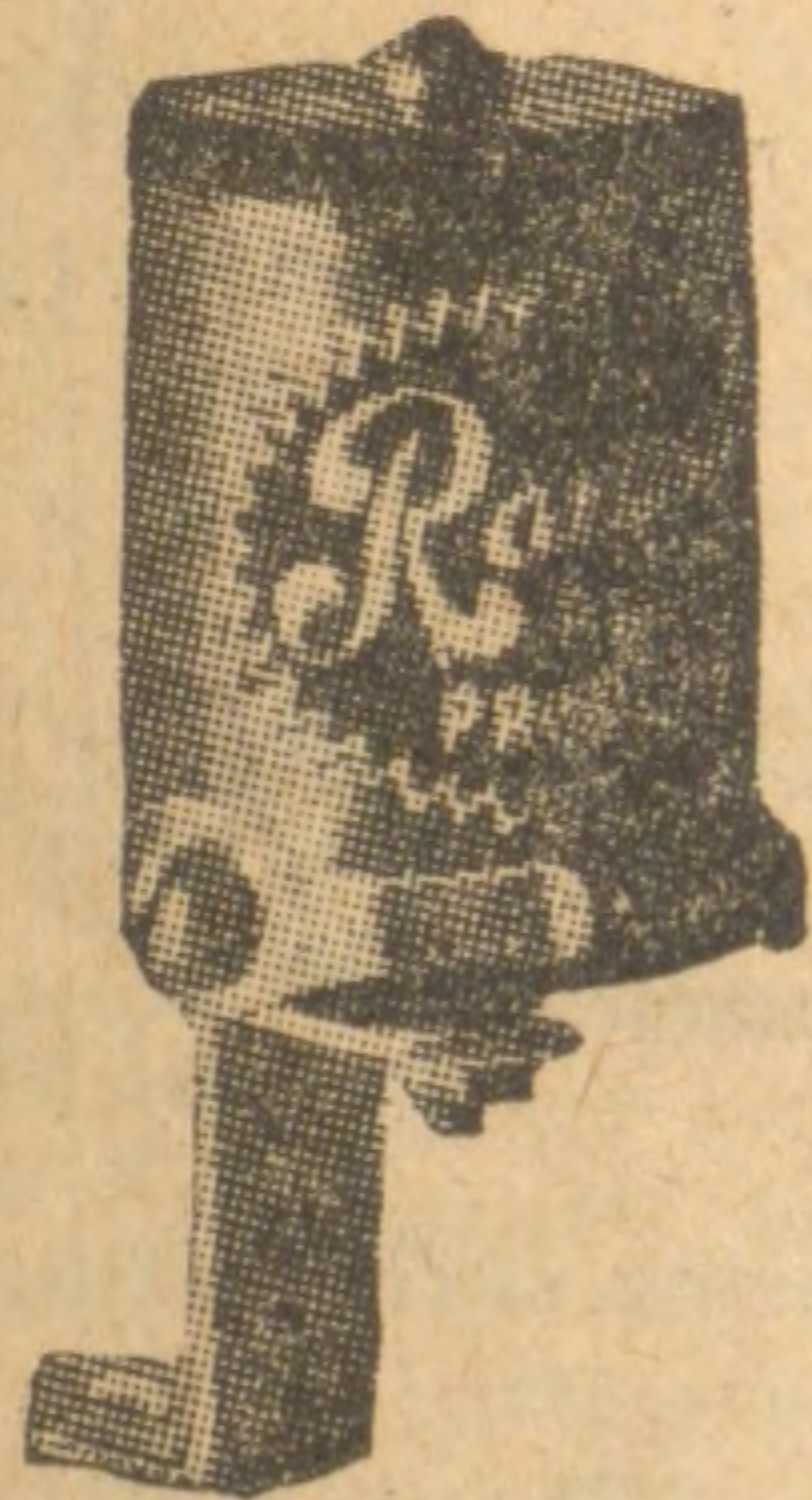
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as the GLOOMCHASER FIVE specifies



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Priced at £3/15/-, and illustrated above, this coil kit consists of three special shielded units, each comprising a R.F. Transformer and a special shield tuning device. These units are manufactured according to the best available specifications and are carried out in a true Radiokes manner. The salient points of this new and wonderful receiver, when constructed using Radiokes Components, are ease of construction, ease of operation, abnormal distance-getting properties, enormous volume, economy of operation, low first cost, and above all,
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Only by using the specified components are you able to duplicate the results of this splendid set.

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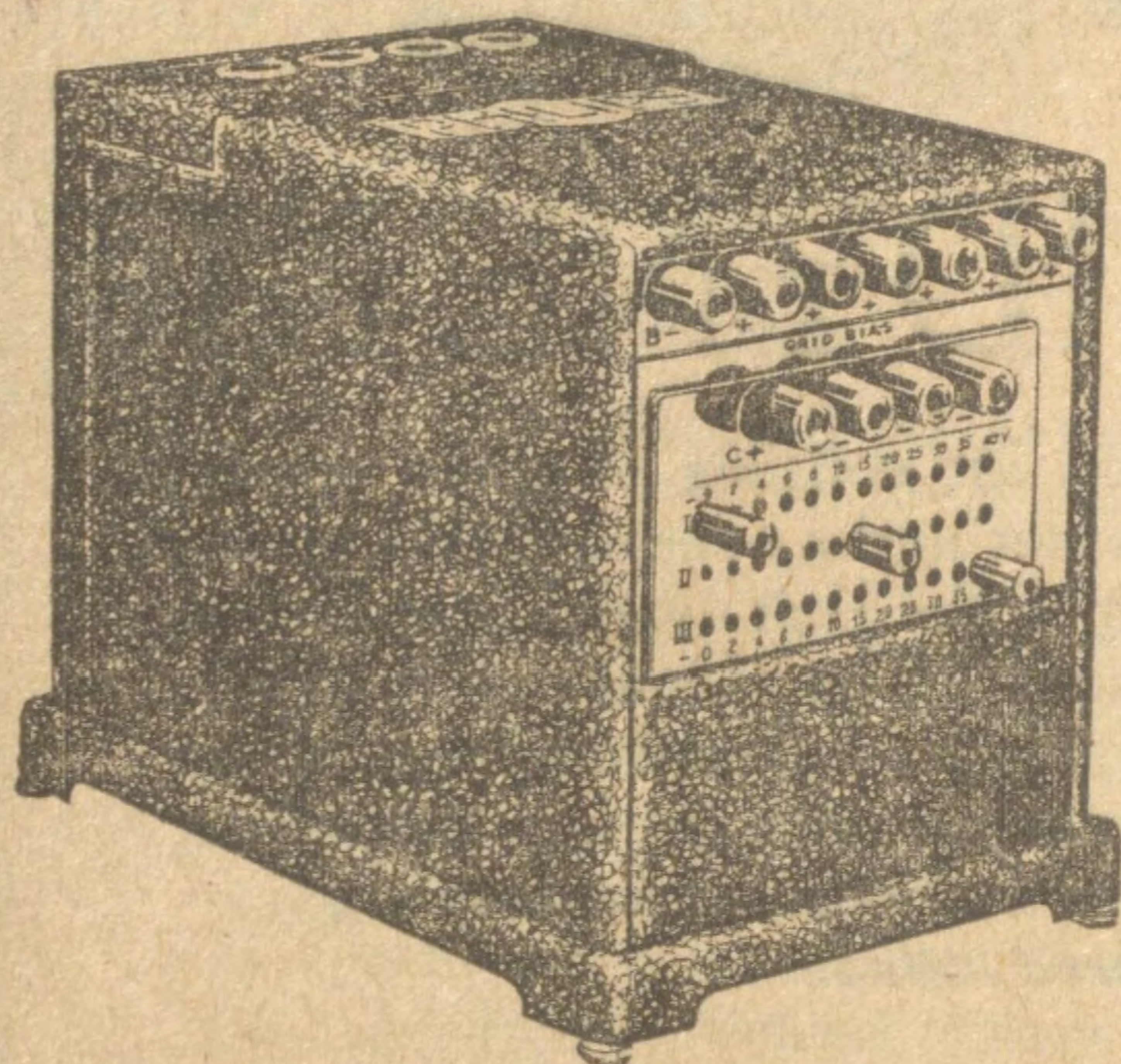
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WIRELESS WEEKLY

VOL. 12, No. 1.

FRIDAY, MAY 4th, 1928.

Broadcasting Companies Joining Forces.

LISTENERS throughout Australia are doubtless much interested in the prospects of the broadcasting companies joining forces. The idea came from the Government, according to statements made on different occasions by the Prime Minister, Mr. Bruce, and the Postmaster-General, Mr. Gibson, and naturally any proposals by the Government would be in the interests of listeners, generally, throughout the various States.

Things move so swiftly in wireless that we are apt to forget the work done by the Royal Commission on Wireless last year. Among other recommendations was one to the effect that some form of pooling of the resources, financial and otherwise, of the different companies should be brought about. This proposal was made primarily with the object of assisting some of the companies to improve the service they were giving to listeners. It was not surprising to find in some States that the service was not as satisfactory as was to be desired, and the public appreciation of it in the form of listening licenses was a reflex of the quality of service rendered.

The method suggested by the Commission was to arrange for all the revenue from listeners' licenses to be pooled, and as a first call on it each station was to receive £5000 as an allowance—called by the Commission an operating allowance. After that initial distribution the companies were to receive the rest of the revenue in accordance with the usual method of the Government payment of the revenue collected in a State being paid to the company or companies in the State.

That method did not appeal to the Government according to Mr. Bruce; and as an alternative Mr. Bruce asked the companies to get together and arrange some sort of amalgamation of their resources. Thus

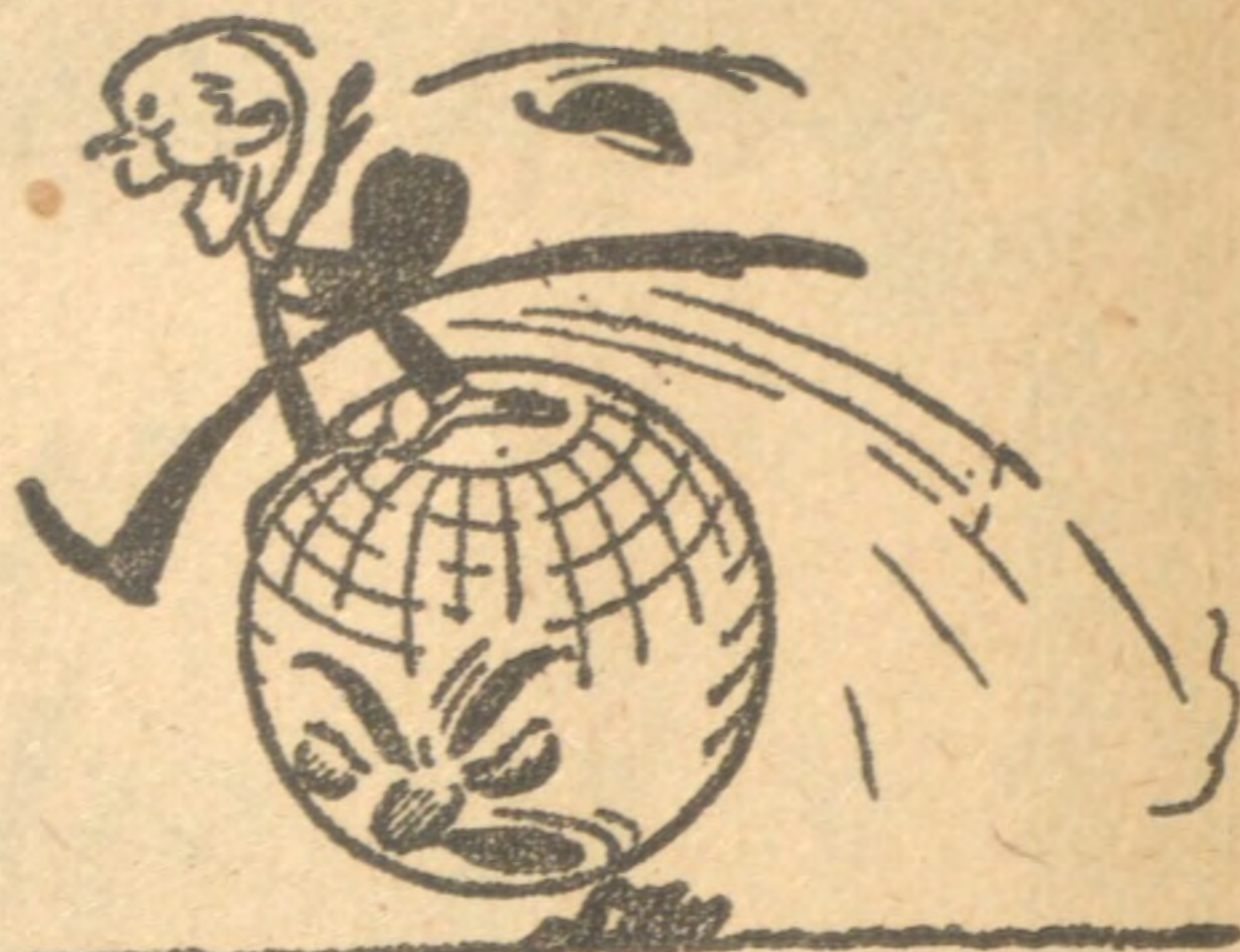
would the whole resources of organisation and finance be available for giving a good service throughout all the States.

According to published statements the companies agreed to Mr. Bruce's suggestion to get together; and negotiations are apparently still proceeding. Naturally the completion of any form of amalgamation is not a thing that could be hurried, and it is not surprising, therefore, that no announcement has been made of the formation of any organisation for the furtherance of the desire of the Government. But what will be the advantages to listeners of the formation of an amalgamation of the interests of the various companies? That is the question that the general public will ask and demand an answer. There will be several advantages. One can easily imagine that the centralising of the management of a Commonwealth-wide broadcasting service will lead to improved and co-ordinated services.

At present there are too many activities of broadcasting that are duplicated and repeated in each city, whereas it should be possible, and it is possible, for much of the labor and expense to be saved and utilised for the general improvement. Similarly, a central organisation accustomed to successful and satisfactory broadcasting services will be able to co-ordinate the services of the present separate concerns and provide co-operation in place of competition. Thus the financial economies desired by the Government will be forthcoming and the resultant savings will enable a better service to be given in parts of the Commonwealth where the service to-day is not all that could be desired.

Catching Up with the Wireless World.

By R. E. CORDER.



NAVAL WIRELESS operators at certain coast stations benefit from the new Admiralty Order-in-Council which provides for payment, at the discretion of the Admiralty of 1d. for every ten words in commercial messages handled by naval ratings in the course of their duty.

THE INHABITANTS of Greenland are better informed than they used to be concerning the doings of the outer world. The station at Godhaven now broadcasts a daily news bulletin at 5 o'clock in the evening, and is heard all over North Greenland and in most of South Greenland. According to a correspondent, the Eskimos are showing a marked interest in wireless apparatus.

THE HUNDREDS of adults who are listeners in the Children's Hour, will be delighted with the series of quaint little "Poems for the Littlest Ones" from the pen of Mrs. Frame, a well-known Melbourne verse writer, who, for some time past has been concentrating her gifts on rhymes for the wee ones. Under the magic touch of this clever writer, who seems to thoroughly understand what the little ones want, everyday objects appear in a new and delightfully novel garb, and the young folk are taught to appreciate the beauties of nature and to regard them from a keenly interesting viewpoint.

LISTENERS often find it difficult to distinguish between Standard and Local time. For the sake of convenience in connection with railways, telegrams, etc., most countries keep standard time of some particular meridian, which often differs considerably from mean local time. The Standard time of Queensland, New South Wales, Victoria and Tasmania is the mean of an imaginary place on the 150th meridian. This is 10 hours East of Greenwich, the standard taken in Great Britain. The mean time of Sydney is five minutes ahead of standard time, while the mean time at Melbourne is five minutes behind standard time. The standard time for South Australia is half an hour later than New South Wales, while that of Western Australia is an hour later than the Eastern States.

THE DIFFERENCE between a Scotsman and an accumulator is that the latter may be overcharged.

3LO HEARD IN BARCELONA.

The short wave service of 3LO is listened to regularly at Barcelona, Spain, by Don Luis de la Tapia, and it is interesting to note that in the issue of "La Vanguardia," published in that city on January 24, the following paragraph (translated in English) appeared:—

"Our subscriber, Don Luis de la Tapia, well known in the wireless world, advises having heard on 32 metres between 19.00 and 20.30 on Sunday, 22nd January, a programme from Station 3LO, Melbourne, 20,000 kilometres distant from Barcelona, with a two valve receiver."

A DON IN BARCELONA. (By C.E.)

A Don in Barcelona,
A Monsieur in Patee.
A Jap. in Yokohama
And a Guy in Tennessee—
They're learning of Australia
From Australia's 3LO
And all are taking kindly
To the station down below.

There used to be a legend
Told anent the icy poles,
That camped afoot of either
Were a brace of Scottish souls.
We take the legend further
And assert—it must be so—
They entertain the penguins
With the help of 3LO.

A moujik on the Neva
And a Bertie on the Strand,
A Pasha in Damascus
And a cousin on the Rand—
They're listening to Aussie
And it's being freely tipped
They've even started talking
Of the tang of eucalypt.

They listen to our music.
To our politics and jokes,
And travel oft in fancy
To the southern land of "Blokies."
And maybe there's a problem
That a few have given up.—
The "Whaffor bedtime stories
When it's time for getting up?"

A Don in Barcelona
And a Wallah on the Nile,
A Sahib on the Indus
And a Chieftain on his isle—
They'll hear and think of Aussie
Till the years to be will show
The good that came to Aussie
From the work of 3LO.

THE ARTISTS' Competition, inaugurated by 2KY, is now in full swing. There is to be a section for each branch of musical or elocutional talent, and, in addition to an engagement with Clays, Ltd., there are a number of gold medals and a silver cup to be won. Entries should be forwarded immediately to the manager (Mr. K. Beaver), Station 2KY, Trades Hall, Goulburn Street, Sydney. There is no entrance fee.

A FURTHER advance is being made in world-broadcasting by the erection of a new short-wave transmitting set at Pennant Hills. This will be used by station 2FC, Sydney, for broadcasting programmes overseas, using the special short-wave which has been found suitable for long distance work. The set now being used by 2FC for this purpose is regularly heard in England and America. In England, particularly, the programmes are frequently re-broadcast. The new transmitter now being erected will have a power of 20 kilowatts, which is four times as great as the set that has been in use.

Mr. SIDNEY F. H. LAWS, who has been manager of Station 7ZL since the inception of Tasmanian Broadcasters Pty., Ltd., has relinquished his position, and is leaving Hobart within the next few days for Sydney.

Mr. Laws tendered his resignation from his position several months ago, but the directors of the company prevailed upon him to continue until the end of April. Although he has been offered several more lucrative positions than that of manager of 7ZL, Mr. Laws has turned them down in favor of 7ZL. As he has watched the station grow from a one-man job to a regular "A" class station, one can realise that the sentimental ties would be very hard to break.

Mr. Laws will be relieved by Mr. Stephen Macdonald, of 3AR. While extending to Mr. Laws our sincere thanks for past courtesies, and our good wishes for his future success, we offer to Mr. Macdonald our congratulations upon his appointment, and the assurance that we shall watch with keen interest the future progress of 7ZL under his guiding hand.

Radio in War-Time

What would happen to our receiving sets if war were to break out tomorrow? Would they be confiscated as they were in 1914, to be returned out-of-date and useless? Our contributor, the distinguished scientist and inventor, deals with some war problems in this article

By Dr. E. E. Fournier D'Albe, F.Inst.P.

WE are so accustomed to look upon broadcasting as a peaceful activity that it has become difficult to imagine what would happen on the outbreak of war, if such a dire calamity should once more sweep over the world. We have only the experience of 1914 to guide us in an attempt to visualise what would probably take place.

In August, 1914, I was carrying out some research work at the University of Birmingham. The proclamation of a state of war was immediately followed by the suspension of all licences for wireless transmission and reception. An army of minor officials—very minor ones indeed—was sent round to the homes of the various licensees to confiscate their wireless apparatus, which consisted of aerial, inductance, condenser, and crystal or electrolytic rectifier (valves were not used in those days).

The inquisitors made a list of everything, and gave a receipt. A number of professors were at that time engaged on wireless research, and it was amusing to see the embarrassment of the army of confiscation when let loose in a maze of gadgets they could not identify. However, everybody realised that they were manfully trying to do their duty, and assisted them in picking out one of each of the items they had been instructed to seize. The professor could easily have set up his receiving set again after their backs were turned, from what was left—but he didn't. After the war was over, the Government went to great trouble in tracing the owners and persuading them to take back their apparatus. It was by that time quite out of date.

Somewhat similar action was taken by the governments of all the belligerent countries. In doing so, they had three main objects in view. In the first place, they wanted to have the ether clear for the transmission of naval and military despatches. They, therefore, stopped all amateur transmission. Secondly, they wanted to keep their despatches secret from their own subjects. And in the third place, they wanted to make it impossible for an enemy to mislead their nationals by false information or propaganda.

All these desiderata would hold good in any future war. Will an at-

tempt be made to confiscate all wireless apparatus, and if so, will it be successful?

Let us try to answer the last question first. Before the Great War, amateur wireless stations were numbered in hundreds. Now they are numbered in millions. For every man employed in the work of confiscation in 1914, there would have to be thousands to-morrow. Instead of fighting the enemy, the able-bodied men would be employed in hunting down wireless apparatus, and storing it in expectation of happier times.

It is doubtful whether, in the end, the purpose of such confiscation would be realised. The failure of every effort to stamp out "oscillating" by prohibition or disciplinary action shows how difficult it is to control the activities of wireless enthusiasts. The authorities had to withdraw their prohibition of reaction and rely on the strength of public opinion.

The closing down of all broadcasting stations on the outbreak of war

would have the same calamitous effect upon the nation as the general stoppage of newspapers. Rumours of disaster, treason, and official corruption and incompetence would spread fear and demoralisation. The government would, at the same time, be deprived of the most effective means of keeping in touch with the people, and of steadying and encouraging the nation.

Probably, therefore, no attempt will be made to stop wireless broadcasting, although transmission by unauthorised persons will, of course, be rigidly suppressed. Full use will be made of the broadcasting system to maintain the public spirit and solidarity of the nation. Simultaneously, an effort will be made to keep out enemy propaganda.

This will involve some problems of an entirely new order. Theoretically, it is possible to isolate any area so that no ether waves of any kind can penetrate into it. It can be enclosed in wire netting or enveloped in a screen of ionised air. An alternative would be to "jam" enemy stations by transmitting nonsense on the same wavelength. Another expedient would be to use one of the so-called "secret" wireless systems, and permitting only that system for reception.

The matter bristles with difficulties. Probably the best solution will be to leave the broadcasting system entirely free. Enemy messages can be disavowed and contradicted, and the possibility of effective reprisals will be a powerful incentive towards fair play.

It was observed at the recent international Radio Conference at Washington that the representatives of the fighting services consistently demanded the subordination of broadcasting to the exigencies of war. No doubt they thought only of their duty to their country. But that attitude is not in conformity with the spirit of the times, and the mutual respect and understanding which broadcasting is doing so much to foster. "Nation shall speak peace unto nation," and when such peaceful conversations have been carried on for a generation, people may wonder why the barbarous arbitrament of war was ever appealed to.



Dr. E. E. Fournier D'Albe.



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 HETEROGENEOUS COLLECTION OF NOTHING."

Dear Sir,—According to the majority of your ironical correspondents the programmes of our "A" class stations are made up of odd items, which lead nowhere, do nobody any good, and generally result in a heterogeneous collection of nothing. Surely this is putting it a little too strongly. Many people can only listen at odd moments, and cannot be expected to extract much enjoyment from ten minutes of a radio play or other type of radio performance which requires attention from start to finish.

There will be a demand for odd items, and the Sydney stations would be well advised not to make overwhelming changes in their present programme policy. These "odd items" as they are casually referred to by jazz artists, and the like, are variety items that have been secured specially by the broadcasting stations in order to relieve the monotony of the everlasting programme of educational talks and high-brow music. If this were not done, there would be even a greater number of letters received from dissatisfied listeners, of which yours truly would be one.

Yours, etc.,

A. FREEMAN.

Tempe.

THE WEDDING MARCH.

Dear Sir,—Far be it from me to cause unhappiness for a newly-wedded couple, but I'd like to express my disgust at 2BL's method of broadcasting the "Wedding March" for every Tom, Dick, and Harry that gets married. We don't mind the "Wedding March," but, after all, one can have too much of a good thing, and I think that such a sacred march should be only broadcast on particular occasions, and when those occasions arise they should be played by an orchestra, and not by a player-piano or gramophone. The latter is certainly better than the former, but neither meet with my approval.

Yours, etc.,

Parramatta.

REVEREND.

WARNING!

Dear Sir,—The callous methods of some people are beyond my understanding. During the last few years no less than a dozen people have been electrocuted, owing to the fact that the owner of the power has failed to sufficiently insulate any dangerous points, or has not placed suitable notices.

Now from England comes news of a friend of mine who was electrocuted whilst installing an aerial mast. The top of the mast came into accidental contact with an overhead power line, which was actually uninsulated. Mr. James Nairn, who held the mast, was killed instantly, whilst three of his companions were badly injured. A woman who attempted to pull one of the men clear also received a severe shock.

Recently an accident on the same lines occurred in Sydney, and as a great number of such accidents have caused America to pay more attention to the guarding of these electric power lines, I think it is high time to do the same here. Also instructions should be issued on printed slips to all persons in the vicinity of power lines, advising them what to do when a person is in contact with a live wire.

Yours, etc.,

SEVERE SHOCK.

Rozelle.

RADIO PIRATES.

Dear Sir,—I see by a Sydney paper Sydney Radio Pirates are being rounded up. This, of course, is as it should be—and I should like to give this class of people a bit of advice. They know, of course, that a license is necessary for a listener, but if they refuse to pay for it, they must suffer the consequences, but as these consequences are likely to be rather hard (according to the papers, drastic measures are being taken), I would like to tell them what to avoid.

The oldest known excuse in the repertoire of the wireless "pirate" is that an unlicensed listener is under the impression a license is not necessary until the set is working properly. Out of nine people summoned recently, six gave this excuse, which cuts no ice with Law—in fact, such

weak argument only serves to make the pleading listener's case the more idiotic.

Nevertheless, pay a few shillings for your license now, or you'll pay a good many shillings for it later on, and probably have your set confiscated into the bargain.

Yours, etc.,

LICENSED LISTENER.

Moss Vale.

THREE VALVE PERFORMANCE.

Dear Sir,—Being a constant reader of "Wireless Weekly" for some time now, I have noticed several people praising the reception of their sets.

With reference to Mr. Hilton's letter in "Wireless Weekly," 17/2/28. He states his set can be heard at a distance of 500 yards.

Then, Victor Simpson, Esq., referring to Mr. Hilton's letter in the Safety Valve Column in "Wireless Weekly," 6/4/28, says that Mr. Hilton's 3 tube set is anything but raucous. Now, I have a three tube set made by my brother. I do not know what circuit it is, but it is a very good one. I can hear 3LO, 3AR, 2FC, 2BL, 2KY and 5CL any night 300 yards from my home, and it is quite clear and distinct, with very little distortion.

I can receive almost any evening on loud-speaker, the following stations:—

Sydney: 2FC, 2BL and 2KY.

Melbourne: 3LO, 3AR and 3UZ.

S. Australia: 5CL, 5DN, and at times I have received 5KA.

Queensland: 4QG.

Tasmania: 7ZL, but very mushy.

From 8 to 8.30 p.m. I have heard the New Zealand stations 1YA, 2YA, and 4YA, but they are often marred by 2FC.

I think this is fair for a three valver, considering I am living on the Sydney-Broken Hill line, 484 miles from Sydney, 214 miles from Broken Hill, and nearly 360 miles from Melbourne. From this you may get the distance I am from all broadcasting stations.

Yours, etc.,

G. E. WRIGHT.

Conoble Siding, via Condobolin.

"More Than an Entertainment"

Hospital Radio Cures

AL over Australia the installation of radio has proved an inestimable boon to the sick in the hospitals. Daily we read of installations in the country, and medical men tell us that there are many cases where the soothing effect of music has done more towards a patient's comfort than any other means. It is possible that there has been no invention during the last decade which means more to anyone during illness than radio.

Children in hospitals take a delight in writing to their favorite "Radio Uncle," and hearing him call them up, with a cheerful message. The older patients, especially the men—who should be strong and active, but are for the time laid up—delight in a thrilling description of a boxing match, or a speedway race, and to those who have to suffer pain quietly, listening to the sweet strains of 2FC's orchestra acts as a soothing antidote to pain.

From the Prince of Wales Hospital, Randwick, came recently to 2BL a letter from a Digger, which serves to illustrate the value of radio to invalids, and also proves that the men who gave all so nobly (for which their bodies were mangled as a ghastly return), still have hope and life within them.

"On behalf of the Digger patients of Ward 13," writes Mr. G. S. Macgraw, "I am delegated to convey to you our gratitude and keen appreciation for the great amount of pleasure conveyed to us each Saturday night per medium of your kindness in broadcasting (particularly for our gratification) the details of the various contests staged by Stadiums Limited. We desire also that you will convey to Stadiums, Ltd., our appreciation of their kindness in permitting you to broadcast these combats for our pleasure. I venture to say that you good people cannot adequately perceive the great pleasure you convey to us by your kindness. Every Digger with sufficient strength never fails to don the earphones, and participate in the pleasure afforded by 2BL's thoughtfulness. By writing this, I feel assured that the sentiments of all Diggers in the hospital, who are privileged to listen-in, are duly expressed and reciprocated. Thanking you again and again, on behalf of the boys. Yours gratefully.

(Signed) "G. S. MACGRAW.

"P.S.—Excuse writing — a bit shaky."

The children, too, who suffer confinement more than the adults, gain amusement and education from the radio. Many hundreds of letters are received weekly from thankful little patients, who appreciate all that is being done for them. Many of the little ones, who first made the acquaintance of radio whilst in hospital, have caused the installation of a receiver in their own homes. Not the least interested in the doings of the Radio Uncles are old and bed-ridden people. To them, radio is something more than an entertainment, as is shown by the following letter, received from a radio fan of ninety-two:—

"Dear Uncle Bas, and all at 2BL," reads the shaky writing. "I received your call, and thanks for your good wishes for my welfare, and I am greatly pleased that you still think of an old fellow like me. I sometimes feel very lonely, having been laid up with a poisoned foot for six weeks, but, thank God, it's getting better." (Then, confidentially, he adds). "I got my boot on again last Monday. I very much enjoy your wireless programmes. Wishing you all health and happiness, from your old friend,

INCOGNITO."

(The writer, however, gives his name and address.)

"P.S.—Please, Mr. Bas, excuse all scratches and mistakes in my little note to you. In my 92nd year—am getting a bit absent-minded."

A large number of hospitals in Sydney now have radio sets installed. The Royal Prince Alfred Hospital, at Camperdown, has 500 headphones and 12 loud-speakers in use. The complete cost of the installation was £1100. The Medical Superintendent, W. A. Bye, when asked his views on the advantage of radio in hospitals, said: "Wireless in hospitals, in my opinion, is a great boon to the sick and suffering. It is very much appreciated by all patients who are well enough to listen-in, and it helps to pass many hours pleasantly which would otherwise be long and dreary. It is especially appreciated by patients who are suffering from chronic diseases, necessitating long treatment, and whose convalescence is slow. Altogether, I consider it a wonderful asset to our institution."

The installation at Sydney Hospital was carried out voluntarily by the P.M.G.'s Department. As the receiver was a donation, the only actual cost to the hospital was the price of 300 pairs of headphones, and odd ma-

terial. "The patients themselves are very keen," said A. R. H. Duggan, who is medical superintendent for that hospital. "They derive great pleasure and amusement from the radio. When anything at all interferes with, or delays transmission, they immediately ring up, and inquire if it may be rectified. Personally, I think the installation of radio has meant a great deal to our institution; above all, it occupies the minds of patients, both before and after operation, and keeps them from dwelling too long on their own troubles. Many patients suffer from certain conditions which prevent them from reading, and, in their case, the wireless is of great benefit. It reaches the varied classes of cases, and the children especially look forward with anticipation to the 'Children's Hour.' We feel greatly indebted to the P.M.G.'s Department for their unselfish work in this direction."

In return for the interest created in radio by the receivers that have been installed in the hospitals, 2BL recently organised a fund, in order to supply the Children's Hospital, at Camperdown, with a receiver and headphones. Donors of headphones, etc., had their names engraved on them, and to-day the children are able to forget their troubles as they listen to the cheerful voice of the Radio Uncle.

The number of headphones in use at the Royal Alexandra Hospital for Children, at Camperdown, is 120. Two loud-speakers are used. The Medical Superintendent, S. W. G. Ratcliff, says: "Whilst the scope in respect to children is necessarily limited, owing to the fact that a programme appropriate for their age forms but a small proportion of the whole programmes of the broadcasting stations unquestionably, and particularly in respect to the older children, radio in a Children's Hospital confers an untold benefit and source of entertainment. There would appear, however, to be room for co-operation between the various broadcasting stations, and perhaps the Children's Hospital and the Children's Wards of general hospitals, in order to prevent overlapping of programmes put over the air, especially for children."

Several other hospitals in Sydney have been outfitted with receivers, and now the Balmain Hospital, the Kyogle Hospital, and Albury Hospital are calling for help in this respect.

The installation of a receiver to cover fully the requirements of the

Kyogle Memorial Hospital would cost approximately £100. This amount covers the cost of a loud-speaker, the receiving set, twenty pairs of headphones, re-chargeable accumulators, and high-tension batteries and accessories. Offers have already been received from a number of wireless enthusiasts, and a working bee is to be formed, in order that the set may be installed as soon as the necessary funds are forthcoming. About £13 has been collected to date. The secretary, who would welcome contributions, advises us his address is Box 41, Post Office, Kyogle, North Coast, N.S.W. His name is Mr. Leo Nunn.

The amount required for Albury Hospital is £150, and all arrangements for the installing of the apparatus, etc., are being made by the Albury and District Radio Club.

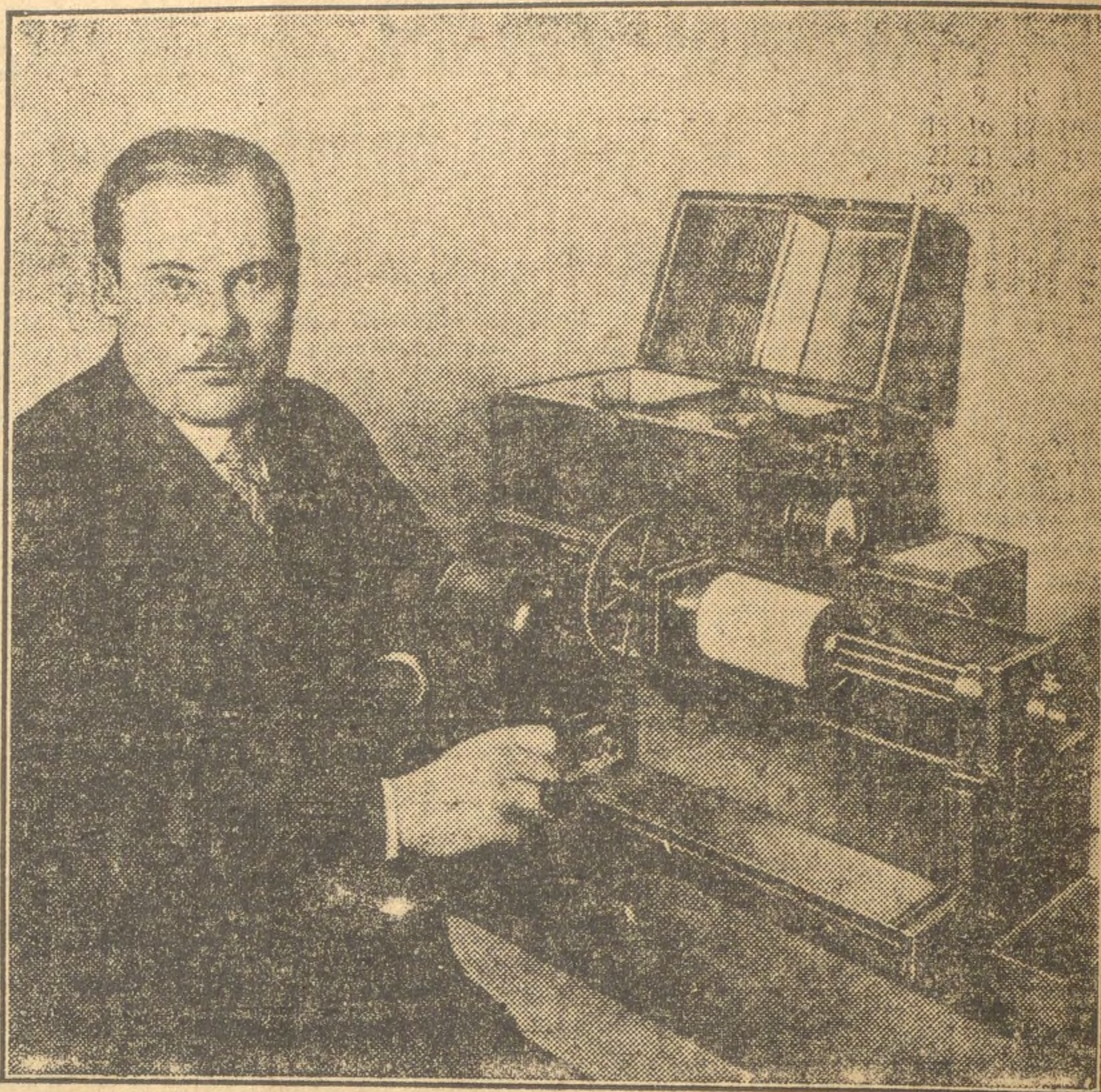
SOME HAVE found it difficult to understand how a radio frequency amplifier amplifies weak signals more in proportion than strong signals, while an audio frequency amplifier amplifies strong signals more than weak ones. The secret lies in the fact that the radio frequency amplifier amplifies the voltage applied to the detector valve, and is not concerned with increasing the power output, while the audio frequency amplifier must amplify the power available to actuate the diaphragm of the phones or the loudspeaker. Vibrating a diaphragm or cone and propagating sound waves that must run through thousands of cubic feet of air and make themselves heard by many ears requires much more energy than it does to increase the grid potential of a valve.

AMERICAN LISTENERS.

From America have come many letters. It is an habitual experience for wireless "fans" now in all parts of America to listen to 3LO, Melbourne. Compliments on the quality of the transmission are frequent, and in the light of complaints often received from local subscribers with no standards of comparison, it is encouraging to the station to receive such flattering encomiums from those who have the leading stations of the world as criteria on which to judge.

ORIENT AND INDIES.

The Director of the Jamaica Government Railways recently wrote the information that he had picked up 3LO. It seems to afford the denizens of these outposts a very special pleasure to get in touch with Australia. In the same way almost all the letters from India, Japan, and the South Sea Islands, and they are legion, contain almost a wistful note of pleasure at their success in picking up the 3LO programme.



DR. E. F. W. ALEXANDERSON, member of Board of Consulting Engineers of the National Broadcasting Company of America, and his home radio picture receiver, showing photographic paper on revolving cylinder. Against the wall is a small box containing the rectifying and amplifying unit, a part of the apparatus, which can be attached to any standard radio receiver in much the same manner as a loud speaker. The first public demonstration of this receiver was recently given by the National Broadcasting Company, when the Mayor of New York's picture was transmitted over WEAJ and received in his home twenty-five miles from the station.

The Insignificant Grid Leak

AS a general rule, the grid leak is not paid much attention, yet it performs, in spite of its simple construction, an important function in all valve sets, and unless it is in good order, noises will often be produced which may be difficult to find. If the grid leak resistance is too low, the rectified charge will drain away practically as fast as it collects, with the result that the signals will not be as strong as they might be. If the resistance should be too high, an atmospheric striking the aerial will induce a big negative charge on the grid which will take a very long time to drain away through this high resistance, and the valve will be thrown off, or rendered unable to rectify at all for several seconds, during which time part of a signal may be missed. If it is not there at all, the only escape for the charge is through the valve itself, thus giving a much worse "wiping out" effect.

Sometimes a very large inductance, of the order of henries, is used instead of a resistance. Its effect is the same—of preventing a grid charge draining away as fast as it collects.

The best grid leak is of the variable kind, since then the correct valve may be found within a few seconds, and once found, will need no adjustment. A simple yet efficient variable grid leak may be made by the home constructor, simply by drawing a number of lead pencil lines of varying thickness, and making contact to each of these in turn until the correct resistance is found.

The pencil lines may be drawn on ebonite, and when the correct one is found, should be covered over to prevent its being rubbed away, by another piece of ebonite. Good contact must be made at each end, otherwise results will be disappointing.

Where Will the Search for Quality Lead?

WITHOUT trying to be humorous at the outset of this brief and perhaps unauthentic dissertation, I cannot withhold a chuckle when I review in my mind's eye the the myriads of words that have been dutifully typed under the heading, "How to Get the Most Out of Your Radio Set." To what avail? In most cases, it was merely a matter of increasing the weight of Dobbin's load until the poor old beast either wheezed along to a miserable stop or passed out of the picture altogether.

The trouble, as I have seen it all along, was that the old reliable radio set was puffing along under tremendous odds in the very beginning and the weight of an additional load brought about by wise suggestions advocating signal step-up via regeneration a la feedback, or regeneration in the radio frequency amplifier through greater inductance in the primary circuits, only tended to increase the lung-power of the set, but did not compensate for its habit of going off pitch on nine out of eight notes in the diatonic scale. Wherefore, certain timid individuals apologised for cutting down the volume of their respective brazen sets by stating that they liked their music "nice and soft" when, really, they were following the very humanitarian impulse of lessening the tremendous load on poor old Dobbin so that the going would be less jerky.

The Fan Fools Himself.

However convinced each set owner might have been that his particular contraption produced perfect quality—"clear as a bell"—he was dissatisfied in his innermost self, for even his simile defeated the impression he wish to convey since no one ever heard a natural soprano, baritone, bass drum or saxophone that sounded "like a bell." So, in the quiet of a Saturday afternoon or Sunday morning, he would stealthily disconnect the wires from the beloved family radio and "get more from his set" by adding a few turns to the primary, or perhaps by adding another stage of radio frequency amplification. His arduous labor completed, he would confidently return the now greatly improved instrument to its accustomed corner in the living room, and, surrounded by sceptical members of the family who, because of "the change" missed a fight, fashion talk or N.T.G., prophetically though nervously attach the "A" and "B" batteries to their proper, or in some of the more unfortunate cases, improper binding posts on the set.

The Author Views Past and Makes Forecast.

By

EMIL FLORENTZ

Would come the snap of a switch, and true to the word of the adviser, the proud renovator would "get more from his set," until his wife or some other member of the family would urge him in no uncertain tone to turn down the dohickey and "stop that screeching." And so, his experiment successfully completed, he would cut down the volume to a whisper, confident that he was now getting so much more from his set that it must be the very best.

The Fan Is Handicapped.

But, after all, there can be no progress beyond the limitation of apparatus at hand, and even if the radio set owner had doubled up with valves in parallel on the audio side of his set, as he should have done to prevent overloading, the audio transformers of the day formed a very limited gateway through which only a small number of selected notes were permitted to pass. However, this condition did not exist for long, since the resistance-coupled reserves came to the rescue and a general hue arose from the ranks for "quality reproduction." Whether it was because this method of valve coupling for audio amplification was really superior in the matter of tone preservation or because its lack of amplification necessitated the use of three tubes in place of the usual two, thus preventing overloading of at least the first two stages, it is not for me to decide, but there was still the limiting factor of the output valve.

As it appeared from the mere consumer's viewpoint, the resistance-coupled hordes made serious inroads into the lands formerly dominated by the transformer constituents when, lo and behold! without warning the latter brought bigger audio transformers to the front-line trenches—and they were bigger and they were better. If the tremendous improvement in audio transformers was the direct result of pressure brought to bear by the success of the resistance competitors—and it is difficult to believe that their introduction was merely a normal step in the development of radio apparatus—than, by all means, let us have more competition.

Perhaps the greatest single step in the improvement of radio reproduction was made possible through the introduction of the power valve. Not the 112 type so much, for this is designed to handle only slightly greater power than the 201-A and for this reason should be used in the detector stage only, but the 171 and 210 types of valves. In perfecting these audions, the engineers had given to the listening public the first zoom, zooms they had ever heard over radio or over any other mechanical or electrical reproducer for that matter. Thus, there came into being a third group to be known as the Loyal and Independent Order of Base Note Proponents, an organisation whose principal password was "400 volts." The funny part of it was that most of the members of this new group weren't really getting 400 volts to apply to the plates of their 210 valves simply because their power amplifiers also acted as "B" eliminators, and in many cases, when the load of the valves in the receiving set was imposed on the rectifier valve, the available voltage for "old man 210" was 'way down and the poor fellow was limping along with a bad case of malnutrition. Of course, this was not true of all the sets, but it is secretly known to members of the inner circle that the low readings obtained from super-eliminator-amplifiers were not in all cases due to low-resistance voltmeters.

The 210 Finds a Partner.

"Let's have some fun," said a manufacturer. "Suppose we stage a tug-of-war between a couple of 210s. I can prove that a last stage audio amplifier has a tendency to act like a prima donna and insert a couple of harmonics of its own into the signal it gives us. So if we pit two 210s against each other, they'll be so busy trying to outdo the efforts of the other in introducing unwanted trills, that we can sneak up on them and steal away the real pure tones that we desire." And so it was. And push-pull power amplification was born for radio receiving sets and by virtue of the extra 210, an extra rectifying valve was needed and the addition of this new rectifying valve made it possible to boost the voltage on the 210s to the necessary value and at the same time provide sufficient energy to operate the valves in the receiver proper.

Thus we have travelled the steps of progress to the present day, and the more courageous among us who venture to raise their eyes from the tracks in the sand will see a cloud of dust on the horizon, stirred by the

tramping feet of a new and fourth army, whose banners floating in the breeze, identify them as "The Fifty-Watters." These poor, misguided individuals—and the term is used advisedly, for it has been popular since the beginning of time to berate all advocates of "new fangled" ideas—these misguided individuals have become obsessed with the idea that it is impossible to secure perfect tone quality unless through the agency of a fifty-watt valve, a cumbersome "bottle," the shape of which might suggest to many its use for more invigorating purposes.

"How can you," say the Fifty-Watters, "hope to secure natural reproduction when it takes x watts of energy to create the sounds made by a modern dance orchestra and the 210 type of valve, even in a push-pull arrangement, is only capable of producing y watts of energy; a value in watts which is many times less than that indicated by x . Therefore, we say, let us use a valve that is capable of supplying x watts of energy so that we may re-create, in our own homes, the music produced by said modern dance orchestra, even if we cannot offer a good reason for wanting to do so in the first place."

So, there you are; as a popular announcer would say. And if you are of the adventurous type, you will follow my advice and buy a 50,000-watt broadcast station, operate it backwards and in that way have the jump on the "perfect quality" fans for at least a few moons to come.

Since you were warned in the beginning that this article may not be authentic, I feel that I am allowed a certain latitude, still possessing the conviction at the close that I have at least given the reader an "even break."

TO THE average radio listener "resonance" means very little, but in view of the fact that all reception and broadcasting depends on it, one should become well acquainted with the use of this term. Resonance, in radio, is simply a condition existing in a number of electrical circuits, which allows the action of one to cause the greatest possible response in another. When circuits are in resonance they are said to be "tuned," and one will then have the maximum effect upon the other. When you turn the dials on your receiver you are simply bringing your set into resonance with the broadcast frequency; that is, you are tuning the circuits in the set to the same frequency to which the circuits at the broadcast station are tuned, and, therefore, bringing your set into a condition which will allow the maximum effect to be produced.

Timely Radio Hints for the Constructor

Latest engineering trends which may be of assistance to home set builders

By Engineering Dept., H. H. Eby Mfg. Co.

WHAT constructional information can be gleaned from a study of the popular manufactured receivers? The engineering knowledge displayed in these receivers cannot help but be of aid to the constructively inclined radio fan. The engineering department of the H. H. Eby Manufacturing Company has made a survey of the popular receivers and hopes that the information contained in this paper will be of some guidance.

First, we find tuned radio frequency amplification the most popular form of radio frequency amplification; very few manufacturers employ untuned radio frequency transformers. The manufacturer who employs a radio frequency transformer does so in the effort to compensate, by means of the operating characteristic of the untuned radio frequency transformer, for the falling characteristic of the regular tuned system. The average number of tuned radio frequency stages is three.

Stabilising Means Employed.

We find that a definite method of stabilisation is invariably employed. The old story of a "self-balanced coil" in the radio frequency system exists no more. For perfect satisfaction some concrete system of stabilisation or neutralisation must be employed. The advent of more than two stages of tuned radio frequency amplification necessitated the use of shielding, and individual shielding at that. We observe, however, that the greatest precautions are exercised when shielding the radio frequency stages. Very little concern is displayed for the audio frequency stages. This part of the receiver does not require separate stage shielding.

Shielding.

We also observe that shielding is required regardless of the type of inductance employed as the tuned radio frequency transformer. In order to attain the greatest amount of selectivity and stability all tuned radio frequency units should be shielded. We further note that the single layer solenoid is still the most popular, but it is always employed in conjunction with individual stage shielding. The average maximum capacity of the tuning condensers is .00037 mfd. (370 mmfds.).

Rigid sockets are used in many expensive receivers, thus showing that

reputable engineering organisations have conclusively determined that the cushion type of sockets does not afford any distinct advantages. If the engineering departments of so many manufacturers decide that cushioned sockets are unnecessary, then we have very little to worry about microphonic valves.

Audio Amplifiers.

The most popular forms of audio frequency amplification are impedance and transformer coupling. The number of stages of impedance coupling varies from three to four, and the average number of transformer coupled stages is two, although three are frequently employed. The use of two stages seems to afford sufficient volume.

We find the most popular plate voltage for radio frequency valves to be 90 volts, although some employ 67.5. To all intents and purposes plate voltages in excess of 90 do not seem to justify the increased expenditure of plate current.

SOME UNCERTAINTY having arisen in the minds of hotel proprietors as to their rights in respect of using radio receiving sets on licensed premises, Mr. J. R. Lee, Minister of Justice, has conferred with officers of his Department, together with the Commissioner of Police, and has now issued the following statement:—

"There is no objection, so far as the Department of Justice is concerned, to radio sets being used for the public portion of premises licensed under the Liquor Act, 1912, for the purpose of receipt and announcement of sporting results and general news items, provided such broadcasting is not associated with conditions subversive of public order. There is also no objection to a loud speaker being extended (by an extension wire) to a room open for public resort, on similar conditions to those stated."

Mr. Lee added that a licensee is not permitted to broadcast musical items in the public portion of his premises. If his speaker is working he must cut it off when music commences.

So far as proprietors of billiard rooms and cafes are concerned they are free to use radio without restriction other than by paying the license fee, which has been reduced from £10 to £1/4/ a year.

New Features at 3LO

Wrestling from 3LO on May 12th—New Choral Union—Shopping Abroad Talks—Sonora Concerts

ON MONDAY NIGHT, May 7, the Elesternwick Mael Choir will broadcast from 3LO. This choir is deservedly popular with listeners.

THE VICTORIAN Railways Institute Orchestra will broadcast a programme from 3LO on Wednesday, May 9. The orchestra will appear on both afternoon and evening sessions.

THE USUAL Sunday afternoon Sonora concert will be broadcast on May 6, and another interesting and profitable hour for music-lovers is promised. As the winter months approach, these concerts are becoming increasingly popular.

THERE will be a galaxy of musical and vocal talent on the air from 3LO during the week beginning Sunday, May 6. Artists will include Mary Mack (contralto), Ernest Sage (baritone), Oliver Peacock (baritone), Edward Hocking (tenor), Isobel Biddell (contralto), the Gypsy Players (string quartette), Henri Penn (piano), Gordon James (baritone), Dorothy Roxburgh (viola), Bessie Gaunson (violin), Frances Lea (soprano), Bertha Jorgensen (violin), Agnes Fortune (piano), T. James Lloyd (tenor), Lilian Perrin (soprano), Guy Moore (tenor), Elsie Davies (soprano), and Kathleen Simms (soprano).

FROM TIME to time we encounter letters in the paper, stressing the point that only strictly religious subjects should be broadcasted on the Sabbath, and that no form of "entertainment"—in the generally accepted sense of the word—should be introduced. In arranging the splendid programmes that are broadcasted from the studio each Sunday, 3LO is closely following the advice given by that eminent English divine—Dr. Campbell Morgan, D.D.—who in many sermons has stressed the point that entertainment or recreation is merely a form of re-creation, and maintains, that anything which re-creates the mind, whether it be through the medium of a well-rendered musical selection, or an eloquent Shakespearean recital—is one of the most practical forms of present-day religion. From this, it will be seen that the wireless is doing a great re-creative work among the community.

THE MALVERN Tramways Band will broadcast a programme from 3LO on Sunday, May 6th.

THE ARTISTRY of Henri Penn, pianist, has won for him a high place in the estimation of 3LO listeners, who will be glad to learn that he will be on the air again on Tuesday, May 8th.

THE POPULAR entertainers, Rupert Hazell and Elsie Day, continue to win the highest approval of 3LO listeners. They will be on the air regularly during the week beginning Sunday, May 6.

ONE OF THE MOST popular speakers from 3LO, Captain Donald MacLean, has been pressed into service in the Women's Hour, and is giving a series of most interesting talks on "Women of History." This series covers many centuries, and the incidents chosen by Captain MacLean, brimful of romance and intrigue, are infinitely more fascinating than the most thrilling of the "best sellers" on the railway bookstall. It is well to remember that, in addition to the romantic side of these talks, there is always the fact that historical events are being presented in a most entertaining fashion. The general knowledge of listeners is being developed, which brings them to a better understanding of how the freedom enjoyed by women of the present day has been achieved.

UNDER THE TITLE of "Shopping Abroad" a most fascinating series of talks is being prepared by "Au Fait"—so widely known and appreciated for her "fashion talks" over the air. This series should have a special appeal to feminine listeners, for not only will they deal with the recognised shopping centres of the Continent and America—but will include shopping for rare prints, tapestries, and curios, and, during these latter shopping expeditions, listeners will be entertained with graphic word pictures of the quaint curio shops in Soho and the Quartier Latin, and the Studios of Chelsea and Greenwich village—to say nothing of the famous Bond Street, which is said to be not only the most exclusive, but the most expensive shopping centre of the world.

THE POPULAR Humphrey Bishop Company will be heard from 3LO on Tuesday, 8th May, and Friday, 11th May. A varied and excellent programme has been prepared by the company.

THE WRESTLING matches at the Stadium on the night of Saturday, May 12, will be broadcast by 3LO. Memories of thrilling tussles and breath-taking descriptions at the Stadium last winter will be revived.

MISS LOUISE GOOD will speak on the subject, "Out Back in a Baby Austin," from 3LO on Wednesday, May 9. The talk is full of interest not only to motorists, but to the public generally, and listeners should not fail to tune in this talk.

3LO HAS engaged the Melbourne Choral Union for a series of concerts during the winter months. Lovers of choral music will welcome this announcement, as this choir of championship class is of 60 voices, and has as its conductor Mr. William G. James. The choir will be heard on the air for the first time towards the end of May. Listeners should watch for further announcements.

WHAT A LOT of people would like to be conversant with a wide range of subjects—to know just sufficient about the Topics of the Day to discuss them intelligently—their chief difficulty being that time is precious, and that in order to glean one "fact" it is often necessary to read a chapter of "fiction." Realising this, Dr. Loftus Hills presents his bright little lecturettes during the Educational Hour at 3LO—in which "Topics of the Week" and "Things that matter universally" are discussed in a pithy manner. No words are wasted, but listeners are kept in touch with current events, and enabled to see how the world wags. To the busy man, and the "more than busy" housewife—with but little time for private reading or study at their disposal—these lecturettes come as a positive boon—in fact, I heard the remark passed the other day that "Nowadays with all this interesting information given over the wireless, there is positively no excuse for ignorance."

3 LO Offers Free Holiday for Two at Buffalo.

Wonderful Trip for 1½d.

FOLLOWING the success of the free trips to Tasmania and Western Australia offered by 3LO, the station announces another free holiday competition, with a week at Buffalo for two persons as the prize. This trip should be even more popular than its two predecessors, because it would be within the reach of all Victorians, many of whom might not be able to leave business for a longer period.

And, Buffalo, one of Victoria's show places, is all too little known by Victorians. It offers everything essential to make up the ideal holiday, and 3LO is confident that this opportunity to visit this wonderful resort free of all charge will be availed of eagerly by listeners all over Australia. The conditions will be similar to those pertaining in the two previous competitions. All listeners will have to do will be to send in their name and address, and the number of the set they usually listen in on. Competitors must mark their envelopes:—

"BUFFALO FOR A HOLIDAY"

CLOSING DATE, MAY 26.

All letters must reach 3LO by 12 o'clock noon on Saturday, May 26, when the drawing will take place. The lucky winners will leave Mel-

bourne for Buffalo on Friday, June 1, and will return on Friday, June 8. First class transport, and accommodation at the Chalet, will be provided. The visitors will not have an idle moment on their hands. Motor trips to beauty spots on the plateau will be provided free—in fact, everything will be free. Any country listener in Victoria who is successful will have his or her fare paid to Melbourne. The competition is open to listeners all over Australia.

THE THIRST for adventure rides high in the breast of the average school boy, and there are few lads who have not, at some time or another, been anxious to go to sea. In a series of talks from 3LO Dickson Gregory, feeling that the next best thing to going to sea is to hear about it, has collected some splendid stories together dealing with ships and shipwrecks, which are proving tremendously popular. As all talks for the elder children are prepared with the dual objects of being both entertaining and instructive, it will be seen that this series not only entertains with stories of deeds of bravery at sea, which is an excellent moral lesson for the boys, but helps considerably to keep their historical and geographical knowledge up to date.

The Women's Session

(Conducted by Dorothy Jordan, 2BL)

WOMEN'S SPORTS: Great interest was shown at the meeting of the 2BL women's sports clubs, which was held in the Lounge of the Hotel Australia last Friday. Members of the existing clubs, which include Coogee, and in the Western Suburbs, were present, and new clubs were formed at Roseville, Bondi North, Mosman, Kogarah or Rockdale, Manly, Waverley, Bexley. It was decided to form the clubs into an Association to be called the 2BL Women's Sports Association. Several of the Members present offered the use of their own private Courts for the use of players from the Association. The Executive Committee were elected as follows, President, Mrs. D. Jordon; vice-presidents, Mesdames Norton and Brittan; secretary, Miss Gwen Varley; treasurer, Sister E. Birkin. Delegates from the different clubs to form the general Committee. The fee for membership for Tennis will be 7/6 per month, which includes the use of court and provides a Coach. This privilege is open to all women listeners who wish to join up and a letter to "2BL Women's Session" will secure the Membership.

THE IDEAL POSTURE: Dr. Harvey Sutton advises parents to watch the posture of the growing child. The shoulder blades must be kept in, the heels together, and the head up. A child who is encouraged to adopt the correct posture will later on, because of his perfect bodily condition, have a vastly different outlook on life than the stooping badly developed child.

MODERN DANCING HELPS: Another startling but interesting fact is that modern dancing, the popular jazz, and the new Yale Blues, help to encourage the correct Posture.

Some teachers in England, and on the Continent, make the pupil place a weight on the top of the head when learning to dance, so that the correct balance will be practised.

PERSONALITY: Children, when very young, frequently show indication of a personality which may in the future make them very valuable and useful citizens. These children are, often when young, restless and troublesome to those who have control of them. Means should always be found in work or sport of some kind, to use up their surplus energy. Don't spoil these splendid youngsters by scolding.

A WELL-KNOWN FURRIER, lecturing on Thursday from the women's session, says, "Do not buy a cheap fur, it always looks cheap? Quite a large number of fur coats are now made in Australia and compare very favorably with the imported article. In making up coats, coney is largely used, made from imported pelts, which are hutch bred and grow much longer fur. Good chapelle coney makes a coat of very choice quality."

He says, "always take great care of your furs, do not hang them away in a dark cupboard, keep them in the light always, in the case of coats, on a hanger."

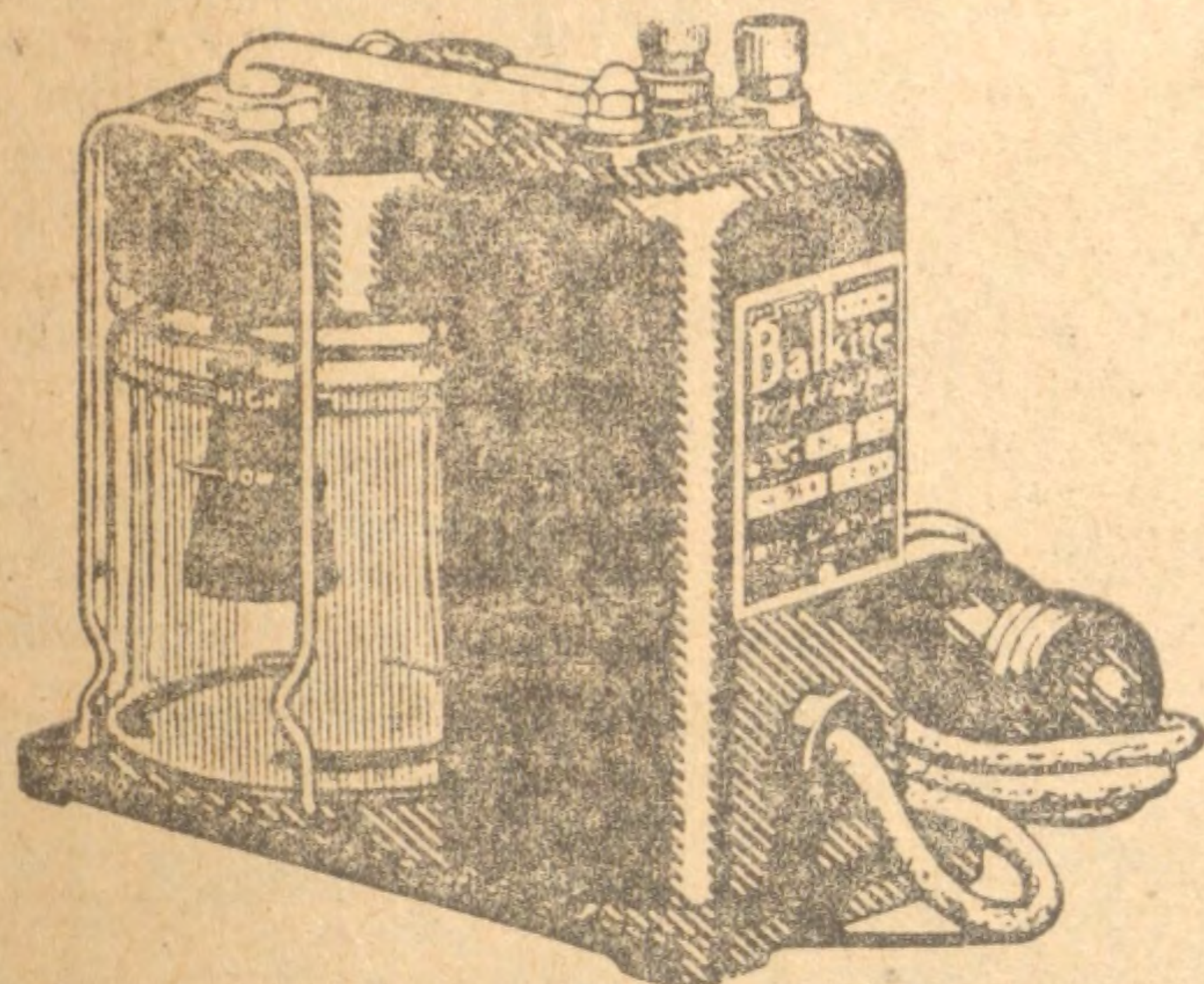
WOMEN MAKE FURNITURE: Quite a large number of women can use the glue pot, and the screw driver expertly. On Thursday next talks will be given to women listeners on putting together fitted furniture. We have seen some excellent pieces lately that were made and put together by some of our artistic women, who assure us that the job is quite easy. **WHY NOT!**



Gordon James, the popular Adelaide baritone, who is broadcasting from 3LO Melbourne.

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BALKITE TRICKLE CHARGER

NEW PRICE **£3/10/-**



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RAULAND-LYRIC TYPE R500

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The Rauland-Lyric is a laboratory grade audio transformer.

Music critics agree that truer reproduction cannot be found than that obtained when these Super-quality instruments are employed.

Low bass notes, high harmonics, delicate overtones—all these are amplified with unequalled beauty.

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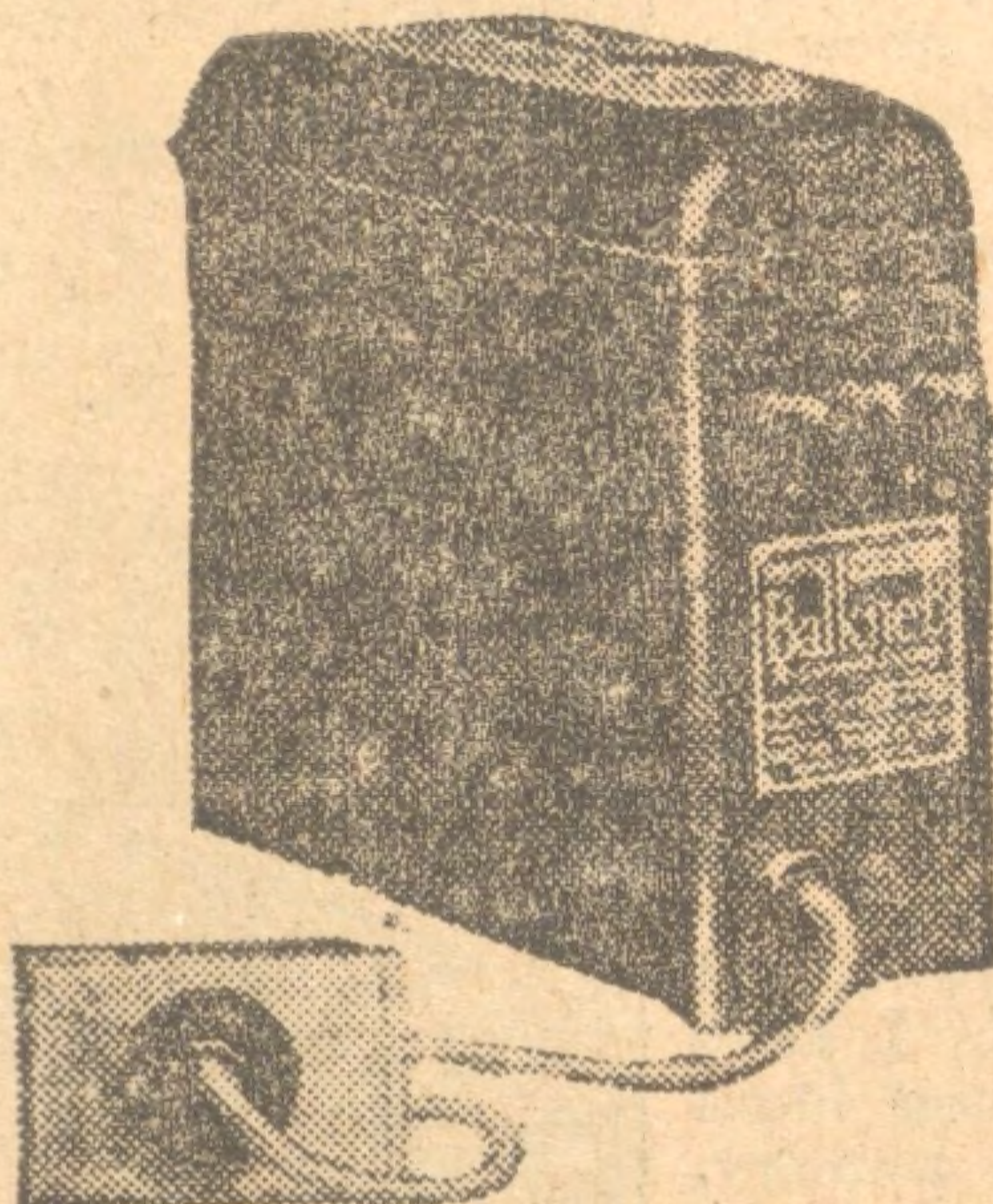
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BALKITE "B," the noiseless, tubeless, permanent light socket, "B" power supply.



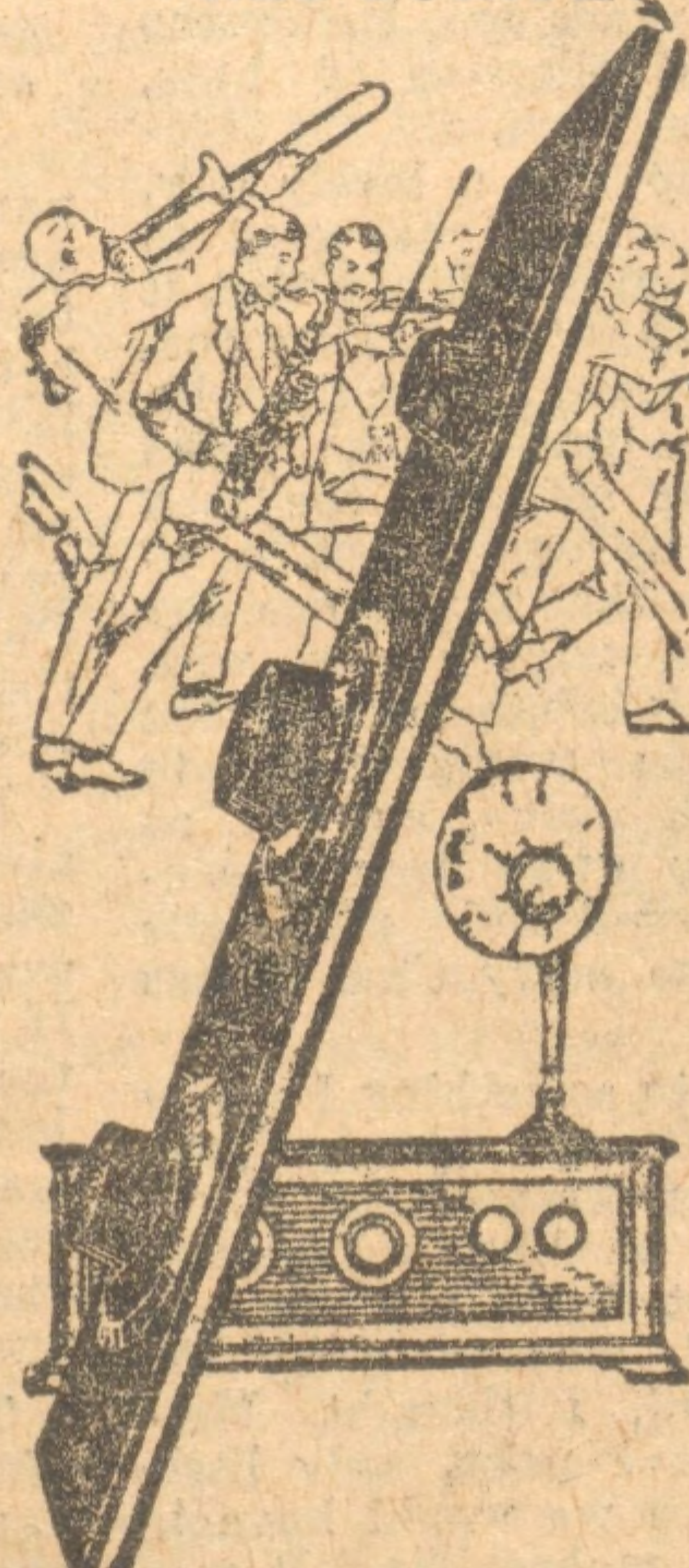
MODEL B.W., for
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Celebrated Actress Looks Us Over.

Margaret Bannerman Talks from 3LO.

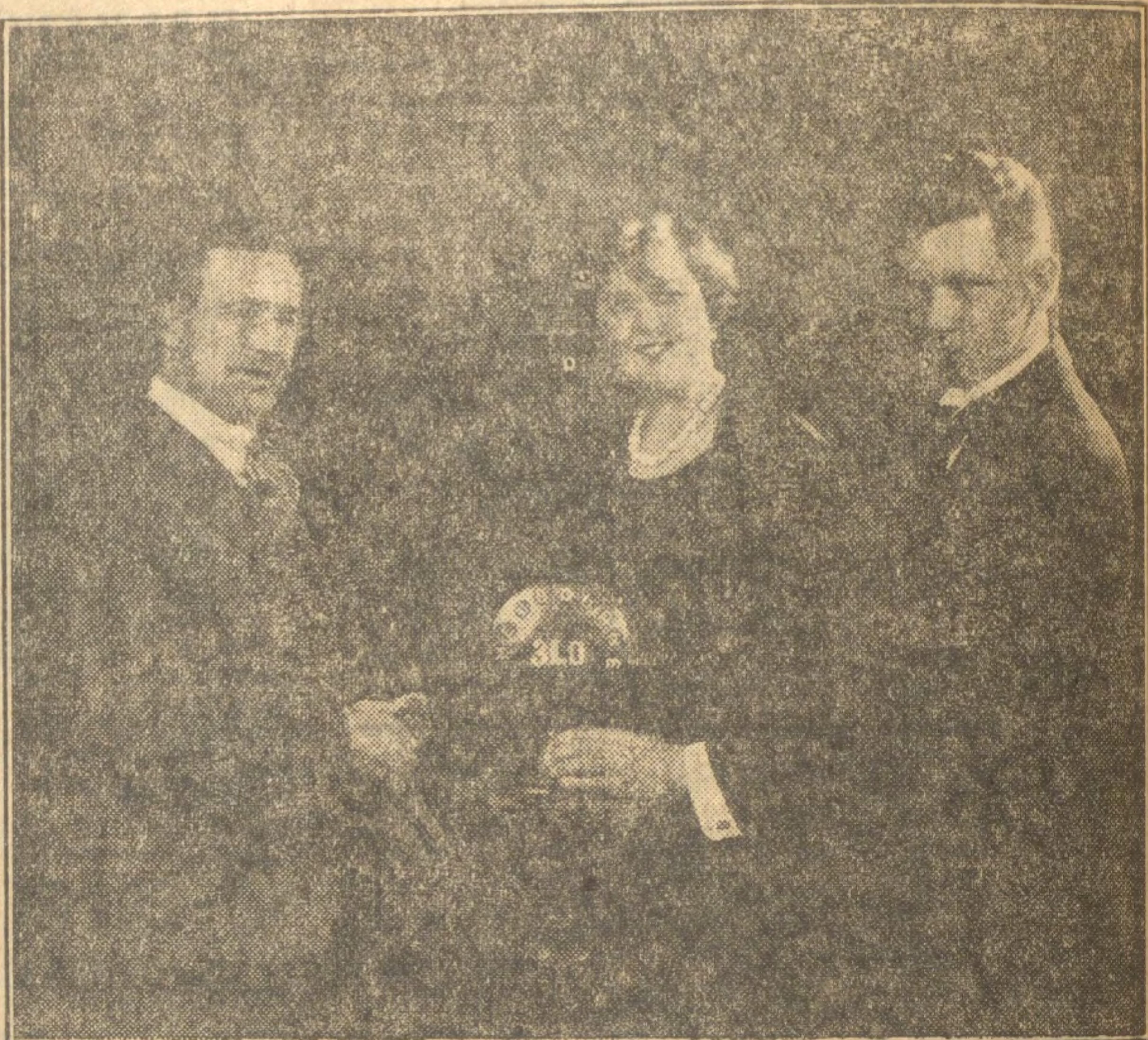
GOOD - EVENING, everybody. This is just me—such a very tiny me, it seems, when I think of my voice going all over this vast Australia of yours, an Australia I am going to love, I assure you, but an Australia so much bigger than anything I ever imagined it would be.

In England, we naturally grow to feel that we live close to the centre of the wheel, where we hear all the creaks, and feel we are doing a tremendous lot to make the thing go. The hub has a tendency to feel that the nave and the tyre don't matter so much. Anyway, they're too far away to bother about. That is why it is such a good thing for us to come out here, on the rim of the world, and see for ourselves how marvellously you people have taken up life, and made a great thing of it.

Since I have been in Australia, and that is just one short week, I have corrected such a lot of wrong ideas I had conceived about this country. Please do not blame the Englishman for not knowing. There is only one way he can possibly know, by coming here and finding out for himself.

The first thing I want to make clear is that I have not come out here to teach anything, but to learn. I have already started the process of going back to school, by correcting a lot of false impressions. Someone told me that, 70 years ago, Melbourne was just a tiny collection of huts, which its founder, even, did not foresee would develop into a lovely city. I won't confess what I expected to find Melbourne, but I will say that it has simply astonished me. How fortunate for Melbourne, I have thought, as I have driven through its parks and streets, that some of the men who ruled it in its early days, actually realised then that it was one day to grow into a mighty city, with nearly a million inhabitants, and that those inhabitants would need to breathe. It took vision, as well as courage, to keep away from speculators those wonderful parklands that fascinate me every time I pass through them.

Then, coming to something I really do know something about, your theatres. Heaven knows what I expected them to be like. London's theatres are not beautiful, for the most part, and, measuring by the London standard, I thought Melbourne would have poky, ugly little playhouses, where we would have to be satisfied with makeshifts. It was an eye-opener to find here better theatres than London possesses. The new Comedy Theatre, which my com-



Margaret Bannerman, the famous English actress, arrives at 3LO to broadcast a talk, and is welcomed by the General Manager, Major Conder, and the Studio Manager, Mr. T. W. Bearup.

pany is to have the great honor of opening, is exquisite. It is no flattery to say that not a single playhouse in London can compare with it. I think the first sight of the great dress-circle at His Majesty's amazed me most. I imagined it filled with a great audience for the coming Grand Opera season, and I realised that few theatres anywhere could present so fine a sight.

I have been so interested in driving about, to see your homes—those of the poor as well as of the rich. I have wondered at the evident prosperity. If you could only see the squalor and the misery in some of these overseas lands so many of you think of as romantic, and long to visit, you would realise, as I do, your great good fortune in living in a land where life treats you so well.

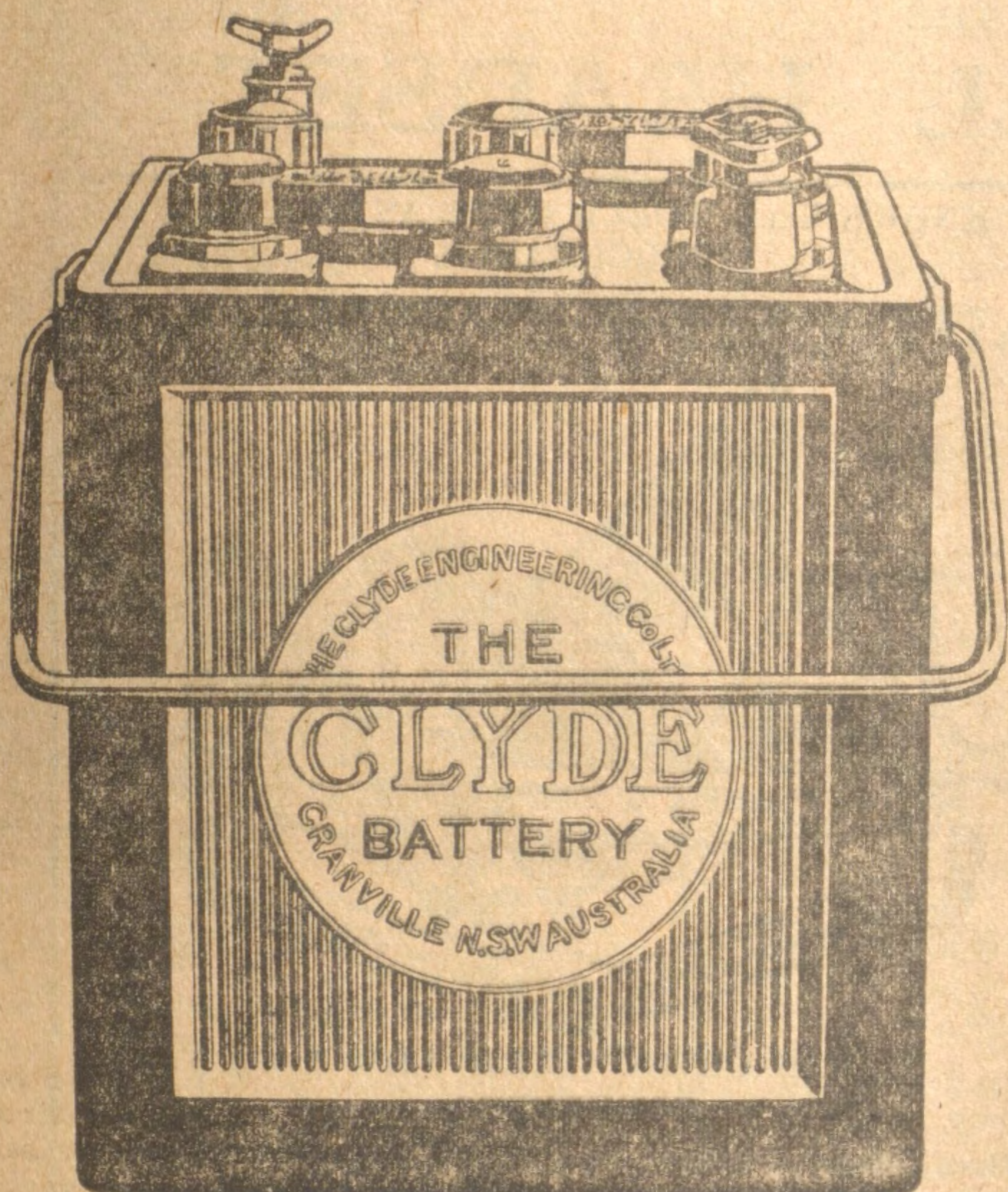
Then I am in love with the streets of Melbourne. That wonderful boulevard, St. Kilda Road, and the Alexandra Avenue. Why, that is your Bois de Boulogne, the thing that helps to make Melbourne so like Paris. There is a feel of Paris, too,

about your streets. Collins Street is one of the most charming streets I have ever seen. People come back to England, and talk of Collins Street at sunset, but I love it all day long with its ever-changing aspects.

Yes, I am going to love Australia, and when I return to London I will be an enthusiastic ambassadress for your land of golden sunshine. Au revoir, and cheerio!

COMMUNITY SINGING owes much to 3LO for its popularity. Another session will be broadcast by 3LO from the Assembly Hall, Collins Street, on Monday, May 7, commencing at 12.15 p.m. Always a feature of these community singing sessions is the appearance of popular 3LO artists. This is an added attraction for both singers and listeners. On this occasion both will be specially fortunate, for the Gypsy Players (string quartette), Frank and Francis Luiz (Hawaiian entertainers), and Rupert Hazell and Elsie Day (popular entertainers) will take part.

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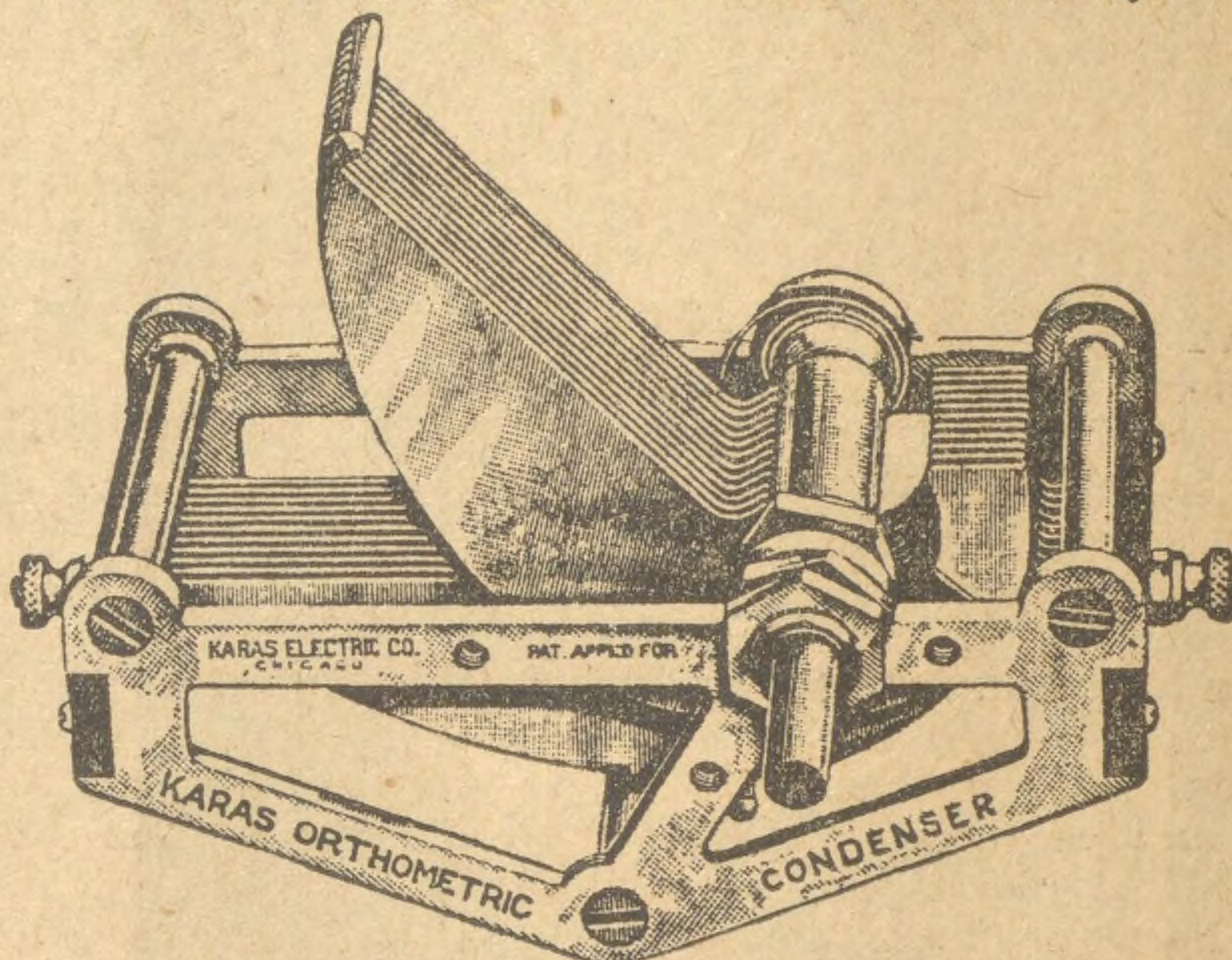
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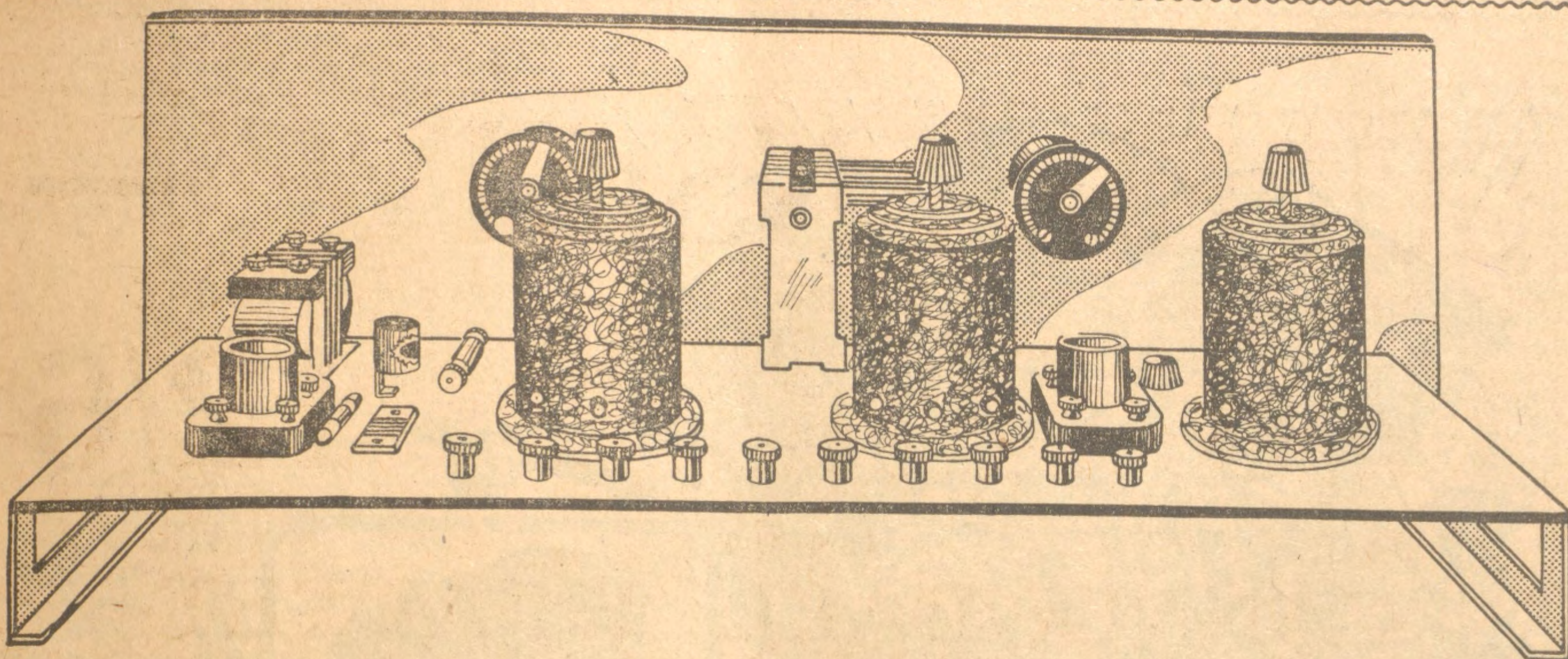
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The "Gloomchaser" Five

By the TECHNICAL EDITOR

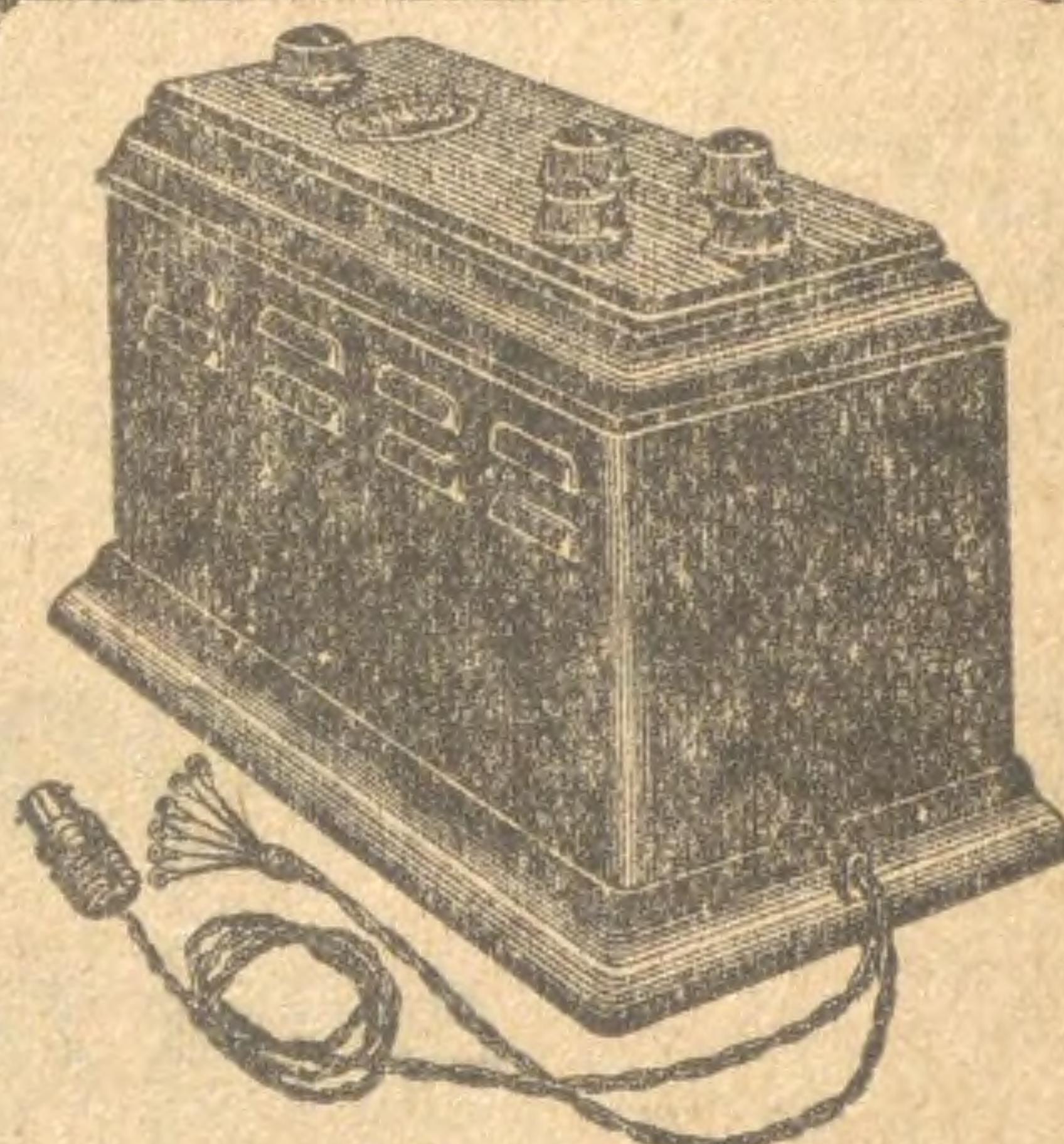
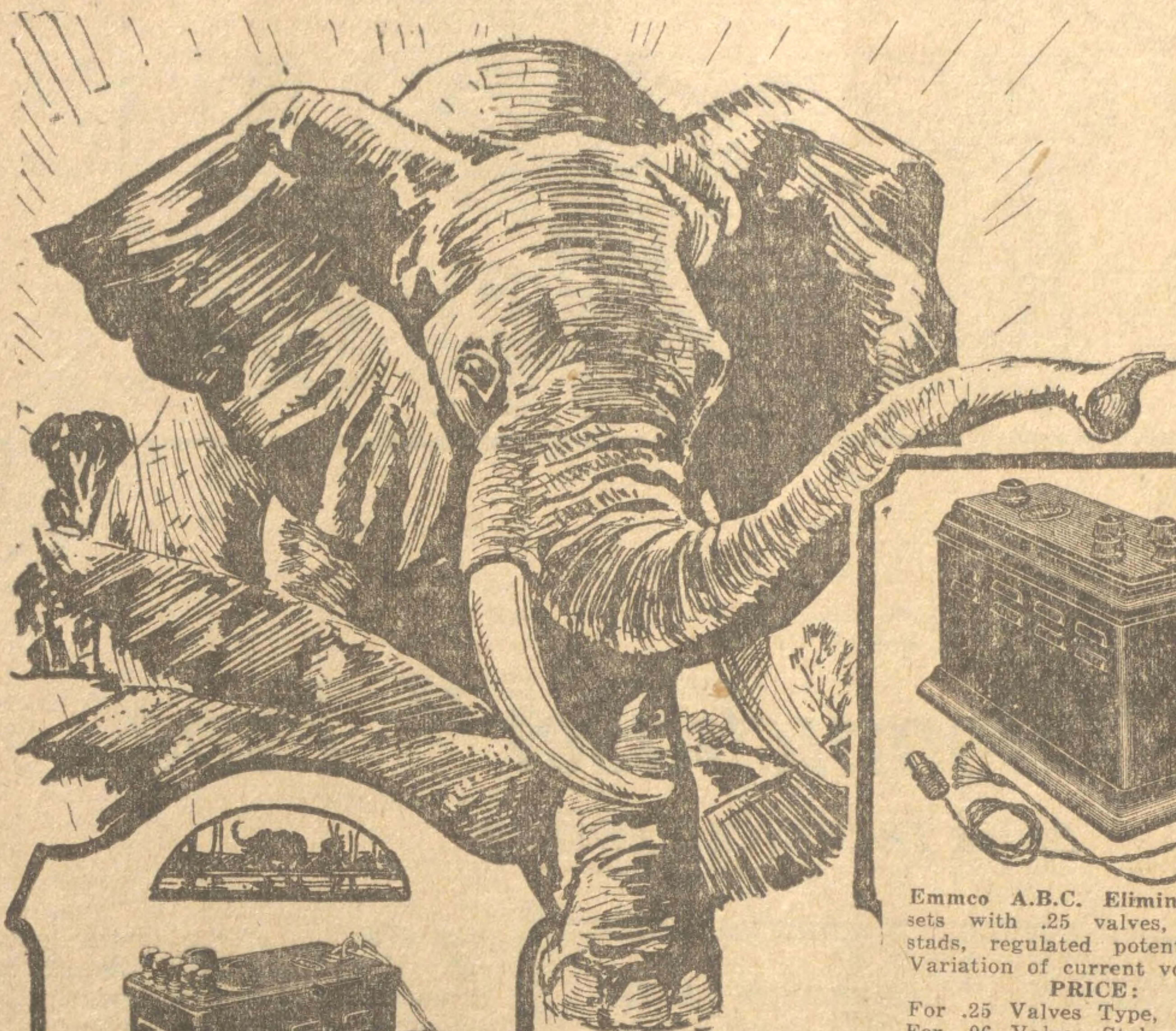
THERE are a great number of readers who confine themselves to "W.W.," and do not read "Radio," so that unless both journals are read, one is apt to miss interesting articles, which may, or may not, be published in both, according to readers' demands. In "Radio," for this month, is given a full detailed description, with photographs, of a new and unique receiver, "The Peridyne Five." So highly successful has the Peridyne been that we now place it before "W.W." readers, under the title of the "Gloomchaser Five." A very appropriate title is that!—as those who construct and use the receiver will find out. We are so enthusiastic about the imminent popularity of the Peridyne that we are now designating it as "W.W.'s" standard receiver, under the title heading above. One never really knows what the next advance in radio is going to be, but it is certain that there is a distinct tendency to simplicity, without any sacrifice of efficiency. Take, for instance, the Supersonic Heterodyne receiver. There are many other receivers of fairly simple design, which emulate the Super in performance, and which are a proof that we have not always been applying our knowledge to the best of use. A crystal detector is apt to be the object of scorn by many, but there are many methods of using the reliable crystal in conjunction with thermionic valves. The "regenerative interflex" principle is probably the best, and the Peridyne principle is an evolution of this combined with a special system of variable shield tuning. The credit for

COMPONENT PARTS REQUIRED

For the Gloomchaser Five.

- 1-Dilecto; Formica, or Hard Rubber Panel, 24 x 8 x 3-16-in.
- 1-Ditto Sub-panel, 23 x 10 x 3-16-in.
- 2-Benjamin Sub-Panel Brackets.
- 1-Radiokes Peridyne Coil Kit.
- 5-Benjamin UX Valve Sockets.
- 2-Inter-valve Transformers, 3½ to 1 ratio (A.W.A.).
- 1-Advance 3-Gang Condenser Unit, .00035, with three .0001 Fixed Condensers.
- Or, alternatively, 1 Advance Pantagraph, 3-Gang .0005 Condenser Unit.
- 2-Bradleystats.
- 1-30 ohm Rheostat.
- 2-Amperite or Brachstats.
- 1-.0001 Fixed Condenser.
- 1-Radiokes R.F. Choke.
- 1-Carborundum Crystal Detector, with Clip Mounting.
- 10-Moulded Topped Terminals.
- 1-Emmco De Luxe Vernier Dial.
- 1-Battery Switch.
- 1-Single Circuit Jack.
- 1-Royalty Electrad. Variable Resistance, 100,000 ohms.
- 16's Tinned Copper Wire, Insulating Sleeving, Solder, Flux, Screws for mounting, Sub-Panel Brackets, etc., etc.

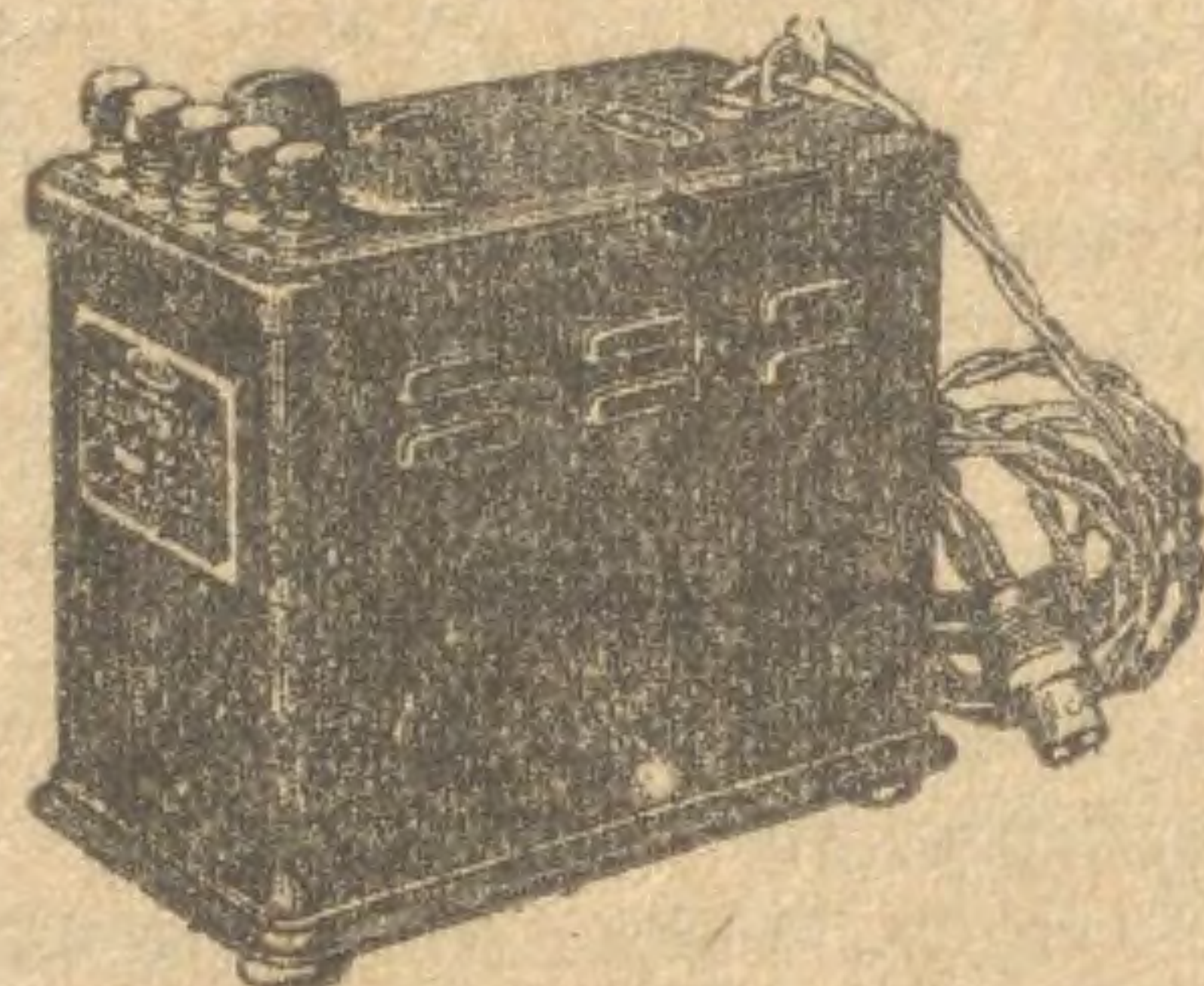
the evolution of the system goes to Mr. Hugo Gernsback, the editor of "Radio News" in America, who, after exhaustive tests, placed before the public a five-valve receiver, which, without a doubt, justifies all claims made for it. There is no difficulty in the construction, and it is equally simple to construct the receiver, as it is to build an ordinary Browning-Drake. The results obtained with the Peridyne, which we here call the "Gloomchaser Five," are at least better than many multi-valve receivers which rank in the "Rolls Royce" class. It was designed especially for long-distance work, and Mr. Gernsback claims that in the summer time he has, in New York, been able to bring in Pacific Coast stations at an airline distance of 2,400 miles. The variable shield tuning system enables such accurate balancing of the set that it is impossible to equal this with the average tuned radio frequency circuit employing a ganged control. At the same time, the set is definitely shielded, without the necessity for back of panel screening. There is only one tuning control used, in conjunction with a simple regeneration control, and a most desirable feature is that, although the set will oscillate strongly if required, there is no re-radiation. This means that your neighbors will not look upon you with disdain, as a suspected oscillator! Proof of this non-interfering quality may be had by placing another receiver alongside, and allowing the "Gloomchaser" to oscillate violently. The other receiver will not record any interference. This is a sweeping



Emmco A.B.C. Eliminator, for sets with .25 valves, separate stads, regulated potential also. Variation of current voltage.

PRICE:

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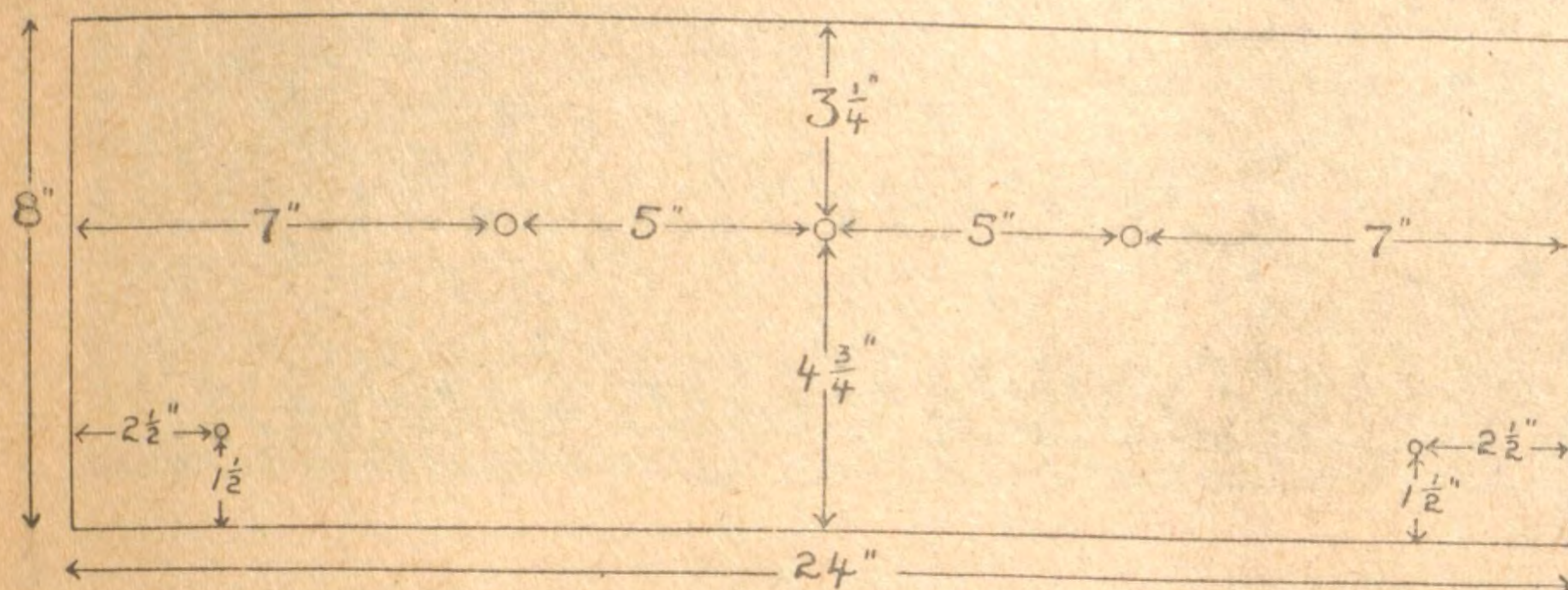
As the Leviathan of the Jungle silently exercises his mighty power — so do the EMMCO Eliminator Units place your set in the category of Super-excellent Reception — with a reserve of undistorted, and smoothly delivered

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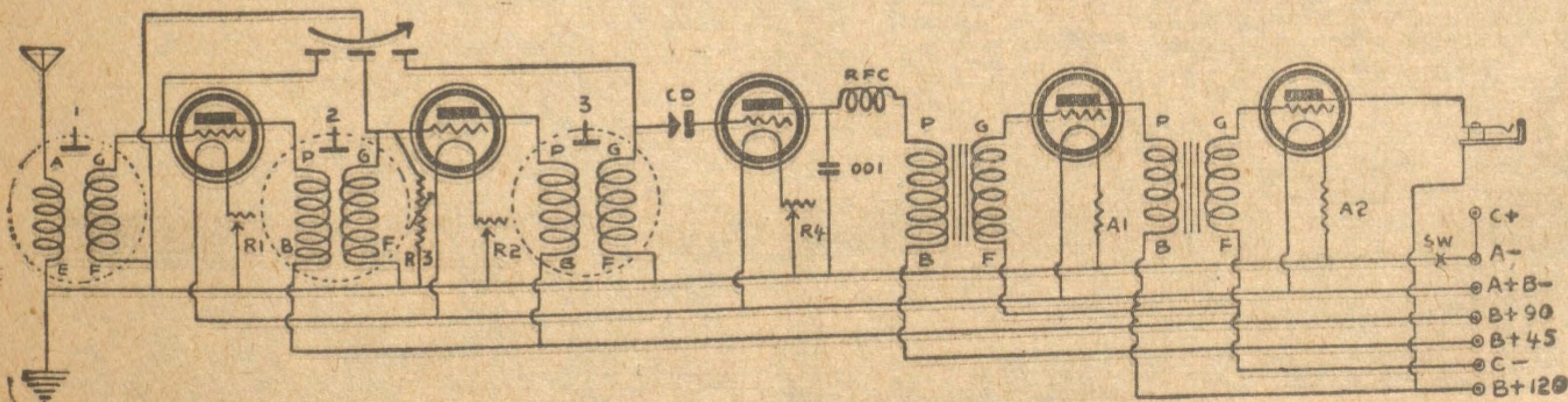
AT ALL DEALERS



statement to make, but, on testing, I found that Mr. Gernsback was correct. Consider the average-tuned radio frequency circuit. Neutralisation in some form is necessary for stable amplification, but neutralisation introduces serious losses. Practically no losses are present with the Peridyne principle, owing to the exact balancing of the shields. Shielding in any super-sensitive circuit, using two or more R.F. stages, is of extreme importance. Without shielding, a receiver will pick up a certain amount of energy by means of the coils themselves, which are acting as miniature aeri-als. If you are using a shielded receiver, you may prove this by disconnecting the aerial and earth, and removing the shields. Signals will be received quite strongly, but there will be a large amount of interference from the local stations and other sources. Keep the aerial and earth disconnected, and replace the shields, and you will find that it is almost impossible to receive any signals at all. There is nothing new in any way about the circuit of this receiver to be described, and the only innovation is the introduction of variable shield tuning. In the "regenerative interflex" circuit, a crystal detector is used in the grid lead of the first audio amplifier, and by this means does away with a valve. The "Gloomchaser Five," therefore, may be considered as a 6-valve instrument. There are three stages of audio amplification in effect, and the volume, without exaggeration, is enormous, without the slightest trace of distortion, provided that good intervalve transformers are used, and all potentials are correct. As the crys-

tal detector is a half-wave rectifier, the grid condenser and leak are dispensed with in this circuit. Readers may wonder why a three-gang condenser is used, without any compensating or trimming condensers. If this were so, the object of the variable shield would be defeated, as the shields themselves, with their micro adjustments, act as trimmers or compensators. This should be strictly remembered when using the receiver. A Royalty variable resistance, with a maximum of 100,000 ohms, controls oscillation, and provides an extremely smooth and gradual control, from zero to full volume. Here I will mention that the volume is enormous, with even only 90 volts "B" battery. The crystal detector to be used next demands attention. It is essential to use a carborundum crystal detector, of the permanent cartridge type. The carborundum crystal is practically the only one which will stand up to the work, and although other detectors may be used, I do not by any means recommend them. The action of the carborundum crystal is entirely different to crystals of the synthetic type, the reason being that carborundum operates most efficiently with a slight biasing potential. The circuit itself supplies this potential, and thus enables the carborundum to take the place of a valve. The effect may be tried when the receiver is in operation, by short-circuiting the crystal detector, when the volume will decrease by at least 50 per cent. It is not necessary to obtain the complete carborundum stabilised unit, but only the cartridge itself. It is of extreme importance that the crystal is connected the right way round, as it will

be found that in one position a much greater amount of volume will be obtained than in the other. The carborundum crystal is an old friend of seafaring wireless operators, and was used mainly because it would not burn up with the operation of a powerful transmitter nearby, and would retain a permanent adjustment. No fear may be entertained, therefore, for fussy operation in the "Gloomchaser Five" with the carborundum detector. The best way to test for the correct position of the detector is by tuning to an inter-State station, and noting which way round the detector works best. It will be found that if the detector is the wrong way around, local stations will still be strong, but long-distance reception will be almost non-existent. Remember this vital point when first testing the finished receiver. The coil kit used in the "Gloomchaser Five" is the Peridyne kit, manufactured by the Metropolitan Electric Co., Ltd., Sydney. In keeping with all Radiokes Products, this kit is of excellent and sturdy construction, and is precisely calibrated. The theoretical circuit diagram shows the comparative simplicity of the receiver. There are three units, numbered 1, 2, and 3. They consist of a conventional R.F. transformer, enclosed in a circular shield, or can. In the head of the shield is a threaded spindle, with a knob. This spindle carries a small disc, which is varied in position with regard to the R.F. transformer. A three-gang condenser unit is used, and each condenser has a capacity of 0005 mfd. Actually, the ganged unit used in the "Gloomchaser" is of Advance manufacture, and is of 00035 mfd. capacity. In order to bring each condenser unit to the required total capacity, a 0001 fixed condenser was bridged across each. If an Advance Pantograph condenser unit is used, it must be understood that under no circumstances must the trimming condensers be used. The grid filament circuit of the second valve has a resistor, R3, which is the Royalty Electrad Variable resistance, with a maximum value of 100,000 ohms. Resistances R1 and R2 are each Bradley-stats, and are mounted on the sub-



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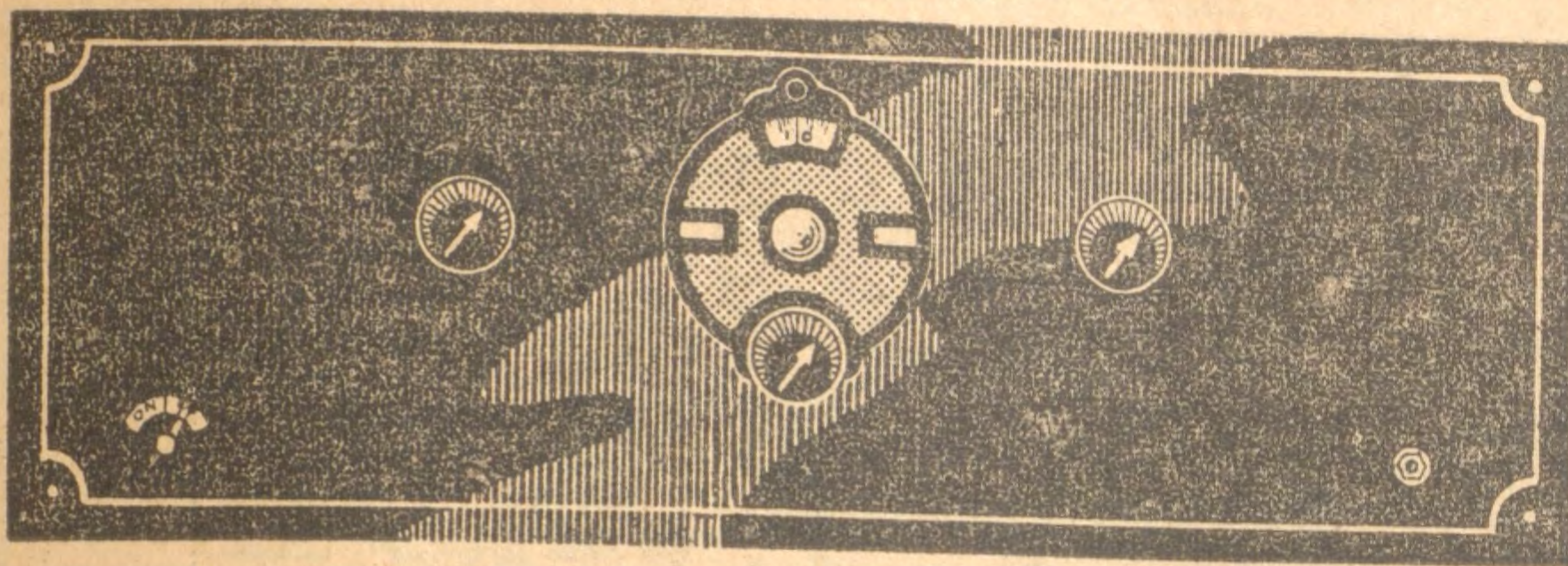
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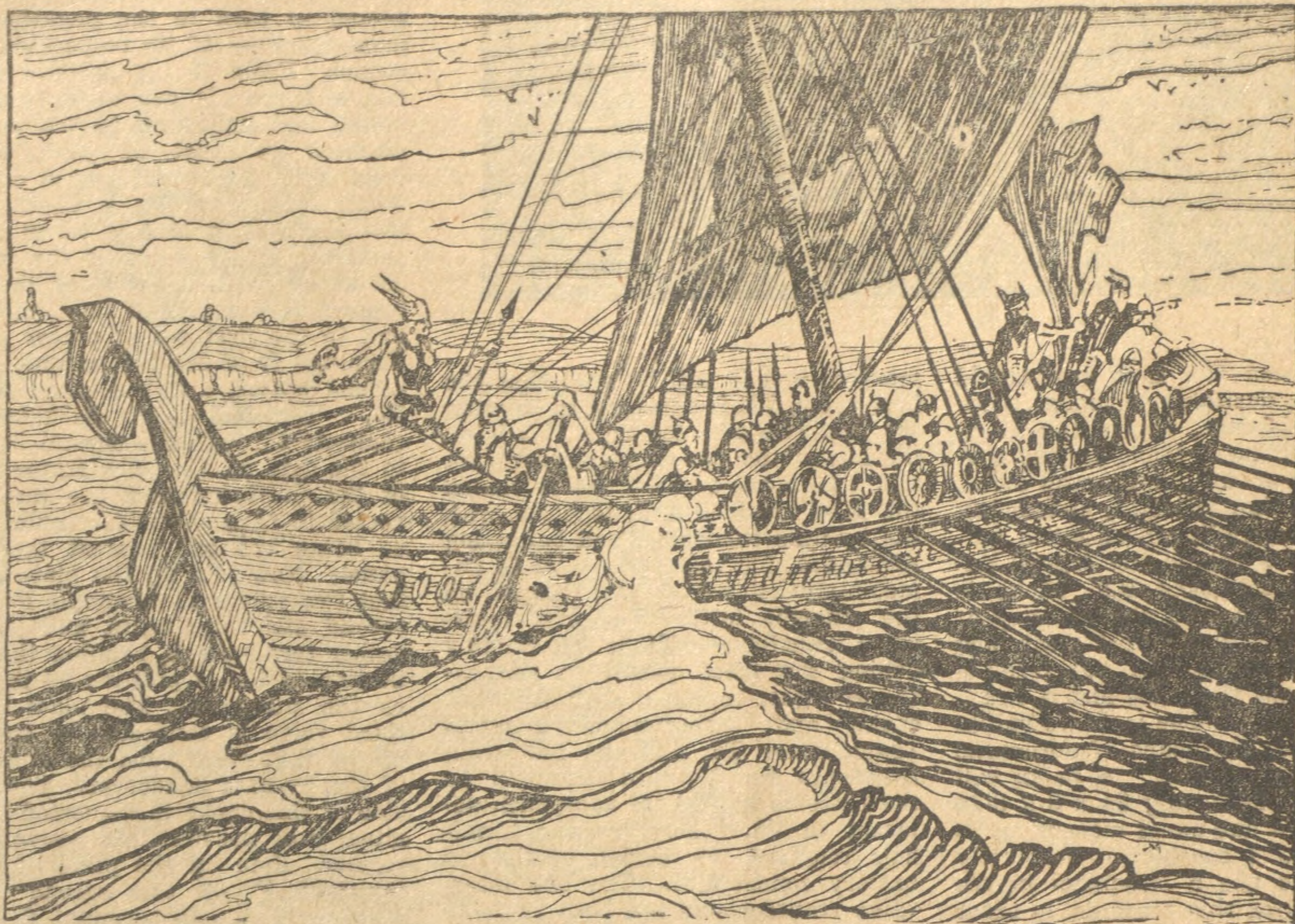


panel, between the first two shield units. It is desirable to mount these filament resistances on the sub-panel, as once a setting is found for the R.F. valves, they should be left well alone. R4 is a 30 ohm rheostat, controlling what is actually the first audio amplifying valve behind the crystal detector. A Radiokes R.F. choke is placed in series with the primary of the first inter-valve transformer, and a by-pass condenser of 001 mfd. is shunted across the plate and A negative of this valve. The last two valves are controlled by means of automatic ballasting resistances. A panel will be required, measuring 24 x 8 x 3-16 inches, and a sub-panel measuring 23 x 10 inches. I consider it absolutely necessary to use a sub-panel in the construction of this receiver, in order to keep stray wiring away from the R.F. units. Furthermore, the construction is greatly facilitated by so doing. All the filament leads are taken down through the sub-panel from the valve sockets. There is only one tuning control with the resistance R3, on the left of the front panel, being the regeneration control. On the other side is R4, the 30 ohm rheostat controlling the filament of the first audio amplifier. On the left of the panel, at the bottom, and underneath the sub-panel, is the battery switch. On the other side, in the same position, is the single circuit jack, for the output. There is no need to use more than one jack, as the output may be controlled from full volume to zero, so that headphones may be worn comfortably whilst searching for distance stations. From my experience, however, there should be no need to "search." If you are wearing headphones, do not make a mistake, and swing the volume control round to the full "on" position, otherwise you may suffer from deafness for quite a long time! Lay out the panel according to the template drilling diagram, and mark off the respective positions. There are only five holes required, excepting the holes for the fixing of the sub-panel brackets. The layout of the components on the sub-panel is very important, and no deviation should be made from this, excepting if the reader desires to use a Pantograph gang condenser unit. The positions are clearly

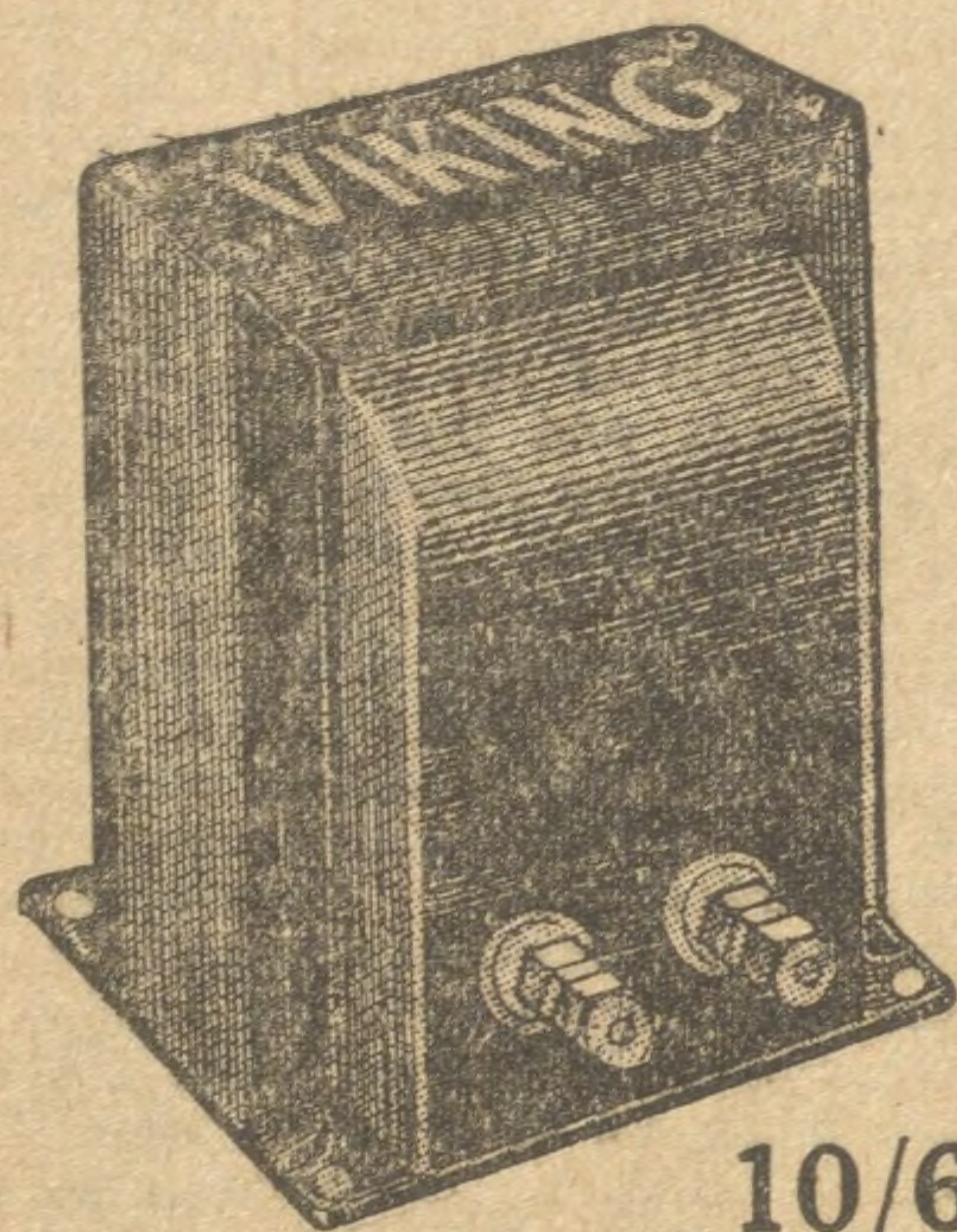
marked, and it will be seen that the first valve, V1, is arranged in between the first two shielded units. V2 is on the left of the ganged condenser unit, and V3 on the right. V4 is behind the third shielded unit, together with the by-pass condenser, and ballasting resistance, for this valve. V5 is immediately behind the front panel, on the extreme left. The first inter-valve transformer, T1, is immediately behind the front panel, on the extreme right, together with the R.F. choke and carborundum detector. Transformer T2, and the ballasting resistance for V5, are arranged on the extreme left of the sub-panel, adjacent to V5. There are ten terminals required, for aerial, earth, and battery connections. The two inter-valve transformers are both of $3\frac{1}{2}$ to 1 ratio, and of necessity must be of good quality. For this reason, A.W.A. transformers were chosen, but I am of the opinion that the new Philips transformer type 4003 will be found particularly suitable in the "Gloom-chaser." From left to right, the terminals for battery connections, etc., are as follows:—Aerial, earth, A negative, C positive, C negative, A positive, B negative, B positive 45, B positive 90, B positive 120. Commence the wiring of the receiver by linking together the C positive and A negative terminals, and the A positive and B negative terminals. Wherever possible, use insulated sleeving for the wire, or, alternatively, use insulated wire, such as Celatsite or Glazite.

A lead is run from the A negative, C positive, to the battery switch, underneath the sub-panel, and through this to one side of the ballasting resistances, controlling V4 and V5. The wiring will be simplified considerably if two main bus-bars are run underneath the sub-panel, and all necessary connections brought down through the holes drilled in the sub-panel. From the two filament resistances, a lead is taken to one side of the 001 by-pass condenser, and to one side of R4, also the two Bradleystats, R1 and R2. A connection is next taken to the earth terminal. Next, join the terminals marked F of each shielded unit to the A negative busbar. Now join up one side of R3 to this busbar. The other side

of each filament resistance is connected in turn to the negative filament terminal of its respective valve socket. From the A positive terminal, a busbar is run under the sub-panel, and linked up to the positive filament terminal of each socket. This completes the filament circuits. Next, from terminal F of the first shielded unit, a lead is taken to the combined rotor plates of the ganged condensers. Terminal G of this unit connect to the grid of the first valve, and to the first set of stator plates. Terminal G of the second unit to the second stator, and the other side of R3. Terminal G of the third unit connects through the crystal detector to the grid of V3. The stator plates of the third condenser are also connected to this. Consider condenser 1 as being the one nearest the front panel. Now join up the plate of the first two valves to terminals P of the second and third units, and link together terminals B, running this connection to the B positive 90 terminal on the sub-panel. The plate of the third valve is connected to one side of the R.F. choke, and the other side of the by-pass condenser. The other side of this choke is connected to terminal P of the first inter-valve transformer. Join up the plate of V4 to terminal P of the second transformer; next, join terminal B of the first transformer to the B positive 45 terminal, and terminal B of the second transformer to B positive 120 terminal and one side of the single circuit jack. The other side of the jack connects to the plate of V5. Join terminals G of the two transformers to the grids of the last two valves respectively, and link together terminals F, taking these down to the C negative terminal. Having connected up the aerial circuit, the wiring is complete, and the receiver may now be tested with suitable valves. There were many types of valves tried out, and in every case extraordinary results were obtained. Cossor valves were found particularly suitable, and those used were V1 410 red band, V2 410 red band, V3 410 red band, V4 410 black band, V5 410P green band. An excellent Osram combination was found in four DEL410's and one DEP 410. An excellent six-volt combination of Philips valves was tried, these being four A609 and one B605. Finally, the reliable general purpose UX201A was tried throughout, with equally fine results. On testing the receiver, with a B battery voltage of 90 and an indoor aerial consisting of 50 feet of Electron wire, strung around the picture rail of a room, in a block of flats in North Sydney, it so happened that the first station tuned in was 3LO. No music or speech was being transmitted at the time, and, thinking that I was tuned to 2BL, I waited for the announcement. It



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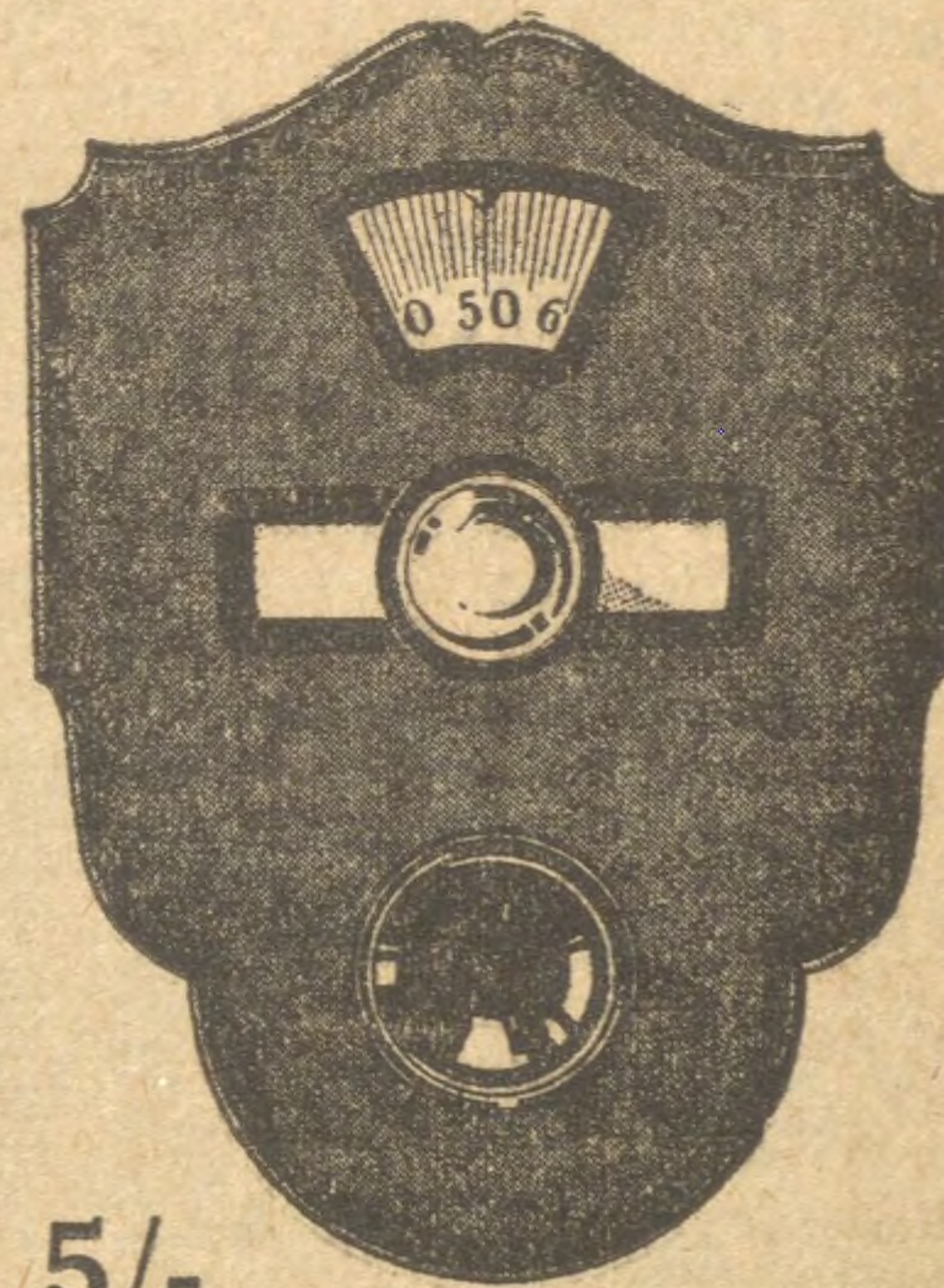


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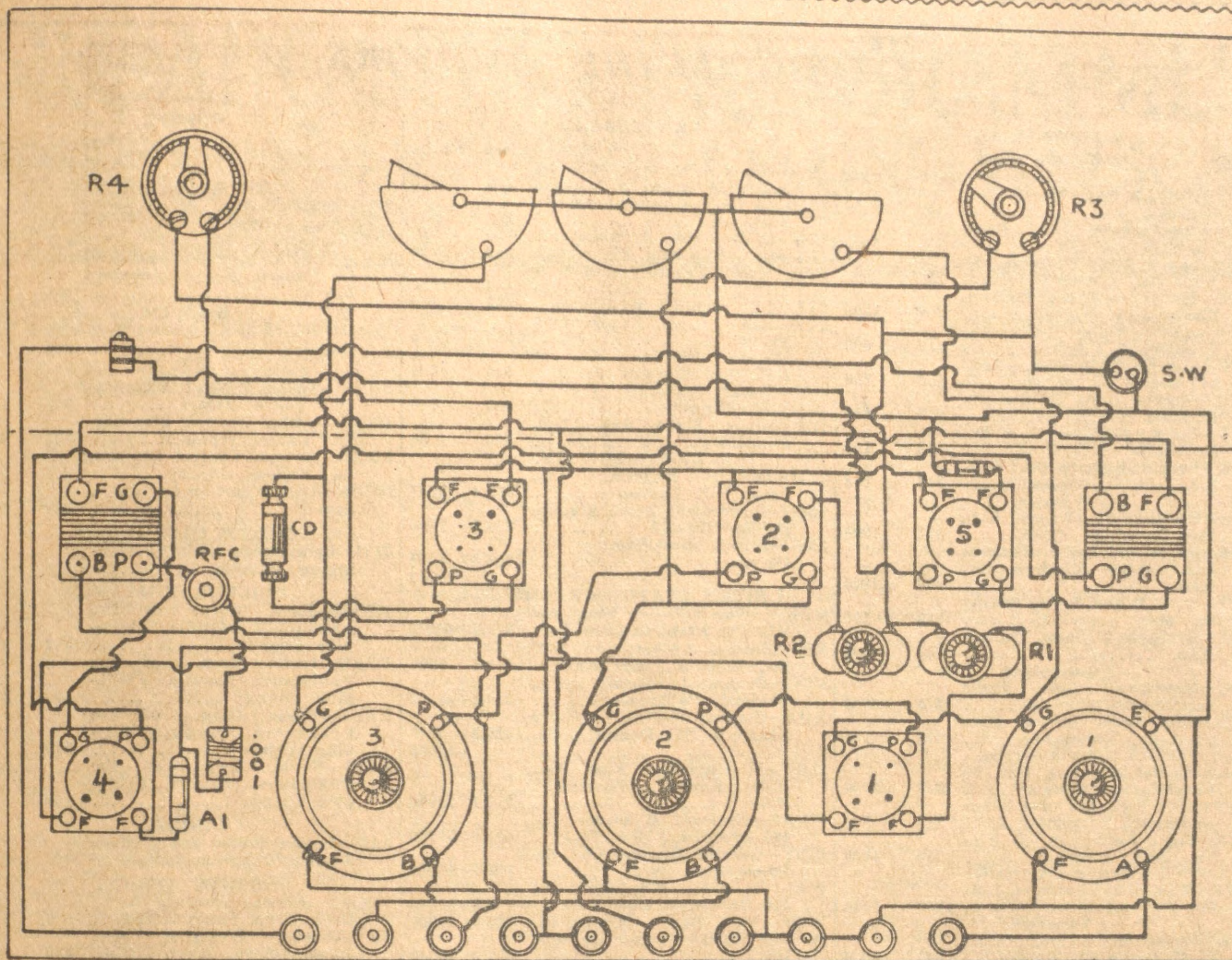
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was only when the announcement, "3LO, Melbourne," roared through the loud-speaker with the intensity of a Panatrophe that I realised the efficiency of the receiver. It was found that, after balancing the shielded units, the regeneration control could be left in one position, just below the point of oscillation, and the rotating of the dial simply brought in one station after another at incredible strength. It was interesting to note the difference with the crystal detector incorrectly connected; local stations were still strong, but the long-distance stations lost at least 60 per cent. of their strength. It must be remembered that, once the shields or compensators are set, they must be left alone, otherwise the balance of your receiver will be affected considerably. Nothing will be found lacking in selectivity. In fact, the receiver was ultimately tested on a high capacity aerial, normally used for transmission, and, contrary to expectations, the tuning was found to be remarkably sharp. A slight adjustment of the regeneration control and tuning enabled 3LO to be received at full volume, with 2BL in

the very distant background as a faint whisper. Careful adjustment of the Bradleystats controlling the R.F. valves brought 3LO up to the volume of 2BL without any trouble. One desirable feature of the "Gloomchaser Five" is that, although enormous volume is obtainable, it is obtainable without any trace of distortion. This receiver has been placed before readers as an example of a simply constructed, yet highly efficient, instrument, which will meet with immense popularity, and, in conclusion, the writer will be pleased to have reports from those who construct and operate the "Gloomchaser Five."

AUTOMATIC WIRELESS ALARM ON SHIPS.

ONE of the latest features of wireless equipment for ships is an automatic call-bell apparatus, called the "Auto-Alarm," which has recently been perfected, and passed by the navigation authorities. This apparatus is designed for use when the operator is off watch aboard ship. It is so designed that it will pick up a re-arranged signal (consisting of four second dashes), this operating

alarm bells in the wireless room, operator's sleeping quarters, and on the bridge, thus calling the operator out to receive the distress call. This pre-arranged signal is sent out preceding the usual SOS signal, used by ships when in distress. Special safeguards are provided on the Auto-Alarm, so that in the event of the valves burning out, or the batteries operating the instrument dropping below a safe minimum working voltage, the alarm bells are set ringing, thus ensuring the operator being called, and the fault rectified. The Auto-Alarm responds only to the pre-arranged signal, ignoring ordinary signals sent out by other stations.

Auto-Alarm sets have already been installed on the steamships Ferndale and Fordsdale by Amalgamated Wireless (Australasia), Ltd., and orders have been received to instal Auto-Alarm apparatus on the steamships Minderoo and Gascoyne, of the West Australian Steam Navigation Co., Ltd., Centaur, of the Ocean S.S. Ltd., Changte, and Taiping, of the Australian Oriental Line, Tanda, Arafura, and St. Albans, of the Eastern and Australian Steamship Co.

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2BL—Broadcasters, Ltd., Bligh St., Sydney	353	5000	1ZB—La Gloria Gramophone Co., Auckland	275	50	SOUTH AMERICA.		
2GB—Theosophical B'casting, 29 Bligh St., Sydney	316	3000	1ZQ—L. R. Leith, Auckland ..	330	50	LOS—Municipality of Buenos Aires, Buenos Aires, Argentine	291.2	
2KY—Trades and Labour Council, Goulburn St., Sydney	280	1500	1ZY—N. C. Shepherd, Whangarei,	250	15	SQIA—Radio Sociedade de Rio de Janeiro, Rio de Janeiro, Brazil	400	
2UW—2UW Radio Ltd., 213 Elizabeth St., Sydney	267	500	2YA—Radio B'casting Co., Wellington	420	5000	HAWAII.		
2UE—Electrical Utilities, Ltd., 619 George St., Sydney	293	250	2YK—2YK Limited, Wellington ..	292	120	KGM—"Honolulu Advertiser," Honolulu	270	500
2MK—Mockler Bros., Hawick St., Bathurst	275	250	2YF—Radio Club, Palmerston North	200	5	JAPAN.		
2HD—H. A. Douglas, King St., Newcastle	288	100	3YA—Radio B'casting Co. of N.Z., Christchurch	306	500	JOAK—Tokyo Central B'casting Co., Tokyo, Japan	375	1000
2BE—Burgin Electric Co., Ltd., 340 Kent St., Sydney	316	100	4YA—Radio B'casting Co. of N.Z., Dunedin	463	750	JOBK—Osaka Central B'casting Co., Osaka, Japan	385	1000
Victoria.			4ZB—Otago Radio Association, Dunedin	300	50	JOCK—Nagoya Central B'casting Co., Nagoya, Japan	360	1000
3LO—B'casting Co. of Aust., Ltd., 120a Russell St., Melb.	371	5000	GREAT BRITAIN.			JODK—Keijo B'casting Co., Keijo, Japan	345	1000
3AR—Associated Radio of Aust., Ltd., 44-46 Elizabeth St., Melb.	484	1600	2LO—British B'casting Co., Savoy Hill, London	361.4	3000	DUTCH EAST INDIES.		
3UZ—O. J. Nilson & Co., Bourke St., Melb.	319	100	2RN—Government Radio Station, Dublin, Ireland	319.1	1500	JFC—Bataviasche Radio, Jereen-inging, Batavia	220	40
3DB—Druleigh Business College, Melb.	255	500	5XX—British Broadcasting Co., Daventry	1604.3	5000	PHILIPPINE ISLANDS.		
Queensland.			UNITED STATES OF AMERICA.			KZRM—Radio Corp. of The Philippines, Manila, Philippine Islands	413	1000
4QG—Queensland Govt. Radio Service, Brisbane	385	5000	KDKA—Westinghouse Elec. and Mfg. Co., East Pittsburg, Pa.	315.6	50000	KZRQ—Radio Corp. of the Philippines, Manila, Philippine Islands	400	1000
4GR—Gold Radio Service, Margaret St., Toowoomba	294	100	KFI—Earle C. Anthony Inc., 1000 So., Hope St., Los Angeles	468.5	5000	KZKZ—Radio Corp. of the Philippines, Manila, Philippine Islands	270	500
South Australia.			KGO—General Electric Co., Oakland, California	384.4	5000	KZIB—Radio Corp. of the Philippines, Manila, Philippine Islands	260	500
5CL—Central B'casters, Ltd., 59 Franklin St., Adelaide	395	5000	KOA—General Electric Co., 1370 Krameria St., Denver, Colo.	325.9	5000	INDIA.		
5DN—5DN Pty., Ltd., 2-4 Mont- perier St., Parkside	313	500	-10000			5AF—Indian States and Eastern Agency, Calcutta, India	425	1500
5KA—Sport Radio Ltd., 51 Kintore Ave., Prospect	250	1000	WBZ—Westinghouse Elec. Co., Hotel Kimball, Springfield, Mass.	333.1	15000	SOUTH AFRICA.		
Western Australia.			WEAF—National B'casting Co., 195 Broadway, New York ..	491.5	50000	WAMG—African B'casting Assn., Cape Town, South Africa ..	375	1500
6WF—Westralian Farmers Ltd., 569 Wellington St., Perth ..	1250	5000	WGY—General Electric Co., So. Schenectady, N.Y.	379.5	50000	JB—African B'casting Co., Johannesburg, South Africa, ..	450	500
Tasmania.			WJZ—National B'casting Co., 195 Broadway, New York ..	454.3	30000			
7ZL—Tasmanian B'casters Ltd., 95 Elizabeth St., Hobart ...	535	3000	WGN—WGN Radio, Chicago, Ill.	305.9	15000			
			WLIB—WLIB Radio, Chicago, Ill.	305.9	15000			

Short Wave Stations

GREAT BRITAIN.		Wavelengths	HOLLAND.		Wavelengths.	SAMOA.		Wavelengths
5SW—Marconi Company, Chelmsford, England	24		PCJJ—Phillips' Experimental Station, Hilversum, Holland ..	30.2		VMG—Samoa	33	
2YT—Poldhu, England,	25, 32, 92, 94		PCLL—Phillips Lamps, Ltd., Kootwijk, Holland	32.5, 46		JAVA.		
2NM—Gerald Marcuse, Queen's Park, Caterham, Surrey, England	32.5 and 28 metres		PCTT—Phillips' Lamps, Ltd., Kootwijk, Holland	21		ANF—Malabar, Java	56	
UNITED STATES.			PCMM—Phillips' Lamps Ltd., The Hague, Holland	25		JFC—Bataviasche Radio Vereen-inging, Batavia, Java	220	40
2XAG—General Electric Co., New York, U.S.A.	14, 16, and 42		PCPP—Phillips' Lamps Ltd., Kootwijk, Holland	27		ANDIR—Bandoeng, Java	38.5	
NXF—Bellevue, Annacosta D.C., ..	16, 17, 20.8, 84, 81.5, 71.3, 54.4, 50		PCUU—Phillips' Lamps Ltd., The Hague, Holland	42		ANE—ANE Radio, Malabar, Java	32, 31.26	
2XAF—General Electric Co., Schenectady, New York, U.S.A.	32.77, 32.0		UNION OF SOVIET SOCIALIST REPUBLICS.			COMMERCIAL STATIONS.		
WCY—Schenectady, N.Y.	32.79		RFN—U.S.S.R., Moscow	29		VIA—Amalgamated Wireless (A/sia, Ltd.), Adelaide ...	21, 32, 50	
NPG—San Francisco, Calif. ..	40, 48, 81		RFM—U.S.S.R., Khabarovsk, Siberia	60 and 30		VIB—Amalgamated Wireless (A/sia, Ltd.), Brisbane ...	21, 32, 50	
2XAL—"Radio News," New York, U.S.A.	30.91		RFL—			VIT—Amalgamated Wireless (A/sia, Ltd.), Townsville ..	32	
KFKX—Hastings, Nebr.	56		ITALY.			VJZ—Amalgamated Wireless (A/sia, Ltd.), Rabaul	17, 21, 32	
WGN—Western Electric Co., Long Island, N.Y.	75		IMI—Unione Radiofonica Italiana, Milan	45 metres		VIM—Amalgamated Wireless (A/sia, Ltd.), Melbourne, ..	20, 21, 31.8, 49	
WLW—Crossley Radio Co., Cincinnati, U.S.A.	52		IDO—Ido Radio, Italy	33.5		VIS—Amalgamated Wireless (A/sia, Ltd.), Sydney	20, 32, 50, 51	
KDKA—Westinghouse Elec. and Mfg. Co., East Pittsburg, U.S.A.	63.5, 42 and 14 (8XK and 8XP).		SOUTH AFRICA.			VIP—Amalgamated Wireless (A/sia, Ltd.), Perth	21, 32, 50	
WJZ, WJZ Radio, Bound Brook, N.J., U.S.A.	Various wavelengths		JB—Johannesburg Broadcasting Co., Cape Town, South Africa	20 and 25		VIY—Amalgamated Wireless (A/sia, Ltd.), Melbourne ...	25	
WGY, WGY Radio, Schenectady, N.Y., U.S.A.	15 to 100 metres		JAPAN.			VIZ—Amalgamated Wireless (A/sia, Ltd.), Melbourne ..	25.72	
2XAC, 2XAD, 2XAF (as above) for WGY.			JIPP—JIPP, Tokio, Japan	20		2ME—Amalgamated Wireless (A/sia, Ltd.), Sydney	28.5	
WHAM and 8XAC, WHAM, Radio, Rochester, N.Y., U.S.A.	Various wavelengths		JIJA—Iwatsuki, Japan	79		3ME—Amalgamated Wireless (A/sia, Ltd.), Melbourne ..	31.5	
2XG—Western Electric Co., New York, U.S.A.	16 and 23.		JKZB—JKZB, Tokio Electric Co., Tokio, Japan	20		SHIP STATIONS.		
INDO CHINA.			GERMANY.			GBE—S.S. "Niagara"	37, 23	
HVA—Hanoi, Indo China	31.5		POX—POX, Nauen, Germany ..	70		GDZV—S.S. "Makura"	23, 37	
			POZ—POZ Radio, Nauen, Germany	19 metres		MTN—S.S. "Tahiti"	37, 23	
			SUVA.			GDVB—S.S. "Aorangi"	37, 23	
			VPD—Suva Radio, Amalgamated Wireless (A/sia), Ltd.	37.5		VZDK—S.S. "Jervis Bay"	37	
						PMZ—S.S. "Tasman"	29, 51	
						ARCX—S.S. "Nielsen Alonso" ..	30.4	

BROADCASTING PROGRAMMES

For the COMING WEEK

Friday, May 4

2FC, SYDNEY

Farmer's Broadcasting Service.
Wave Length, 442 Metres.

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 Reading.
- 10.45 a.m.—Studio music.
- 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.
- 1.30 p.m.—Gladys Aubin, soprano.
- 1.35 p.m.—Studio music.
- 1.55 p.m.—Gladys Aubin, soprano.
- 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and announcements.
- 3.5 p.m.—Joyce Gillespie, soprano.
- 3.10 p.m.—George McNeilly, tenor.
- 3.15 p.m.—Popular Records.
- 3.25 p.m.—Phyllis Broadbent, soprano.
- 3.30 p.m.—Studio music.
- 3.35 p.m.—Mde. Evelyn Grieg will continue her series of talks on "The Art of Listening to Music":
- No. 2. The Pianoforte and the Interpreter."
- 3.50 p.m.—Fosse Brakell, contralto.
- 3.55 p.m.—George McNeilly, tenor.
- 4 p.m.—"Big Ben."
- Joyce Gillespie, soprano.
- 4.5 p.m.—Studio music.
- 4.15 p.m.—A Reading.
- 4.30 p.m.—Phyllis Broadbent, soprano.
- 4.35 p.m.—Studio music.
- 4.45 p.m.—Stock Exchange, third call.
- 4.47 p.m.—Fosse Brakell, contralto.
- 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.
- 6.25 p.m.—Children's music.
- 6.30 p.m.—Late sporting news.
- 6.35 p.m.—Dalgety's market reports (wool, wheat, stock).
- 6.43 p.m.—Fruit and vegetable markets.
- 6.47 p.m.—Weather and shipping intelligence.
- 6.50 p.m.—W. F. Kay in a new series of Theatrical talks:

No. 1. "A Stranded Actor."

7 p.m.—Dinner music.

7.30 p.m.—Late "Evening News" news service.

NIGHT SESSION.

A THEATRICAL NIGHT.

- 7.40 p.m.—Programme announcements.
- 7.45 p.m.—Rev. F. H. Raward:
Talk: "Let's Go Round the World."
- 8 p.m.—"Big Ben."
- From Her Majesty's Theatre, Sydney (by permission of J. C. Williamson, Ltd.):
The First Act of a new Musical Comedy.
- 9.10 p.m.—From the Studio:
William Dallison, tenor.
- 9.18 p.m.—W. F. Kay will continue his series of Theatrical talks dealing this evening with the late George Coppin.
- 9.33 p.m.—Oliver King, bass.
- 9.42 p.m.—Lindley Evans, pianoforte solos.
- 9.50 p.m.—The Ambassadors Dance Orchestra.
Conductor, Al Hammet.
- 10 p.m.—"Big Ben."
- William Dallison, tenor.
- 10.8 p.m.—Lindley Evans, pianoforte solos.
- 10.16 p.m.—The Ambassadors Dance Orchestra.
Conductor, Al Hammet.
- 10.25 p.m.—Oliver King, bass.
- 10.32 p.m.—From the Ambassadors:
The Ambassadors Dance Orchestra.
- 10.40 p.m.—From the Studio:
Late weather forecast.
Studio music.
- 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.

Broadcaster's Ltd.

Wave Length, 353 Metres.

FRIDAY, 4th MAY, 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.
Talk on "Croquet" by Miss Varley. Talk on "Feeding the Family" by Mrs. Jordan.
- 12 noon.—G.P.O. Clock and chimes.
Special Ocean Forecast and weather report.
- 12.3 p.m.—Musical programme from the studio
- 12.10 p.m.—Information, Mails, Shipping, and port directory.
- 12.13 p.m.—Boats in call by wireless.
- 12.15 p.m.—Fruit Market report.
- 12.17 p.m.—Vegetable Market report.
- 12.19 p.m.—London Metal Market report.
- 12.21 p.m.—Dairy Farm and Produce Market report.
- 12.24 p.m.—Forage Market Report.
- 12.26 p.m.—Fish Market Report.
- 12.28 p.m.—Rabbit Market report.
- 12.30 p.m.—H.M.V. Gramophone Recital.
- 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.
Talk by Mrs. Jordan.
- 3.15 p.m.—Civil Service Stores Trio—direction Miss de Courcey Bremer.
Talk on "Sweets" by Miss Kathleen Jordan.
- 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."
- 4.57 p.m.—Features of evenings 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.
- 6.30 p.m.—Gulbrandsen Dinner Music.

SPECIAL COUNTRY SESSION.

- 7 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. Report.
- 7.15 p.m.—Country news from the "Sun."
- 7.30 p.m.—Talk on "Gardening Science" by Mr. Cooper, Park Superintendent City Council.

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and chimes.
Broadcasters Topical Chorus.
- 8.3 p.m.—The Rose Bay Winter Garden Theatre Symphony Orchestra under the direction of Mr. Lionel Hart.
- 8.13 p.m.—Mr. Clement Williams, baritone.
- 8.20 p.m.—The Rose Bay Winter Garden Theatre Symphony Orchestra.
- 8.26 p.m.—Mr. Micheal O'Connell, elocutionist
- 8.33 p.m.—Instrumental Solo.
- 8.40 p.m.—Miss Amy Ostinga, contralto.
- 8.47 p.m.—The Rose Bay Winter Garden Theatre Symphony Orchestra.
- 8.54 p.m.—Miss Winifred Lavis, songs at the piano.
- 9.1 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist.
- 9.2 p.m.—The Sporting Editor of the "Sun" will talk on the prospects of Saturday's racing.
- 9.17 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.
- 9.24 p.m.—Mr. Clement Williams.
- 9.31 p.m.—Violin Solo.
- 9.38 p.m.—Mr. Micheal O'Connell.
- 9.45 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.
- 9.52 p.m.—Miss Amy Ostinga.
- 9.59 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.
- 10.6 p.m.—Miss Winifred Lavis.
- 10.13 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.
- 10.18 p.m.—Resume of following day's programme.

10.28 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.

2GB, SYDNEY

Theosophical Broadcasting Service.
Wave Length, 316 Metres.

FRIDAY, 4th MAY, 1928.

MORNING SESSION.

10 a.m.—Music.
10.10 a.m.—Happiness Talk by Alfred E. Bennett.
10.20 a.m.—Music.
10.30 a.m.—Women's Session by Miss Helen J. Beegling.
11 a.m.—Close down.

AFTERNOON SESSION.

2 p.m.—Music.
2.20 p.m.—Address.
2.35 p.m.—Music.
3 p.m.—Close down.

EVENING SESSION.

6.30 p.m.—Children's Session by Uncle George.
7 p.m.—Stock and Market reports by New Zealand Loan and Mercantile Agency Ltd.
7.15 p.m.—Music.
7.30 p.m.—Address.
8 p.m.—Opening Chorus.
8.2 p.m.—Overture by Orchestra from Hoyts de Luxe Theatre.
Leader, Mr. Ray Henderson.
8.15 p.m.—Address by Dr. P. K. Roest and A.E. Bennett.
8.30 p.m.—Songs by Miss Florence Gordon.
8.37 p.m.—Violin Solos by Mr. Dan Scully.
8.45 p.m.—Songs by Mr. Cecil Houghton.
8.52 p.m.—Pianoforte Solos by Miss Ada Brook.
9 p.m.—Humorous Recital by Mr. Heath Burdock.
9.20 p.m.—Songs by Miss Florence Gordon.
9.30 p.m.—Hoyt's de Luxe Theatre Orchestra.
9.45 p.m.—Songs by Mr. Cecil Houghton.
9.52 p.m.—Violin Solos by Mr. Dan. Scully.
10 p.m.—Close down.

2 UW, SYDNEY

Sandel Radio, Ltd.

Wave Length, 267 Metres.

FRIDAY, 4th MAY, 1928.

EVENING SESSION.

7 p.m.—Studio items.
7.10 p.m.—Where to Go Session.
7.14 p.m.—Dinner Music.
7.45 p.m.—Vocal and instrumental items.
8 p.m.—News, mails and shipping.
8.20 p.m.—Studio items.
8.45 p.m.—Weather report.
8.48 p.m.—Dance music.
9.15 p.m.—Request numbers.
9.35 p.m.—Dance music.
10 p.m.—Announcements and close down.

3LO, MELBOURNE

Broadcasting Co. of Aust.
Wave Length, 371 Metres.

FRIDAY, 4th MAY, 1928.

EARLY MORNING SESSION.

7.15 a.m.—Morning Melodies.
7.20 a.m.—PHYSICAL CULTURE EXERCISES (to music).

7.27 a.m.—Morning Melodies.
7.33 a.m.—WEATHER FORECAST for all States. Mails.
7.40 a.m.—NEWS.
8 a.m.—Melbourne Observatory Time Signal.
8.1 a.m.—Morning Melodies.
8.5 a.m.—News. Sporting information. Shipping. Stock Exchange fluctuations.
8.13 a.m.—Morning Melodies.
8.15 a.m.—Close down.

MORNING SESSION.

11 a.m.—3LO'S CULINARY COUNSELS, or How to Create Creature Comforts with a Minimum of Cash.

PASSION FRUIT JAM.

Six dozen passion fruit. Water. One large cup sugar to a small cup pulp. Wash fruit and cut in halves, scoop out pulp and seeds. Put two-thirds of the shells into pan, press down and cover with water. Boil with lid on saucepan about half-an-hour (until the inside of shell is soft). Drain water off into the basin with the pulp; scoop out the soft inside of the shell, and add it to the pulp. Measure into the preserving pan, add sugar, allowing one large cup of sugar to every small cup of pulp. Boil quickly for 25 minutes. Bottle in warm jars, and cover when cold.

MY LOVE—"She hath no scorn of common things,

And though she seem of other birth,
Round us her heart entwines and clings,
And patiently she folds her wings
To tread the humble paths of earth."

—J. R. Lowell.

11.5 p.m.—J. HOWLETT ROSS:
"Catherine Spence, a Notable Australian."
11.20 p.m.—Musical interlude.
11.25 p.m.—"AU FAIT":
"Shopping Abroad."

11.40 p.m.—Musical interlude.

11.45 p.m.—Under the Auspices of the Public Health Department, DR. VERA SCANTLEBURY will speak on:

"The Economic Aspect of Infant Welfare."

MIDDAY 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. Reuter's and the Australian Press Association Cables. British Official Wireless news from Rugby. "Argus" news service.

12.20 p.m.—THE GYPSY PLAYERS:
"Cachura—Spanish Dance" (Hadley).
"Spanish March" (Lope).

12.30 p.m.—MINA HESELEVA, Soprano:
Two Russian Songs by Arenski.

12.37 p.m.—Stock Exchange information.

12.40 p.m.—T. JAMES LLOYD, Tenor:
"A Song of Araby."
"A Hundred Moonlit Miles Away" (Herbert Ivey).

12.47 p.m.—DOROTHY ROXBURGH, viola:
Selected.

12.54 p.m.—THE GYPSY PLAYERS:
"Italian Vespers" (Logan).

1.4 p.m.—MINA HESELEVA, Soprano:
Romance—"Life for the Czar" (Glinka).
"Bolero" (Verdi).

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

THE FOUNDATIONS OF MUSIC.

1.18 p.m.—BESSIE GAUNSON, Violinist, will to-day give her final selection of the works of Mozart.
"Sonata No. 8" (Mozart).

1.28 p.m.—T. JAMES LLOYD, Tenor:
"Indian Dawn" (Zamecnik).
"The Little Old Garden" (Hewitt).
1.35 p.m.—THE GYPSY PLAYERS:
"Russian Rural Scene" (Friml).
1.45 p.m.—Close down.

AFTERNOON SESSION.

A FEW SELECTIONS FROM CHAMINADE.

2.15 p.m.—THE STATION ORCHESTRA:
"Serenade" (Victor Herbert).
"Andantino Idillico" (Drago).
2.24 p.m.—MINA HESELEVA, Soprano:
"L'ete" (Chaminade).
Selected.
2.31 p.m.—THE STATION ORCHESTRA:
"Autumn" (Chaminade).
Air de Ballet, "Pas Des Amphones"—a dance of the Vases (Chaminade).
2.40 p.m.—RUPERT HAZELL AND ELSIE DAY:
"Harmonylarity."
2.53 p.m.—THE STATION ORCHESTRA:
"Scarf Dance" (Chaminade).
"Memories" (Alstyne).
3.1 p.m.—FRANCES FRASER:
"Travels in Arcadia and Utopia."
3.15 p.m.—MINA HESELEVA, Soprano:
"Bell Song from 'Lakme'" (Delibes).
"He Loves Me Not" (Mascagni).
3.23 p.m.—THE STATION ORCHESTRA:
Selection, "The Student Prince" (Romberg).

PIANO RECITAL.

3.35 p.m.—HENRI PENN, Piano:
"Toccata" (Debussy).
"Prelude" (Debussy).
"Arabesque" (Debussy).
"Tarantelle" (Debussy).
3.48 p.m.—VICTOR BAXTER, Tenor:
"The Living God" (O'Hara).
"A Red Rose" (Murray Gibbs).
3.55 p.m.—THE STATION ORCHESTRA:
"The Three Bears from the Fairy Story—Goldilocks and The Three Bears" (E. Coates).
"March of the Dwarfs."
4.8 p.m.—MADOLINE KNIGHT, Contralto:
In old-time favorites:
"Listening."
"Love the Pedlar."
4.15 p.m.—CHARLES McFEE, Alto Saxophone:
"Visions D'amour" (Wiedoft).
4.19 p.m.—VICTOR BAXTER, Tenor:
"The Prize Song"—"The Meistersingers" (Wagner).
"If I Might Come to You" (Squire).
4.26 p.m.—THE STATION ORCHESTRA:
"Song of India" from "Sadko" (Rimsky-Korsakov).
"Pale Moon" (Logan).
4.36 p.m.—Special Weather Report from Adelaide; Special Weather Forecast for Melbourne Districts.
4.37 p.m.—MADOLINE KNIGHT, Contralto:
Old Time Favorites:
"In Sweet September."
"Sunshine and Rain."
4.45 p.m.—THE STATION ORCHESTRA:
Selection, "Maid of the Mountains."

NEWS SESSION.

5.0 p.m.—"Herald" News Service; Stock Exchange Information.

5.15 p.m.—Close Down.

EVENING SESSION.

6.0 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
6.20 p.m.—Musical Interlude.
6.25 p.m.—CAPT. DONALD MacLEAN:
The Spanish Conquests of America—"How the Dons discovered the Treasures of the World."
6.40 p.m.—Musical Interlude.
6.45 p.m.—"BILLY BUNNY" has a Story to tell you.



Just as a leaf will tremble in a breath of air that does not move a twig upon the tree, so the cone of a super-responsive loudspeaker will vibrate to delicate tones that are absolutely lost to other speakers.



"Unmuffle your Radio
—and let it Sing."

SUPER-responsiveness—that is what the Radio Corporation of America and its great associates have accomplished in the Model 100A Loudspeaker—responsiveness to every tonal subtlety of voice and instrument. Reproduction is clearer, richer, fuller, when you fit a Model 100A to your set. The delicately responsive, corrugated floating cone of the Model 100A pulsates with each tiny impulse of the new-type step-up lever arm—to impulses that would be "gagged" by a less sensitively adjusted speaker. Hear the Model 100A to-day. Unmuffle your radio and let it sing. The handsomest as well as the most efficient speaker you can buy, the Model 100A, is made of heavy dull bronze and retails for £10/10/—.

AUSTRALIAN

GENERAL

Australian General

93-95 Clarence Street, SYDNEY
Civic Centre - - CANBERRA



ELECTRIC

Electric Company, Ltd.

53 King Street, NEWCASTLE
611 Dean Street - ALBURY

NEWS AND MARKET REPORTS.

- 7.0 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 Fruiterers' Association; Citrus Fruits.

NIGHT SESSION.

- 7.30 p.m.—Under the Auspices of the Agricultural Department, H. A. MULLETT, will speak on:
"Wheat Growing—Sowing the Crop."
- 7.45 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.
- 7.55 p.m.—Announcements. Birthday Greetings and Programme Announcements.
- 8 p.m.—TRANSMISSION FROM WONTHAGGI—Concert from Union Theatre. Chairman: Mr. W. G. MCKENZIE, M.L.A. Accompanist: Miss MACONACHIE. Opening Speech by Chairman.
- BILLY HAINES AND CO:
Ten Minutes of Fun on the "Powlett."
- THE WONTHAGGI CHOIR:
"Australian National Anthem."
- ALBERT PETERS, Violin:
"Classical Gems."
- FRANK BAXTER, Baritone:
"Toreador's Song" (Carmen).
- MASTER CHARLES WHITE, Wonthaggi's young cornetist:
"Zelda" (Percy Code).
- CHARLOTTE FOWLER, song with violoncello obligato:
"A Perfect Day."
- EDITH STIBBS, Elocutionist:
Musical Monologue, "The Game of Life"
- THE WONTHAGGI CHOIR:
"Oh, who will o'er the downs?"
- AGNES FOWLER:
"The Broken Melody."
- ALBERT PETERS, Violin:
"Spring Song."
- MASTER ANGUS CARMICHAEL, The Boy Soprano:
"In an Old-Fashioned Town."
- ANNIE PETERS, Descriptive Piano Solo:
"The Battle of Abyssinia."
- CHARLOTTE AND AGNES FOWLER, Duet,
"The Rosary."

INTERVAL.

FROM THE STUDIO.

- HENRI PENN, Piano Recital.
"Ballade No. 1" (Chopin).
"Butterfly" (Grey).

FROM WONTHAGGI.

Let us gather round the Camp Fire on Bill Stibbs' Goanna Farm for music—serious and otherwise! Mostly otherwise!

FROM THE STUDIO.

- 10.25 p.m.—ERIC WELCH will speak on:
"To-morrow's Races."
- 10.35 p.m.—THE STATION ORCHESTRA:
"The Voice of the Bells."

NEWS SESSION.

- 10.45 p.m.—"Argus" news service. Meteorological information. British Official Wireless news from Rugby. Road Notes, supplied by the Royal Automobile Club of Victoria. Announcements.

R.A.C.V. SAFETY MESSAGE FOR TO-DAY IS:

"All the earth's treasure cannot buy life and sound limbs. Take every care for their safety."

THE OLYMPIC GAMES.

"Tickle" Whyte ran 1500 metres in 4-min. 4-sec on a slow track and without serious competition. The world's record is 3-min. 53-sec. Whyte will compete at the Olympic Games in this event and will get serious competition on first-class cinder track. Give him the chance of doing better figures. Subscribe to the Lord Mayor's Olympic Fund. 3LO Melbourne will be pleased to receive donations towards the fund.

11 p.m.—OUR GREAT THOUGHT.

THE SHRINE OF REMEMBRANCE:

"'Twas not in hot desire of sudden fight,

In thought of glory of applauding cheers—
Ah, NO. They saw stern Duty's light,
And followed it despite their fears.

They fought and dying wrote Australia's name

In golden letters on the page of Fame."
Brig.-Gen. C. H. Brand.

11.1 p.m.—THE VAGABONDS.

DANCE MUSIC.

11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

Associated Radio Co.

Wave Length, 484 Metres.

FRIDAY, 4th MAY, 1928.

MORNING NEWS SESSION.

11 a.m. to 12 noon.

MIDDAY CONCERT SESSION.

12 noon to 1 p.m.

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

MATINEE SESSION.

ORCHESTRAL DANCE CONCERT.

- 2 p.m.—Ayaz 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:
Suite Espagnole, "La Feria" (Laocme).
"Serenade" (Drdla).
- 2.46 p.m.—Miss Valerie Walsh, contralto:
"Within the Garden of My Heart" (Alicia Scott).
"When the Night with Stilly Silence" (Parish Robertson).
- 2.54 p.m.—Melbourne Concert Orchestra:
"Victor Herber's Favorites" (Herbert).
- 3 p.m.—Mr. Ronald Brearley, cello, and Mr. Richard Chugg, flute:
Duet, "Serenade" (Titl).
- 3.8 p.m.—Miss Alice Hallon, soprano:
"Who is Sylvia?" (Schubert).
"A Brown Bird Singing" (Wood).
- 3.15 p.m.—Ayaz Dansonians:
3.30 p.m.—Interval announcements.
- 3.35 p.m.—A talk by Miss Stephanie Taylor on "Art."
- 3.45 p.m.—Melbourne Concert Orchestra:
"W. H. Squire's Popular Songs" (Arr. Baynes).
"Nodding Daffodils" (Clarke).
- 4 p.m.—G.P.O. Clock says "Four."
- 4.1 p.m.—Second weather forecast.
- 4.3 p.m.—Miss Alice Hallon, soprano; and Miss Valerie Walsh, contralto:
Duet, "O Lovely Night" (Landon Ronald).
Duet, "For You Alone" (Geehl).

- 4.10 p.m.—Ayaz Dansonians.
Fox trot, "Are You Happy?" (Ager).
Waltz, "Russian Lullaby" (Berlin).
- 4.16 p.m.—Miss Valerie Walsh, contralto:
"A Cradle Song" (Mary Sheldon).
- 4.20 p.m.—Melbourne Concert Orchestra:
Selection, "No. No, Nanette" (Youmaas).
- 4.32 p.m.—Miss Alice Hallon, soprano:
"Believe me if all" (Moore).
- 4.35 p.m.—Ayaz Dansonians:
Fox-trot, "Tell me Little Daisy" (Niles).
Fox trot, "Half a Moon" (Hanley).
- 4.41 p.m.—Mr. Herbert Pettifer, violin:
"Poeme Hongroise" (Lederer).
- 4.45 p.m.—Melbourne Concert Orchestra.
- 4.50 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.—3AR's Cousin Peter.

EVENING SESSION.

BALL ROOM AND CONCERT HALL.

- 7.15 p.m.—Health Session.
Mr. George Beattie, Principal of the Beattie College of Physical Culture, on "Physical Fitness."
- 7.30 p.m.—Sport session.
"Harlequin" presents his budget of 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 "Hunyady Lazlo" (Erkel Ferencz).
- 8.12 p.m.—Miss Valerie Walsh, contralto:
"When all was Young" (Gounod).
"Song of the Little Folk" (Eric Coates).
- 8.20 p.m.—Ayaz Dansonians:
8.30 p.m.—Mr. Ernie Pettifer, saxophone:
"Valse Manzanetta".
- 8.40 p.m.—Miss Valerie Walsh, contralto:
"In Moonlight" (Ed. Elgar).
"Silent Moon" (Williams).
- 8.48 p.m.—Interval announcements.
- 9 p.m.—Melbourne Concert Orchestra:
"Martial Moments" (Ar. Winter).
"Savoy Medley of Medleys" (Somers).
- 9.16 p.m.—Mr. Michel Connelly, baritone:
"Tommy Lad" (Margetson).
"From Oberon in Fairyland" (Slater).
- 9.23 p.m.—Ayaz Dansonians:
Waltz, "The Song is Ended" Berlin).
Fox-trot, "Breeze".
Fox-trot, "Together we two" (Berlin).
- 9.32 p.m.—"Harlequin." Sports results.
- 9.40 p.m.—Melbourne Concert Orchestra:
"Suite Melodique" (Friml).
- 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.—Ayaz Dansonians:
- 10.19 p.m.—Mr. Michel Connelly, Irish baritone:
"The Hills of Donnegal" (Sanderson).
"Father O'Flynn" (Stanford).
- 10.27 p.m.—Miss Ethel Brearley, piano:
"Gavotte" (Brahms).
- 10.31 p.m.—Melbourne Concert Orchestra:
Selection, "Gipsy Love" (Lehar).
"Souvenir de Capri" (Becce).
"Valse Boston" (Drigo).
- 10.45 p.m.—"Harlequin." Sport results.
- 10.50 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 taken from the Poem, "The Old Magg Shandrydan," by John O'Brien.
- 11 p.m.—G.P.O. Clock says "Eleven."
God Save the King.

4QG, BRISBANE.

Queensland Radio Service

Wave Length, 385 Metres.

FRIDAY, 4th MAY, 1928.

MORNING SESSION.

10.30 a.m. to 11.30 a.m.

MIDDAY SESSION.

- 1 p.m.—Market reports; weather information; "The Daily Mail" and "The Daily Standard" news.



Why the **Columbia** Layerbilt is the most economical "B" Battery to use

FLAT layers of cells, pressed one against the other, with no waste space in between, assure greater power and longer life from the Columbia Layerbilt "B" Battery than it is possible to obtain from any other battery of equal size using round cells.

This Layerbilt construction...exclusive with Columbia...insures far more electrical producing material and much longer life. It means a greater volume, more clarity, and longer distance reception from your receiving set.

No other "B" Battery equals the Columbia Layerbilt for performance, satisfaction and genuine economy.

Made by the world's largest radio battery manufacturer...for sale everywhere.

Columbia

RADIO BATTERIES

— they last longer



Made by the manufacturers of the famous Columbia Dry Cell.

Factory Representatives:
Ellis & Company (Aust.), Ltd.
Aberdeen House, 244-246 Clarence Street,
Sydney, N. S. W.

1.30 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; weather 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; announcements; “Daily Standard” news.
7.43 p.m.—Standard time signal.
7.45 p.m.—To-morrow’s racing reviewed.

NIGHT SESSION.

8 p.m.—FROM THE STUDIO:
Half-an-hour with Brisbane Esperanto Society:—
Speakers: Mr. C. Kidd and Mr. M. Hyde.
Soloists: Miss Eva Bowen, Miss A. McCarthy, Miss Gertrude Garrick, Mr. Stuart Partridge.
Instrumentalists: Mr. H. H. Hutton (violin).
Miss Jessie MacDonald (piano).
Community Singing by members of the Society.
Elocutionary item by Miss Rose MacPherson.
8.30 p.m.—FROM THE STUDIO:
Topical Chorus.
Overture:
“Le Cheval de Bronze” (Aubert).
The Studio Orchestra (conductor, Mr. A. R. Featherstone).
8.38 p.m.—Soprano Solo:
“Moonlight” (Moss).
Miss Annie Adams.
8.42 p.m.—A Thought for To-night:
“Our Country.”
Will H. Lister.
8.45 p.m.—Valse:
“Impassioned Dream” (Rosas).
The Studio Orchestra.
8.52 p.m.—Vocal Duet: Selected.
Mrs. M. L. Spanjer and Miss Dossie Hargreaves.
8.55 p.m.—Metropolitan weather forecast.
8.56 p.m.—Announcements.
9 p.m.—Week-end road information for motorists, officially supplied by the Royal Automobile Club.
9.10 p.m.—Romance:
“Forsaken” (Kretschmer).
The Studio Orchestra.
9.16 p.m.—Soprano Solo:
“Dear Love Remember Me” (Marshall).
Miss Annie Adams.
9.20 p.m.—Violin and Clarinet Duet:
“A Little Chat” (Noakes).
Mrs. C. Williams (violin) and Mr. C. Hanson (clarinet).
9.26 p.m.—Baritone Solos. Selected.
Mr. Dave Foley.
9.30 p.m.—March, “Step Lively” (Allen).
The Studio Orchestra.
9.41 p.m.—Vocal Duet. Selected.
Mrs. L. M. Spanjer and Miss Dossie Hargreaves.
9.45 p.m.—Orchestral:
(a) “Intermezzo: “Naila” (Delibes).
(b) ballad, “Dear Heart” (Matti).
The Studio Orchestra.
9.55 p.m.—“Daily Mail” news.
Weather news.
Close down.

5CL, ADELAIDE.

Central Broadcasters, Ltd.

Wave Length, 395 Metres.

FRIDAY, 4th MAY, 1928.

MIDDAY SESSION.

12 noon to 2 p.m.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Musical numbers on the Studio “Recreator.”
3.30 p.m.—Menu talk by “Homelover.”
3.45 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.
6.30 p.m.—Dinner music on the Studio “Recreator.”
7 p.m.—G.P.O. Chimes.
7.1 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.
7.10 p.m.—S. C. Ward and Co.’s Stock Exchange Intelligence.
7.14 p.m.—“Windbags” Sporting Service.
7.20 p.m.—Football talk by “High Mark.”
7.30 p.m.—Extracts from “News Bulletin.”
7.40 p.m.—Solomon Sisters, Instrumental Trio for Pianoforte, Cello, and violin.
7.50 p.m.—Gwen Collett, contralto.
7.57 p.m.—Station announcements.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Relayed from Malcolm Reid and Co.’s showrooms, Malcolm Reid and Co.’s Orchestra in selections.
8.15 p.m.—Gwen Collett, contralto.
8.19 p.m.—Malcolm Reid’s Orchestra.
8.28 p.m.—Ken Hughes, tenor.
8.35 p.m.—Solomon Sisters, Instrumental Trio.
8.45 p.m.—Grand Organ Recital.
Dalgety’s wheat report, International news.
9.15 p.m.—Meteorological information.
9.25 p.m.—Solomon Sisters, Instrumental Trio.
9.33 p.m.—Ken Hughes, tenor.
9.37 p.m.—Humorous Interlude by Don Parnell.
9.45 p.m.—Solomon Sisters, Instrumental Trio.
9.53 p.m.—Relayed from Glenelg, The Maison Dance Band.
10.1 p.m.—“Advertiser” News Service.
10.8 p.m.—“Windbags” Sporting Service.
10.16 p.m.—Relayed from Glenelg, The Maison Dance Band.
10.55 p.m.—Meteorological information, station announcements. To-morrow’s programmes.
11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH

Westralian Farmer’s.

Wave Length, 1250 Metres.

FRIDAY, 4th MAY, 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.
2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
3.35 p.m.—Organ and Pianola music relayed from the Grand Theatre, Murray 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, Percy, Bertie and Duffy.
7.20 p.m.—Stock, Markets, News.
7.45 p.m.—Racing talk by the Sporting editor of “Truth” Newspaper Co.
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.—Popular Night.
Musical programme, including vocal and instrumental artists.

Items by the Misses Sutton and Foley, Instrumental Duo, of the s.s. Karoola.

9.35 p.m.—Health talk by Mr H. S. Hatton, Principal of Hatton’s Physical Culture School.

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

Tasmanian Broadcasters, Ltd.

Wave Length, 516 Metres.

FRIDAY, 4th MAY, 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. Announcements.
3.15 p.m.—Selections by 7ZL Studio Trio:
Selection, “Omar Poems” (Hall).
“Loves Awakening” (Gletcher).
“Rustle of Spring” (Sinding).
Violin Solo. Selected. Mr. E. J. McCann.
Selection, “Girl Friend” (Roger).
Clarinet Solo. Selected.
“Danse Debonaire” (Fukes).
Pianoforte Solo. Selected. Mr. A. Roberts.
4.15 p.m.—Educational Talk.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Children’s Corner with the Radio Lady.
7 p.m.—Uncle Hector’s half hour.

NIGHT SESSION.

7.30 p.m.—Fruit, Poultry, and Produce reports through the courtesy of Roberts and Co., Ltd.
7.35 p.m.—Chat on to-morrow’s Football Prospects.
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 Lyceum Club, Hobart. Weekly Lecture.
Concert from the Studio.
Miss Elsie Lampkin, soprano.
Miss Beryl Scettrine, soprano.
Miss Lela Read, accompanist.
Mrs. M. Green, soprano.
Miss L. Brockwell, Pianoforte Solo’s.
Mr. Harry Foster, baritone.
9.40 p.m.—British Official Wireless 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.

The Mullard Master-Valve with the Wonderful P.M. Filament with English or U.X. Base Remains the Same Price - - - 13/6

BUT
WHILE THE STOCKS LAST
 the following previous types will be sold at reduced prices

HF and LF Bright Filament	2/- each
D SERIES	6/- each
DFA SERIES	7/6 each

with English or U.V. Base

CHARACTERISTICS AS PER THIS TABLE.

	2/-	2/-	6/-	6/-	6/-
Type.	H.F.	L.F.	D06	D3	D3
Filament voltage.	3.2—3.8	3.2—3.8	H.F.	H.F.	Det.
Filament current, amps .. .	0.6	0.6	3.0	1.8—2.0	1.6—2.0
Anode voltage ..	30—90	30—90	.06	0.3	0.3
Total emission, m/a.	5	5	50—125	50—125	20—100
Impedance, ohms.	90,000	30,000	8.0	8.0	8
Purpose .. .	Radio, also Resistance Coupling	Audio	60,000	60,000	16,000
			Radio, also Resistance Coupling	Radio, also Resistance Coupling	Detector
	6/-	6/-	7/6	7/6	7/6
Type.	D3	MD3	DFA1	DFA3	DFA4
Filament voltage.	1.8—2.0	1.8—2.0	5.5	5.5—6.0	5.5
Filament current, amps.	0.3	0.3	0.2	.06	0.2
Anode voltage ..	30—100	30—100	50—100	50—100	75—125
Total emission, m/a.	8.0	8.0	25.0	15.0	15.0
Impedance, ohms.	16,000	16,000	8,300	13,000	27,000
Purpose .. .	Audio	Audio	Power Amplifier	Audio	Resistance Coupling

Mullard

THE MASTER VALVE

Every Valve is guaranteed to function perfectly.

OBTAINABLE FROM EVERY RADIO DEALER IN AUSTRALIA

Also from

A. Beal Pritchett, Aust. (Ltd.), Sydney A. Beal Pritchett, Aust. (Ltd.), Melbourne
 Edgar V. Hudson, Brisbane Wedma Ltd., Adelaide Gibbs, Bright & Co., Perth
 W. & G. Genders, Launceston and Hobart

Saturday, May 5 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 Racing 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" (J. G. Lockley).

MIDDAY SESSION.

- 12 noon—"Big Ben" and announcements.
- 12.2 p.m.—Stock Exchange.
- 12.3 p.m.—Studio music.
- 12.20 p.m.—"Sydney Morning Herald" news service.
- 12.25 p.m.—Rugby wireless news.
- 12.30 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.
- 3.3 p.m.—From the Nepean River: The Interstate Eight-oar Championship Race for the Oxford and Cambridge Cup, described by Mr. Roger Fitzhardinge, the ex-International oarsman.
- 3.30 p.m.—From the Studio:
The "Smart Set" Instrumental Trio.
Leader, Molly Gant.
- 3.40 p.m.—Peggy Shaw, soubrette.
- 3.45 p.m.—Cliff Arnold, novelty pianist.
- 3.52 p.m.—The "Smart Set" Trio.
- 4 p.m.—"Big Ben."
- Peggy Shaw, soubrette.
- 4.5 p.m.—The "Smart Set" Trio.
- 4.15 p.m.—Peggy Shaw, soubrette.
- 4.20 p.m.—Cliff Arnold, novelty pianist.
- 4.30 p.m.—The "Smart Set" Trio.
Leader, Molly Gant.
- 4.40 p.m.—Sporting resume.
- 4.50 p.m.—The "Smart Set" Trio.
- 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.40 p.m.—Chimes of 2FC and announcements.
- 5.45 p.m.—The "Hello Man" talks to the children.
- 6.25 p.m.—Children's music.
- 6.30 p.m.—Late sporting news.
- 6.45 p.m.—Weather intelligence.
- 6.50 p.m.—Full description of the Racing by 2FC Commissioner.
- 7.5 p.m.—Dinner music.
- 7.30 p.m.—Late "Evening News" news service.

NIGHT SESSION.

A POPULAR NIGHT.

- 7.40 p.m.—Programme announcements.
- 7.45 p.m.—Studio music.
- 8 p.m.—"Big Ben."
- From the Prince Edward Theatre, Sydney;

Introductory music by the Prince Edward Concert Orchestra, conducted by Albert Cazabon.

Eddie Horton at the Orchestral Organ.
Albert Cazabon and Concert Orchestra.

9 p.m.—"Big Ben."

From the Studio:

Late weather forecast.

9.1 p.m.—Reginald Hayward, baritone.

9.9 p.m.—Madame Emily Marks, soprano.

9.18 p.m.—Charles Lawrence, entertainer.

9.26 p.m.—From the Prince Edward Theatre, Sydney:

Albert Cazabon and Concert Orchestra.

9.40 p.m.—From the Studio:

Madame Emily Marks, soprano.

9.48 p.m.—Reginald Hayward, baritone.

9.56 p.m.—Dorothy Dewar, soubrette.

10.4 p.m.—Charles Lawrence, entertainer.

10.14 p.m.—From the Ambassadors:

The Ambassadors Dance Orchestra.

Conductor, Al Hammet.

From the Studio:

10.34 p.m.—Late weather forecast.

10.35 p.m.—Dorothy Dewar, soubrette.

10.42 p.m.—The Ambassadors Dance Orchestra.

Conductor, Al Hammet.

From the Studio:

10.57 p.m.—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

SATURDAY, 5th MAY, 1928.

EARLY MORNING SESSION.

8 a.m. to 9 a.m.

MORNING SESSION.

- 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 p.m.—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 Rosehill races will be broadcast, interspersed with musical items from the studio.
- 4.50 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.—Dinner Music.
- 7 p.m.—G.P.O. Clock and chimes.
- Racing Resume.
- Sporting Resume.
- 7.15 p.m.—News from the "Sun."
- 7.30 p.m.—Talk on "Aborigines" by "Bringa."
- 8 p.m.—G.P.O. Clock and chimes.
- Broadcasters Topical Chorus.
- 8.3 p.m.—The Ahad Duo, steel guitars.
- 8.10 p.m.—Miss Camille Alder, soprano.
- 8.17 p.m.—Mr. Stan Cartnell, comedian.
- 8.24 p.m.—Broadcasters Instrumental Trio.
- 8.31 p.m.—Miss Faith Mallaby, mezzo soprano.
- 8.38 p.m.—The Ahad Duo.

8.45 p.m.—Description of the boxing Contest broadcast from the stadium.

9.30 p.m.—From the Studio.

Mr. Len Howell, tenor.

9.37 p.m.—Broadcasters Instrumental Trio.

9.44 p.m.—Miss Camille Alder.

9.51 p.m.—Mr. Stan Cartnell.

9.58 p.m.—Miss Faith Mallaby.

10.5 p.m.—Broadcasters Instrumental Trio.

10.12 p.m.—Mr. Len Howell.

10.19 p.m.—Resume of following day's programme.

10.24 p.m.—The Wentworth Cafe Orchestra under the direction of Mr. S. Simpson.

During intervals between dances "Sun" news will be broadcast.

11.45 p.m.—G.P.O. Clock and chimes.

National Anthem.

2 UW, SYDNEY

SATURDAY, 5th MAY, 1928.

EVENING SESSION.

- 7 p.m.—Studio items.
- 7.10 p.m.—Where to Go Session.
- 7.15 p.m.—Vocal and instrumental items.
- 7.45 p.m.—News, mails and shipping
- 8 p.m.—Dance programme by courtesy of Morley Johnson, Ltd.
- 9 p.m.—Request numbers.
- 9.20 p.m.—Dance Music.
- 10 p.m.—Announcements and close down.

3LO, MELBOURNE.

SATURDAY, 5th MAY, 1928.

EARLY MORNING SESSION.

- 7.15 a.m.—Morning Melodies.
- 7.20 a.m.—PHYSICAL CULTURE EXERCISES (to music).
- 7.27 a.m.—Morning Melodies.
- 7.33 a.m.—WEATHER FORECAST for all States. Mails.
- 7.40 a.m.—NEWS.
- 8 a.m.—Melbourne Observatory time signal.
- 8.1 a.m.—Morning Melodies.
- 8.5 a.m.—NEWS. Sporting information. Shipping. Stock Exchange fluctuations.
- 8.13 a.m.—Morning Melodies.
- 8.15 a.m.—Close down.

MORNING SESSION.

- 11 a.m.—THE STATION ORCHESTRA:
"Hunting Chorus" from "Dorothy."
Fox-trot: "Horsey, Keep Your Tail Up."
- 11.10 a.m.—OLIVER PEACOCK, baritone.
"Give a Man a Horse He Can Ride" (Riddle).
"Tally Ho" (Lecni).
- 11.17 a.m.—THE STATION ORCHESTRA:
"Horses."
Fox-trot: "Thanks for the Buggy Ride."
A LITTLE MORE SERIOUS.
- 11.25 a.m.—MINA HESELEVA, soprano:
Two songs by Tschaikowsky.
- 11.32 a.m.—GUILDFORD BISHOP, violin:
"Ballade" (J. Harold Henry).
- 11.37 a.m.—OLIVER PEACOCK, baritone:
"Pale Moon" with orchestral accompaniment.
"But Why" (Logan).
- 11.44 a.m.—THE STATION ORCHESTRA:
"Suite Melodique" (Friml).
- 11.54 a.m.—MINA HESELEVA, soprano:
"Lo! Here the Gentle Lark," with flute obligate, by J. Barille.
"Pierrot" (Rybner).



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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.

OLD FRENCH FANCIES.

- 12.20 p.m.—THE GYPSY PLAYERS:
 "Chanson de Noel" (Beaumont).
 "Un Promenade de Matin" (Bendel).
 12.30 p.m.—RUPERT HAZELL and ELSIE DAY:
 "Harmonylarity."
 12.43 p.m.—Stock Exchange information.
 12.45 p.m.—THE GYPSY PLAYERS:
 "Petite Suite—Jeux d'enfants" (Bizet).
 12.55 p.m.—HENRI PENN, Piano recital:
 "Romance" (Gounfeld).
 "Scherzo" No. 2 (Chopin).
 "Toccata" (Saint-Saens).
 1.10 p.m.—Meteorological information. Weather report and rainfall for Victoria, Tasmania, South Australia and New South Wales. Ocean forecasts. River reports.
 1.17 p.m.—THE GYPSY PLAYERS:
 "The Fairy Tarapata Poun" from Suite Francais (Foulds).
 "Old French Country Dance" (Rawlinson).
 1.29 p.m.—Announcements.
 1.32 p.m.—THE GYPSY PLAYERS:
 Selected.
 1.37 p.m.—Description of BASEBALL MATCH, Richmond v. Collingwood, at Richmond Football Ground by PERCY STEEL.
 1.47 p.m.—Close down.
 1.55 p.m.—Description of BASEBALL MATCH, Richmond v. Collingwood, at Richmond Football Ground, by Percy Steel.
 2.5 p.m.—Close down.

AFTERNOON SESSION.

- 2.15 p.m.—JOHNSTON'S STUDIO BOYS:
 Selection, "High Jinks" (Friml).
 2.30 p.m.—Description of Hurdle Race, 2 miles, from Ascendale Park Racecourse, by Eric Welch.
 2.35 p.m.—Description of BASEBALL MATCH, Richmond v. Collingwood, at Richmond Football Ground, by Percy Steel.
 2.40 p.m.—JOHNSTON'S STUDIO BOYS:
 Selection, "Katinka" (Friml).
 2.50 p.m.—Description of LEAGUE FOOTBALL, Richmond v. Collingwood, at Richmond, by Rod McGregor.
 3 p.m.—Description of Trial Welter Handicap, 6 furlongs, Ascendale Park Races, by Eric Welch.
 3.5 p.m.—JOHNSTON'S STUDIO BOYS:
 Selected.
 3.15 p.m.—Description of LEAGUE FOOTBALL MATCH, Richmond v. Collingwood, at Richmond Football Ground, by Rod McGregor.
 3.30 p.m.—Description of Ascendale Plate, 6 furlongs, Ascendale Races, by Eric Welch.
 3.35 p.m.—JOHNSTON'S STUDIO BOYS:
 Selected.
 3.45 p.m.—Results of LEAGUE and ASSOCIATION FOOTBALL—quarter-time.
 3.46 p.m.—Description of LEAGUE FOOTBALL MATCH—Richmond v. Collingwood, at Richmond Football Ground, by Rod McGregor.
 4 p.m.—Description of Ascendale Park Handicap, 1 mile Ascendale Races, by Eric Welch.
 4.5 p.m.—JOHNSTON'S STUDIO BOYS:
 Selected.
 4.18 p.m.—Results of LEAGUE and ASSOCIATION FOOTBALL—Half-time.
 4.20 p.m.—JOHNSTON'S STUDIO BOYS:
 Selected.
 4.30 p.m.—Description of Ascendale Purse, 7 furlongs, Ascendale Races, by Eric Welch.

4.35 p.m.—Description of LEAGUE FOOTBALL—Richmond v. Collingwood, at Richmond, by Rod McGregor.
 Also Results of ASSOCIATION FOOTBALL Three-quarter time.

5 p.m.—Description of Jumpers' Flat Race, 1¼ miles, Ascendale Races, by Eric Welch.

5.5 p.m.—Description of LEAGUE FOOTBALL—Richmond v. Collingwood at Richmond, by Rod McGregor.

5.15 p.m.—"Herald" news service. Stock Exchange information.

5.25 p.m.—Close down.

5.50 p.m.—Final Scores of Association Football and other Sporting results.

During the afternoon results of Benalla Races will be given as they come to hand.

EVENING SESSION.

- 6 p.m.—Answers to Letters and Birthday Greetings by "LITTLE MISS KOOKABURRA."
 6.20 p.m.—Musical interlude.
 6.25 p.m.—"LITTLE MISS KOOKABURRA":
 Listen and hear "What Tommy did on the Farm."
 6.40 p.m.—Musical interlude.
 6.45 p.m.—"LITTLE MISS KOOKABURRA":
 The Next Instalment of "Pickles and Prowl."

NEWS AND MARKET REPORTS.

- 7 p.m.—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 Fruitellers' Association—Retail prices. Wholesale prices of Fruit by the Wholesale Fruit Merchants' Association. Citrus Fruits.

NIGHT SESSION.

- 7.30 p.m.—E. E. PEScott:
 "Australian Hedges and Shelter Belts."
 7.45 p.m.—DR. J. A. LEACH:
 "Ringnecks."
 8 p.m.—R. RAWSON:
 "Esperanto."
 8.15 p.m.—Birthday Greetings and programme announcements.
 A STUDIO CONCERT.
 8.16 p.m.—HENRI PENN, piano recital:
 "Rhapsodie No. 13" (Liszt).
 "Music Box" (Poushnoff).
 "Caprice" (Penn).
 8.32 p.m.—MINA HESELEVA, Soprano:
 "Two Russian Ballads."
 8.39 p.m.—RUPERT HAZELL AND ELSIE DAY:
 "Harmonylarity."
 8.47 p.m.—AND NOW—TO THE STADIUM.
 Description of to-night's event by ERIC WELCH.

BACK TO THE STUDIO.

- 10.30 p.m.—MINA HESELEVA:
 "The Wren," with Flute obligato by J. BARRILLE (Benedict).
 "He Loves Me Not" (Mascagni).
 10.37 p.m.—THE STATION ORCHESTRA:
 "The Three Bears"—from the Fairy Story.
 "Goldilocks and the Three Bears."
 10.44 p.m.—Late Sporting notes.

THE OLYMPIC GAMES.

The world's champion Wrestler, Ted Thye, and Ad Santel both declare that Tommy Bolger, Victorian and Australian Champion Wrestler, has a second to none chance of annexing the 10 stone 5 lbs. division of the Olympic Wrestling Championships.

Forward your subscription to the Lord Mayor's Fund. 3LO, Melbourne, will be glad to receive donations towards the Lord Mayor's Fund.

10.57 p.m.—OUR GREAT THOUGHT—
THE SHRINE OF REMEMBRANCE—

"Hope links us to the future, but the link that binds us to the past is Memory."

By making a donation toward the building of this beautiful State Memorial you will be assisting to keep green in our memory, and in the memory of generations of Australians yet unborn the names of those gallant men and women of ours who made the supreme sacrifice in response to the call of duty and to the memory of whom this Shrine of Remembrance is being erected.

—Major-Gen. Walter Coxen.

10.58 p.m.—THE VAGABONDS.

DANCE MUSIC.

11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

SATURDAY, 5th MAY, 1928.

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.

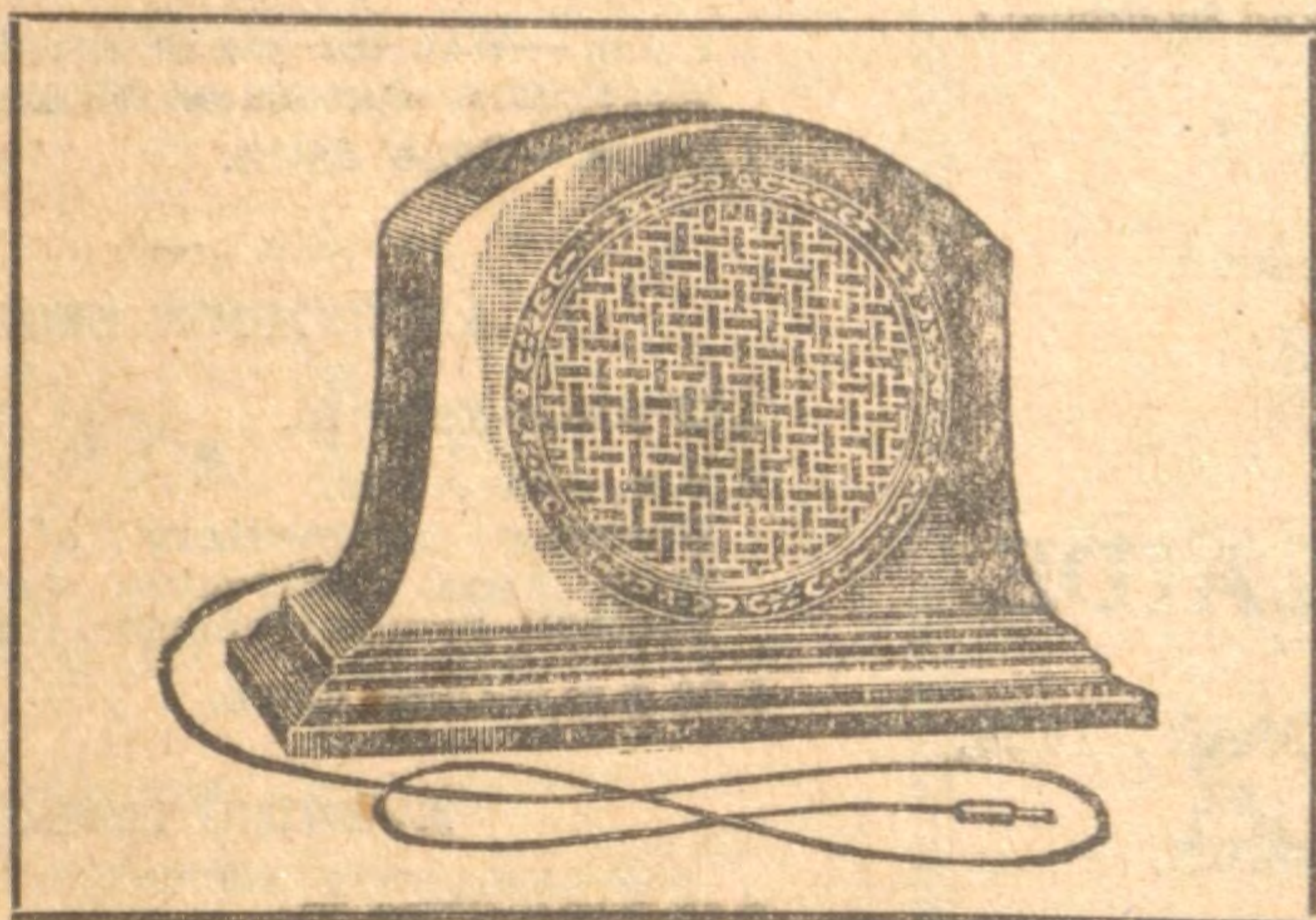
- SPORT RESULTS. During the afternoon the results of the Ascendale Park Raecs will be broadcast, together with other information, immediately each race is run.
 2 p.m.—Ayarz Dansonians. ?
 A half-hour Dance Session by Melbourne's favorite Dance Band.
 The latest popular hits, each one announced prior to its presentation.
 2.30 p.m.—Melbourne Concert Orchestra:
 "Musical Gems of Tchaikowsky" (Langer).
 "A Hillside Melody" (Phillips).
 2.49 p.m.—Miss Freda Treweek, mezzo-soprano:
 Negro Spirituals, "Steal Away" (Hugo Froy).
 "Hard Trials" (Hugo Froy).
 2.56 p.m.—Melbourne Concert Orchestra:
 Selection, "Andrea Chenier" (U. Giordano).
 3.12 p.m.—Mr. Ronald Brearley, cello:
 "Lullaby" (Phillips).
 3.15 p.m.—Miss Freda Treweek, mezzo-soprano:
 "Two Brown Eyes" (Grieg).
 "To a Wild Rose" (MacDowell).
 3.23 p.m.—Melbourne Concert Orchestra:
 "Scene de Ballet" (Ch. de Boriot).
 3.30 p.m.—Interval Announcements.
 3.40 p.m.—Mr. Herbert Pettifer, violin:
 "Allegretto and Scherzo" (Boer).
 3.44 p.m.—Melbourne Concert Orchestra:
 Selection, "Federa" (Giordano).
 4 p.m.—G.P.O. Clock says "Four."
 4.1 p.m.—Second weather forecast.
 4.3 p.m.—Signor Joseph Fava, tenor:
 "L'Ultimo Canzone" (Tosti).
 "Beneath Thy Window" (Dia Capua).
 4.11 p.m.—Melbourne Concert Orchestra:
 "Polly" (Zamecnik).
 Selection, "The Geisha" (Sidney Jones).
 "Spanish Dances, Nos. 1 and 2" (Moxkowski).

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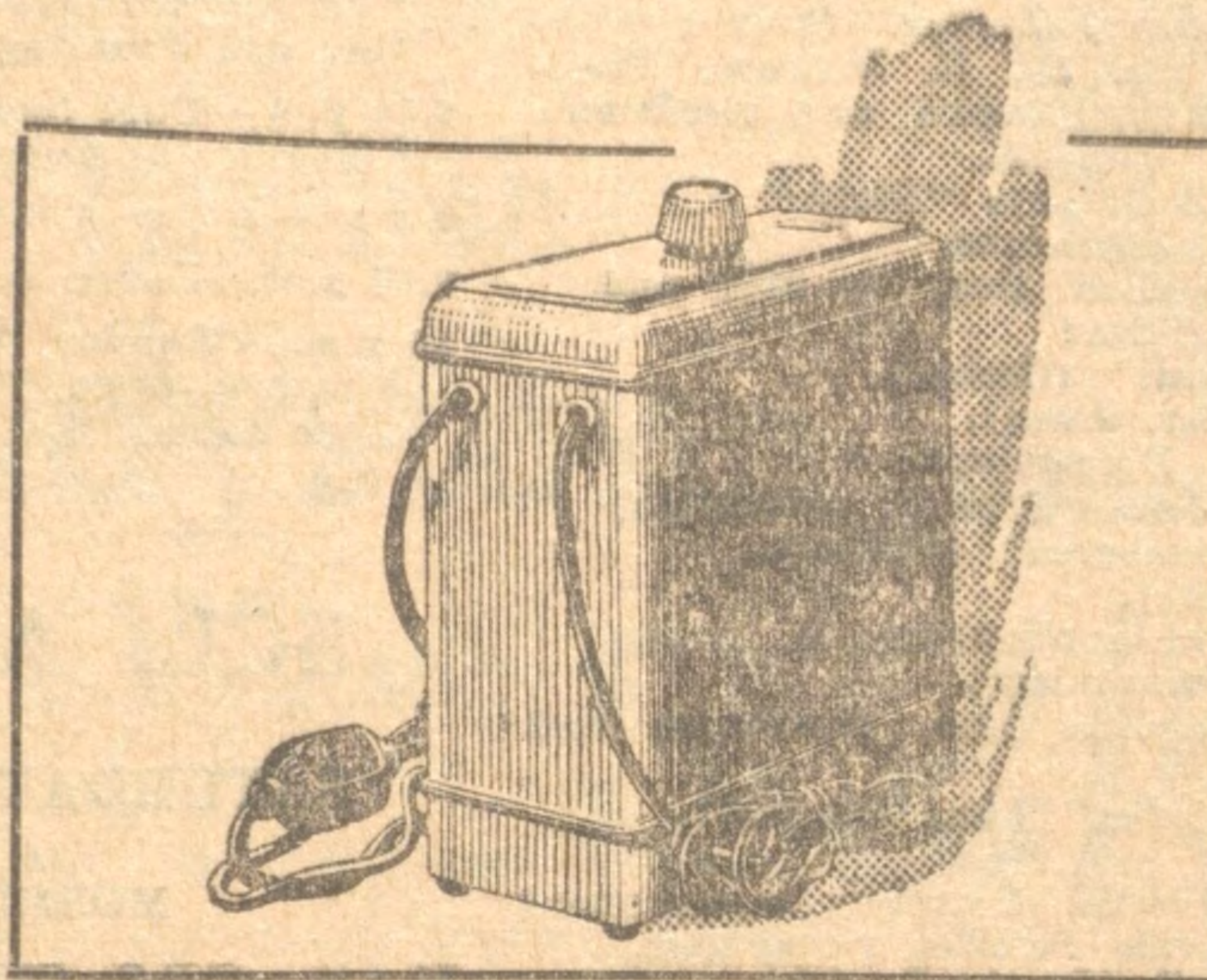
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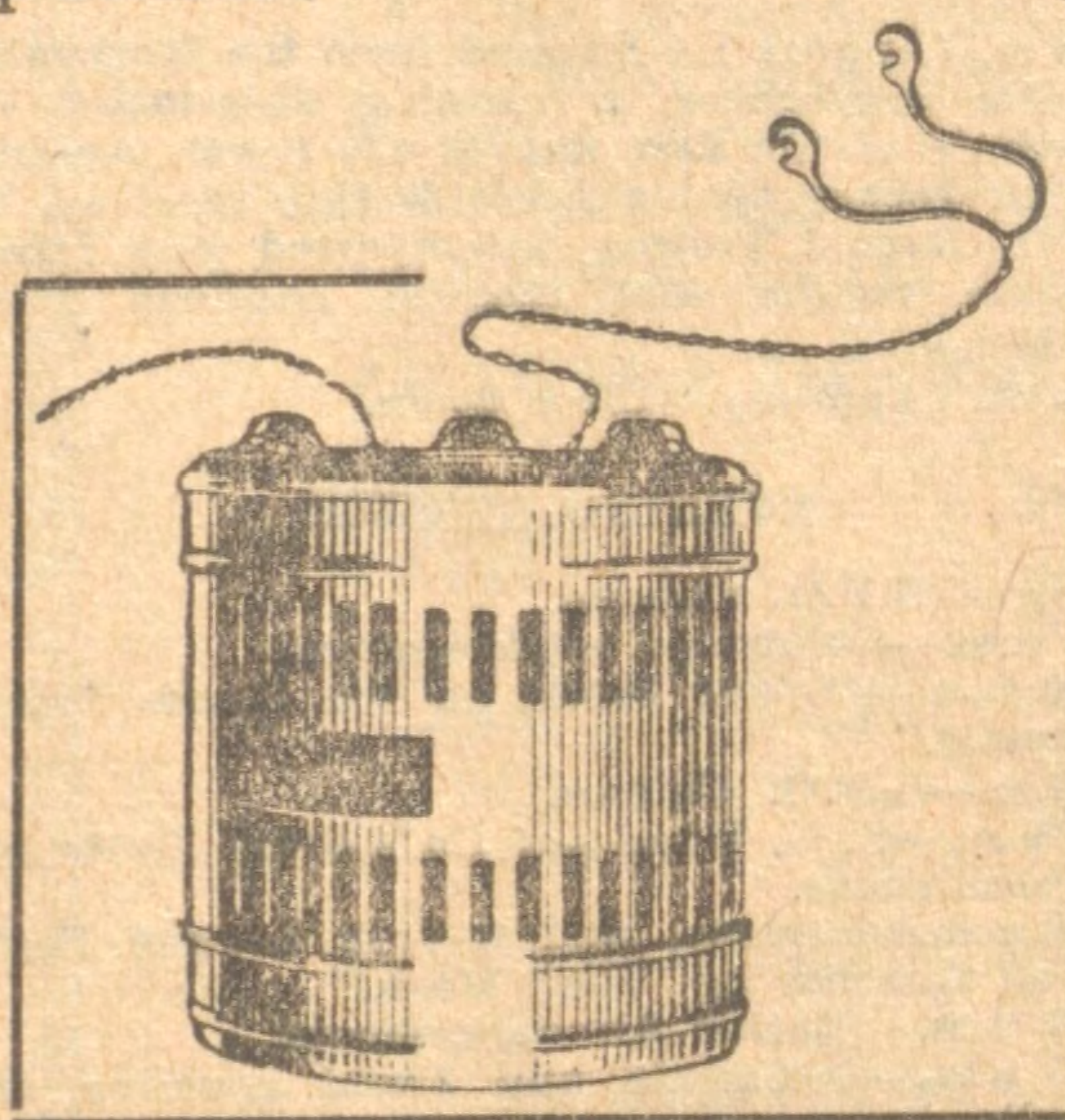


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4.30 p.m.—Signor Joseph Fava, tenor:
"Lolita" (Buzzi Peccia).
"A Song of Waiting" (Ellen Wright).
4.58 p.m.—Melbourne Concert Orchestra:
4.55 p.m.—To-night's Entertainment.
Announcements.
5 p.m.—G.P.O. Clock says "Five."
God Save the King.

CHILDREN'S SESSION.

6.30 p.m.—Uncle Mac's Entertainment.

EVENING SESSION.

DANCE CONCERT.

7.20 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 Seedmen's Association of Victoria.
8 p.m.—G.P.O. Clock says "Eight."
8.1 p.m.—Ayaz Dansonians.
8.16 p.m.—Moana Lua Duo, Spanish and Hawaiian Guitars:
"Song to Hawaii" (Corbell).
"Kawaihau" (Ar. Awai).
8.24 p.m.—Ayaz Dansonians:
8.40 p.m.—Miss Jessie Shmith, contralto:
"A Song Remembered" (Coates).
"Salaam" (Lang).
8.48 p.m.—Interval announcements.
9 p.m.—Ayaz Dansonians.
9.16 p.m.—Moana Lua Duo, Guarania and Tiple:
"Portugese Melodies" (Ar. Compton).
"Andalusia".
9.24 p.m.—Mr. Ernie Pettifer, saxophone.
9.24 p.m.—Mr. Ernie Pettifer, saxophone.
"Babe O' Mine" (Jessie Ssmith).
"I love you more" (Dorothy Lee).
9.58 p.m.—Announcements.
10 p.m.—G.P.O. Clock and etao shrdluilou
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.—Ayaz Dansonians.
10.21 p.m.—Moana Lua Duo, Hawaiian and Spanish Guitars:
"Hawaiian Dreams" (Marple).
10.24 p.m.—Mr. Compton, Spanish Guitar:
"La Sirena".
10.27 p.m.—Ayaz Dansonians:
10.45 p.m.—"Harlequin." Sport Results.
10.52 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, "The Land of the Dawning," by George Essex Evans.
11 p.m.—G.P.O. Clock says "Eleven."
God Save the King.

4QG, BRISBANE.

SATURDAY, 5th MAY, 1928.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

The B.A.T.C. Race Meeting will be described direct from Albion Park.
8 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—News service for distant listeners.
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.

The first portion of the programme will be provided by "The London Trio—Miss Lucy Baker (pianist), Mrs. M. L. Spanjer (contralto), and Mr. Basil Stirling (baritone).

8 p.m.—FROM THE STUDIO:
Duet (contralto and baritone):
"Barcarolle" from "Tales of Hoffmann" (Offenbach).
8.4 p.m.—Piano solo:
"Scherzo B-Flat Minor" (Chopin).
8.10 p.m.—Contralto Solo:
"The Ballad Monger" (Easthorpe Martin).
8.14 p.m.—Baritone Solo:
"Your Song."
8.18 p.m.—Piano Solos:
"Hexentanz" (McDowell).
"Staccato Caprice" (Vognich).
8.23 p.m.—Contralto Solo:
"Beloved, it is Morn" (F. Aylward).
8.20 p.m.—Baritone Solo:
"Reuben Ranzo" (Slater).
8.35 p.m.—Piano Solos:
"Frithingsrauschen" (Singing).
"Au den Fruhling" (Grieg).
8.50 p.m.—Duet (contralto and baritone):
"Sing Me to Sleep" (Grieg).
9 p.m.—Motor cycle races.
9.30 p.m.—Dance music.
10 p.m.—"Sunday Mail" news.
Weather news.
Close down.

5CL, ADELAIDE.

SATURDAY, 5th MAY, 1928.

MORNING SESSION.

11 a.m.—G.P.O. Chimes.
11.1 p.m.—"Advertiser" news service and International News.
11.30 p.m.—Musical numbers on the Studio "Recreator."
12 noon.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

1 p.m. (Approx.).—Relayed from the Morphettville Racecourse, a running description of events of the first day of the South Australian Jockey Club's Adelaide Cup meeting, by Mr. Arnold Treloar, interspersed with interstate results and musical numbers from studio.
5 p.m. (Approx.).—Close down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
6.1 p.m.—Children's entertainment.
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.
7.10 p.m.—Resume, and to-days League Football matches by "High Mark."
7.30 p.m.—Station Announcements.
7.45 p.m.—Interstate and Local sporting results.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Regal Dance Orchestra.
8.8 p.m.—Mary Edson, soprano.
8.15 p.m.—Regal Dance Orchestra.
8.23 p.m.—Tom Chandler, basso.
8.27 p.m.—Regal Dance Orchestra.
8.35 p.m.—Mary Edson, soprano.
8.39 p.m.—Regal Dance Orchestra.
8.47 p.m.—Tom Chandler, basso.
8.51 p.m.—Regal Dance Orchestra.
9.1 p.m.—Meteorological information, "International News."
9.5 p.m.—Mrs. Hubert James, contralto.
9.12 p.m.—Regal Dance Orchestra.
9.20 p.m.—Mrs. Hubert James and Broadland Rooke in a vocal duet.
9.24 p.m.—Regal Dance Orchestra.
9.32 p.m.—Broadland Rooke, tenor.
9.39 p.m.—Regal Dance Orchestra.
9.47 p.m.—Mrs. Hubert James, contralto.
9.50 p.m.—Regal Dance Orchestra.
9.57 p.m.—Broadland Rooke, tenor.
10.1 p.m.—Interstate and Local sporting results.

10.10 p.m.—Relayed from the Glenelg, The Maison Dance Band.
10.55 p.m.—Meteorological information, station announcements, and to-morrow's programme.
11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH.

SATURDAY, 5th MAY, 1928.

MIDDAY SESSION.

12 noon.—Tune in.
12.5 p.m.—Musical programme, including pianoforte selections 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.

AFTERNOON SESSION.

1.55 p.m.—Tune in.
2 p.m.—At Ascot.
Running commentary of racing events from Ascot Racecourse, Ascot.
Football results (quarter time scores).
5.30 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, Percy 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 programme, etc.
8.3 p.m.—Music and Song.
Musical programme from the studio, including vocal and instrumental artists.
Dance music by Bill Naughton and his jesters, relayed from Banks Palais Royal, Hay street.
10 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.
Ships within Range announcement.
Weather report and forecast.
Sport 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, 5th MAY, 1928.

MORNING SESSION.

11 a.m. to 12 noon.

AFTERNOON SESSION.

8 p.m.—G.P.O. Clock chimes the hour.
Broadcast from T.C.A. Ground description of Football Match, N.T. v. Lefroy. Sporting results announced during interval.
5 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Cousin Mac's half hour.
7 p.m.—Uncle Hector's corner.

NIGHT SESSION.

7.30 p.m.—Musical selections.
7.35 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, May 6

2FC, SYDNEY.

MORNING SESSION.

10.55 a.m.—Programme announcements.
11 a.m.—"Big Ben."
From St. Stephen's (Presbyterian) Church, Phillip Street, Sydney:
The Morning Service.
Preacher, Rev. Hugh Paton.
12.15 p.m.—From the Studio:
News Session and Musical Items.
12.30 p.m.—Close down.

AFTERNOON SESSION.

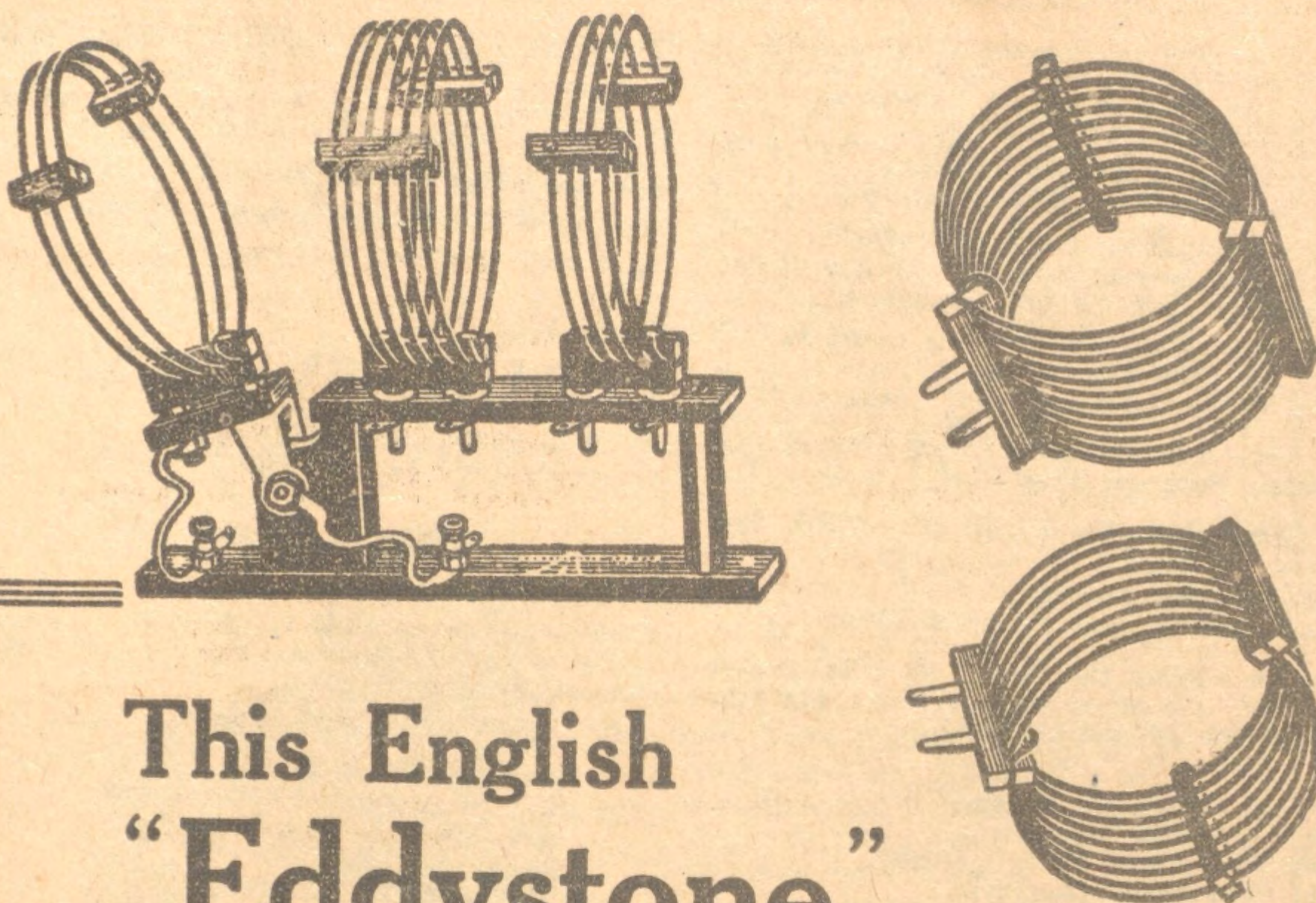
3 p.m.—"Big Ben" and programme announcements.
3.5 p.m.—From the Lyceum Hall, Pitt Street, Sydney:
Pleasant Sunday Afternoon Service, arranged by The Central Methodist Mission.
Speaker, Hon. W. M. Hughes, P.C., M.P.
Special musical programme, including the following artists:
Oliver King (bass).
Daisy Richards (Violinist).
Eileen Boyd (Contralto).

4.15 p.m.—From the Band Rotunda, Coogee Beach:
A programme by the Randwick Municipal Band. Conductor, E. P. Kerry.

5 p.m.—"Big Ben." Close down.

EVENING SESSION.

6 p.m.—"Big Ben" and programme announcements.
6.5 p.m.—Stanley Clarkson, basso:
(a) "Invictus" (Bruno Huhn).
(b) "Sapphic Ode" (Brahms).
6.13 p.m.—Rita Graham, violinist:
(a) "Wiener Volkslied" (Fritz Kreisler).
(b) "Thais" (Massenet).
6.23 p.m.—Captain Fred Aarons in continuation of his series of talks:
"Roaming the Papua,"
will deal this evening with:
"Panama Pictures" (No. 4).



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- 6.38 p.m.—Ruby Leslie, mezzo soprano:
(a) "An Emblem" (Jack Thompson).
(b) "At Dawning" (Cadman).
- 6.44 p.m.—Rita Graham, violinist.
"Romance in G" (Beethoven).
- 6.50 p.m.—Stanley Clarkson, basso:
(a) "The Sergeant's Song" (Gustav Holst).
(b) "The Derby Ram" (Hurlstone).
- 6.58 p.m.—Ruby Leslie, mezzo soprano:
(a) "A little Coon's Prayer" (Hope).
(b) "When Song is Sweet" (Sans Souci).
- 7.5 p.m.—A recital of Records of the Wagnerian Bayreuth Festival.
- 7.15 p.m.—From St. James' (C. of E.), Sydney:
The Evening Service,
Conducted by Rev. P. A. Micklem.
- 8.30 p.m.—From the Band Rotunda, Coogee Beach: A programme arranged by the Randwick Municipal Band.
Conductor, E. P. Kerry.
- 9.30 p.m.—From the Studio:
Gladys Evans, soprano:
(a) "Il Pastore Canta" (Rech).
(b) "The Star" (Rogers).
- 9.38 p.m.—St. Quintin Downer:
Pianoforte solos.
- 9.48 p.m.—Gladys Evans, soprano:
(a) "Sometimes in Summer" (Bennett).
(b) "Regret" (Godfrey-Nutting).
(c) "In My Little Garden" (Godfrey-Nutting).
- 9.55 p.m.—St. Quintin Downer:
Pianoforte solos.
- 10.5 p.m.—National Anthem. Close down.
At the Piano HORACE KEATS.

2BL, SYDNEY.

SUNDAY, 6th MAY, 1928.

MORNING SESSION.

- 10.45 p.m.—Special news service.
- 11 a.m.—Service broadcast from Randwick Presbyterian Church.

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.
- 2.30 p.m.—Organ recital by Mr. N. Robins broadcast from the Arcadia Theatre, Chatswood.
- 3.30 p.m.—The Manly Band Broadcast from Band Rotunda, Manly.
- 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 Petersham Baptist Church.
- 8.30 p.m.—The Manly Municipal Band broadcast from Band Rotunda, Manly.
- 9.30 p.m.—From the Studio.
The British Music Society String Quartette.
- 9.40 p.m.—Miss Bertha Waters, soprano.
- 9.47 p.m.—Mr. Bryce Carter, cellist.
- 9.54 p.m.—The British Music Society String Quartette.

- 10.1 p.m.—Resume of following day's programme.
Weather report and forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist.
- 10.6 p.m.—Miss Bertha Waters.
- 10.13 p.m.—Mr. Bryce Carter.
- 10.18 p.m.—National Anthem.

2 UW, SYDNEY

SUNDAY, 6th MAY, 1928.

MORNING SESSION.

- 10.30 a.m.—Studio items.
- 10.40 a.m.—Special H.M.V. Recital by courtesy of the Gramophone Coy. of 163 Pitt-street, Sydney.
- 11.30 p.m.—Vocal and instrumental items.
- 11.45 a.m.—Request numbers.
- 12.30 p.m.—Close down.

EVENING SESSION.

- 7 p.m.—Studio items.
- 7.15 p.m.—Vocal and instrumental items.
- 8 p.m.—Request numbers.
- 8.45 p.m.—Weather forecast.
- 8.50 p.m.—Vocal and instrumental items.
- 9.30 p.m.—Announcements and close down.

3LO, MELBOURNE.

SUNDAY, 6th MAY, 1928.

MORNING SESSION.

- 10.30 a.m.—Bells from St. Paul's Cathedral
- 10.45 a.m.—Express Train information.
British Official Wireless News from Rugby.
News from Yesterday's papers.
- 11 a.m.—MORNING SERVICE FROM ST. BARTHOLOMEW'S, CHURCH OF ENGLAND, BURNLEY:
Preacher, THE REV. GEORGE GILDER.
Organist, MR. LANCE KENNEDY.
Hymn (A. and M.) 215, "The Church's One Foundation."
Sentence.
Exhortation.
General Confession.
Absolution.
The Lord's Prayer.
Versicles and Responses.
Venite.
Psalm 30.
1st Lesson.
Te Deum.
2nd Lesson.
Benedictus.
The Apostles' Creed.
The Collects.
Anthem.
Prayers.
Hymn 242, "We Love the Place, O God."
The Sermon, REV. GEO. GILDER.
Hymn 179, "To the Name of our Salvation."
The Benediction.
Hymn 166, "All people that on earth do dwell."
12.15 p.m.—Close down.

AFTERNOON SESSION.

- 2 p.m.—SONORA RECITAL OF THE WORLD'S MOST FAMOUS RECORDS.
STRING QUARTET:
"Quartet No. 2 in G Major," Op. 18, No. 2. (Beethoven).
Flonzaley Quartet:
Part 1. First Movement—Allegro (Part 1).
Part 2. First Movement—Allegro (Part 2).
Part 3. Second Movement—Adagio Cantabile (Part 1).
Part 4. Second Movement—Adagio Cantabile (Part 2).
Part 5. Third Movement—Scherzo (Part 1).
Part 6. Third Movement—Scherzo (Part 2).
Part 7. Fourth Movement—Finale (Part 1).
Part 8. Fourth Movement—Finale (Part 2).
SONG:
"Ay, ay, ay" (In Spanish) ("Guyana"—Osman Perez Freire).
Tito Schipa, tenor.
- VIOLIN SOLO:
"Aloha oe" (Farewell to Thee) (Lilino-kalani-Kreisler).
Fritz Kreisler.
- CHOIR:
"By the Waters of Minnetonka" (Thurlo-Lieurance).
The Mormon Tabernacle Choir.
- ORCHESTRAL:
"The Rhinegold," Parts 1 and 2 (Wagner).
Entrance of the Gods into Valhalla.
Symphony Orchestra, conducted by Albert Coates.
- ARIA:
"Depuis le jour ou je me suis donnee"—
Louise (Charpentier).
Dame Nellie Melba, soprano.

3 p.m.—PLEASANT SUNDAY AFTERNOON SERVICE FROM CENTRAL MISSION: WESLEY CHURCH, LONSDALE STREET, MELBOURNE:

- Chairman, REV. J. H. CAIN.
Hymn No. 12, "Come ye that love the Lord."
Prayer.
Orchestral Selection. Mr. C. M. Williams, conductor.
Hymn No. 31, "In loving kindness Jesus came."
Solo.
Orchestra solo.
Notices.
Offering.
Orchestra.
Address.
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 Shadows We Cast."
- 6.45 p.m.—Bells from St. Paul's Cathedral.

NIGHT SESSION.

- 7 p.m.—EVENING SERVICE FROM COLLINS STREET BAPTIST CHURCH:
Service conducted by REV. W. D. JACKSON, B.A.
Preacher, REV. HEDLEY SUTTON, M.A., of East Bengal, India.
The service is the Annual Foreign Mission Demonstration at the beginning of Missionary Self-Denial Week.
Sanctus: Call to Worship.
Invocation and Lord's Prayer.
Hymn, "O spirit of the Living God."
Scripture.
Hymn, "We've a story to tell to the nations."
Notices.
Offering.

Offertory Prayer and Choral Sentence.
Anthem.
Prayer.
Hymn, "From Greenland's icy mountains."
Sermon.
Hymn, "Gown Him with many Gowns."
Benediction.
Vesper.

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.—MALVERN TRAMWAYS BAND: Overture, "The Magic Flute" (Mozart).
- 8.45 p.m.—ERNEST SAGE, baritone: "Honour and Arms"—"Samson and Delilah" (Handel).
"The Perfect Prayer" (Maude Day).
- 8.52 p.m.—MALVERN TRAMWAYS BAND: Morceau, "The Turkish Patrol" (Michaelis).
March, "Blencathra" (Rimmer).
- 8.57 p.m.—MARY MACK, contralto: "Lament of Isis" (Bantock).
"Four by the Clock" (Mallinson).
- 9.4 p.m.—GEORGE FINDLAY, piano: "Romance in E Flat" (Rubinstein).
"Prelude in C Sharp Minor" (Rachmaninoff).
"Prelude in C Minor" (Pachulsky).
"Humoresque" (Dunhill).
- 9.16 p.m.—ERNEST SAGE, baritone: "Like as the Hart" (Allitsen).
"Loving Smile of Sister Kind" (Gounod).
- 9.23 p.m.—MALVERN TRAMWAYS BAND: "Minuet from 1st Symphony" (Beethoven).
- 9.30 p.m.—MARY MACK, contralto: "String of Pearls" (L. Phillips).
"The Ships of Arcady" (M. Head).
- 9.37 p.m.—MALVERN TRAMWAYS BAND: Overture, "Joan of Arc" (Wright).
- 9.50 p.m.—"Argus" News Service. Announcements.
ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TODAY IS:
"The man who takes chances with his own safety, gambles with the future happiness of his wife and children."
OUR GREAT THOUGHT:
"It is only a poor sort of happiness that could ever come by caring much about our own narrow pleasures. We can only have the highest happiness by having wide thoughts, and much feeling for the rest of the world as well as ourselves; and this sort of happiness often brings so much pain with it, that we can only tell it from pain from its being what we would choose before everything else, because our souls see it is good."

—George Eliot.

10 p.m.—"GOD SAVE THE KING."

3AR, MELBOURNE

SUNDAY, 6th MAY, 1928.

MORNING CHURCH SESSION.

- 10.30 a.m.—Chimes from St. John's Church, Torak.
- 11 a.m.—Morning Service from the Australian Church.
Preacher: Dr. Strong.

AFTERNOON SESSION.

"CELEBRITY CONCERT."

Announcer: Mr. Alan Lorraine Personal.
Accompanist: Miss Ethel Brearley.

- 3 p.m.—Piano Quintette, Miss Kathleen Bradshaw, Piano; Miss Louise McNicol, 1st Violin; Miss Amelda Clancy, 2nd violin; Miss Florence Gilder, viola; Mr. Stafford Byrne, cello.

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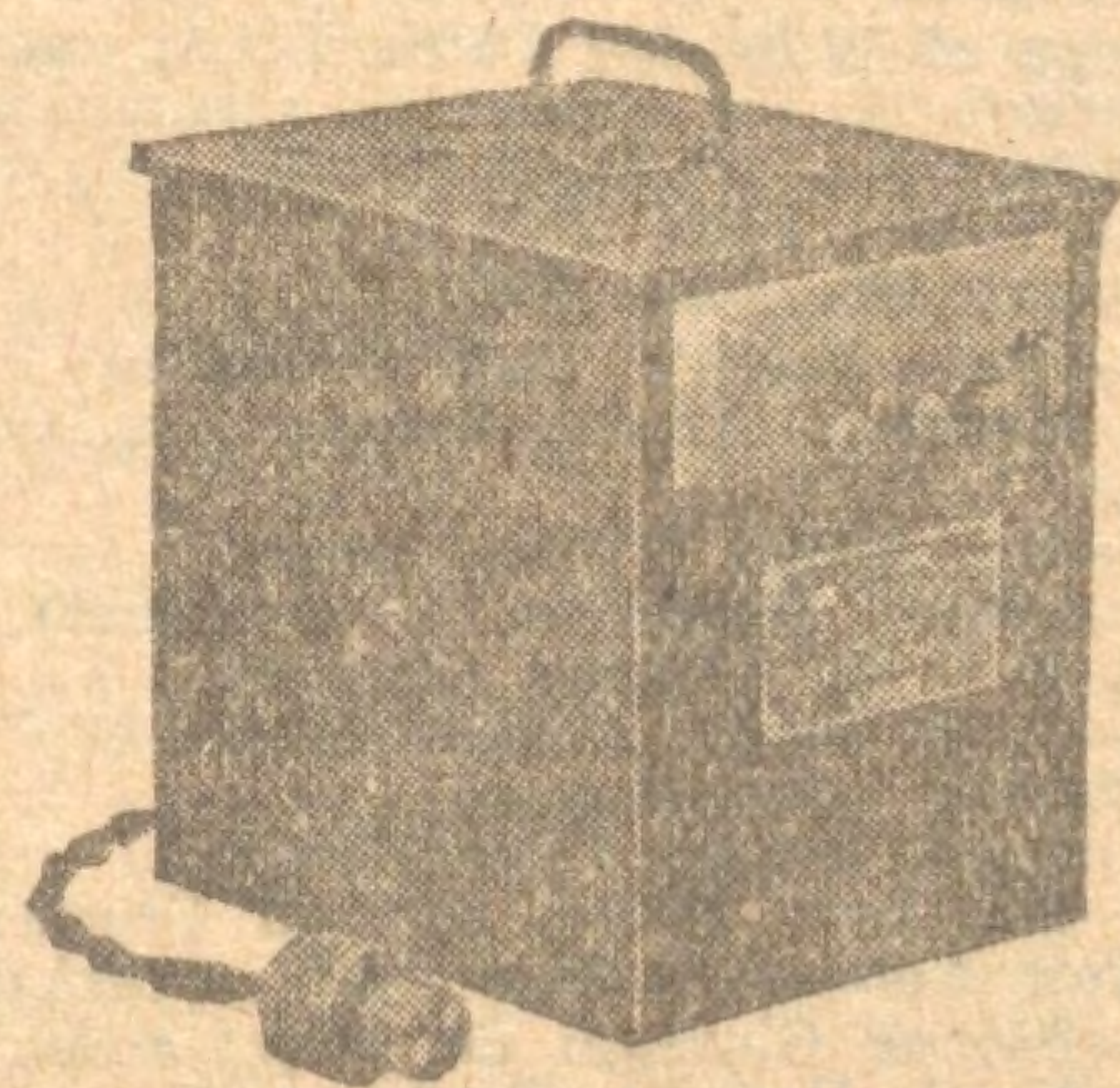
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4QG, BRISBANE.

SUNDAY, 6th MAY, 1928.

MORNING SESSION.

11 a.m.—From St. Stephen's Cathedral:
Morning service.
12.30 p.m.—Close down.

AFTERNOON SESSION.

The band concert will be relayed from the
Botanic Gardens.
3.15 p.m.—From the Botanic Gardens:
Band concert.
4.30 p.m.—Close down.

NIGHT SESSION.

The complete evening service will be re-
layed from St. Stephen's Roman Catholic
Cathedral.
7.30 p.m.—From St. Stephen's Cathedral:
Evening service.
At the conclusion of the church service,
the concert by the Brisbane Municipal Con-
cert Band will be relayed from Wickham
Park.
9.30 p.m.—Close down.

5CL, ADELAIDE.

SUNDAY, 6th MAY, 1928.

MORNING SESSION.

10.45 a.m.—Carillon of bells from St. Andrew's
Church, Walkerville.
11 a.m.—G.P.O. Chimes.
from Goodwood Presbyterian Church.
12.10 p.m.—International news, time announce-
ment, and close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Sunday afternoon concert from
Goodwood Presbyterian Church.
4 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

6.30 p.m.—G.P.O. Chimes.
6.31 p.m.—Carillon of bells relayed 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.—Evening Divine Service relayed from
St. John's Church of England.
8.15 p.m.—Sacred concert by St. John's Church
Choir.
9.30 p.m.—Talk by Mr. P. H. Nicholls:
"Sir Christopher Wren."
9.50 p.m.—To-morrow's programme and me-
teorological information.
9.55 p.m.—International News, station an-
nouncements, and close down.

6WF, PERTH.

SUNDAY, 6th MAY, 1928.

MORNING SESSION.

10.45 a.m.—Tune in.
11 a.m.—Morning church service relayed from
St. Andrew's Presbyterian Church, St.
George's Terrace, Perth.
Preacher, Rev. Geo. Tulloch.
12.15 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
3.35 p.m.—From the Studio.
Musical programme, including 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
Salvation Army Citadel, Pier Street.
8.45 p.m.—A Relay.
Concert by the Perth City Band, conducted
by Mr. L. M. Price, and After-Church ser-
vice relayed from Queen's Hall.
10.5 p.m.—Close down.
104.5 METRE TRANSMISSION.
Simultaneous broadcast on 104.5 Metres of
Programme given on 1250 Metres, commen-
cing at 7 p.m.

7ZL, HOBART

SUNDAY, 6th MAY, 1928.

11 a.m.—Church Service from Chalmers Pres-
byterian Church, Hobart.

AFTERNOON SESSION.

3.30 p.m.—G.P.O. Clock chimes.
Concert from the Studio.

EARLY EVENING SESSION.

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

NIGHT SESSION.

7 p.m.—Church Service from Memorial Con-
gregational Church, Hobart.
Preacher, Rev. Dr. Poole, D.D. President
Worlds Sunday School Federation.
At conclusion of Church Service Band con-
cert from
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, May 7
2FC, SYDNEY

EARLY MORNING SESSION.

7 a.m.—"Big Ben" and announcements.
7.5 a.m.—Studio music.
7.15 a.m.—Country Session: Official weather
forecast, rainfall, temperatures, astronomi-
cal memoranda, shipping intelligence, mail
services.
7.25 a.m.—Investment market, mining share
market, metal quotations.
7.35 a.m.—Wool sales, breadstuffs, markets,
Interstate markets, produce markets.
7.45 a.m.—"Sydney Morning Herald" sum-
mary.
7.50 a.m.—Studio music.
8 a.m.—"Big Ben." Close down.

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.—Last minute Racing information
by the 2FC Commissioner.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben." Studio music.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.15 a.m.—A reading.
11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon.—"Big Ben" and programme an-
nouncements.
12.2 p.m.—Stock Exchange, first call.
12.3 p.m.—Weather forecast, rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning
Herald" news service.

"First Movement from Quintette, Op. 44"
(Schumann).

3.12 p.m.—Miss Jean Lewis, contralto:
"When thy blue eyes" (Lassen).
"At Night" (Strauss).

3.19 p.m.—String Quartette, Miss Louise
McNicol, 1st violin; Miss Amelda Clancy,
2nd violin; Miss Florence Gilder, viola;
Mr. Stafford Byrne, cello.
"1st and 2nd Movements from String Quar-
tette, Op. 96" (Dvorak).

3.35 p.m.—Piano Trio, Miss Kathleen Brad-
shaw, piano; Miss Louise McNicol, violin;
Mr. Stafford Byrne, cello:
"1st and 2nd Movement of Trio, Op. 49"
(Mendelssohn).

3.50 p.m.—Miss Jean Lewis, contralto:
"The Heart Worships" (Gustav Holst).
"The Cloths of Heaven" (Dunhill).

3.58 p.m.—String Quartette:
"3rd and 4th Movements from Quartette,
Op. 96" (Dvorak).

4.7 p.m.—Piano trio:
"Two Old English Songs" (Ar. Roger
Quilter).

4.16 p.m.—Piano quintette:
"Quintette, Op. 44" (Schumann).

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 Church Service from Toorak
Presbyterian Church.
Preacher: Rev. J. MacKenzie, M.A.

EVENING SESSION.

8.30 p.m.—Brunswick Panatrophe Entertain-
ment—Broadcast from Panatrophe House,
252 Collins street, Melbourne by exclusive
Permission of Wills and Paton Ltd.), under
the direction of the Panatrophe Committee:
Chairman: Mr. W. D. S. Taylor.
Selector: Mr. John Feil.
Direction: Mr. John Feil.

8.31 p.m.—New Queen's Hall Orchestra:
"Danse Macabre" (Saint Saens). In two
parts.

8.39 p.m.—Mr. Alfred O'Shea, tenor:
"Liebestraume" Dream of Love (Liszt).
"Ombra Mai Fu"—Largo (Handel).

8.47 p.m.—J. H. Squire Celeste Octet:
"Ave Maria" (Bach-Gounod).
"On Wings of Song" (Mendelssohn).

8.55 p.m.—Mr. Lew White, Kimbell Organ:
"Are You Lonesome To-night?" (Turk).
8.59 p.m.—Signor Giuseppe de Silva, cello:
"Home Sweet Home" (Traditional).
"Robin Adair" (Traditional).

9.4 p.m.—La Scala Chorus of Milan:
"Chorus of Gipsies" from La Traviata
(Verdi).
"Il Bel Giovannetto" from Mefistofele.
(Boito).

9.10 p.m.—Mr. William Murdoch, piano:
"March Militaire" (Schubert). In two
parts.

9.18 p.m.—Mr. Charles Hackett, tenor:
"Duna" (McGill).
"A Brown Bird Singing" (Woods).

9.24 p.m.—Sir Dan Godfrey:
"Kaiser" March (Wagner). In two parts.

9.32 p.m.—Mr. Leff Pouishnoff, piano:
"Polichinello" (Rachmaninoff).
"Prelude in B Flat" (Rachmaninoff).

9.40 p.m.—Circolo Mandolinistico Giuseppe
Verdi of Leghorn:
"Prelude, Act 1" from La Traviata (Verdi).
"Prelude, Act 4" from La Traviata (Verdi).

9.48 p.m.—The Regimental Band of His
Majesty's Grenadier Guards:
"Nearer, My God, To Thee" (Rev. J. B.
Dykes).

"Onward Christian Soldiers" (A. Sullivan).
9.54 p.m.—The "Age" news bulletin, exclusive
to 3AR.

9.58 p.m.—Weather forecast.

9.59 p.m.—Our Australian Good night Quote
is taken from the poem, "A Vision of
Christ," by George Essex Evans.

10 p.m.—G.P.O. Clock says "Ten."
God Save the King.

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.—Ruth Vincent, mezzo:
 “Blackbird and Rose” (Clarke).
 1.35 p.m.—Studio music.
 1.55 p.m.—Ruth Vincent, mezzo:
 “The Carnival” (Molloy).
 2 p.m.—“Big Ben.” Close down.

AFTERNOON SESSION.

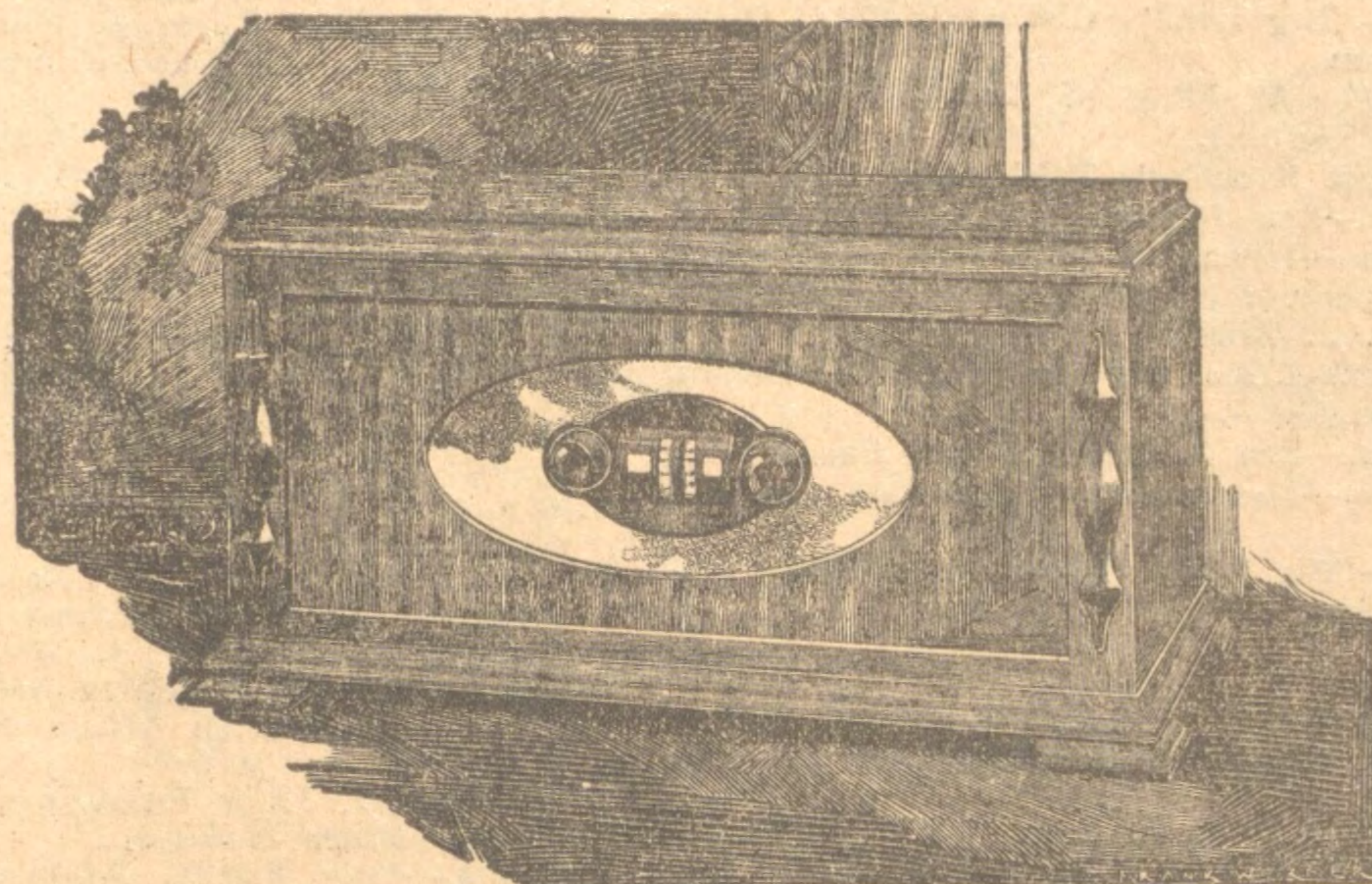
3 p.m.—“Big Ben” and programme announcements.
 3.5 p.m.—Margaret Hunt, soprano:
 “Come Out, Come Out” (Dessauer).
 3.10 p.m.—Violin Solo by pupil of Cyril Monk.
 3.16 p.m.—Jeanette Rooney, contralto:
 “Irish Folk Song” (Foote).
 3.20 p.m.—A reading.
 3.35 p.m.—Molly Neill, mezzo.
 3.40 p.m.—Patrick Manley, light baritone:
 “Mountain Lovers” (Squire).
 3.45 p.m.—Violin solos by pupil of Cyril Monk.
 3.55 p.m.—Margaret Hunt, soprano:
 “Three Green Bonnets” (Guy D’Hardelot).
 4 p.m.—“Big Ben.”
 Jeanette Rooney, contralto:
 “Salaam” (Lang).
 4.5 p.m.—Studio music.
 4.20 p.m.—Molly Neill, mezzo.
 4.25 p.m.—Patrick Manley, light baritone:
 “Until” (Sanderson).
 4.30 p.m.—Studio music.
 4.40 p.m.—Violin solo by pupil of Cyril Monk.
 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.
 Children’s Session, arranged by the “Hello Man.”
 6.25 p.m.—Children’s music.
 6.30 p.m.—Late sporting information.
 6.35 p.m.—Dalgety’s market reports (wheat, wheat and stock).
 6.43 p.m.—Fruit and vegetable markets.
 6.45 p.m.—Stock Exchange information.
 6.48 p.m.—Weather and shipping intelligence.
 6.50 p.m.—Studio talk.
 7 p.m.—Dinner music.
 7.30 p.m.—Late “Evening News” news service.

NIGHT SESSION.

7.40 p.m.—Programme announcements.
 7.45 p.m.—Elliott Napier will continue his series of talks on “The Great Barrier Reef.”
 8 p.m.—“Big Ben.” From the King’s Cross Theatre, Darlinghurst: Items by the King’s Cross Theatre Orchestra. Conductor, E. J. Roberts.
 8.15 p.m.—From the Warringah Hall, Neutral Bay. On the occasion of the monthly concert of the North Sydney Orphans’ Wail. A programme by the following artists:—
 Sydney Calland, baritone.
 Eileen Boyd, contralto.
 Keith Desmond, entertainer.
 (a) “The whitest man I know” (Milton Hayes).
 (b) “Gimme the Ground” (Dryblower).
 (c) “Death of Nelson” (Cockney version), (Keith Desmond).
 Dorothy Dewar, soubrette.
 James Donnelly, negro spirituals.
 Jean Gerrard, melo piano.
 9 p.m.—“Big Ben.” From the Studio: Late weather forecast.
 Graham Kent, Bridge talk.
 9.15 p.m.—Charles O’Mara, entertainer:
 (a) “The Blarney Roses” (Flint).
 (b) “Slivenamon”—Irish Folk Song (Kickham).
 9.22 p.m.—Edgar Warwick and Eileen Dawn: Radio Sketch.



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DAVID JONES'

Castlereagh, Market & Elizabeth Streets

- 9.32 p.m.—From the King's Cross Theatre, Darlinghurst: The King's Cross Theatre Orchestra. Conductor: E. J. Roberts.
 9.45 p.m.—From the Studio: Edgar Warwick and Eileen Dawn; Radio Sketch.
 10 p.m.—"Big Ben." Charles O'Mara, entertainer:
 (a) "The Wedding of Molly Magel" (Lee and Weston).
 (b) "The Bachelor's Tale" (French).
 10.8 p.m.—Len Maurice, popular baritone.
 10.15 p.m.—From the King's Cross Theatre, Darlinghurst: Orchestral items. Conductor, E. J. Roberts.
 10.30 p.m.—From the Studio: Late weather forecast.
 10.31 p.m.—Len Maurice. Dance Session.
 10.57 p.m.—To-morrow's programme and late news.
 11 p.m.—"Big Ben." National Anthem.
 Close down.

2BL, SYDNEY.

MONDAY, 7th MAY, 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 the studio.
 11 a.m.—G.P.O. Clock and chimes.
 Talk on "Tennis" by Miss Varley, Broadcasters Women's Sports Authority.
 Talk on "Preserves" by Mrs. Jordan.
 12 noon.—G.P.O. Clock and chimes.
 Special Ocean Forecast and weather report.
 12.3 p.m.—Musical programme from studio.
 12.10 p.m.—Information, Mails, Shipping and port directory.
 12.14 p.m.—Boat in call by wireless.
 12.16 p.m.—Fruit Market Report.
 12.18 p.m.—Vegetable Market report.
 12.20 p.m.—Dairy Farm and Produce Market report.
 12.24 p.m.—Forage Market report.
 12.26 p.m.—Fish Market report.
 12.28 p.m.—Rabbit Market report.
 12.30 p.m.—H.M.V. Gramophone Recital.
 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."
 3.10 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 evenings 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.
 6.30 p.m.—Gulbransen Dinner Music.

SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. Clock and chimes.
 Racing Resume.
 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.")
 7.15 p.m.—Country News from the "Sun."
 7.30 p.m.—Talk on "The Motor Car and its Idiosyncrasies" by Mr. Martin, Manager of Central Motor Agencies, Hurstville.
 8 p.m.—G.P.O. Clock and chimes.
 Scotch Night.
 8.1 p.m.—Mr. Peter Sutherland, basso.
 8.8 p.m.—The Wurlitzer Organ broadcast from the Arcadia Theatre, Chatswood.
 Organist, Mr. N. Robins.
 8.15 p.m.—Miss Phyllis Atkinson, soprano.
 8.22 p.m.—Piper McKay.
 8.27 p.m.—Miss Bunty Stuart, contralto.
 8.34 p.m.—Miss C. L. Robertson, elocutionist.
 8.41 p.m.—Mr. Douglas Graham, Scotch comedian.
 8.48 p.m.—Talk by Miss Iris Norton on "Movie plays and Players."
 9 p.m.—G.P.O. Clock and chimes.
 Weather report and forecast by courtesy of Mr. C. J. Mareg, Govt. Meteorologist.
 9.1 p.m.—Mr. Lance Jeffree, tenor.
 9.8 p.m.—The British Music Society String Quartette.
 9.15 p.m.—Mr. Peter Sutherland.
 9.22 p.m.—Piper McKay.
 9.27 p.m.—Miss Phyllis Atkinson.
 9.34 p.m.—Miss C. L. Robertson.
 9.41 p.m.—Mr. Douglas Graham.
 9.48 p.m.—The British Music Society String Quartette.
 9.55 p.m.—Mr. Lance Jeffree.
 10.2 p.m.—Miss Bunty Stuart.
 10.9 p.m.—Resume of following day's programme.
 10.13 p.m.—The Wurlitzer Organ Broadcast from the Arcadia Theatre, Chatswood.
 Organist, Mr. N. Robins.
 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.

2 UW, SYDNEY

MONDAY, 7th MAY, 1928.

EVENING SESSION.

- 7 p.m.—Studio items.
 7.10 p.m.—Where to Go Session.
 7.15 p.m.—Dinner music.
 7.45 p.m.—Mrs. A. Dalton, pianoforte solo:
 Selected.
 7.52 p.m.—Studio item.
 7.55 p.m.—Mrs. A. Pearce, violin solo:
 Selected.
 8.1 p.m.—News items, mails, and shipping intelligence.
 8.20 p.m.—Mrs. A. Dalton, pianoforte solo:
 Selected.
 8.26 p.m.—Studio item.
 8.39 p.m.—Mrs. A. Pearce, violin solo:
 Selected.
 8.35 p.m.—Studio items.
 8.45 p.m.—Weather forecast.
 8.48 p.m.—Vocal and instrumental items.
 9 p.m.—Dance music.
 9.25 p.m.—Request numbers.
 9.40 p.m.—Dance music.
 10 p.m.—Close down.

3LO, MELBOURNE.

MONDAY, 7th MAY, 1928.

EARLY MORNING SESSION.
 "HERALD" BREAKFAST HOUR.
 7.15 a.m. to 8.15 a.m.

MORNING SESSION.

- 11 a.m.—3LO's CLUINARY COUNSELS or
 How to Create Creature Comforts with a
 Minimum of Cash.
 PLUM SAGO PUDDING.
 4 tablespoons sago.
 1½ gills milk.
 1 cup breadcrumbs.

- 1 cup raisins.
 ½ teaspoon carbonate soda dissolved in a little boiling water.
 1 tablespoon butter.

2 tablespoons sugar (brown).
 METHOD: (1) Soak sago in the milk over night. (2) Stone raisins. (3) Mix all other ingredients in together. (4) Put in greased basin and steam for 2½ hours. (5) Serve with boiled custard.

THE OLYMPIC GAMES: The Australian Wonder Girl Backstroke Swimmer, Bonnie Mealing, who only weighs 7 stone 6 lbs., recently registered 1 min. 14½ sec. for 100 yards. Back stroke. This girl is one of Australia's selected representatives for the Olympic Games and will be sent if sufficient money is forthcoming.

Your help is needed. Australia must place her strongest team in the field.

Send your donation to the Lord Mayor's Olympic Fund. 3LO, Melbourne, will be pleased to receive any subscription towards the fund.

11.5 a.m.—FLORA FELL, Inspector of Schools, will chat with you on the all important subject of "Cooking."

11.20 a.m.—Musical interlude.

11.25 a.m.—Under the auspices of the Royal Victorian Institute of Architects, MISS L. B. LEE, A.R.V.I.A., will speak on "Decorating your Home."

11.40 a.m.—Musical interlude.

11.45 a.m.—Under the auspices of the St. John Ambulance Association, Victoria Centre:

J. H. LORD, Secretary of the Association, will give a "General Summary of Previous Talks, reiterating the important points" MID-DAY NEWS SERVICE.

12 noon.—Melbourne Observatory Time Signal.

12.1 p.m.—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, transmitted from the Assembly Hall, Collins Street, Melbourne (Conductor, G. J. Mackay), assisted by THE GYI-SY PLAYERS.

FROM THE STUDIO:

- 1.45 p.m.—Stock Exchange information.
 Meteorological information. Weather forecast and rainfall for Victoria, Tasmania, South Australia and New South Wales.
 Ocean forecasts. River reports. Announcements.
 1.55 p.m.—Close down.

AFTERNOON SESSION.

- 2.15 p.m.—THE STATION ORCHESTRA:
 Selection from "Sunny" (Kern).
 2.25 p.m.—OLIVER PEACOCK, baritone:
 "Grey Morn" (Standish).
 "If Thou Wert Blind" (Noel Johnson).
 2.32 p.m.—THE STATION ORCHESTRA:
 "Dance of the Serpents" (Boccalagi).
 2.40 p.m.—WE NOW ASK YOU TO extend a Hearty Welcome to
 ELSIE DAVIES, the well-known soprano who is with us again for a short season:
 "Thou Art Risen, my Beloved" (Coleridge Taylor).
 "Big Lady Moon" (Coleridge Taylor).
 2.47 p.m.—THE KNOCKABOUTS in a little more
 "Musical Merriment."
 2.52 p.m.—FRANK AND FRANCIS LUIZ:
 Duet, "Honeymoon Isles."
 Steel Guitar, "Silver Threads amongst the Gold."
 Song, "Pua Mohala."
 Duet, "Since Ukulele Lady had a Ukulele Baby."
 3.5 p.m.—THE STATION ORCHESTRA:
 Selection from "The Jewels of the Madonna"—Grand Opera by (Wolf Ferrare).
 3.20 p.m.—EDWARD HOCKING, tenor:
 "Columbine" (Chapman).
 "My Mary Sweet and Brown" (Kilner).
 3.27 p.m.—THE STATION ORCHESTRA:
 "Moment Musical" (Schubert).
 3.30 p.m.—E. F. RITTER:
 A SHORT STORY.

- 3.50 p.m.—THE STATION ORCHESTRA:
"Second Hungarian Rhapsody" (Franz Liszt).
- 4 p.m.—OLIVER PEACOCK, baritone:
"Persian Prayer Rug" (Crompton).
"Oriental Embroidery" (Crompton).
- 4.7 p.m.—THE KNOCKABOUTS: the Giggle Getters in
"A few more Catchy Cadences."
- 4.12 p.m.—ELSIE DAVIES, soprano:
"The Swan" (Saint Saens).
"The Swan" (Grieg).
- 4.19 p.m.—WILL PAGE, Xylophone, and the Station Orchestra:
Selection, "William Tell."
- 4.23 p.m.—THE STATION ORCHESTRA:
"Bits and Pieces" (Syd. Baynes).
- 4.34 p.m.—EDWARD HOCKING, tenor:
"All in a Lily White Gown" (Easthope Martin).
"Drink to me only with thine eyes" (Quilter).
- 4.41 p.m.—Special Weather Report from Adelaide for Mildura District.
- 4.42 p.m.—THE STATION ORCHESTRA:
"Habanera and Vagrueros Song" from "Nataña" (Vic. Herbert).

NEWS SESSION.

- 5 p.m.—"Herald" News Service.
Stock Exchange information.
- 5.15 p.m.—Close down.
- 5.30 p.m.—Acceptances for Geelong Races on Wednesday, 9th.
Results of Richmond Trotting Races will be given as they come to hand during the afternoon.

EVENING SESSION.

- 6 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
- 6.20 p.m.—We now have much pleasure in introducing to you a short series of quaint little "Poems for the Littlest Ones." They are written by Mrs. Frame, a well-known Melbourne verse writer. A further selection will be read to-morrow night at 6.20. You will be delighted.
- 6.25 p.m.—CAPTAIN DONALD MacLEAN:
The Spanish Conquests:
How the Dons discovered the Treasures of the World.
- 6.40 p.m.—Musical interlude.
- 6.45 p.m.—"BILLY BUNNY" has a story to tell you.

NEWS AND MARKET REPORTS.

- 7 p.m.—Official reports of Newmarket stock sales by the Association Stock and Station Agents, Bourke Street, Melbourne. Number of sheep and cattle drawn for week's sales.
- 7.16 p.m.—"Herald" news service. Weather synopsis. Shipping information.
- 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 Fruitgrowers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.

NIGHT SESSION.

- 7.30 p.m.—E. C. H. TAYLOR will speak on "School Life and School Sport."
- 7.45 p.m.—Under the auspices of the Department of Agriculture,
R. L. TWENTYMAN, Science Field Officer, will speak on
"Wheat Growing—Pickling Seed."

BRIEF BIOGRAPHIES.

- To-day is the anniversary of the birth of one of England's greatest poets, ROBERT BROWNING, who was born at Camberwell, England, on May 7th, 1812. As a poet he is distinguished for the depth of his spiritual insight, his dramatic energy, and power of psychological analysis.
- 8.1 p.m.—Farewell message of the AUSTRALIAN OLYMPIC TEAM:
Speakers: Colonel C. V. Watson, D.S.O.
J. Carlton, N.S.W.
T. Boast, Queensland.
L. E. Duff, Manager.
Transmitted from the Studio.

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

OUT OF THE PAST.

8.16 p.m.—On the 7th May, 1915, the "Lusitania" was torpedoed while on her way from America to England.

OUR MUSICAL PROGRAMME.

STRING QUARTET AND CHORAL ITEMS.

8.17 p.m.—THE GYPSY PLAYERS:

"Quartet" (Schumann).

8.27 p.m.—ELSIE DAVIES, soprano:

Suicide Aria from La Gioconda" (Ponchielli).

8.34 p.m.—BERTHA JORGENSEN, violin:

"Meditation" (Massenet).

"Serenade" (Drdla).

8.44 p.m.—ELSTERNWICK MALE CHOIR:

"Comrades in Arms" (Adolphe Adam).

"Rest, Dearest Rest" (Kuchen).

8.51 p.m.—THE GYPSY PLAYERS:

"Gavotte" (Old French) (Pocron).

"Angel Gabriel" (Stewart).

9.1 p.m.—ISOBEL BIDDLELL, contralto:

"The Green Hat" (Schumann).

"Ave Maria" (Schubert).

9.8 p.m.—HELGA BRENNICKE, 'cello:

Selected.

9.15 p.m.—ELSTERNWICK MALE CHOIR:

"The Lost Chord" (Sullivan).

"O Who Will o'er the Downs so Free" (Pearsall).

9.22 p.m.—THE GYPSY PLAYERS:

"Serenade" (Hady).

A SHORT STORY.

9.30 p.m.—E. F. RITTER.

POPULAR FAVOURITES.

9.45 p.m.—THE STATION ORCHESTRA:

Selection, "Queen High" (Gersler).

9.52 p.m.—ELSIE DAVIES, soprano:

"Una Voce Poco" (Rossini).

Selected.

10 p.m.—RUPERT HAZELL AND ELSIE

DAY:

"Harmonylarity."

10.12 p.m.—THE STATION ORCHESTRA:

"The Erl King" (Schubert) (transcribed by Franz Liszt).

10.17 p.m.—ISOBEL BIDDLELL, contralto:

"Odel mio dolce ardor" (Gluck).

"Fairy Pipers" (by request) (Brewer).

NEWS SESSION.

10.24 p.m.—"Argus" news session. Meteorological information. British official wireless news from Rugby. Announcements.

The Royal Automobile Club of Victoria's SAFETY MESSAGE for to-day is:

"It is better to take pains to prevent accidents than to have accidents give you pains."

THE MAGIC OF MELODY.

10.35 p.m.—THE STATION ORCHESTRA:

"La Paloma" (Yradier).

10.42 p.m.—OLIVER PEACOCK, baritone:

"The Curtain Falls" (D'Hardelot).

"Love's Coronation" (Aylward).

10.49 p.m.—THE STATION ORCHESTRA:

Songs from "Going Up":

"If you look in her eyes" (Hirsch).

"Everybody ought to know it" (Hirsch).

"Kiss Me" (Hirsch).

10.55 p.m.—OLIVER PEACOCK, baritone:

"Mifawny" (Forster).

"The Last Song" (Rogers).

11.2 p.m.—OUR GREAT THOUGHT:

The man who throws away his life to

avenge an insult has only courage; to for-

give, with nobleness, requires a higher vir-

tue-abnegation."

—George Sand.

11.3 p.m.—THE VAGABONDS.

DANCE MUSIC.

11.40 p.m.—"GOD SAVE THE KING."

3AR, MELBOURNE

MONDAY, 7th MAY, 1928.

EARLY MORNING SESSION.

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

MORNING NEWS SESSION.

MIDDAY CONCERT SESSION.

Transmitted from Panatrophe House, 252 Collins street (by exclusive permission of

Wills and Paton Ltd.), on the Brunswick Panatrophe:

12.1 p.m.—The Silver Stars Band:

MATINEE SESSION.

ORCHESTRAL DANCE CONCERT.

SPORT. During the afternoon the results of the Richmond Trots together with other information, will be broadcast immediately each race is run.

2 p.m.—Ayaz 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:

"Souvenir de Chopin" (Oscar Fetras).

"The Savoy English Medley" (Somers).

2.48 p.m.—Miss Vida Chugg, mezzo soprano:

"Gods Garden" (Lambert).

"Drift Down" (Landon Ronald).

2.55 p.m.—Melbourne Concert Orchestra:

Suite, "Ballet Suite" (Gretry-Mottl).

3.10 p.m.—Mr. C. Richard Chugg, flute:

"La Flute de Pan" (Wasch).

3.14 p.m.—Miss Vida Lugg, mezzo-soprano:

"My Prayer" (Squire).

"Paradise for Two" (Simpson).

3.21 p.m.—Ayaz Dansonians:

3.30 p.m.—Interval announcements.

3.40 p.m.—Melbourne Concert Orchestra:

"Margarethe" (Stasny).

4 p.m.—G.P.O. Clock Says "Four."

4.1 p.m.—Second weather forecast.

4.3 p.m.—Miss Ethel Brearley, piano:

"Sea Pieces" (Macdowell).

4.7 p.m.—Ayaz Dansonians.

4.19 p.m.—Mr. Tom Semple, tenor:

"Carissima" (Penn).

"The Lilac Tree" (Gartland).

4.26 p.m.—Melbourne Concert Orchestra:

"By the Lake of Geneva, Part 1" (Bendel).

4.35 p.m.—Mr. Tom Semple, tenor:

"The Crown of the ear" (Martin).

"O Mistress Mine" (Roger Quilter).

4.42 p.m.—Ayaz Dansonians:

4.50 p.m.—To-night's Entertainment.

4.55 p.m.—Special racing report, acceptances and Barrier positions for the Geelong races by "Daybreak."

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.

EVERYBODY'S CONCERT.

7.15 p.m.—Hoby Session. "Snapshot" of the Listener-in will speak on "Photography for Beginners."

7.25 p.m.—SPORT SESSION. "Harlequin" presents his budget of up-to-date news and comments on sport of the day.

7.35 p.m.—Book Session. Mr. Alfred Firman, Chief Librarian of Mullen's presents rapid reviews on books of yesterday, to-day, and to-morrow.

7.45 p.m.—Mr. Townsend Whiting, playing in "Mr. What's His Name" will give a talk from his dressing room.

7.50 p.m.—Macnamara's Stock Report.

8 p.m.—G.P.O. Clock says "Eight."

8.1 p.m.—Melbourne Concert Orchestra:

"Ballet Music from Gioconda" (A. Ponchielli).

"Valse Poudree" (Francis Popy).

8.15 p.m.—Miss Valerie Walsh, contralto:

"Still as the Night" (Carl Bohm).

"Like to the Damask Rose" (Elgar).

8.23 p.m.—Ayaz Dansonians.

8.39 p.m.—Mr. Ken Code, trombone:

"At Sunset" (Percy Code).

8.43 p.m.—Miss Valerie Walsh, contralto:

"Pleading" (Ed. Elgar).

"The Shepherd's Song" (Ed. Elgar).

8.50 p.m.—Mr. H. Desbrowe Annear, A.R.V.

I.A. will talk on "Home Furnishing in Good Taste."

9.2 p.m.—Melbourne Concert Orchestra:

Selection from "Lilac Time" (Ar. Clutsam).

"Prelude" (Rachmaninoff).

9.17 p.m.—Mr. Joseph Fava, tenor:

"Ici Bas" (Guy d'Hardelot).

"Tired Hands" (Sanderson).

9.25 p.m.—Mr. Herbert Pettifer, violin:

"Petite Hongroise" (Rollman).

9.30 p.m.—"Harlequin." Sport results.

9.38 p.m.—Ayaz Dansonians.

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.—Melbourne Concert Orchestra.

10.20 p.m.—Mr. Joseph Fava, tenor:

"A Castilian Lament" (del Riego).

"As you pass by" (Kennedy Russell).

10.27 p.m.—Ayaz Dansonians:

Fox Trot, "Magic Voices of the Night" (Sherman).

Waltz, "Russian Lullaby" (Berlin).

Fox Trot, "Waters of Minnetonka" (Ar. Lange).

10.36 p.m.—Mr. C. Richard Chugg, flute:

"Idylle" (Krantz).

10.40 p.m.—Melbourne Concert Orchestra:

"Fantasie Espagnole" (Lucius Hosmer).

10.25 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, "Bugles in the Valley" by Mary Gilmore.

11 p.m.—G.P.O. Clock says "Eleven."

4QG, BRISBANE

MONDAY, 7th MAY, 1928.

MORNING SESSION.

10.30 a.m. to 11.30 a.m.

MIDDAY SESSION.

1 p.m.—Market reports; weather information; "The Daily Mail" and "The Daily Standard" news.

1.30 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; weather 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.—A Science Talk: "How Plants Feed"—by Mr. Inigo Jones.

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.

8 p.m.—National Anthem.

8.1 p.m.—Portion of the organ recital by the City Organist (Mr. Geo. Sampson, F.R.C.O.). Overture, "Si J'etais Roi" (Adam), "Berceuse" (Cui), "Toccata in F." (Bach).

PART II—STUDIO CONCERT

8.30 p.m.—Topical chorus.

8.33 p.m.—A Thought for To-night:

"Are We Making Good?"

8.35 p.m.—Overture "Raymond" (Thomas).

The Studio Orchestra (conductor, Mr. A. R. Featherstone).

8.43 p.m.—Ten minutes of humor by "Graham and Wattie."

8.54 p.m.—Pianoforte solo, "Scenes from an Imaginary Ballet" (Coleridge-Taylor).

Miss Thelma Sanderson.

8.59 p.m.—Metropolitan weather forecast.

9 p.m.—Contralto solos:

(a) "I Heard You Go By" (Wood).

(b) "For Ever and For Ever" (Tosti).

Miss Vera Parker.

9.8 p.m.—Novelette.

"Moon Dreams" (Lee S. Roberts).

The Studio Orchestra.

9.15 p.m.—Soprano solo:

"June Music" (Trent).

Miss Jean McDougall.

9.19 p.m.—Novelty march:

"Near Beer" (Castillo).

The Studio Orchestra.

9.25 p.m.—Soprano Solo, selected.

Mrs. Robert Bell.

PART III.

- 9.30 p.m.—An impromptu programme of music by the Brisbane Citizens Band (conductor, Mr. A. Kaiser).
 10 p.m.—"The Daily Mail" news.
 10.5 p.m.—Weather news.
 10.10 p.m.—Close down.

5CL, ADELAIDE

MONDAY, 7th MAY, 1928.

MIDDAY SESSION.

12 noon to 2 p.m.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Chimes.
 3.1 p.m.—Musical numbers on the studio "Recreator."
 3.30 p.m.—Menu talk by "Homelover."
 3.45 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.
 6.30 p.m.—Dinner Music on the studio "Recreator."
 7 p.m.—G.P.O. Chimes.
 7.1 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.
 7.10 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
 7.15 p.m.—Resume of the Previous Saturday's sporting.
 7.30 p.m.—"The care of the clothes" by Ford Bros.
 7.40 p.m.—Entertainment by "The Twinkler" for his 5CL Boys Club.
 8 p.m.—G.P.O. Chimes.
 8.1 p.m.—Allegro Instrumental Trio.
 8.11 p.m.—Humorous Interlude by Will Runge.
 8.19 p.m.—Allegro Instrumental Trio.
 8.26 p.m.—May Foulds, Dramatic soprano.
 8.33 p.m.—Relay from Glenelg, The Maison Dance Band.
 8.45 p.m.—Will Runge, humorist.
 8.54 p.m.—Allegro Instrumental Trio.
 9.1 p.m.—Meteorological Information, weather Forecast.
 9.2 p.m.—Dalgety's Wheat report.
 9.3 p.m.—International news.
 9.12 p.m.—May Foulds, dramatic soprano.
 9.16 p.m.—Allegro Instrumental Trio.
 9.24 p.m.—Syd. Morrell, baritone: "Cloze-Props" (Charles).
 9.31 p.m.—Allegro Instrumental Trio.
 9.38 p.m.—D. J. Galbraith, tenor.
 9.45 p.m.—Relay from Glenelg, The Maison Dance Band.
 10.1 p.m.—"Advertiser" news service.
 10.8 p.m.—Wireless Shipping contracts.
 10.12 p.m.—Interstate and local sporting results.
 10.18 p.m.—Allegro Instrumental Trio.
 10.25 p.m.—Syd Morrell, baritone: "Charabanc Joe" (Charles).
 10.28 p.m.—Relay from Glenelg, The Maison Dance Band.
 10.38 p.m.—D. J. Galbraith, tenor.
 10.41 p.m.—Allegro Instrumental Trio.
 10.48 p.m.—Relayed from Glenelg, The Maison Dance Band.
 10.55 p.m.—Meteorological information, station announcements, to-morrow's programme.
 11 p.m.—G.P.O. Chimes and National Anthem.

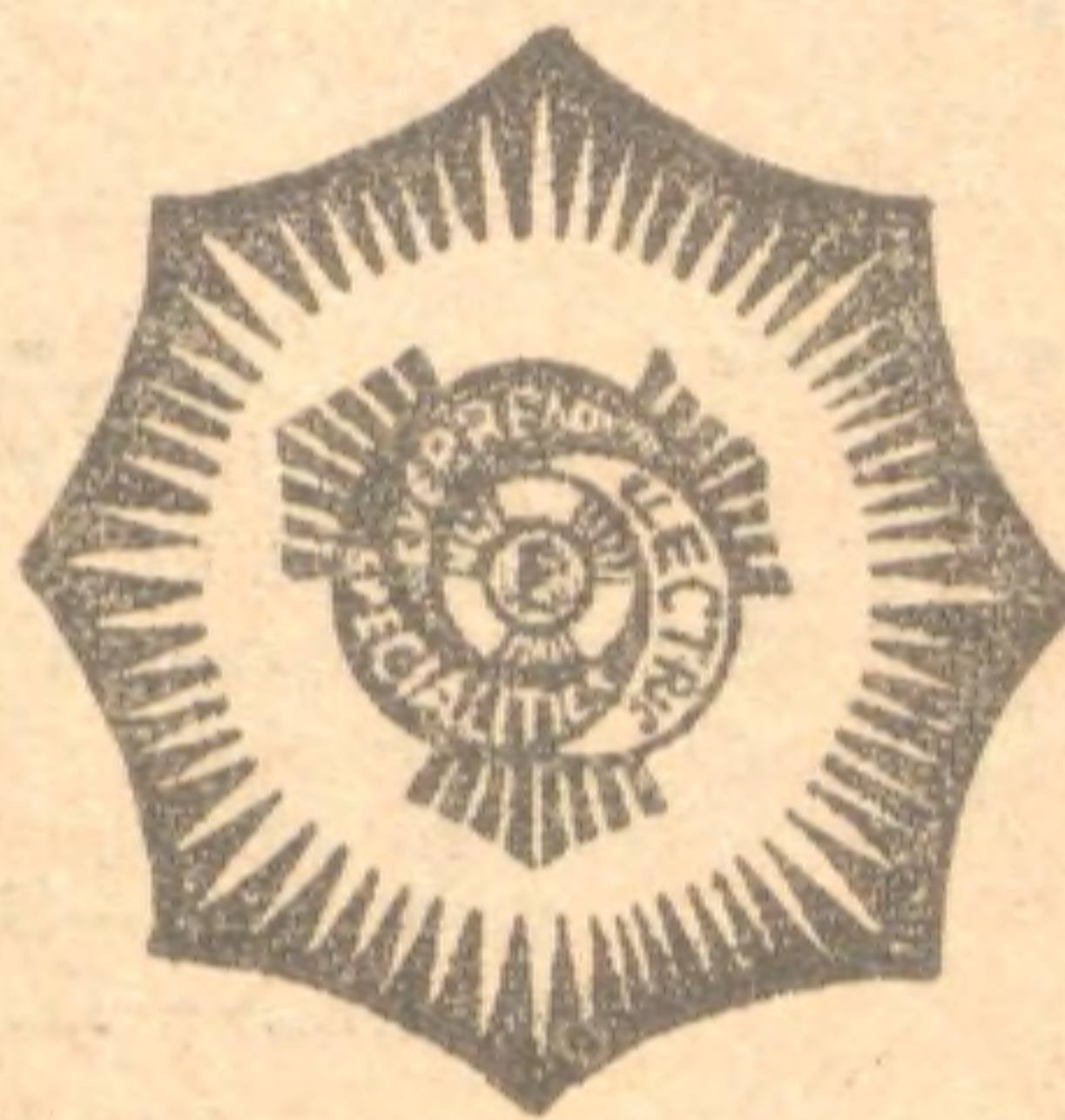
6WF, PERTH.

MONDAY, 7th MAY, 1928.

MORNING SESSION.

- 12 noon.—Tune in.
 12.5 p.m.—Musical programme, including pianoforte selections by Miss Evelyn Willis, A.R.C.M.
 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.

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AFTERNOON SESSION.

- 1.55 p.m.—Tune in.
 2 p.m.—At Ascot.
 Running commentary of Racing events relayed from Ascot Racecourse, Ascot.
 2.30 p.m.—From the Studio.
 Musical programme, including vocal and instrumental numbers.
 5.30 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, Percy and Duffy.
 7.20 p.m.—Stocks, Markets, 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.—Band Night.
 Concert by the R.S.L. Band, conducted by Mr. W. A. Halvorsen, relayed from the R.S.L. Institute.
 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, 7th MAY, 1928.

MORNING SESSION.

11 a.m. to 12 noon.

AFTERNOON SESSION.

- 8 p.m.—G.P.O. Clock chimes the hour.
 8.1 p.m.—Musical selections.
 8.5 p.m.—Hobart Stock Exchange quotations.
 Weather information.
 Items of interest, Announcements.
 8.15 p.m.—Selections by 7ZL Studio Trio.
 Overture, "Frolics of Cupid Blon."
 "Valse des Fleurs" (Hall).
 Violin Solo. Selected. Mr. E. J. McCann.
 Selection, "White Chrysanthemums" (Rubens).
 Clarinet Solo. Selected. Mr. Arthur Young.
 "Pearl O' Mine" (Fletcher).
 Pianoforte Solo. Selected. Mr. A. Roberts.
 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.—Uncle Hubert's half hour.
 7 p.m.—Funny Man talks to the children.

NIGHT SESSION.

- 7.30 p.m.—Musical selection.
 7.35 p.m.—Cooking talk by "Regula."
 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 Rison E. Z.
 Band Conductor, Mr. A. Byrne.
 9.40 p.m.—British Official Wireless news.
 9.50 p.m.—Mercury special Interstate news service.
 Tasmanian District Weather reports.
 9 p.m.—Weather reports from Australian Capital cities.
 Station announcements.
 Tuesday's programme.
 Close down.

Tuesday, May 8

2FC, SYDNEY.

EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and announcements.
 7.5 a.m.—Studio music.

7.20 a.m.—Country Session: Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.

7.25 a.m.—Investment markets, mining share markets, metal quotations.

7.35 a.m.—Wool sales, breadstuffs markets, Interstate markets, produce markets.

7.45 a.m.—"Sydney Morning Herald" summary.

7.50 a.m.—Studio music.

8 a.m.—"Big Ben." Close down.

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.—Last minute Racing information by the 2FC Racing Commissioner.
 10.45 a.m.—Studio music.
 11 a.m.—"Big Ben." Studio music.
 11.5 a.m.—A.P.A. and Reuter's Cable Services.
 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.—Richard Parry, basso.
 1.34 p.m.—Studio music.
 1.55 p.m.—Richard Parry, basso.
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.
 3.5 p.m.—From the Congregational Church, Pitt Street, Sydney:
 An Organ Recital by Lillian Frost.
 3.20 p.m.—From the Studio:
 Doris Robinson, soprano:
 "Love's Whisper" (Willeby).
 3.25 p.m.—From the Congregational Church, Pitt Street, Sydney:
 Organ Solos by Lillian Frost.
 3.40 p.m.—From the Studio:
 Annie Sedger, mezzo.
 3.45 p.m.—From the Congregational Church, Pitt Street, Sydney:
 Continuation of the Organ Recital by Lillian Frost.
 4 p.m.—From the Studio:
 Forrest Pearson, Irish tenor:
 "Mother Machree" (Chauncery Olcott).
 4.5 p.m.—From the Congregational Church, Pitt Street, Sydney:
 Conclusion of the Organ Recital by Lillian Frost.
 4.20 p.m.—From the Studio:
 Doris Robinson, soprano:
 "Chanson Indoue" (Korsakow).
 4.25 p.m.—Forrest Pearson, Irish tenor:
 "Rosebud" (Fred Drummond).
 4.30 p.m.—Annie Sedger, mezzo.
 4.35 p.m.—Studio music.
 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.—Chimes of 2FC.
 Children's Session, arranged by the "Hello Man."
 6.25 p.m.—Children's music.
 6.30 p.m.—Late sporting news.
 6.35 p.m.—Dalgety's market reports (wool, wheat and stock).
 6.43 p.m.—Fruit and vegetable markets.
 6.45 p.m.—Stock Exchange information.
 6.48 p.m.—Weather and shipping intelligence.

6.50 p.m.—Studio talk.

7 p.m.—Dinner music.

7.30 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.43 p.m.—Programme announcements.
 7.45 p.m.—From the Sydney Town Hall. On the occasion of the Anniversary of the Central Methodist Mission.
 Chairman: Sir Arthur Cocks.
 Address by Hon. T. R. Bavin, M.L.A.
 Choral numbers by the Massed Choirs.
 8.15 p.m.—From the Studio: Rosina Madell, soprano.
 8.25 p.m.—The 2FC Studio Orchestra conducted by Horace Keats.
 (a) Overture, "Light Cavalry" (Suppe).
 (b) "On the Moonlit Terrace" (Cazabon).
 8.38 p.m.—David Craven, baritone (Australian songs):
 (a) "Song of Triumph" (Anderson).
 (b) "Pleading" (Anderson).
 (With orchestral accompaniment.)
 8.46 p.m.—2FC Studio Orchestra:
 Suite, "Cobweb Castle" (Lehmann).
 9 p.m.—"Big Ben." Late weather forecast.
 Rosina Madell, soprano.
 9.8 p.m.—The 2FC Studio Orchestra:
 Selection, "The Emerald Isle" (German and Sullivan).
 9.23 p.m.—David Craven, baritone (Australian songs):
 (a) "You lovely thing" (Anderson).
 (b) "This was a Man" (Anderson).
 9.30 p.m.—A Recital of Irish Traditional Music by C. Villiers Stanford, Alice A. Needham, Charles Wood and Herbert Hughes, rendered by the following artists:—
 2FC String Quartette under the leadership of Horace Keats.
 Soloist: Peter Gawthorne, baritone.
 Orator: Rev. Father McNally.
 Overture: The 2FC String Quartette.
 Introduction: Rev. Father McNally.
 Baritone Solo: "Foggy Dew." Peter Gawthorne.
 Oration: Rev. Father McNally.
 Baritone Solo: "Queen of Connemara." Peter Gawthorne.
 Oration: Rev. Father McNally.
 Baritone Solo: "Hey, Ho, the Morning Dew." Peter Gawthorne.
 Oration: Rev. Father McNally.
 Baritone Solo: "The Faneild Grove." Peter Gawthorne.
 Irish Airs for String Quartette.
 10.20 p.m.—The 2FC Studio Orchestra:
 (a) "Waltz of the Hours and Festival Dance" (Delibes).
 (b) "Ballet Piquant" (Parker).
 10.35 p.m.—Late weather forecast.
 10.36 p.m.—From the Ambassadors:
 The Ambassadors' Dance Orchestra. Conductor, Al Hammet.
 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.

TUESDAY, 8th MAY, 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.
 Women's Session.
 Talk on "Toilet Hints" by Mamselle Vitkowska.
 12 noon.—G.P.O. Clock and chimes.
 Special Ocean forecast and weather report.
 12.3 p.m.—Musical programme from the studio.
 12.10 p.m.—Information, Mails, Shipping, and port directory.
 12.13 p.m.—Boats in call by wireless.

12.15 p.m.—Fruit Market report.
 12.17 p.m.—Vegetable Market report.
 12.19 p.m.—London Metal Market report.
 12.21 p.m.—Dairy Farm Produce Market report.
 12.24 p.m.—Forage Market report.
 12.26 p.m.—Fish Market report.
 12.28 p.m.—Rabbit Market report.
 12.30 p.m.—H.M.V. Gramophone Recital.
 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.

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.

Direction, Miss de Courcey Bremer.

3.30 p.m.—G.P.O. Clock and chimes.

News from "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.—Producers Distributing Society's Poultry report.

4.59 p.m.—Racing Resume.

5 p.m.—G.P.O. Clock and chimes.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.

Children's Session.

6.30 p.m.—Dinner Music.

SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and chimes.

Racing Resume.

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. report.

7.15 p.m.—News from the "Sun."

7.30 p.m.—Talk on "First Aid" by a member of the St. John Ambulance Association.

8 p.m.—G.P.O. Clock and chimes.

Broadcasters Topical Chorus.

8.3 p.m.—Mr. Norman Wright, tenor.

8.10 p.m.—Mr. Haagen Holenbergh, pianist.

8.20 p.m.—Miss Nellie Ravens, contralto.

8.27 p.m.—Broadcasters Instrumental Trio.

8.34 p.m.—Mr. Norman Wright.

8.41 p.m.—Mr. Haagen Holenbergh.

8.51 p.m.—Miss Nellie Ravens.

8.58 p.m.—Broadcasters Instrumental Trio.

9.5 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist.

9.6 p.m.—Tooth's Brewery Band.

Conductor, Mr. H. S. Thomas.

9.26 p.m.—The Sephano Trio.

9.46 p.m.—Tooth's Brewery Band.

10.46 p.m.—Tooth's Brewery thoranidluttaolrar

10.6 p.m.—Resume of following day's programme announcements.

10.15 p.m.—The Wentworth Cafe Orchestra under the direction of Mr. J. Elkins. During intervals between dances "Sun" news will be broadcast.

11.30 p.m.—G.P.O. Clock and chimes.

2 UW, SYDNEY

TUESDAY, 8th MAY, 1928.

EVENING SESSION.

7 p.m.—Studio items.

7.10 p.m.—Where to Go Session.

7.15 p.m.—Dinner Music.

7.45 p.m.—Vocal and instrumental items.

8 p.m.—News, mails and shipping.

8.20 p.m.—Studio items.

8.25 p.m.—Gems of the Opera Series, arranged and presented by Mr. George Manuel:

(a) Biographical notes on life of the composer.

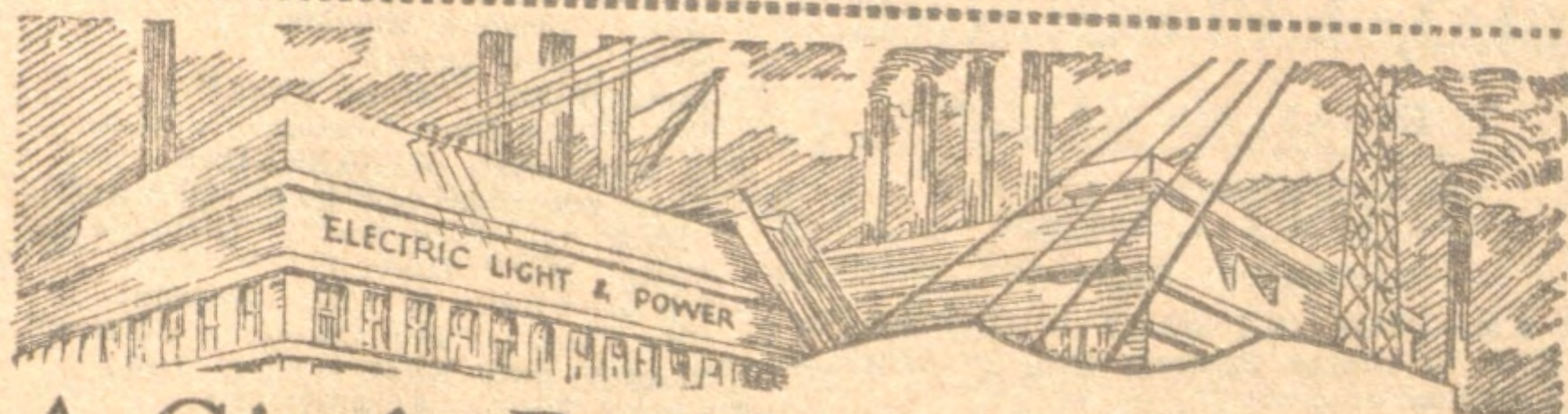
(b) Story of the Opera.

(c) Vocal and instrumental items taken from each act of the Opera.

(d) Musical notes.

9.45 p.m.—Dance music.

10 p.m.—Announcements and close down.



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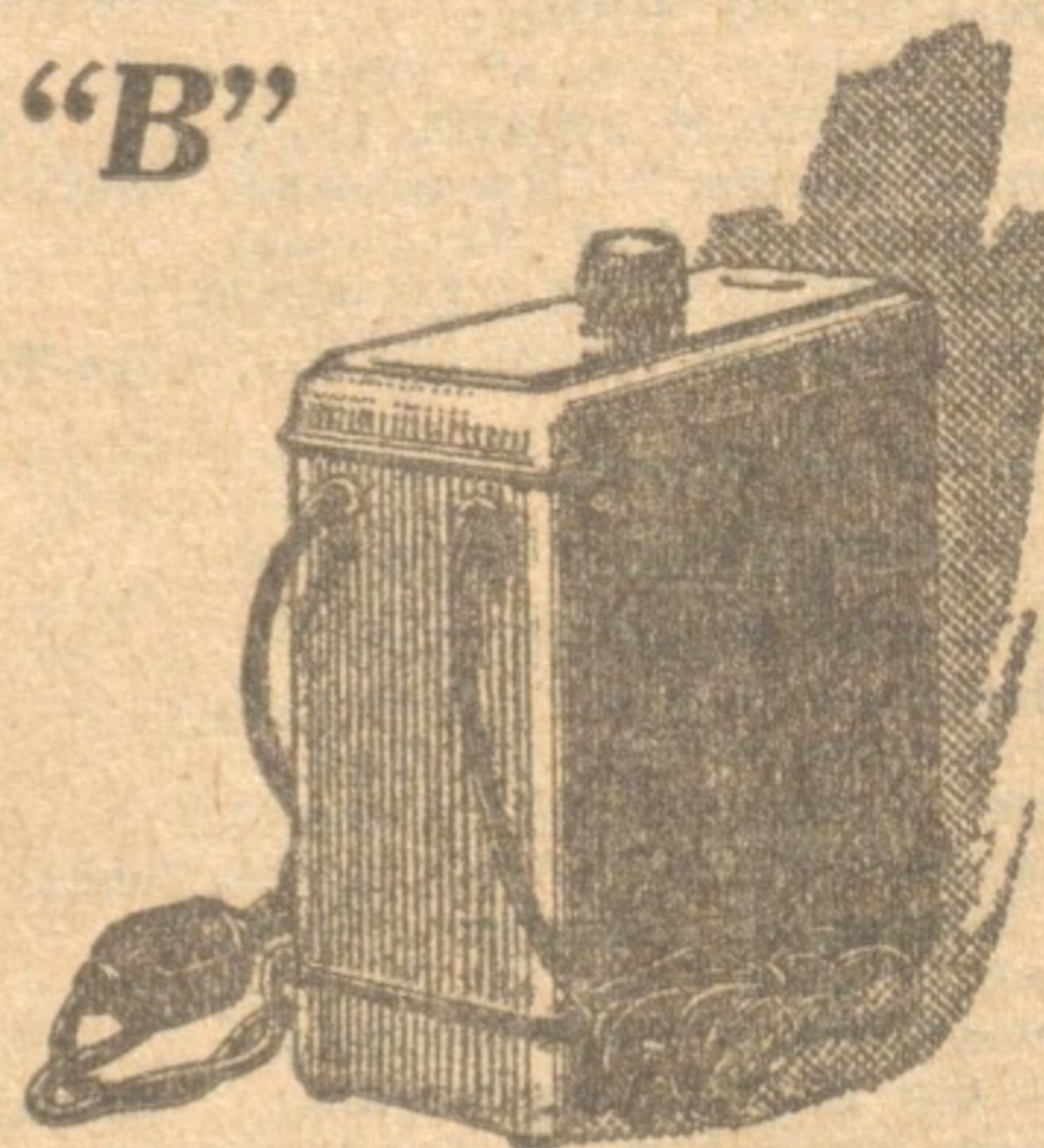
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3LO, MELBOURNE.

TUESDAY, 8th MAY, 1928.

EARLY MORNING SESSION.

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.

WAFFLES.

$\frac{1}{2}$ lb. flour.
2 teaspoons baking powder.
 $\frac{3}{4}$ pint milk.
 $\frac{1}{4}$ teaspoon salt.
2 eggs.

1 tablespoon butter.

Sift flour, baking powder and salt. Separate yolks and whites. Beat yolks, add milk, and stir into flour; add the melted butter. Beat whites to stiff froth and fold them in lightly. Prepare waffle, pour a small quantity of batter in. When golden brown, reverse. Serve with maple syrup and butter.

"Everyone must have felt that a cheerful friend is like a sunny day, which sheds its brightness on all around; and most of us can, as we choose make of this world a palace or a prison."

—John Lubbock.

11.5 a.m.—MISS E. NOBLE—Gas Cooking—will give a talk on the important subject of "Steamed Puddings."

11.20 a.m.—Musical interlude.

11.25 a.m.—MRS. DOROTHY SILK: "Homecrafts."

11.40 a.m.—Musical interlude.

11.45 a.m.—Under the auspices of the Free Kindergarten Union, MISS R. G. HARRIS will speak on "Character Training Through the Free Kindergartens."

MID-DAY 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.

12.20 p.m.—THE GYPSY PLAYERS: "Summer Days Suite, Part 1" (Eric Coates).

12.30 p.m.—GORDON JAMES, baritone: "The Indifferent Mariner" (Frederick Field). "Just Love Me" (H. Lyall Phillips).

12.37 p.m.—Stock Exchange information.

12.40 p.m.—DOROTHY ROXBURGH, viola: "Chattering" (Gabriel Marie).

12.47 p.m.—THE GYPSY PLAYERS: "Summer Days Suite, Part 2" (Eric Coates).

1 p.m.—Melbourne Observatory Time Signal.

1.1 p.m.—ELSIE DAVIES, soprano:

"Ave Maria" (Cooper).

"The Owl" (John Barnes Wells).

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

FOUNDATIONS OF MUSIC.

1.15 p.m.—HENRI PENN:

"The Moonlight Sonata" (Beethoven).

1.30 p.m.—GORDON JAMES, baritone:

"I am a Roamer" (Mendelssohn).

"Harlequin" (Wilfred Sanderson).

1.37 p.m.—THE GYPSY PLAYERS:

"Petite Suite de Concert" (Coleridge-Taylor).

1.45 p.m.—Close down.

AFTERNOON SESSION.

2.15 p.m.—THE VAGABONDS:

"A Bungalow and ou" (O'Hagan).

"Kiss and Make Up" (Miller).

"Where is My Meyer" (Gilbert).

2.25 p.m.—OLIVER PEACOCK, baritone:

"The Garden of yesterday" (Kahn).

"Bianca."

2.32 p.m.—THE VAGABONDS:

"What are you waiting for Mary" (Donaldson).

"Cross Your Heart" (Pencler).

"Indian Cradle Song" (Kahn).

2.41 p.m.—FRANK AND FRANCIS LUIZ:

Duet, "Dreamy Hawaii."

Song, "Kuu Home."

Steel Guitar, "Hula Blues."

Duet, "My Blue Heaven."

2.53 p.m.—THE VAGABONDS:

"I've got somebody now" (Williams).

"Bless her little heart" (Deunicker).

"Slept Man" (Davis).

3.2 p.m.—FRANCIS LEA, soprano:

"My Hero"—"The Chocolate Soldier."

"Love's own Kiss"—"High Jinks."

3.9 p.m.—THE VAGABONDS:

"Just a Memory" (Davis).

"Persian Rosebud" (Handerson).

"Ramona" (Wayne).

3.18 p.m.—RUPERT HAZELL AND ELSIE DAY:

"Harmonylarity."

3.33 p.m.—THE VAGABONDS:

"I'm Lonely Withou You" (Warren).

"My Blue Heaven" (Donaldson).

"Just Around the Corner" (Hayes).

3.42 p.m.—OLIVER PEACOCK, baritone:

"Praise" (Hady Wood).

"Yonder" (Oliver).

3.49 p.m.—THE VAGABONDS:

"Sweet Yvette" (Davis).

"C'est Vous" (Silver).

"So Long" (Miller).

FOR THE MORE SERIOUS MINDED.

3.58 p.m.—THE GYPSY PLAYERS:

Overture, "Magic Flute" (Mozart).

4.8 p.m.—ELSIE DAVIES, soprano:

"Addio—La Boheme" (Puccini).

"Mi chiamano—Mimi" (Puccini).

4.15 p.m.—BESSIE GAUNSON, violin:

"Madrigale" (Simoneti).

4.22 p.m.—THE GYPSY PLAYERS TRIO:

"O Star of Eve" (Wagner).

"Barcarolle" (Tchaikowsky).

4.32 p.m.—ELSIE DAVIES, soprano:

"Melodie" (Tosti).

"Serenata" (Toselli).

4.39 p.m.—THE GYPSY PLAYERS QUARTETTE:

"Minuet" (Mozart).

"Andantino Crazioso" (Hady).

4.45 p.m.—Special Weather report from Adelaide for the Mildura district.

JAZZ AND JOLLITY.

4.46 p.m.—THE VAGABONDS:

"A Shady Tree" (Donaldson).

Selected.

4.52 p.m.—FRANCES LEA, soprano:

"To let—a Little Lonely Heart" (Needham).

"I Wonder if Love is a Dream" (Forster).

NEWS SESSION.

4.59 p.m.—"Herald" news service.

Stock Exchange information.

5.15 p.m.—Close down.

EVENING SESSION.

6 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."

6.20 p.m.—And now we have a real treat in store for you: MRS. FRAMES' Poems.

6.25 p.m.—Musical interlude.

6.30 p.m.—CAPT. DONALD MACLEAN, The Spanish Conquests:

"How the Dons discovered the Treasures of the World."

6.45 p.m.—Musical interlude.

6.50 p.m.—"BILLY BUNNY" has a Story to tell you.

NEWS AND MARKET REPORTS.

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

7.10 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, Onions and Potatoes. Market reports of Fruit by the Victorian Fruitgrowers' 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 Extension Board, G. L. WOOD, Senior Lecturer in Economics to the University of Melbourne, will speak on: "The World's Wheat."

7.45 p.m.—COLONEL SMITH: "Horses."

OUT OF THE PAST.

8 p.m.—To-day, 27 years ago, The First Commonwealth Parliament was opened.

8.1 p.m.—Under the Auspices of the Royal Victorian Institute of Architects, G. B. LEITH, A.R.V.I.A.:

"Advantages of the Two-Storey House."

PROMINENT PERSONALITIES.

8.15 p.m.—On the 8th May, 1876, Trucaninni, the last of the Tasmanian aborigines died. Her skeleton can be seen in the museum in Hobart.

8.16 p.m.—Birthday Greetings and Programme announcements.

8.19 p.m.—SPECIAL ENGAGEMENT OF THE FAMOUS ENGLISH HUMPHREY BISHOP MUSICAL COMEDY CO. Overture, featuring FRANK EGAN, violinist, TOM HARDIE, cornetist, CHARLES STEWART, Drummer, and BETTY BURT, pianist.

8.21 p.m.—HUMPHREY BISHOP introduces his company.

8.23 p.m.—RAGTIME ENSEMBLE, featuring ALAN KITSON, ELAINE MAYE and THE HUMPHREY BISHOP COMPANY.

8.25 p.m.—JOHN MONTFORT and WALTER KINGSLEY will sing "The Battle Eve."

8.27 p.m.—GEORGE (Scratcher) ROSS, in a Comedy interlude.

8.30 p.m.—CECILIE AUDIBERT and the Gentlemen in "Yvette."

8.33 p.m.—ARTHUR HEMSLEY and GWEN WESTON in light Comedy.

8.40 p.m.—MAURICE JAFFEY will sing: "River Shannon."

8.43 p.m.—ALAN KITSON and CECILIE AUDIBERT, featuring:

"Me and Myself."

"Polly."

"You're Going to do this."

8.50 p.m.—ARTHUR HEMSLEY, the Lancashire Comedian.

8.59 p.m.—THELMA TROTT and JOHN MONTFORT:

"Someday."

9.3 p.m.—CHARLES ALBERT and ELAINE MAYE in light Comedy.

9.8 p.m.—WALTER KINGSLEY:

"The Windmill" (Nelson).

"Hats Off to the Stoker" (Arundel).

9.14 p.m.—GEORGE (Scratcher) ROSS in "New Scratcherisms."

9.24 p.m.—GRAND OPERATIC EXCERPT: Duet, WALTER KINGSLEY and THELMA TROTT.

Aria, JOHN MONTFORT.

Chorus, THE HUMPHREY BISHOP COMPANY.

INTERVAL.

9.30 p.m.—A Short Story, E. F. RITTER. HUMPHREY BISHOP PROGRAMME

CONTINUED.

9.45 p.m.—ENTRACTE, featuring CHARLES STEWART on his Xylophone.

9.48 p.m.—THE GENTLEMEN OF THE HUMPHREY BISHOP COMPANY will entertain.

9.52 p.m.—CHARLES ALBERT in "Light Comedy."

9.58 p.m.—WALTER KINGSLEY and THELMA TROTT:

"The Keys of Heaven."

10.1 p.m.—ARTHUR HEMSLEY and CECILIE AUDIBERT:

"The Porter and the Maid."

10.10 p.m.—JOHN MONTFORT:

"Because I Love You."

10.13 p.m.—GEORGE (Scratcher) ROSS and MAURICE JAFFEY in

"A Comedy Sketch."

10.25 p.m.—THE ORIGINAL HUMPHREY BISHOP QUINTETTE: John Montfort,

Charles Albert, Alan Kitson, Walter Kingsley and Humphrey Bishop:

"California."

"Oh, Miss Hannah."

10.30 p.m.—GRAND FINALE, THE HUMPHREY BISHOP COMPANY:

"Hi, diddle, diddle."

NEWS SESSION.

10.33 p.m.—"Argus" news service. British Official Wireless news from Rugby. Meteorological information. Announcements. Shipping information. Sporting notes by "Olympus."

ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY IS:

"One think before an accident is worth a million thinks afterwards."

SERIOUS AND LESS SERIOUS.

10.42 p.m.—THE STATION ORCHESTRA:

"Angelus 2nd Movement"—Andante from Symphony No. 3 (Hadley).

WILL PAGE. Xylophone, accompanied by STATION ORCHESTRA:

"William Tell" (Rossini).

10.56 p.m.—RUPERT HAZELL AND ELSIE DAY will give

"A skit on the preceding programme."

11.6 p.m.—OUR GREAT THOUGHT:

"Despair makes a despicable figure, and descends from a mean original. 'Tis the offering of Fear, of Laziness, and Impatience, it argues a defect of spirit and resolution, and often times of honesty, too. I would not despair, unless I saw my misfortune recorded in the Book of Fate, and signed and sealed by necessity."—Collier.

DANCE MUSIC.

11.7 p.m.—THE VAGABONDS.

11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

TUESDAY, 8th MAY, 1928.

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.

During the afternoon a description of the departure of the mail liner for London, half an hour before leaving Prince's Pier, by Mr. J. D. Porter, of the "Graphic."

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:

"Suite from India" (Francis Popy).

2.45 p.m.—Miss Julia Russell, soprano:

"Star Vicino" (Salvator Rosa).

"I love the moon" (Paul Rubens).

2.52 p.m.—Melbourne Concert Orchestra:

"Petite Suite Moderne" (Fredk. Rosse).

"Edera" (Carosio).

3.8 p.m.—Mr. Ronald Brearley, 'cello:

"Lullaby" (Bridges).

3.12 p.m.—Miss Julia Russell, soprano:

"Charmont Oiseau" (David).

3.22 p.m.—Ayarz Dansonians.

3.30 p.m.—Interval announcements.

3.35 p.m.—Mademoiselle Jeunesse." Interval talk on Timely Topics of Interest to our lady listeners.

3.45 p.m.—Melbourne Concert Orchestra:

Selection, "Puppets" (Novello).

"Extase Melodieuse" (Littau).

4.3 p.m.—Mr. Bernard Thomas, tenor:

"Invictus" (Huhn).

"Scotch Mary" (Richardson).

4.11 p.m.—Melbourne Concert Orchestra:

"Tales by Moonlight" (Vincent Thomas).

"Cavatine" (Raff).

4.26 p.m.—Mr. Bernard Thomas, tenor:

"I hear a thrush at eve" (Cadman).

"Rose of my heart" (Lohr).

4.34 p.m.—Mr. William Whittingham, violin:

"Moment Musical" (Schubert-Kreisler.)

4.38 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.

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CHILDREN'S SESSION.

6.30 p.m.—Uncle Mac's entertainment.

EVENING SESSION.

ORCHESTRAL CONCERT.

7.30 p.m.—Dr. Floyd, organist and choir, master of St. Paul's Cathedral, Melbourne, will talk on "The Art of Listening."
 7.50 p.m.—A broadminded and up-to-date talk by "Friar Tuck," "Ideals."
 7.55 p.m.—Sport session. "Harlequin" presents his budget of up-to-date news and comments on sport of the day.
 7.59 p.m.—Macnamara's stock report.
 8 p.m.—G.P.O. clock says Eight.
 8.1 p.m.—Melbourne Concert Orchestra: Overture, "William Tell" (Rossini).
 8.12 p.m.—Miss Alice Mallon, soprano: "Serenade" (Schubert).
 "The cloths of Heaven" (Dunhill).
 8.20 p.m.—Ayaz Dansonians.
 8.36 p.m.—Miss Alice Mallon, soprano: "Carissima" (Penn).
 "The Harp that Once" (Moore).
 8.44 p.m.—Melbourne Concert Orchestra: "The Savoy American Medley" (Somers).
 8.50 p.m.—Interval announcements.
 9.2 p.m.—Melbourne Concert Orchestra: Suite, "Four Selected Pieces" (Friend).
 "Menuett" (Mozart).
 9.18 p.m.—Mr. James Scott, bass baritone: "Rip Van Winkle" (Carroll).
 "Passing By" (Purcell).
 9.26 p.m.—Miss Ethel Brearley, piano: "Fur Elise" (Beethoven).
 9.30 p.m.—"Harlequin." Sport results.
 9.38 p.m.—Ayaz Dansonians.
 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.—Melbourne Concert Orchestra.
 10.20 p.m.—Mr. James Scott, bass baritone: "The Swan" (Grieg).
 "Long, long ago in Alcalá" (Messenger).
 10.28 p.m.—Mr. C. Richard Chugg, flute: "Orientale Serenade" (Kohler).
 10.32 p.m.—Ayaz 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 taken from the poem, "Ex Fumo Dare Lucem," by Adam Lindsay Gordon.
 11 p.m.—G.P.O. clock says Eleven.
 God Save the King.

4QG, BRISBANE

TUESDAY, 8th MAY, 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 signal.
 7.45 p.m.—Lecturette: "A Talk on Dairying," Mr. C. F. McGrath (Chief Dairy Supervisor).

NIGHT SESSION.

8 p.m.—National Anthem.
 8.1 p.m.—From the School of Arts: Topical Chorus.
 A short choral recital by the Brisbane Apollo Club, including:—(a) "Trim Ship" (Mentor Cross), (b) "Jennie" (Berwald), (c) "Trelawney" (Thayer).
 8.23 p.m.—Octette: "Don't Look at Me, I Pray" (Martin).
 The Studio Orpheans.
 8.26 p.m.—Tenor solo: "Mountain Lovers" (Squire).
 Mr. H. Gilroy.
 8.31 p.m.—Baritone solo: "Border Ballad" (Cowen).
 Mr. F. Crane.
 8.35 p.m.—Humorous Monologue: "I Doubt It" (Mansfield).
 Mr. T. L. Muller.
 8.38 p.m.—Soprano solos: (a) "Dreamtown." (b) "Just Because its You" (Picard).
 Miss Thelma Champion.
 8.44 p.m.—Octette: "Down by de River" (Scott Gatty).
 The Studio Orpheans.
 8.50 p.m.—Tenor solo: "La Donne Mobile" (Verdi).
 Mr. E. W. Muller.
 8.53 p.m.—Bass Solo: "Queen of the Earth" (Ciro Pinsuti).
 Mr. J. P. Cornwell.
 9 p.m.—Metropolitan weather forecast.
 9.1 p.m.—Duet: "Your Eyes have Told Me So."
 Messrs. G. Williamson and E. Harper.
 9.6 p.m.—Piano solos: (a) "Reindrop Prelude" (Chopin). (b) "Waltzing Doll" (Poldini).
 Mr. R. Tait.
 9.13 p.m.—Octette: "O Sanctissima" (Novello).
 The Studio Orpheans.
 9.16 p.m.—A Thought for To-night: "Bless the Wicked"
 Will H. Lister.
 9.20 p.m.—Tenor solo: "Only a Step from Ireland to Heaven" (Ashton).
 Mr. G. Williamson.
 9.24 p.m.—Humorous Monologue: "The Serial Story" (Les Harris).
 Mr. T. L. Muller.
 9.30 p.m.—Baritone solo: "The King's Minstrel" (Pinsuti).
 Mr. E. Harper.
 9.35 p.m.—Duet: "My Task" (Ashgrove).
 Messrs. H. Gilroy and F. Crane.
 9.36 p.m.—Soprano solo: "O Flower Divine" (Haydn Wood).
 Miss Thelma Champion.
 9.43 p.m.—Tenor solo: "Oft in the Stilly Night" (Moore).
 Mr. E. W. Muller.
 9.47 p.m.—Octette: "Rose of My Heart" (Lohr).
 The Studio Orpheans.
 9.51 p.m.—Trio: "I Naviganti."
 Miss Thelma Champion, Messrs. E. Harper and G. Williamson.
 9.57 p.m.—Bass solo: "The Young Royalist" (Adam).
 Mr. J. P. Cornwell.
 10.1 p.m.—Final Chorus: The Studio Orpheans.
 10.3 p.m.—"The Daily Mail" news.
 10.7 p.m.—Weather news.

5CL, ADELAIDE

TUESDAY, 8th MAY, 1928.

MIDDAY SESSION.

12 noon to 2 p.m.

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.: "The power of Silence."
 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.
 6.30 p.m.—Dinner Music on the Studio "Recreator."
 7 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.
 7.10 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
 7.15 p.m.—Extracts from "News Bulletin."
 7.30 p.m.—Gardening talk by Lasscocks Nurseries, Lockleys.
 7.42 p.m.—"Windbag's" Sporting Service.
 7.48 p.m.—Station Announcements.
 8 p.m.—G.P.O. Chimes.
 8.1 p.m.—A special programme by the 5CL Twinkler Boys Club.
 9.1 p.m.—Meteorological information, weather forecast.
 9.2 p.m.—Dalgety's wheat report.
 9.3 p.m.—International News.
 9.9 p.m.—5CL Twinkler Boys Club programme continued.
 10.1 p.m.—"Advertiser" news Service.
 10.8 p.m.—Wireless shipping contacts.
 10.10 p.m.—5CL Twinkler Boys Club programme continued.
 10.55 p.m.—Station announcements, meteorological information, tomorrow's programme.
 11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH.

TUESDAY, 8th MAY, 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.
 Selection: "H.M.S. Pinafore" (Sullivan).
 "Tit Bits" (Witteborn).
 1.30 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
 3.35 p.m.—Pianoforte selections by Miss Evelyn Willis, A.R.C.M.
 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, Percy, and Duffy.
 7.20 p.m.—Stocks, Markets, news.
 7.45 p.m.—Talk by Dr. J. S. Battye, B.A., L.L.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.—Concert Night.
 Musical programme from the Studio, including vocal and instrumental 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 programmes given on 1250 metres, commencing at 6.45 p.m.

7ZL, HOBART

TUESDAY, 8th MAY, 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 selections.

8.5 p.m.—Hobart Stock Exchange quotations.
Weather information.
Items of interest. Announcements.
3.15 p.m.—Selections by 7ZL Studio Trio.
3.15 p.m.—March, "Gridiron Club" (Hall).
"Valse des Allouettes" (Drigo).
Violin Solo. Selected. Mr. E. J. McCann.
Selection, "Grand Duchess" (Mozart).
"Moonbeams" (Fletcher).
Pianoforte Solo. Selected. Mr. A. Roberts.
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's half hour.

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 Prince of Wales Theatre, Hobart: Selections by Prince of Wales Orchestra. Conductor, Mr. E. J. McCann.
9.40 p.m.—British Official Wireless news.
9.50 p.m.—Mercury special Interstate news service.
Ships within wireless range.
Tasmanian District Weather reports.
9 p.m. weather reports.
Weather reports from Australian Capital Cities.
Station announcements.
Wednesday's programme.
10 p.m.—Close down.

Wednesday, May 9

2FC, SYDNEY

EARLY MORNING SESSION.

7 a.m.—"Big Ben" and announcements.
7.5 a.m.—Studio music.
7.20 a.m.—Country Session: Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
7.25 a.m.—Investment market, mining share market, metal quotations.
7.35 a.m.—Wool sales, breadstuffs markets, Interstate markets.
7.45 a.m.—"Sydney Morning Herald" summary.
7.50 a.m.—Studio music.
8 a.m.—"Big Ben." Close down.

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 reading.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben." Studio music.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
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.—Lorraine Jarman, soprano.

1.34 p.m.—Studio music.
1.55 p.m.—Lorraine Jarman, soprano.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.5 p.m.—Mary Judd, violinist:
"Cavatina" (Raff).
3.10 p.m.—Hilda Nelson, mezzo.
3.14 p.m.—George McNeilly, tenor:
"Where e'er you walk" (Handel).
3.18 p.m.—Popular Records.
3.30 p.m.—A reading.
3.45 p.m.—Persia Rutter, soprano.
3.50 p.m.—Mary Judd, violinist:
"Gavotte" (Popper).
3.55 p.m.—Studio music.
4.5 p.m.—Hilda Nelson, mezzo.
4.10 p.m.—Mary Judd, violinist:
"Menuetto" (Milandre).
4.15 p.m.—Dorothy Shields, soprano.
4.20 p.m.—Popular records.
4.25 p.m.—George McNeilly, tenor:
"Afton Water" (Burns).
4.30 p.m.—Persia Rutter, soprano.
4.35 p.m.—Studio music.
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Dorothy Shields, 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.
Children's Session, arranged by the "Hellb Man."
6.15 p.m.—Uncle Rus and "Jerry" will entertain.
6.30 p.m.—Late sporting news.
6.35 p.m.—Dalgety's market reports (wool, wheat and stock).
6.43 p.m.—Fruit and vegetable markets.
6.45 p.m.—Stock Exchange information.
6.48 p.m.—Weather and shipping intelligence.
6.50 p.m.—Studio talk.
7 p.m.—Dinner music.
7.30 p.m.—Late "Evening News" news service.

NIGHT SESSION.

7.43 p.m.—Programme announcements.
7.45 p.m.—George Mackaness, on behalf of the Workers' Educational Association, will give a talk on Literature.
8.0 p.m.—"Big Ben." From the Capitol Theatre, Sydney: The Capitol Theatre Orchestra of 30 members, under the baton of Ted Henkel.
Items on the "Wurlitzer" Organ played by Fred Scholl.
Stage Presentation arranged by Ted Henkel, with his Band of 20 players, and Vocal Quartette.
8.45 p.m.—From the Studio: A. G. Ellis, Baritone:
(a) "Remembrance" (Benjamin Godard).
(b) "Could My Songs Their Way be Winging" (Hahn).
8.53 p.m.—Gladstone Bell, Cello Solos.
9.0 p.m.—"Big Ben." Late weather forecast.
9.1 p.m.—Peggy Dunbar, Contralto.
9.9 p.m.—Nelle Larkin, Violinist.
9.17 p.m.—John Dellore, Tenor:
(a) "Strange Harmony of Contrasts" (Puccini).
(b) "Song of India" (Rimsky-Korsakov).
9.25 p.m.—From the Capitol Theatre, Sydney: The Capitol Theatre Symphony Orchestra, conducted by Ted Henkel.
9.40 p.m.—From the Studio, A. G. Ellis, Baritone:
(a) "The Bells of Lee" (Stephen Adams).
(b) "Old Faggots" (Hermann Lohr).
9.48 p.m.—Nelle Larkin, Violinist.
9.55 p.m.—Brunton Gibb, Entertainer:
(a) "Lichtenberg" (Kipling).
(b) "Education Made Agreeable" (Leacock).
10.3 p.m.—Peggy Dunbar, Contralto.
10.10 p.m.—Gladstone Bell, Cello Solos.
10.18 p.m.—John Dellore, Tenor:
(a) "The Cloths of Heaven" (Dunhill).
(b) "Mignon" (D'Hardelot).
10.25 p.m.—Brunton Gibb, Entertainer:
"Bertram Addresses the Tenants" (Rutherford).
10.32 p.m.—Late weather forecast.
10.33 p.m.—Len Maurice, Popular Baritone.
DANCE SESSION.
10.57 p.m.—To-morrow's programme and late news.
11.0 p.m.—"Big Ben." National Anthem.

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2BL, SYDNEY.

WEDNESDAY, 9th MAY, 1928.

EARLY MORNING SESSION.

8 a.m. to 9 a.m.

MORNING SESSION.

- 11 a.m.—G.P.O. Clock and chimes.
Talk on "Golf," by Miss Gwen. Varley,
Broadcasters' Women's Sports Authority.
Welfare Talk, by Dr. Harvey Sutton.

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.
12.10 p.m.—Information, mails, shipping, and
port directory.
12.13 p.m.—Boats in call by wireless.
12.15 p.m.—Fruit Market report.
12.17 p.m.—Vegetable Market report.
12.19 p.m.—London Metal Market report.
12.21 p.m.—Dairy and Farm Produce Market
report.
12.24 p.m.—Forage Market report.
12.28 p.m.—Rabbit Market report.
12.30 p.m.—H.M.V. Gramophone Recital.
1.30 p.m.—G.P.O. Clock and chimes.
Talk to children, and special entertainment
for children in hospitals.
2 p.m.—G.P.O. Clock and Chimes.
Musical programme from Studio.
2.20 p.m.—News from the "Sun."
2.30 p.m.—Musical programme from Studio.
2.40 p.m.—News from the "Sun."
2.50 p.m.—Musical programme from Studio.
3 p.m.—G.P.O. Clock and chimes.
News from the "Sun."
3.10 p.m.—Pianoforte Recital from the Studio.
3.20 p.m.—News from the "Sun."
3.30 p.m.—Racing resume.
3.35 p.m.—Musical programme from the
Studio.
3.40 p.m.—Dungowan Dance Band, broadcast
from Dungowan Cabaret.
4 p.m.—G.P.O. Clock and chimes.
Exercises on health, by Mr. Waler E. With-
row, Director of the Withrow Institute of
Physical Culture.
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.
6.30 p.m.—Gulbransen dinner music.

SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. Clock and chimes.
Racing resume.
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.
7.15 p.m.—Country news from the "Sun."
7.30 p.m.—Talk on "Astrology" by Miss J.
Charlton-Smith.

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and chimes.
8.1 p.m.—Mr. Googs Hanlon, novelty pianist.
8.8 p.m.—Miss Iverne Kyle, soprano.
8.15 p.m.—Speeches at the N.S.W. Baseball
Association's annual dinner, by His Ex-
cellency Sir Dudley de Chair, and the Consuls
for America and Japan.
8.45 p.m.—From the Studio: Mr. Maurice
Price, entertainer.
8.52 p.m.—Mr. Roger Jones, baritone.
8.59 p.m.—Weather report and forecast, by
courtesy of Mr. C. J. Mares, Government
Meteorologist.

- 9 p.m.—G.P.O. Clock and chimes.
9.1 p.m.—Sketch by Harry Thomas and part-
ners.
9.11 p.m.—The Hawaiian Harmony Girls
(Ailsa Lewis and Essie).
9.18 p.m.—Mr. Maurice Price.
9.25 p.m.—Miss Iveria Kyle.
9.32 p.m.—Mr. Googs Hanlon.
9.39 p.m.—Mr. Roger Jones.
9.46 p.m.—The Hawaiian Harmony Girls.
9.53 p.m.—Resume of following day's pro-
gramme.
9.57 p.m.—Broadcasters' All-Sports Expert
will talk on general sporting.
10.15 p.m.—Romano's Restaurant Dance Or-
chestra, under the direction of Mr. Merv.
Lyons. During interval between dances,
"Sun" news will be broadcast.
11.30 p.m.—G.P.O. Clock and chimes.
National Anthem.

2 UW, SYDNEY

WEDNESDAY, 9th MAY, 1928.

- 7 p.m.—Studio items.
7.10 p.m.—Where to Go Session.
7.15 p.m.—Dinner music.
7.45 p.m.—Miss G. Tyerman, pianoforte solo:
Selected.
7.52 p.m.—Studio item.
7.55 p.m.—Miss Doris Fitzmaurice, elocutionist.
Selected.
8 p.m.—News items.
8.10 p.m.—Mr. Lovedee, banjo solo:
Selected.
8.15 p.m.—Studio item.
8.18 p.m.—Miss G. Tyerman, pianoforte solo:
Selected.
8.25 p.m.—Studio item.
8.28 p.m.—Mr. Lovedee, banjo solo:
Selected.
8.34 p.m.—Studio item.
8.37 p.m.—Miss Doris Fitzmaurice, elocutionist.
Selected.
8.42 p.m.—Studio item.
8.45 p.m.—Weather forecast.
8.48 p.m.—Mr. Lovedee, banjo solo:
Selected.
8.55 p.m.—Studio item.
9 p.m.—Dance music.
9.30 p.m.—Request numbers.
9.45 p.m.—Dance music.
10 p.m.—Close down.

3LO, MELBOURNE

WEDNESDAY, 9th MAY, 1928.

EARLY MORNING SESSION.

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.

CLOUDY AMMONIA.

- 2-oz. of pure ammonia, small piece soap,
1 pint of water, 1 teaspoonful of borax.
Put ammonia and water together (keep
away from your eyes). Add soap and
borax and cork well and shake before
using.

HELPFUL HINTS FOR HOUSEKEEPERS.

Utilising Left-overs.

- Dripping from meat should be poured in
a bowl; when cold, the gravy found beneath
the fat is good flavoring for soup or stew
made of the cold meat.
Trimmings of fat from chops, etc., should
be rendered down for dripping, or clari-
fied for pastry-making, etc., instead of
butter.
The liquid in which meat or vegetables have
been boiled should be used for stock.
Bones should be put into the stock-pot.
11.5 a.m.—HOUSEHOLD LAUNDRY PROB-
LEMS:
S. SHELDON will speak on
"The Economics of Washing and Launder-
ing."
11.20 a.m.—Musical interlude.

- 11.25 a.m.—MRS. M. CALLAWAY MAHOOD
will speak on—
"Wall Treatment" Part 1.
11.40 a.m.—Musical interlude.
11.45 a.m.—MRS. CLARENCE WEBER. The
Physical Culture Expert:
"How to Become a Physical Culture Family"
Part II.
"A physical culture basis will make for a
stronger, happier and healthier nation. Chi-
stronger, happier and healthier nation. Child-
ren should be taught early in life to treat their
bodies correctly, as a matter of habit—thus
avoiding abnormal desires and learning self-
discipline, which makes for strong personal-
ity and greatly enhances one's chance of
success in life."

MIDDAY NEWS SESSION.

- 12 noon.—Metal prices received from the
Australian Mines and Metals Association,
from the London Stock Exchange this day.
Reuter's and the Australian Press Associa-
tion cables. British official wireless news
from Rugby. "Argus" news service.
12.20 p.m.—THE GYPSY PLAYERS:
"Schubert's Songs," Part 1 (Schubert).
12.30 p.m.—ERNEST SAGE, baritone:
"The Wanderer" (Schubert).
Selected.
12.37 p.m.—Stock Exchange information.
12.40 p.m.—BERTHA JORGENSEN AND
BESSIE GAUNSON, violins:
Duet, "Serenade" (Schubert).
12.50 p.m.—ELSIE DAVIES, soprano:
Two Songs by Schubert—Selected.
12.57 p.m.—THE GYPSY PLAYERS:
"Schubert's Songs" Part II.
INTERLUDE.
1.7 p.m.—Meteorological information. Weather
forecast, Victoria, New South Wales, South
Australia, and Tasmania. Ocean forecasts.
River reports.
1.15 p.m.—ERNEST SAGE, baritone:
"Two Desert Songs by Florence Aylward."
1.22 p.m.—AGNES FORTUNE, piano:
"Impromptu A Flat" (Schubert).
"Serenade" with violin (Braga).
Obligato by Bertha Jorgensen.
"When thy blue eyes" (Lassen).
1.30 p.m.—ELSIE DAVIES, soprano:
1.37 p.m.—THE GYPSY PLAYERS:
Movement—Schubert Quartette.
1.45 p.m.—Close down.

AFTERNOON SESSION.

- 2.12 p.m.—Description of Breakwater Hurdle
Race 2 miles, GEELONG RACES by Eric
Welch.
2.20 p.m.—Description of University Athletic
Championship from the University Training
Oval, by "Olympus."
2.25 p.m.—THE STUDIO ORCHESTRA:
Overture, "Poet and Peasant" (Suppe).
2.37 p.m.—Description of Novice Handicap, 5
furlongs, GEELONG RACES, by Eric
Welch.
2.45 p.m.—FRANK AND FRANCIS LUIZ:
Duet, "Miliana-e."
Steel Guitar, "Hawaiian Love."
Song, "Me and My Shadow."
Duet, "Aloha Baby Boy."
2.57 p.m.—THE STATION ORCHESTRA:
"On the Volga" (Krein).
3.7 p.m.—Description of City Handicap, 1
miles 2 furlongs 182 yards, GEELONG
RACES, by Eric Welch.
3.15 p.m.—OLIVER PEACOCK, baritone:
"Little Blue Sun-bonnet."
"Hills of Home" (Fox).
3.22 p.m.—THE STATION ORCHESTRA:
Selection, "A Southern Maid" (Simpson).
3.32 p.m.—Description of University Athletic
Championship from the University Training
Oval by "Olympus."
3.39 p.m.—WILL PAGE, Xylophone, accom-
panied by the Station Orchestra:
Selection, "William Tell."
3.42 p.m.—Description of Flying Handicap, 5
furlongs GEELONG RACES, by Eric Welch.
3.50 p.m.—THE STATION ORCHESTRA:
"In the Soudan" (Sebek).
3.57 p.m.—RUPERT HAZELL AND ELSIE
DAY:
"Harmonylarity."
4.10 p.m.—THE STATION ORCHESTRA:
"Dance of the Clowns from the Opera."
"Snegowotchka" (Rimsky-Korsakoff).
4.17 p.m.—Description of Bellerene Welter, 7
furlongs, GEELONG RACES, by Eric Welch.
4.25 p.m.—OLIVER PEACOCK, baritone:
"The Blind Ploughman" (Coningsby-Clarke).
"Rose of the Volga" (Kahn).

- 4.32 p.m.—THE STATION ORCHESTRA:
Selection of Dorothy Forster's Songs.
4.42 p.m.—Description of Jumpers Flat Race,
1 mile 2 furlongs 192 yards, GEELONG
RACES, by Eric Welch.
4.50 p.m.—Special weather report from Ade-
laide for the Mildura district.
4.51 p.m.—Description of University Athletic
Championships from the University Train-
ing Oval by "Olympus."

NEWS SESSION.

- 5 p.m.—"Herald" news service. Stock Ex-
change information.
5.10 p.m.—Close down.

EVENING SESSION.

- 6 p.m.—Answers to letters and birthday
greetings by "MARY MARY."
6.20 p.m.—DICKSON GREGORY:
"Disappearance of the Steamship "Wara-
tah."
6.35 p.m.—Musical interlude.
6.20 p.m.—"MARY MARY"
"The Goblin Market"—from Christina
Rossetti's Poem.

NEWS AND MARKET REPORTS.

- 7 p.m.—Official report of Newmarket stock
sales by the Association 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. Bor-
rett 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 Fruiters' Associa-
tion. Retail prices. Wholesale Fruit Mer-
chants' Association. Citrus fruits.
Results of University Championships.

NIGHT SESSION.

- 7.30 p.m.—Under the auspices of the Depart-
ment of Agriculture, T.A.J. SMITH, To-
bacco Expert will speak on
"Tobacco Crop—Grading and Packing."
7.45 p.m.—LOUISE GOOD:
"Out Back in a Baby Austin."
8 p.m.—
8.1 p.m.—CAPTAIN C. H. PETERS,
"Books, Wise and Otherwise."
A BRASS BAND CONCERT.
8.17 p.m.—THE VICTORIAN RAILWAYS
INSTITUTE ORCHESTRA (conductor A.
Belcher):
Selection, "Iolanthe" (Sullivan).
8.27 p.m.—ELSIE DAVIES, soprano:
"Open thy blue eyes my beloved."
"A Spirit Flower" (Tipton).
8.34 p.m.—THE VICTORIAN RAILWAYS
INSTITUTE ORCHESTRA:
"Hungarian Dances" (Brahms).
8.40 p.m.—ISOBEL BIDDELL, contralto.
"By the Sea" (Quilter).
"Life has Sent Me Many Roses" (Lohr).
8.47 p.m.—HELGA BRENNECKE, 'cello:
Selected.
8.54 p.m.—THE GYPSY PLAYERS:
"Dreams" (Crist).
"In the Twilight" (Felix).
9 p.m.—GUY MOORE, tenor:
"At the Mid-hour of Night" (Cowan).
"Good Night" (Rubenstein).
"The Empty Nest" (Mason).
PIANOFORTE RECITAL.
9.11 p.m.—HENRI PENN:
"Chanson" (Friml).
"Tarantelle" (Vacade).
"La Fileuse" (Raff).
"Country Gardens" (Grainger).
9.26 p.m.—ELSIE DAVIES, soprano?
Aria, "Aida" (Verdi).
9.33 p.m.—THE GYPSY PLAYERS:
"Slow movement Tchaikowsky Quartet."
9.40 p.m.—ISOBEL BIDDELL, contralto:
"A Summer Night" (Gowing Thomas).
"Trees" (Rashbach).
9.47 p.m.—ENGLISH NIGHTINGALE RE-
CORDS.
9.54 p.m.—VICTORIAN RAILWAYS INSTI-
TUTE ORCHESTRA:
March, "Tannhauser" (Wagner).
10 p.m.—RUPERT HAZELL AND ELSIE
DAY:
"Harmonylarity."
10.12 p.m.—VICTORIAN RAILWAYS INSTI-
TUTE ORCHESTRA:
Overture, "Rosamunde" (Schubert).

NEWS SESSION.

- 10.20 p.m.—"Argus" news service. Meteoro-
logical information. British official wireless
news from Rugby. Results of Varsity
Athletic Championships.

The Royal Automobile Club of Victoria's
SAFETY MESSAGE for to-day is:

"A cat has nine lives and can afford to
take a chance, and a frog croakes every
day and lives right on, BUT we have only
one life in this old word, and when it is
gone it is long gone. THEREFORE, for
the sake of ourselves, our families and our
fellow workers we should make every effort
to prevent accidents."

- 10.30 p.m.—FRANK AND FRANCIS LUIZ:

Duet, "Hula Maid."
Steel guitar, "Three O'clock in the Morn-
ing."

Song, "Kuu Ipo."

Duet, "My Honolulu Hula Girl."

- 10.42 p.m.—VICTORIAN RAILWAYS INSTI-
TUTE ORCHESTRA:

Suite, "Three Irish Dances" (Ansell).

- 10.53 p.m.—GUY MOORE, tenor:

"The Sweetest Flower that Blows" (Hawley)
"Jenny's Way" (Willeby).

- 11 p.m.—OUR GREAT THOUGHT:

We often live under a cloud; and it is
well for us that we should do so. Uninter-
rupted Sunshine would parch our hearts;
we want Shade and Rain to cool and
refresh them. Only it behoves us to take
care, that, whatever Cloud may be spread
over us, it should be a Cloud of Witnesses.
And every Cloud may be such, if we can
only look through to the Sunshine that
broods behind it."

DANCE PROGRAMME.

- 11.1 p.m.—THE VAGABONDS.

- 11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

WEDNESDAY, 9th MAY, 1928.

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, results of the
Geelong races, together with other informa-
tion, will be broadcast immediately after
each race is run.

- 2 p.m.—Ayaz Dansonians.

A half-hour Dance Session, by Melbourne's
Favorite Dance Band. The latest popular
hits, each one announced prior to its pre-
sentation.

- 2.30 p.m.—Melbourne Concert Orchestra:

"Looking Backward" (Herman Finck).

- 2.45 p.m.—Miss Alice Mallon, soprano:

"The Sandman" (Brahms).

"Believe Me, if All" (Moore).

- 2.53 p.m.—Melbourne Concert Orchestra:

"Nautical Scenes" (Percy Fletcher).

"The Children's Ball" (Souza).

- 3 p.m.—Miss Alice Mallon, soprano:

"Sylvan" (Landon Ronald).

"Homing" (Del Riego).

- 3.14 p.m.—Ayaz 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 Maga-
zine of Health.

- 3.45 p.m.—Melbourne Concert Orchestra:

Selection from "Carmen" (Ar. Tobani).

- 4 p.m.—G.P.O. Clock says "Four."

- 4.1 p.m.—Second weather forecast.

- 4.3 p.m.—Mr. Howard Andrews, baritone:

"The Star" (Rogers).

"For You, Alone" (Geel).

- 4.10 p.m.—Ayaz Dansonians.

- 4.26 p.m.—Mr. William Whittingham, violin:

"Song Without Words" (Mendelssohn-
Kreisler).

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Perth; W. G. GENDERS, Hobart and
Launceston.

- 4.30 p.m.—Mr. Howard Andrews, baritone:
"Ah, How Pleasant 'Tis to Love" (Purcell).
"All the Fun of the Fair" (Martin).
4.38 p.m.—Melbourne Concert Orchestra:
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:
"Ballet Music" from King Manfred (Carl Raenecke).
"Liebeslied" (Fritz Kreisler).
8.16 p.m.—Miss Shell Paterson, soprano:
"Over the Meadow" (Molly Carew).
"Daddy's Sweetheart" (Lehmann).
8.23 p.m.—Ayaz Dansonians.
8.39 p.m.—Mr. Arch. Clarke, humorous entertainer:
"Fifty Million Frenchmen Can't be Wrong" (Fisher).
"Reading a Novelette."
8.47 p.m.—Mr. C. Richard Chugg, flute:
"Humoreske" (Hahocker).
8.50 p.m.—Mr. L. F. Irwin, A.R.I.B.A., A.R.V.I.A., will talk on "Planning the Home and Garden."
9.2 p.m.—Melbourne Concert Orchestra:
Suite: "The Merchant of Venice" (Rosse).
9.17 p.m.—Miss Shell Paterson, soprano:
"Sun Flakes" (Molly Carew).
"Little Mary Fawcett" (Witty).
9.24 p.m.—Ayaz Dansonians.
9.40 p.m.—Mr. Ronald Brearley, 'cello:
"Chanson Nuit" (Elgar).
9.44 p.m.—Melbourne Concert Orchestra:
"Prelude" (Glazounow).
"Le Coucou" (Arensky).
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.—Melbourne Concert Orchestra.
10.23 p.m.—Mr. Arch. W. Clarke, humorous entertainer:
"Don't Say a Word to the Wife" (Scott).
"Giggling Nigger" (Laughing Song).
10.31 p.m.—Ayaz Dansonians.
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, "By the Sea," by George Essex Evans.
11 p.m.—G.P.O. Clock says "Eleven."
God Save the King.

4QG, BRISBANE.

WEDNESDAY, 9th MAY, 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."
1.30 p.m.—Lunch hour music.
1.58 p.m.—Standard time signal.
2 p.m.—Close down.

AFTERNOON SESSION.

- The Garden Party arranged in aid of the Wynnum District Ambulance Transport Brigade will be relayed from the residence of Mr. Argalts, "Kingsley," Wynnum.
3.30 p.m.—Garden Party.
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.—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: "Breeds of Cattle"—Mr. A. J. McKenzie (Lecturer in Animal Husbandry, Queensland Agricultural High School and College).

NIGHT SESSION.

- A programme of dance music by Alf Featherstone and his Studio Syncopators, relayed (by arrangement) from Hotel Carlton.
8 p.m.—National Anthem.
8.1 p.m.—A Thought for To-night—"The Return of the Prodigal": Will H. Lister.
8.3 p.m.—FROM HOTEL CARLTON: Dance music, including:—
Fox-trots—
(a) "Souvenirs" (Nicholl).
(b) "If Your Face Wants to Smile—Why, Let it" (Barclay).
Fox-trots—
(a) "Tell Me To-night" (Connor).
(b) "You Can't Cry Over My Shoulder" (Heath).
Slow Fox-trots—
(a) "The Birth of the Blues" (Henderson).
(b) "Dancing Tambourine" (Polla).
Jazz Waltz:
"That Little World is Mine" (Deppen).
Rhythmic Paraphrase:
(a) "Russian Fantasy" (arr. Lange).
(b) "Echoes of Ireland."
Fox-trots—
(a) "Roses" (Britt).
(b) "Oh, Ting-a-loo" (Pollock).
Jazz Waltz—"Sometime" (Kahn).
One-Steps—
(a) "I Didn't Know" (Swift).
(b) "Rosemary for Remembrance" (Maiden).
Between dances the following will be broadcast from the Studio:—
Tenor Solos—
(a) "A Dream" (Bartlett).
(b) "At Dawning" (Cadman).
Mr. C. H. Wyman.
Soubrette Numbers:
(a) "C'est Vous" (Green).
(b) "A Bungalow for You" (O'Hagon).
Miss Billie Bailey.
Humour by "Graham and Wattie."
10 p.m.—"The Daily Mail" news.
10.5 p.m.—"The Queenslander" special service for distant listeners.
10.30 p.m.—Weather news.

5CL, ADELAIDE.

WEDNESDAY, 9th MAY, 1928.

MORNING SESSION.

11 a.m. to 12 noon.

AFTERNOON SESSION.

- 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.—Relayed from Morphettville race-course, a running description of events of the South Australian Jockey Club's Adelaide Cup meeting (second day) by Mr. Arnold Treloar, interspersed with musical numbers from the studio.
EVENING SESSION.

- 6 p.m.—G.P.O. Chimes.
6.1 p.m.—Children's Entertainment.
6.30 p.m.—Dinner music on the Studio "Recreator."
7 p.m.—G.P.O. Chimes.
7.1 p.m.—General Market reports by A. W. Sanford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union, Taylor Bros., Retail Grocer's Association, Interstate Fruit and Produce Market Co. Ltd.
7.10 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.

- 7.15 p.m.—Talk by Mr. E. W. Bronson, (Dyer and Dry Cleaner).
7.30 p.m.—Boy Scouts Corner.
7.45 p.m.—Entertainment by the "Bird Lady" for the 5CL Bluebird Girls Club.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Summary of the afternoon's sporting results.
8.8 p.m.—Holden's Silver Band.
8.15 p.m.—Comedy by Dick Bailey.
8.25 p.m.—Fred Williamson, tenor.
8.32 p.m.—Holden's Silver Band.
8.42 p.m.—Holden's Male Voice Choir.
8.51 p.m.—Some humour by Dick Bailey.
9.1 p.m.—Meteorological information, weather forecast.
9.2 p.m.—Dalgety's wheat report.
9.3 p.m.—International News.
9.9 p.m.—Holden's Silver Band.
9.19 p.m.—Fred Williamson, tenor.
9.22 p.m.—Holden's Silver Band.
9.30 p.m.—Humorous interlude by Dick Bailey.
9.36 p.m.—Holden's Silver Band.
9.48 p.m.—Holden's Male Voice Choir.
9.55 p.m.—Holden's Silver Band.
10.1 p.m.—"Advertiser" news service.
10.8 p.m.—Local and interstate sporting results.
10.13 p.m.—Wireless shipping contacts.
10.15 p.m.—Holden's Silver Band.
10.25 p.m.—Relay from Glenelg, The Maison Dance Band.
10.55 p.m.—Meteorological information, station announcements to-morrow's programme.
11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH.

WEDNESDAY, 9th MAY, 1928.

AFTERNOON 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.
2 p.m.—Close down.
3.30 p.m.—Tune in.
3.35 p.m.—Talk Fashions by Junette.
3.55 p.m.—Organ and Pianola music relayed from the Grand Theatre, Murray-street.
Vocal and instrumental numbers from the Studio.

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, Percy 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.

VARIETY NIGHT.

- 8.3 p.m.—Musical programme from the Studio, including vocal and instrumental 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.

Thursday, May 10

2FC, SYDNEY.

EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and announcements.
7.5 a.m.—Studio music.
7.15 a.m.—Country Session: Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.

7.25 a.m.—Investment market, mining share market, metal quotations.
 7.35 a.m.—Wool sales, breadstuffs markets, Interstate markets, produce markets.
 7.45 a.m.—"Sydney Morning Herald" summary.
 7.50 a.m.—Studio music.
 8 a.m.—"Big Ben." Close down.

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.—Last minute Sporting information by the 2FC Racing Commissioner.
 10.45 a.m.—Studio music.
 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 reading.
 11.30 a.m.—Close down.

MIDDAY SESSION.

Announcer LAURENCE HALBERT.
 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.—Thelma Lansdowne, mezzo.
 1.35 p.m.—Studio music.
 1.50 p.m.—Thelma Lansdowne, mezzo.
 1.55 p.m.—Late sporting information, given by the 2FC Racing Commissioner.
 2.5 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and programme announcements.
 3.5 p.m.—Bryson Taylor, tenor:
 "Ma Lindy Lou" (Strickland).
 3.10 p.m.—Pianoforte solos:
 Pupil of Laurence Godfrey Smith.
 3.20 p.m.—Eileen Moreau, soprano.
 3.25 p.m.—A reading.
 3.35 p.m.—Popular records.
 3.45 p.m.—Bryson Taylor, tenor:
 "Madoline" (Carruthers).
 3.50 p.m.—Thelma Mitchell, soprano.
 3.55 p.m.—Studio music.
 4.5 p.m.—Pianoforte solos:
 Pupil of Laurence Godfrey Smith.
 4.15 p.m.—Eileen Moreau, soprano.
 4.20 p.m.—popular records.
 4.30 p.m.—Pianoforte solo:
 Pupil of Laurence Godfrey Smith.
 4.37 p.m.—Thelma Mitchell, soprano.
 4.40 p.m.—Studio music.
 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.
 Children's Session.
 5.45 p.m.—The "Hello Man" talks to the children.
 6.25 p.m.—Children's music.
 6.30 p.m.—Late sporting news.
 6.35 p.m.—Da'getys' market reports (wool, wheat and stock).
 6.43 p.m.—Fruit and vegetable markets.
 6.45 p.m.—Stock Exchange information.
 6.48 p.m.—Weather and shipping intelligence.
 6.50 p.m.—Studio talk.
 7 p.m.—Dinner music.
 7.30 p.m.—Late "Evening News" news service.

NIGHT SESSION.

7.43 p.m.—Programme announcements.
 7.45 p.m.—W. F. Kay, will continue his series of Theatrical talks, dealing this evening with George Coppin.

8.0 p.m.—"Big Ben." From the Girls' Industrial Home, Parramatta: A programme arranged by Rus Garling, including items by The Northern District Concert Orchestra. (Conductor, Cyril Fox), and popular 2FC artists.

9.0 p.m.—"Big Ben." From the Studio. Late weather forecast.

9.1 p.m.—The 2FC Studio Orchestra, conducted by Horace Keats:

(a) Overture, "Le Nozze de Figaro" (Mozart).

(b) "As Once in Happier Days" (Popper).

9.12 p.m.—Reginald Hayward, Baritone:

(a) "Lolita" (Buzzi-Peccia).

(b) "Oh, Promise Me" (Koven).

9.20 p.m.—The 2FC Studio Orchestra:
 Selection, "Tom Jones" (German).

9.35 p.m.—Louise Homfrey, Lady Baritone.

9.43 p.m.—The 2FC Studio Orchestra:

(a) Suite, "Russet and Gold" (Sanderson).

(b) "The Quartette" ("Rigoletto" (Verdi).

10.0 p.m.—"Big Ben." Reginald Hayward, Baritone:

(a) "Inter Nos" (MacFadyen).

(b) "I Did Not Know" (Trotter).

10.8 p.m.—The 2FC Studio Orchestra:
 "The Moroccan Patrol" (Jessel).

10.14 p.m.—Louise Homfrey, Lady Baritone.

10.22 p.m.—Daisy Richards, Violinist.

10.30 p.m.—Late weather forecast.

10.31 p.m.—The 2FC Studio Orchestra:

(a) "Moment Musical" (Schubert).

(b) "Danse Rustique" (Godard).

10.40 p.m.—From the Ambassadors: The Ambassadors' Dance Orchestra, conducted by Al. Hammet.

10.57 p.m.—From the Studio: Late news and to-morrow's programme.

11.0 p.m.—"Big Ben." The Ambassadors' Dance Orchestra.

11.45 p.m.—National Anthem. Close down.

2BL SYDNEY

THURSDAY, 10th MAY, 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.
 Women's Session.
 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.
 12.10 p.m.—Information, mails, shipping, and port directory.
 12.13 p.m.—Boats in call by wireless.
 12.15 p.m.—Fruit Market report.
 12.17 p.m.—Vegetable Market report.
 12.19 p.m.—London Metal Market report.
 12.21 p.m.—Dairy, Farm and Produce Market report.
 12.24 p.m.—Forage Market report.
 12.26 p.m.—Fish Market report.
 12.28 p.m.—Rabbit Market report.
 12.30 p.m.—H.M.V. Gramophone Recital.
 1.30 p.m.—G.P.O. Clock and Chimes.
 Talk to children, and special entertainment for children in hospitals.

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."
 3.10 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.—News session.
 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.

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EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and chimes.
Children's Session.
6.30 p.m.—Dinner music.
SPECIAL COUNTRY SESSION.
7 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.
7.15 p.m.—Country news from the "Sun."
7.30 p.m.—News from the "Sun."
7.45 p.m.—Helpful Hints to Listeners, by Mr. Alan Burrows.

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and chimes.
Broadcasters' Topical Chorus.
8.3 p.m.—Mr. Alfred Wilmore, tenor.
8.10 p.m.—The Wurlitzer Organ, broadcast from the Arcadia Theatre, Chatswood. Organist, Mr. N. Robins.
8.15 p.m.—Miss Rosalind Spriggs, soprano.
8.22 p.m.—Mr. Moore Macmahon, violinist.
8.29 p.m.—Miss Amy Ostinga, contralto.
8.36 p.m.—Broadcasters' Instrumental Trio.
8.43 p.m.—Mr. Leslie McCallum, baritone.
8.50 p.m.—Mr. F. Stewart Jarbo, elocutionist.
8.57 p.m.—Mr. Alfred Wilmore.
9.4 p.m.—Sketch by Mr. Norman Barrington and partner.
9.24 p.m.—Miss Rosalind Spriggs.
9.31 p.m.—Mr. Moore Macmahon.
9.38 p.m.—Miss Amy Ostinga.
9.45 p.m.—Broadcasters' Instrumental Trio.
9.52 p.m.—Mr. Leslie McCallum.
9.59 p.m.—Mr. F. Stewart Jarbo.
10.6 p.m.—Resume of following day's programme.
10.10 p.m.—The Wurlitzer Organ, broadcast from the Arcadia Theatre, Chatswood.
10.30 p.m.—The Wentworth Cafe Orchestra, under the direction of Mr. J. Elkins. During intervals between dances, "Sun" news will be broadcast.
11.30 p.m.—G.P.O. Clock and chimes.
National Anthem.

3LO, MELBOURNE

THURSDAY, 10th MAY, 1928.

EARLY MORNING SESSION.

7.15 a.m. to 8.15 a.m.

MORNING SESSION.

- 11 a.m.—3LO CULINARY COUNSELS or How to Create Creature Comforts with a minimum of cash.

SPONGE SANDWICH.

- ¼-lb. flour,
½-teaspoon carb. soda.
½-teaspoon carb. soda.
Little flavoring.
¼-lb. sugar.
3 Eggs.
2 Tablespoons water.

Method.—(1) Sift flour, cream of tartar, and soda. (2) Break eggs into a basin, and remove speck. (3) Beat slightly, add sugar, and beat vigorously for 15 or 20 minutes. (4) Stir flour, etc., in gently, add water, and pour into well greased sandwich tins. (5) Bake 6 or 8 minutes in a moderate oven. Note.—This mixture may be baked in patty tins for five minutes.

FACTS ABOUT FOOD.

Left-over vegetables may be put in soups or stews, or may be fried together or used in salads.

Left-over potatoes—make into potato cakes or use in cottage pie, or rissoles.

Celery tops will flavour soups—outside stalks may be used as a vegetable.

Bacon rinds, added to pea soup, flavour it.

- 11.5 a.m.—FRANCES FRASER:
"Pioneer Women in English Literature."
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.
"A Settler's Garden."

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.

COMMUNITY SINGING.

- 12.15 p.m.—Under the auspices of the Community Singers and Concert Goers' Association, COMMUNITY SINGING, transmitted from the Town Hall, Melbourne.

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.

AFTERNOON SESSION.

- 2.15 p.m.—THE STATION ORCHESTRA:
Selection, "Queen High" (Gersler).
2.25 p.m.—ELSIE DAVIES, soprano:
"La Partida" (D'alvarez).
"Moonlight Elves" (Di Temple).
2.32 p.m.—THE STATION ORCHESTRA:
"The Earl King" (Schubert).
Selected.
2.43 p.m.—GUILDFORD BISHOP, violin:
Selected.
2.47 p.m.—OLIVER PEACOCK, baritone:
"Lighterman Tom" (Squire).
"Mother o' Mine" (Tours).
2.54 p.m.—THE STATION ORCHESTRA:
"Modern Operatic and Ballet Music."
3 p.m.—Melbourne Observatory Time Signal.

EDUCATION HOUR.

- 3.1 p.m.—DR. LOFTUS HILLS:
"Topics of the Week."
3.15 p.m.—HENRI PENN will give a talk to Students of Music.
3.30 p.m.—J. HOWLETT ROSS will speak on "J. Pascoe Fawciner—the founder of Melbourne."

RELAXATION AND A LITTLE LEVITY.

- 3.45 p.m.—THE GYPSY PLAYERS:
"Calif of Bagdad" (Boreldieu).
3.55 p.m.—RUPERT HAZELL AND ELSIE DAY:
"Harmonylarity."
4.7 p.m.—BERTHA JORGENSEN, violin:
"Dudziarz" (Wieniawski).
4.12 p.m.—ELSIE DAVIES, soprano:
"Thou art risen my beloved" (Coleridge-Taylor).
"The Swan" (Saint Saens).
4.19 p.m.—THE GYPSY PLAYERS:
"A Cockney Suite" (Ketelhey).
4.24 p.m.—OLIVER PEACOCK, baritone:
"Moon Dream Shore" (Lockhart).
"Mother, my Dear" (Treharne).

NEWS SESSION.

- 4.30 p.m.—"Herald" news service. Stock Exchange information.
4.44 p.m.—Special Weather report from Adelaide for Mildura district.

EVENSONG.

- 4.45 p.m.—EVENSONG, transmitted from ST. PAUL'S CATHEDRAL.
5.30 p.m.—Acceptances for Sandown Park Races for Saturday, 12th May.
6.35 p.m.—Close down.

Results of Coleraine Races will be given hourly during the afternoon.

EVENING SESSION.

- 6 p.m.—Answers to Letters and Birthday Greetings by "MARY GUMLEAF."
6.20 p.m.—CAPT. DONALD MACLEAN, The Spanish Conquest:
"How the Dons discovered the Treasures of the World."
6.35 p.m.—Musical interlude.
6.40 p.m.—"MARY GUMLEAF":
"The Angel of the Birds."

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.
7.21 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 Fruiterers' Association. Citrus fruits.

NIGHT SESSION.

- 7.30 p.m.—A talk on Foreign Affairs by AN AUSTRALIAN.

- 7.45 p.m.—MARGARET BANNERMAN.
OUT OF THE PAST.

- 8 p.m.—H.M.S. VINDICTIVE blocked Zeebrugge this day ten years ago.

- 8.1 p.m.—ROD MCGREGOR will talk on "Football."

PROMINENT PERSONALITIES.

- 8.15 p.m.—To-day is the Birthday of JAMES VISCOUNT BRYCE, O.M., born in 1838, died 1922. He was a strong Home Ruler, and took an active interest in university reform, the Eastern question, etc. He was also President of the British Academy.

- 8.16 p.m.—Birthday Greetings and programme announcements.

3LO'S DANCE NIGHT.

- 8.17 p.m.—THE VAGABONDS:
"There will come a time" (Garren).
"Red Lips, Kiss My Blues Away" (Bryan)
8.26 p.m.—FRANK AND FRANCIS LUIZ:
Duet, "Naughty Hula Eyes."
Solo, "Hawaii Across the Sea."
8.29 p.m.—THE VAGABONDS:
"The Magic of Moonlight and Love" (Hayess)
"Funny Tune" (Olsen).
"Hungaria" (Kahn).

- 8.38 p.m.—GORDON JAMES, Baritone:
"Dancing Time is Kerry" (H. Hampson).

- 8.41 p.m.—THE VAGABONDS:
"What Will You Do."
"Barbara" (Silver).
"Dancing Tambourine" (Polla).

- 8.50 p.m.—RUPERT HAZELL, will entertain you.

- 8.53 p.m.—THE VAGABONDS:
"All by my Ownsome" (Kahn).
"Egyptian Echoes" (Black).
"Are you Happy" (Agar).

- 9.2 p.m.—ELSIE DAY, Soprano:
Selected.

- 9.5 p.m.—THE VAGABONDS:
"Who's Loving You To-night" (Rose).
"Following You Around" (Kahn).
"The Girl Friend."

- 9.14 p.m.—FRANK AND FRANCIS LUIZ:
Duets, "Moonlight."
"Hawaiian Blues."

- 9.17 p.m.—THE VAGABONDS:
"The Blue Room."
"Diane" (Rapee).
"I Walked Back from the Buggy Ride" (Adams).

- 9.26 p.m.—SYD. EXTON, Tenor:
"Eileen Mavourneen" (Benedict).

- 9.29 p.m.—THE VAGABONDS:
"Cheerie, Beerie Bee."
"Rose of the Volga" (Kahn).
"From Now On" (Friend).

- 9.38 p.m.—GORDON JAMES, Baritone:
"The Foray" (Haydn Wood).

- 9.41 p.m.—THE VAGABONDS:
"Brokenhearted" (Lewis).
"Lazy Weather" (Trent).

- "Dainty Miss"—Piano Solo.
9.50 p.m.—RUPERT HAZELL AND ELSIE DAY:
"Harmonylarity."

- 9.53 p.m.—THE VAGABONDS:
"My Ohio Home" (Kahn).
"The Spell of the Moon" (Kahn).
"A Shady Tree."

NEWS SESSION.

- 10.0 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 pedestrians:

"You must be careful too—the driver is not always to blame."

ON WITH THE DANCE.

- 10.15 p.m.—THE VAGABONDS.
 10.24 p.m.—SYD EXTON, Tenor:
 "Ninetta" (Brewer).
 10.27 p.m.—THE VAGABONDS:
 "Baby Your Mother."
 "Yale Blues."
 "Just a Little Cuter" (Alexander).
 10.36 p.m.—FRANK AND FRANCIS LUIZ:
 Duet, "Honeymoon Isles."
 10.39 p.m.—THE VAGABONDS:
 "She Belongs to Me" (Johnson).
 "Deep River Blues."
 "Half a Moon" (Hanley).
 10.48 p.m.—GORDON JAMES, Baritone:
 "To Sit by the Fire With You" (Ivy St. Helier).
 10.51 p.m.—THE VAGABONDS:
 "The Sunrise" (Santly).
 "The Wedding Waltz" (Gilbert).
 "Whoo, You. That's Who" (Yellen).
 11.0 p.m.—OUR GREAT THOUGHT:
 "Then gently scan your brother man,
 Still gentler sister woman;
 Tho' they may gang a keenin' wrang,
 To step aside is human;
 One point must still be greatly dark,
 The moving why they do it;
 And just as lamely can ye mark
 How far perhaps they rue it."
 —BURNS.
 LET'S KEEP ON DANCING.
 11.1 p.m.—THE VAGABONDS:
 11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

THURSDAY, 10th MAY, 1928.

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

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

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

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:
 Selection: "Lollipop" (Youmans).
 "Gavotte" (Sgambati).
 2.45 p.m.—Mr. William Storr, baritone:
 "Serenade" (Schubert).
 "Sylvia" (Oléy Speaks).
 2.53 p.m.—Melbourne Concert Orchestra:
 "Ballet Music" from Die Judin (J. H. Helvey).
 Suite Dansante: "Intermezzo" (Rosse).
 3.17 p.m.—Mr. Herbert Pettifer, violin:
 "Rondino" (Beethoven-Kreisler).
 3.22 p.m.—Mr. William Storr, baritone:
 "Le Cor" (Flegier).
 "Wait" (d'Hardleit).
 3.30 p.m.—Interval announcements.
 3.35 p.m.—Cookery Talk, by Miss G. Hughes,
 of the Colonial Gas Association.
 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. Robert Adams, trumpet:
 "The Skylark" (Ord Hume).
 4.7 p.m.—Mr. Robert Allen, alto:
 "Linden Lea" (Williams).
 "The Threshold" (Russell).
 4.15 p.m.—Melbourne Concert Orchestra:
 "Serenade Lamentosa" (Humphries).
 "Ballet Russe" (Luigini).
 4.30 p.m.—Mr. Robert Allen, male alto:
 "She is Far From the Land" (Lambert).
 "A Fat Lil' Feller" (Gordon).
 4.38 p.m.—Ayarz Dansonians.
 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.—"Brer Rabbit's" Entertainment.

EVENING SESSION.

SONG AND DANCE.

- 7.15 p.m.—Stamp Session. Mr. A. G. Kelson, Vice-President of the 3AR Stamp Club.
 7.25 p.m.—Early Victorian History. Mr. F. A. Currie's interesting talk this week will deal with "The First Overland Mail from Melbourne to Sydney."
 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:
 Ballet Music from the Opera, "The Deacon" (Anton Rubenstein).
 "Serenata" (Maurice Baron).
 8.14 p.m.—Miss Julia Russell, soprano:
 "O, Mio Babbino Caro" (Puccini).
 "The Swallows" (Cowen).
 8.21 p.m.—Melbourne Concert Orchestra:
 "Gounod Fantasia" (Ernest Urbach).
 8.39 p.m.—Mr. Howard Andrews, baritone:
 "An Emblem" (Jack Thompson).
 "Pale Moon" (Logan).
 8.47 p.m.—Mr. Ronald Brearley, 'cello:
 "Devant son Image" (Jean Hubay).
 8.51 p.m.—Announcements.
 9.3 p.m.—Melbourne Concert Orchestra:
 "Rustic Revels" (Percy Fletcher).
 "Canzonetta" (Tchaikowsky).
 9.19 p.m.—Miss Julia Russell, soprano:
 "Piano, Piano," from Der Freischata (Weber).
 9.29 p.m.—"Harlequin." Sport results.
 9.38 p.m.—Melbourne Concert Orchestra:
 "Petite Suite d'Orchestre" (Bizet).
 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.—Melbourne Concert Orchestra:
 Second Selection from "Lilac Time" (Ar. G. Clutsam).
 A Tone Journey: "Mississippi" (Ferdie Grufe).
 10.23 p.m.—Mr. C. Richard Chugg, flute:
 "Nightingale" (Beckert).
 10.27 p.m.—Mr. Howard Andrews, baritone:
 "Sometimes, When Night is Nigh" (H. Phillips).
 "Toreador Song" (Bizet).
 10.35 p.m.—Melbourne Concert Orchestra:
 Suite: "Don Quixote" (Safranek).
 "Barcarolle" (Tchaikowsky).
 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 taken from the poem, "Cape Byron," by Brunton Stephens.
 11 p.m.—G.P.O. Clock says "Eleven."
 God Save the King.

4QG, BRISBANE

THURSDAY, 10th MAY, 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.—FROM CONSTITUTIONAL CLUB:
 Lunch hour address.
 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.—"The Telegraph" news.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

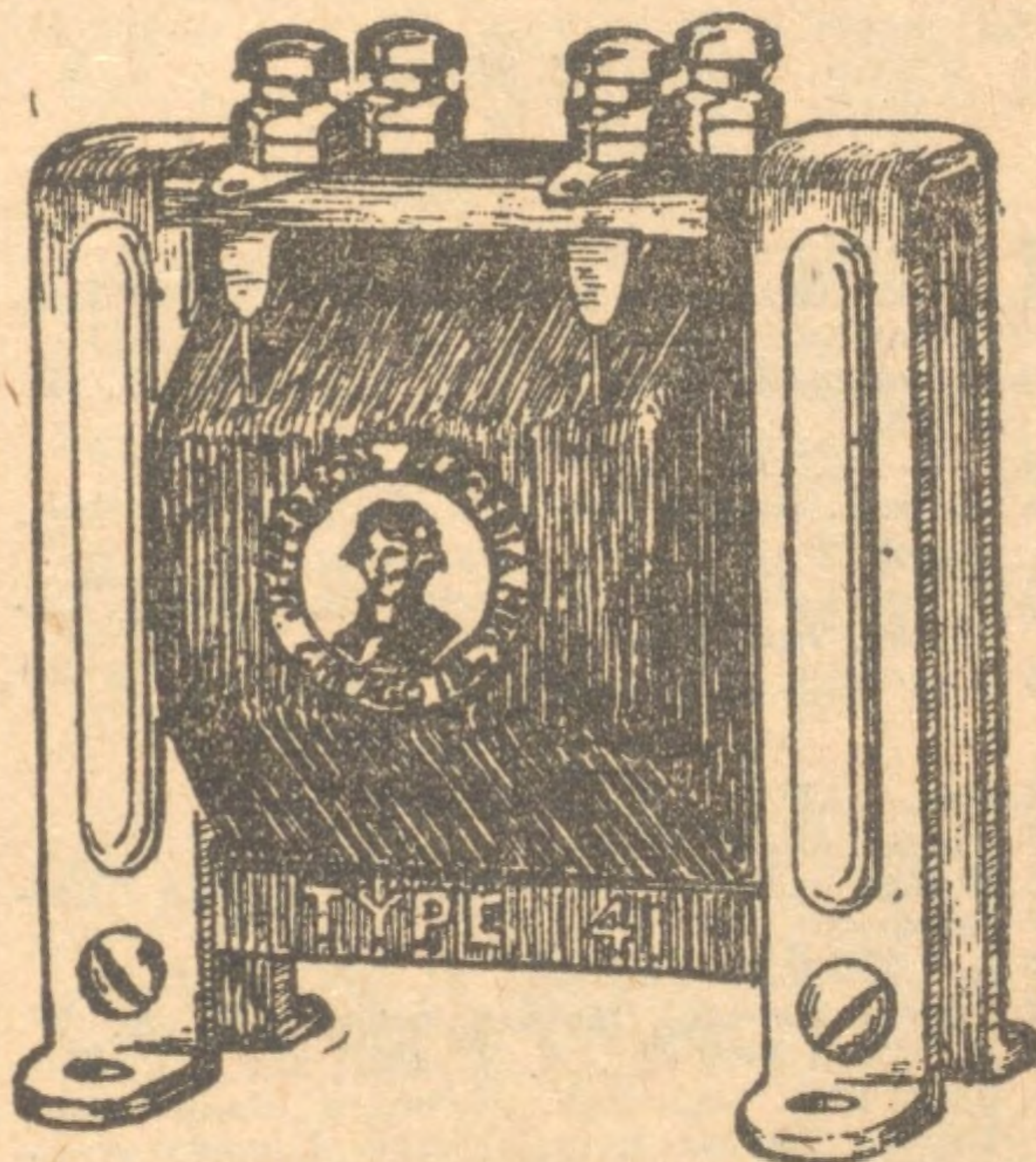
- 6 p.m.—Mail train running times, Daily Standard news; weather information; announcements.

Jefferson Transformers

The name of Jefferson has always been associated with transformers.

For years the firm of Jefferson has been making transformers from the smallest to the largest and for every known electrical and wireless purpose.

The Jefferson 41 Transformer needs no introduction. It was one of the first on the market and thousands of the early models are still in use.



Jefferson 41 - - 15/-
 Ratio 3.75 to 1

The Jefferson 41 is so much in demand that the mass production keeps down overhead and factory costs and the public benefit accordingly.

A quality product at a price to suit all.

Why put up with raucous and distorted reception when a Jefferson 41 may be had for

15/-

Obtainable from all Reputable Radio Dealers.

Sole Australasian Agents:

Fox & MacGillcuddy Ltd.
 Daily Telegraph Bldgs.
 King street.

MA 3062

- 6.10 p.m.—A Talk to Motorists: "The Products of Petroleum and Their Uses"—by "Gar-goyle."
 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 arranged by Mr. Erich John:
 8 p.m.—FROM THE STUDIO:
 National Anthem.
 Topical Chorus.
 8.3 p.m.—A Thought for To-night—"Once to Live," Will. H. Lister.
 8.5 p.m.—GROUP 1—GRAND OPERA.
 8.26 p.m.—GROUP 2—SONGS OF SCOTLAND
 9.7 p.m.—GROUP 4—CLASSICAL.
 PART II.
 9.25 p.m.—GROUP 5.—SONG CYCLE:
 "PORCELAIN AND POTTERY."
 9.52 p.m.—GROUP 6.—LIGHT OPERA.
 10.5 p.m.—Weather information.
 10.10 p.m.—"Daily Mail" news.

5CL, ADELAIDE

THURSDAY, 10th MAY, 1928.

MIDDAY SESSION.

12 noon to 2 p.m.

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 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.
 6.30 p.m.—Dinner Music on the Studio "Recreator."
 7 p.m.—G.P.O. Chimes.
 7.1 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.
 7.10 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
 7.15 p.m.—"Windbag's Sporting Service."
 7.30 p.m.—Talk "Better Homes" arranged by Slaters (Furnishers) Ltd.
 7.40 p.m.—A. M. Whittenbury will speak on "Poultry."
 8 p.m.—G.P.O. Chimes.
 8.1 p.m.—Magill Vice-Regal Band.
 8.11 p.m.—Jas. Riley, tenor.
 8.18 p.m.—Magill Vice-Regal Band.
 8.25 p.m.—Popular songs, by Beatrice Kingston.
 8.31 p.m.—Magill Vice-Regal Band.
 8.41 p.m.—Jas. Riley, tenor.
 8.44 p.m.—Beatrice Kingston.
 8.49 p.m.—Magill Vice-Regal Band.
 9.1 p.m.—Meteorological information, weather forecast.
 9.2 p.m.—Dalgety's wheat report.
 9.3 p.m.—International News.
 9.9 p.m.—Linda Wald, soprano.
 9.19 p.m.—Magill Vice-Regal Band.
 9.26 p.m.—Lionel Clarke, baritone.
 9.33 p.m.—Magill Vice-Regal Band.
 9.39 p.m.—Linda Wald, soprano.
 9.42 p.m.—Relay from Glenelg, The Maison Dance Band.
 10.1 p.m.—"Advertiser" news service.
 10.8 p.m.—Wireless shipping contacts.
 10.11 p.m.—Magill Vice-Regal Band.
 10.18 p.m.—Lionel Clarke, baritone.
 10.22 p.m.—Magill Vice-Regal Band.
 10.28 p.m.—Relayed from Glenelg, The Maison Dance Band.
 10.53 p.m.—Station Announcements, meteorological information, to-morrow's programme.
 11 p.m.—G.P.O. Chimes and National Anthem.

Friday, May 11
2FC, SYDNEY

EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and announcements.
 7.5 a.m.—Studio music.
 7.15 a.m.—Country Session: Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
 7.25 a.m.—Investment market, mining share market, metal quotations.
 7.35 a.m.—Wool sales, breadstuffs markets, Interstate markets, produce markets.
 7.45 a.m.—"Sydney Morning Herald" summary.
 7.50 a.m.—Studio music.
 8 a.m.—"Big Ben." Close down.

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 reading.
 10.45 a.m.—Studio music.
 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.—Studio music.
 1.35 p.m.—Gwen Gillard, soprano.
 1.40 p.m.—Studio music.
 1.55 p.m.—Gwen Gillard, soprano.
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.
 3.5 p.m.—A record recital.
 3.20 p.m.—Helen Morris, soprano:
 "Good Morning, Brother Sunshine" (Liza Lehmann).
 3.24 p.m.—Muriel Watt, contralto:
 "Soul of Mine" (Barns).
 3.28 p.m.—Madame Evelyn Grieg will continue her series of talks:
 The Art of Listening to Music:
 No. 3. "Great Violins and Great Violinists."
 3.43 p.m.—Aldyth Hern, soprano:
 "Carmena" (Lane Wilson).
 3.47 p.m.—Studio music.
 3.55 p.m.—Helen Morris, soprano:
 "American Indian Song" (Cadman).
 4 p.m.—"Big Ben." A reading.
 4.10 p.m.—Muriel Watt, contralto:
 "When Song is Sweet" (Sans Souci).
 4.15 p.m.—Popular records.
 4.30 p.m.—Netta Mullarkey, mezzo.
 4.35 p.m.—Studio music.
 4.40 p.m.—Aldyth Hern, soprano:
 "Somewhere in this Summer Night" (Molly Carew).
 4.45 p.m.—Stock Exchange, third call.
 4.47 p.m.—Netta Mullarkey, 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.

- 6.25 p.m.—Children's music.
 6.30 p.m.—Late sporting news.
 6.35 p.m.—Dalgety's market reports (wool, wheat and stock).
 6.43 p.m.—Fruit and vegetable markets.
 6.45 p.m.—Stock Exchange information.
 6.48 p.m.—Weather and shipping intelligence.
 6.50 p.m.—The 2FC Racing Commissioner will give a short talk.
 7 p.m.—Dinner music.
 7.30 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.43 p.m.—Programme announcements.
 7.45 p.m.—Rev. F. H. Raward will continue his series of talks:
 "Let's Go Round the World."
 8.0 p.m.—"Big Ben." Raymond Ellis, English Operatic Baritone.
 8.15 p.m.—Enid D'Arcy, Soprano.
 8.23 p.m.—Goodie Reeve, a talk:
 "Behind the Scenes at Hollywood."
 8.38 p.m.—Charles O'Mara, Entertainer.
 8.48 p.m.—Enid D'Arcy, Soprano.
 8.56 p.m.—Raymond Ellis, English Operatic Baritone.
 9.11 p.m.—Late weather forecast.
 9.12 p.m.—A late booking.
 9.30 p.m.—Charles O'Mara, Entertainer.
 9.40 p.m.—From Her Majesty's Theatre, Sydney (by permission of J. C. Williamson, Ltd.). The second act of the Musical Comedy, "Rose Marie," featuring Harriet Bennet and Frederick Bentley.

MUSICAL NUMBERS.

OPENING CHORUS.

- Trio, "Only a Kiss"—Frederick Bentley, Yvonne Banvard, and James Hughes.
 Sextette, "Finaletto"—Harriet Bennet, Reginald Dandy, Noel Allan, Lou Vernon, Mabel Lambeth and Stephanie Deste.
 Empire March and Gavotte.
 Song and Dance, "Minuet of the Minute"—Harriet Bennet and Frederick Bentley.
 Dance, "Wanda Waltz" ... Stephanie Deste
 Bridal Procession.
 Song, "Door of my Dreams"—Harriet Bennet and Chorus.
 Bridal Finale.
 Finale Ultimo.
 10.57 p.m.—From the Studio: To-morrows' programme and late news.
 11.0 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, 11th MAY, 1928.

EARLY MORNING SESSION.

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.
 DRY CURRY.
 2lb. tender beefsteak or veal.
 3oz. butter.
 2 tablespoons curry powder.
 1 apple.
 1 onion.
 Lemon juice.
 1 Dessertspoon chutney.
 1 Teaspoon red currant jelly.
 Salt.
 METHOD.—Peel and slice apple and onion. Put butter in stewpan and fry onion, apple and curry powder. Add the meat, cut into very small pieces, the chut-

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.
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ney and the jelly. Stir all well together, and cook very gently until the meat is quite tender. Half an hour before serving, add the salt and lemon juice. Serve on hot dish with a border of well-cooked rice, and garnish with lemon and yolk of hard-boiled egg. (If cooked in double saucepan will prevent burning.)

AIDS TO SUCCESS IN COOKING.

- (1) Every ingredient should be accurately weighed or measured.
- (2) Cleanliness and punctuality go hand in hand with good cookery.
- (3) A time and a place for everything, and everything in its time and place.
- (4) Much tasting, but no wasting.
- (5) Whatever is worth doing is worth doing well.

11.5 a.m.—VEGETERIAN COOKING:

MATRON BARTLETT will describe the making of Vegetarian "Steam Puddings."

11.20 a.m.—Musical interlude.

11.25 a.m.—"AU FAIT":

"The Psychology of Clothes."

11.40 a.m.—Musical interlude.

11.45 a.m.—Under the auspices of the Public Health Department.

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 Australian Press Association cables. "Argus" news service.

12.20 p.m.—THE GYPSY PLAYERS:

"By the Lake of Geneva" (Bendel).

12.30 p.m.—ELSIE DAVIES, soprano:

"Love has eyes."

"Annie Laurie."

12.37 p.m.—Stock Exchange information.

12.40 p.m.—RERTHA JORGENSEN, violin, and BESSIE GAUNSON, violin:

Duet, "Dance des Lanterns."

12.50 p.m.—THE GYPSY PLAYERS:

"La Belle France" (Laurendeau).

1 p.m.—Melbourne Observatory time signal.

1.1 p.m.—VICTOR BAXTER, tenor:

"The Garden of Sleep" (De Lara).

"The Little Hills" (Gleeson).

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

1.15 p.m.—THE GYPSY PLAYERS:

"Gems from South America" (Schmid).

1.25 p.m.—ELSIE DAVIES, soprano:

"A Dream within a Dream" (Poulet).

1.32 p.m.—THE GYPSY PLAYERS:

"Dance Orientale" (Lubomisky).

1.37 p.m.—VICTOR BAXTER, tenor:

"By the Waters of Minnetonka" (Lieurance).

"Marcheta" (Schertzinger).

1.45 p.m.—Close down.

During the afternoon the results of Kyneton Races will be given as they come to hand.

AFTERNOON SESSION.

2.15 p.m.—THE GYPSY PLAYERS:

"Two Guitars" (Horlick).

"An Old Portrait" (Crist).

2.30 p.m.—Description of Head of River School Championship rowed on Henley Course, first heat, by Eric Welch.

2.45 p.m.—DOROTHY ROXBURGH, viola:

"Romance" (Goltermann).

2.53 p.m.—THE GYPSY PLAYERS:

"Magic of Love" (Wania).

3 p.m.—Description of Head of River Public School Championship rowed on Henley Course, second heat, by Eric Welch.

3.15 p.m.—THE STATION ORCHESTRA:

"Songs from 'Going Up.'" (Hirsch).

"If you look in her Eyes."

"Everybody ought to know it."

3.23 p.m.—PARKIN.

3.30 p.m.—Description of Head of River Public School Championship rowed on Henley Course, third heat, by Eric Welch.

3.45 p.m.—THE STATION ORCHESTRA:

Selection, "A Connecticut Yankee" (Rogers).

PIANOFORTE RECITAL.

3.55 p.m.—HENRI PENN:

"Melodie" (Rachmaninoff).

"The Sea" (Palmgreen).

"Rhapsodie, No. 13" (Liszt).

4.10 p.m.—RUPERT HAZELL AND ELSIE DAY:

"Harmonylarity."

4.25 p.m.—THE STATION ORCHESTRA:

"Dorothy Forster's Songs"—from the latest American Musical Comedy.

4.30 p.m.—FRANK AND FRANCIS LUIZ:

Duet, "Akahi Oi."

Song, "A song to Hawaii."

Steel guitar, "Hawaiian Hotel."

Duet, "Behind your silken veil."

4.41 p.m.—THE STATION ORCHESTRA:

"On the Volga" (Krein).

Fox trot, "There must a silver lining" (Donaldson).

4.48 p.m.—Special weather report from Adelaide for Mildura district.

4.49 p.m.—OLIVER PEACOCK, baritone:

"The Dust of Egypt" (Broughton).

"The Parting" (Broughton).

4.56 p.m.—CHAS. McFEE, alto sax.

NEWS SESSION.

5 p.m.—"Herald" news service. Stock Exchange information. Results of Head of River Championship heats.

5.15 p.m.—Close down.

EVENING SESSION.

6 p.m.—Answers to letters and birthday greetings by "BILLY BUNNY."

6.20 p.m.—W. H. BUTCHER will talk on:

"The collecting of postage stamps."

6.35 p.m.—Musical interlude.

6.40 p.m.—"BILLY BUNNY" has a story to tell you.

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 Fruiterers' Association. Citrus fruits.

NIGHT SESSION.

7.30 p.m.—Under the auspices of the Department of Agriculture, J. BRAKE, Senior Inspector of Agriculture, will speak on: "Wheat growing—Choice of varieties to Sow."

7.45 p.m.—FRANK AND FRANCIS LUIZ:

Duet, "Hana Lei."

Steel guitar, "Kalima Waltz."

Song, "Lay my head beneath a rose."

Duet, "Drifting and Dreaming."

7.55 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.

OUT OF THE PAST.

8.5 p.m.—This day seventy-one years ago the Indian Mutiny began.

8.6 p.m.—ENGLISH NIGHTINGALE RECORDS.

FOR SALE.

Filament Transformer, 240 volt input. Two 8 volt outputs. Centre tapped. Price, £2. Apply, Technical Editor, "Wireless Weekly," 51 Castlereagh Street, Sydney.



Blessed Noise

Noise has become absolutely part of our physical and mental make-up. Without it, we suffer torment.

All our vibrations are tuned to react soothingly to feet on hard pavements, grinding of trams, motor brakes, electric rivetters, newsboys, steam whistles, typewriters, telephones, and talk.

We live as a multitude—think, jazz, breathe, sleep, and travel as a multitude. A cold bath and a tram conductor are the only jolts which remind us that we exist separately.

Recently, I spent three days on an orchard, and went through agony. The awful silence hammered into my brain. I felt a tiny, isolated, pulpy, naked individual thing, shivering against the stars, covering before the mountains. At the hoot of an owl, I shrieked!

A poet friend, who lives in my suburb, and has written a volume on Serenity in Solitude, left joyfully on his first trip to the country. He came back a wreck at the end of a week.

We cannot expect noise-soaked people to transplant, any more than we should expect a kangaroo to live in Pitt-street! First, we must put them through a rigid course of training in padded cells and chloroform.

The only link between city and silence is the Acme Eliminator. It fires out costly batteries, removes crackles, gives purest music, and renders life harmonious.

If the Federal Government understood the blessings of the Acme Eliminator, they would order it by the hundred thousand, from the New System Distributors, 280 Castlereagh Street, Sydney.

Then the vast open spaces of Australia would be peopled by happy settlers, defying the silence with radio sweetness, and hugging to themselves the multitude feeling, which comes with the soft voice of the wireless announcer.

It is the sole way of Salvation!

BRIEF BIOGRAPHS.

- 8.13 p.m.—To-day is the anniversary of the birth of THOMAS GAINSBOROUGH (born in 1727), portrait and landscape painter, and one of the greatest of English masters.
- 8.14 p.m.—Birthday greetings and programme announcements.
- THE FAMOUS ENGLISH HUMPHREY BISHOP MUSICAL COMEDY COMPANY.
- 8.15 p.m.—Overture featuring FRANK EGAN (violinist), TOM HARDIE (cornetist), CHARLES STEWART (drummer), and BETTY BURT (pianist).
- 8.18 p.m.—HUMPHREY BISHOP introduces his company.
- 8.21 p.m.—ALAN KITSON, ELAINE MAYE and THE HUMPHREY BISHOP COMPANY in "Ragtime Ensemble."
- 8.24 p.m.—THELMA TROTT and WALTER KINGSLEY: "Carmena."
- 8.27 p.m.—GEORGE (Scratcher) ROSS in "A Comedy Interlude."
- 8.30 p.m.—ELAINE MAYE and THE GENTLEMEN in "The Old Lake Trail."
- 8.33 p.m.—ARTHUR HEMSLEY & THELMA TROTT: "Light Comedy."
- 8.40 p.m.—MAURICE JAFFEY will sing: "The Land where the Green Shamrock Grows."
- 8.43 p.m.—ALAN KITSON and ELAINE MAYE in "A Rainy Day."
- 8.50 p.m.—ARTHUR HEMSLEY, the Lancashire comedian.
- 9 p.m.—CECILE AUDIBERT and JOHN MONTFORT will sing "A Night in Venice."
- 9.3 p.m.—CHARLES AUBERT AND GWEN WESTON in "Talkers and Tea."
- 9.9 p.m.—WALTER KINGSLEY will sing: "One who has yearned alone" (Tschai-kowsky).
- "Tally Ho" (Frances Loeni).
- 9.15 p.m.—GEORGE (Scratcher) Ross in "Further Scratchings."
- 9.25 p.m.—GRAND OPERATIC EXCERPT: "Les Cloches de Corneville." Featuring THELMA TROTT, JOHN MONTFORT, CHARLES ALBERT, WALTER KINGSLEY and THE CHORUS OF THE HUMPHREY BISHOP COMPANY.
- INTERVAL.
- 9.34 p.m.—ERIC WELCH will speak on "To-morrow's Races."
- THE HUMPHREY BISHOPS HOLD THE MICROPHONE AGAIN.
- 9.50 p.m.—ENTRACTE.
- CHARLES STEWART on his xylophone.
- 9.55 p.m.—CHARLES ALBERT in "Light Comedy."
- 9.59 p.m.—THE FEMINA QUARTETTE, featuring THELMA TROTT, CECILIE AUDIBERT, GWEN WESTON and ELAINE MAYE in "Mississippi Ripples."
- "So is your old lady."
- 10.6 p.m.—JOHN MONTFORT will sing "Forgive me."
- 10.9 p.m.—GEORGE (Scratcher) ROSS and ELAINE MAYE in "A Comedy Sketch."
- Suis IIIA LLOGL VWIEHL—w'd 02'01
- "O, Lovely Night."
- 10.23 p.m.—GEORGE ROSS and his SOUTHERN GIRLS.
- 10.26 p.m.—GRAND FINALE — OPERA versus JAZZ.
- Trio from "Faust." Thelma Trott, John Montfort and Walter Kingsley.
- Jazz Chorus. THE CHORUS OF THE HUMPHREY BISHOP COMPANY.
- NEWS SESSION.
- 10.32 p.m.—"Argus" news service. Meteorological information. British official wireless news from Rugby. Road notes supplied by the Royal Automobile Club of Victoria. Announcements.

The Royal Automobile Club of Victoria's SAFETY MESSAGE for to-day is: "The man who takes chances with his own safety gambles with the future happiness of his wife and children."

MIRTH AND SYNCOPATION.

- 10.44 p.m.—RUPERT HAZELL AND ELSIE DAY: "Harmonylarity."
- 10.57 p.m.—OUR GREAT THOUGHT: FORGET YOUR ENEMIES. Most active men have a few enemies. They are not pleasant to think of. They stick in the mind as burrs stick to your trousers. Better scrape them off. FORGET YOUR LIMITATIONS. Do this once in a while, anyway, just for the excitement of it. Concentrate on your opportunities and your responsibilities. Forget what you have done and think about what you MIGHT do.
- MAY I HAVE THE PLEASURE.
- 10.58 p.m.—THE VAGABONDS.

Saturday, May 12 2FC, SYDNEY.

EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and announcements.
- 7.5 a.m.—Studio music.
- 7.20 a.m.—Country Session: Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
- 7.25 a.m.—Investment market, mining share market, metal quotations.
- 7.35 a.m.—Wool sales, breadstuffs markets, Interstate markets, produce markets.
- 7.45 a.m.—"Sydney Morning Herald" summary.
- 7.50 a.m.—Studio music.

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 Mr. G. J. Lockley ("Redgum").

MIDDAY SESSION.

- 12 noon.—"Big Ben" and announcements.
- 12.2 p.m.—Stock Exchange.
- 12.3 p.m.—Studio music.
- 12.10 p.m.—"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.
- 1.15 p.m.—Studio music.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.
- 3.5 p.m.—The "Smart Set" Instrumental Trio: (a) "Dew, dew, dewy Day" (Sherman). (b) "The Blue Room" (Rodgers). (c) "Hungarian Dance" (Brahms).
- 3.18 p.m.—Frank Chapman, comedian: "Mamma's Gone Dancing" (Rose).
- 3.25 p.m.—Tom Foggitt, novelty pianist: Popular numbers.
- 3.35 p.m.—Bertha Warren, soubrette.
- 3.43 p.m.—The "Smart Set" Instrumental Trio: (a) "La Cinquantaine" (Gabriel Marie). (b) "Shanghai Dream Man" (Akst). (c) "Broken-hearted Lew" (Pollack).
- 3.54 p.m.—Frank Chapman, comedian: "The Salvage Man" (Herbert Darnley).
- 4.2 p.m.—The "Smart Set" Instrumental Trio: (a) "The Last Hour" (Kramer). (b) "Gavotte Louis XIII." (Ghys). (c) "She is far from the Land" (Lambert). (d) "Once in a Blue Moon" (Lang).
- 4.16 p.m.—Bertha Warren, soubrette.
- 4.24 p.m.—Studio music.
- 4.35 p.m.—Tom Foggitt, novelty pianist: Request numbers.

- 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.
- 6.45 p.m.—Weather intelligence, shipping Stock Exchange and Rugby wireless news.
- 6.50 p.m.—Studio music.
- 7 p.m.—Dinner music.
- 7.25 p.m.—Late sporting information.
- 7.35 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.45 p.m.—Programme announcements.
- 7.50 p.m.—Jack Wright, Novelty Pianist.
- 8.0 p.m.—"Big Ben." James Donnelly, Tenor: "Blue Melodies."
- 8.8 p.m.—Bertha Warren, Soprano: Popular Numbers.
- 8.16 p.m.—The Honolulu Trio: Instrumentalists.
- 8.24 p.m.—W. F. Kay, in continuation of his Theatrical talks, will deal with Harry Rickard.
- 8.40 p.m.—A Radio Revue, arranged by Wally Baynes.
- 9.30 p.m.—The Honolulu Trio: Instrumentalists.
- 9.38 p.m.—James Donnelly, Blue Melodies.
- 9.46 p.m.—Jack Wright, Novelty Pianist.
- 9.56 p.m.—Bertha Warren, Soprano: Popular Numbers.
- 10.0 p.m.—"Big Ben." The Honolulu Trio: Instrumentalists.
- 10.8 p.m.—Bertha Warren, Soubrette Numbers.
- 10.12 p.m.—Harrison White, Banjo Solos.
- 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 Studio: Harrison White, Banjo Solos.
- 10.40 p.m.—The Ambassadors' Dance Orchestra. Conductor, Al Hammet.
- 10.57 p.m.—From the Studio: To-morrow's programme and late news.
- 11.0 p.m.—"Big Ben." The Ambassadors' Dance Orchestra.
- 11.45 p.m.—National Anthem. Close down.

3LO, MELBOURNE.

SATURDAY, 12th MAY, 1928.

EARLY MORNING SESSION.

7.15 to 8.15 a.m.

MORNING SESSION.

- 11.0 a.m.—THE GYPSY PLAYERS: "A Little Dutch Girl" (Kalman).
- 11.10 a.m.—ELSIE DAVIES, Soprano:
- 11.17 a.m.—HELGA BRENNECKE, 'Cello Solo: "Chant Sans Paroles" (Tschai-kowsky).
- 11.24 a.m.—THE GYPSY PLAYERS: "In Holland" (Kriens).
- 11.34 a.m.—GORDON JAMES, Baritone: "O Pure and Tender Star of Eve" (Wagner).
- "Vulcan's Song" (Gounod).
- 11.41 a.m.—THE GYPSY PLAYERS: "Wierner—Vienna Life" (Strauss).
- DOWN TO THE JORDAN.
- 11.53 a.m.—ELSIE DAVIES, Soprano.

MIDDAY NEWS SESSION.

- 12.0 noon.—Melbourne Observatory Time Signal; 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.

THE ORIGINAL "GO-GETTER"

Short Wave Receiver, as described by Don. Knock, in "Radio" for sale. Apply, "Wireless Weekly" Office, 51 Castle-reagh Street, Sydney.

HEBREW MELODIES.

- 12.20 p.m.—THE STATION ORCHESTRA:
"Kol Nidrei" (Max Bruch).
12.30 p.m.—RUPERT HAZELL AND ELSIE DAY:
"Harmonylarity."
12.42 p.m.—Stock Exchange Information.
12.45 p.m.—THE STATION ORCHESTRA:
"Hebrew Melodies."
12.53 p.m.—GORDON JAMES, Baritone:
"The Great Awakening" (A. Kramer).
"Exhortation" (W. M. Cook).
1.0 p.m.—Melbourne Observatory Time Signal.
1.1 p.m.—THE GYPSY PLAYERS:
"Swing Low, Sweet Chariot."
1.8 p.m.—Meteorological Information; Weather Report and Rainfall for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecasts; River Reports.

PIANOFORTE RECITAL.

- 1.15 p.m.—HENRI PENN:
"Berceuse" (Palmgren).
"Romance" (Sapelnikoff).
"Romance" (Gounfeld).
"Lillies of the Valley" (Poldini).
1.30 p.m.—FRANK AND FRANCIS LUIZ:
In a selection of request items from their Hawaiian Repertoire.
1.35 p.m.—Description of BASEBALL, Melbourne v. Richmond, at the Melbourne Cricket Ground, by PERCY STEEL.
1.45 p.m.—THE STATION ORCHESTRA:
"Dance of the Serpents" (Bocogli).
1.55 p.m.—Description of BASEBALL, Melbourne v. Richmond, at the Melbourne Cricket Ground, by PERCY STEEL.
AFTERNOON SESSION.

- 2.12 p.m.—Description of Sandown Plate, 6 furlongs, from SANDOWN PARK RACES, by ERIC WELCH.
2.20 p.m.—JOHNSTON'S STUDIO BOYS:
Selection, "Waltzes."
2.30 p.m.—Description of BASEBALL, Melbourne v. Richmond, at Melbourne Cricket Ground, by PERCY STEEL.
2.40 p.m.—Announcements.
2.42 p.m.—Description of Sandown Purse, 1 mile, SANDOWN PARK RACES, by ERIC WELCH.
2.50 p.m.—Description of LEAGUE FOOTBALL MATCH, Melbourne v. Richmond, at M.C.C., by ROD MCGREGOR.
3.0 p.m.—Description of HEAD OF RIVER Grand Public School Championships, FINAL rowed on the Henley Course.
3.12 p.m.—Description of Brush Steeple, about 2¼ miles, SANDOWN PARK RACES, by ERIC WELCH.
3.20 p.m.—Description of LEAGUE FOOTBALL MATCH, Melbourne v. Richmond, at M.C.C., by ROD MCGREGOR.
3.42 p.m.—Description of SANDOWN PARK HANDICAP, 1¼ miles, SANDOWN PARK RACES, by ERIC WELCH.
3.50 p.m.—Results of League and Association Football Matches, quarter time.
3.51 p.m.—Description of LEAGUE FOOTBALL MATCH, Melbourne v. Richmond, at M.C.C., by ROD MCGREGOR.
4.5 p.m.—JOHNSTON'S STUDIO BOYS:
Selection, "Foxtrots."
4.12 p.m.—Description of Trial Welter Handicap, 6 furlongs, SANDOWN PARK RACES, by ERIC WELCH.
4.20 p.m.—Results of ASSOCIATION and LEAGUE FOOTBALL, half time.
4.21 p.m.—JOHNSTON'S STUDIO BOYS:
Selection, "Duets."
4.30 p.m.—Description of LEAGUE FOOTBALL MATCH, Melbourne v. Richmond, at M.C.C., by ROD MCGREGOR.
4.42 p.m.—Description of Jumper's Flat Race, SANDOWN PARK RACES, by ERIC WELCH.
4.50 p.m.—JOHNSTON'S STUDIO BOYS:
Selection, "Comic Opera."
5.15 p.m.—"Herald" News Service; Stock Exchange Information.
5.25 p.m.—Close Down.

EVENING SESSION.

- 5.50 p.m.—Final Scores of League and Association Football Matches; Sporting Results.
6.0 p.m.—Answers to Letters and Birthday Greetings by "LITTLE MISS KOOKABURRA."
6.20 p.m.—DICKSON GREGORY:
The first ocean steamer built of steel—the "Rotomahana."
6.35 p.m.—Musical Interlude.

6.40 p.m.—"LITTLE MISS KOOKABURRA":
"A fairy story of a little Princess and her cottage in the wood."

NEWS AND MARKET REPORTS.

- 7.0 p.m.—Sporting Results.
7.12 p.m.—Stock Exchange Information.
7.20 p.m.—Market Reports by the Victorian Producers' Co-operative Co., Ltd.; Poultry, Grain, Hay, Straw, Jute, Dairy Produce.
NIGHT SESSION.
7.30 p.m.—FREDERICK CHAPMAN, A.L.S., F.G.S., Palaeontologist, of the National Museum,
"Boring into a Coral Island."
7.45 p.m.—DR. J. A. LEACH:
"Australian Grass Parrots."

OUT OF THE PAST.

- 8.0 p.m.—On the 12th May, 1915, Windhoek was occupied by General Botha.
8.1 p.m.—Birthday Greetings and Programme Announcements.

PROMINENT PERSONALITIES.

- 8.2 p.m.—FLORENCE NIGHTINGALE, born 1820-1910. Popularly known as "The Lady of the Lamp," but the following extract from her writings gives an excellent example of the woman who laid the Foundation of the present methods of Hospital organisation in British Countries:
"How can a woman become a superintendent unless she has learnt to superintend herself."

- 8.3 p.m.—THE 32nd BATTALION BAND, Winners of the 3rd Military District Band Contest.

Presentation of the 3LO Cup by Colonel C. V. Watson, D.S.O., V.D.

- 8.7 p.m.—THE 32nd BATTALION BAND:
March, "Carnival King" (Rimmer).

- 8.13 p.m.—ELSIE DAVIES, Soprano:
"Mia Piccerella" (Gomez).
"Serenata" (Tosti).

- 8.20 p.m.—THE 32nd BATTALION BAND:
Waltz, "Will-o-the-Wisp."

PIANOFORTE RECITAL.

- 8.27 p.m.—HENRI PENN:

"Scherzo No. 2" (Chopin).

"Rhapsody No. 8" (Liszt).

- 8.42 p.m.—THE 32nd BATTALION BAND:
Cornet Duet, "Ida and Dot" (Losey).
Bandsmen, E. Dill and M. Windsor.

FROM THE STADIUM.

- 8.50 p.m.—Description of To-night's Stadium Event, by ERIC WELCH.

FROM THE STUDIO.

- 10.30 p.m.—THE 32nd BATTALION BAND:
Selection, "Poetic Fancies" (Lamont).
Poetic Fancies is the winning selection with which the 32nd Battalion Band won the test piece at the 3rd Military District Sports on April 14.

- 10.40 p.m.—RUPERT HAZELL AND ELSIE DAY:
"Harmonylarity."

- 10.50 p.m.—OLIVER PEACOCK, Baritone:
"Just an Ivy Covered Shack" (Rupp).

SPORTING RESULTS.

Late Sporting Results.

ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY IS:

"A wise man does not need to have a close shave to learn the value of safety."

- 11.0 p.m.—OUR GREAT THOUGHT:

"Be cheerful; do not brood over fond hopes unrealised, until a chain, link after link, is fastened on each thought and wound round the heart. Nature intended you to be the fountain-spring of cheerfulness and social life, and not the travelling monument of despair and melancholy."

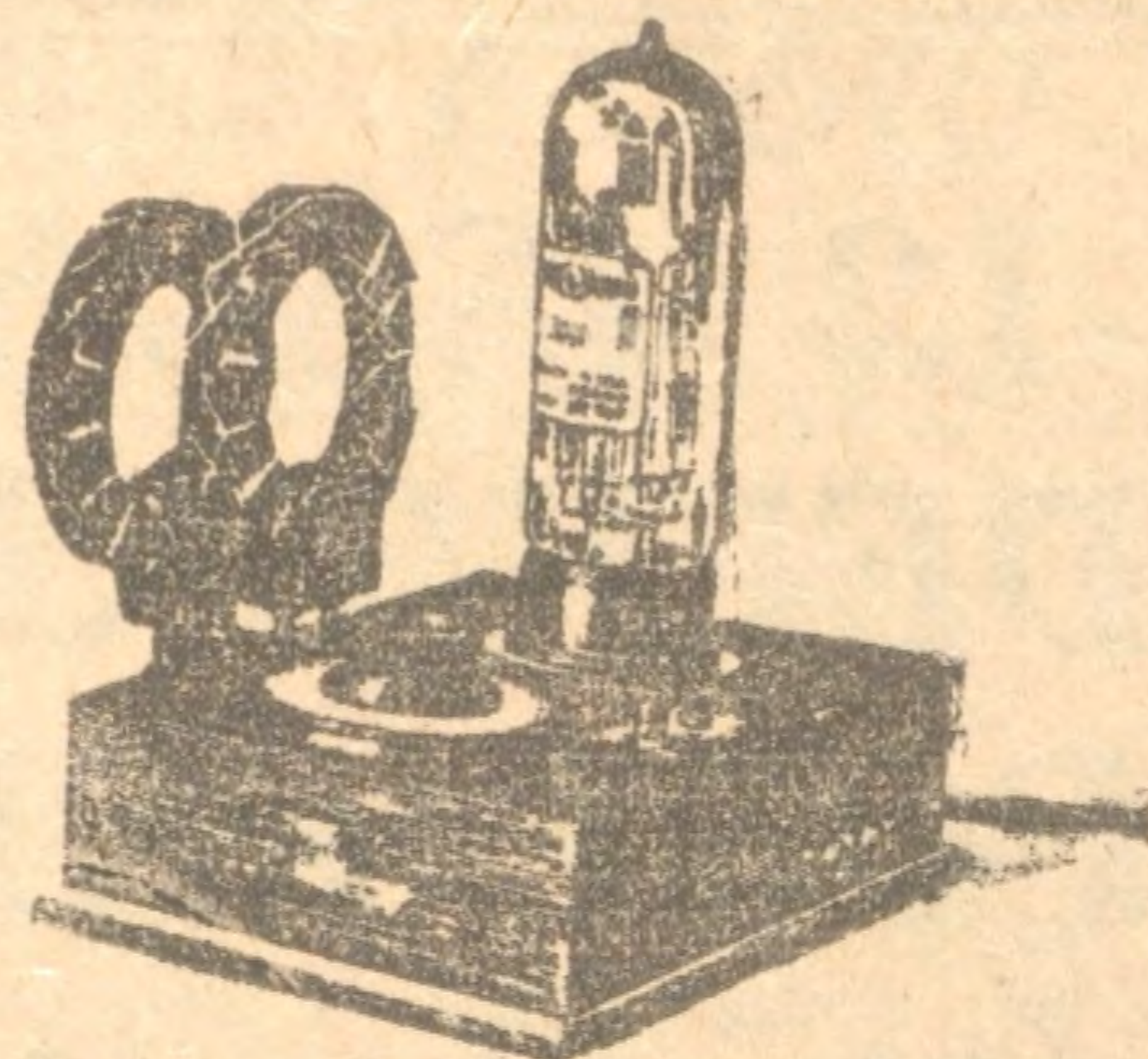
—ARTHUR HELPS.

DANCE MUSIC.

- 11.1 p.m.—THE VAGABONDS (Olive Peacock will sing):

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MADAME EMILY MARKS who has installed apparatus similar to that used in broadcasting studios will tell you free of charge. Microphone instruction is a necessary factor to the good broadcasting artist, and a free air test will be given by MADAME EMILY MARKS at 169 Strand Arcade, (fifth floor), 'phone M3790, (private 'phone FL2340.) Broadcasting instruction at moderate fees, prospectus on application. MADAME EMILY MARKS is one of 2FC's principal sopranos, and many of her students have been placed with the broadcasting studios.

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BUT A NECESSITY OF LIFE

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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

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What Every Listener Should Know

FOR A SMALL soldering job such as joining two twisted wires together, it is advisable to heat the joint well first, as the solder will then run through the joint and make a solid connection.

GOLD CRAYON rubbed into the engravings of your panel gives an excellent finish. Enough should be rubbed into the scratch to make a clear marking, the remainder being rubbed off carefully.

TINFOIL SHEETS may be used for shielding purposes, but care should be taken that the condenser shafts and other components do not come into contact with the shield. Holes should be cut in the tinfoil, so that nothing can possibly touch it but the earth terminal to which it is eventually attached.

ONLY a few years ago, transformers were made with ratios as high as 20:1. The better makes of transformers of to-day now have ratios of two or three to one, or even less. The idea in those days was volume, undistorted or not—now tone consistent with good volume is the order. In the same manner, six valve amplifiers used to be the rage. Two valves are now considered ample.

YOUR PORTABLE set (unless it be really portable) becomes a nuisance when heavy accumulators or dry "A" batteries have to be carried about in addition to the "B" batteries. The man who has a car, however, can utilise the accumulator the car carries for ignition purposes, thus saving a lot of bother. Each cell gives approximately two volts, and the battery should therefore be tapped for the number of volts required.

BACKLASH is that curious property of some sets to continue oscillating for a much greater movement of the coils when they are being opened than when they are being closed. This is a great drawback in tuning. Suppose one is just bringing the station to full strength by bringing the coils close together, and it is found that the set suddenly oscillates. In order to stop the oscillation it should be possible to part the coils by an amount equal to that by which they were just closed, but backlash presents this simple remedy, and one has to open the coils wide apart again, with the result that much time is lost and complete retuning becomes necessary. Too large reaction coil will cause backlash—and the only remedy is to remove some of the turns.

NEVER USE ammonia for cleaning accumulators. If ammonia should get inside the battery it will be good (for the battery man) and expense for yourself. Water and a good clean rag should be used.

IN LIEU of an aerial, the wire mattress of your bed may be used to advantage. The aerial lead should be soldered on to the wire mattress, and the four posts of the bed should stand upon pieces of ebonite.

WHEN USING a B battery eliminator, the earth from the set should be connected through a fixed condenser to earth in order that the line fuses will not be blown. The condenser should have a capacity of about $\frac{1}{2}$ mfd.

IF transformers of too high ratio are used, distortion will result. If possible transformers of the same make should always be used when building a set, as some manufacturers wind these instruments in different directions, thus causing oscillation as soon as the audio stages are turned on by means of the rheostat. The remedy for this is to reverse the leads on one of the transformers, taking the plate lead to B plus, and vice versa.

OLD GRAMOPHONE records make excellent insulating brackets and the like. They also have the advantage of being shaped to the desire of the experimenter, by soaking in warm water till soft. When shaped and cooled, the bracket or panel will be quite solid. The circular records used on the old-fashioned Edison machine also make excellent formers for your coils. Holes may easily be pierced in them for wires by means of a hot piece of round bus-wire.

SCIENTISTS have advanced the theory that daylight reception does not equal that of night owing to the expansion during the daytime of the heavyside layer. Ether waves would then, in the daytime, have a greater distance to travel before being reflected back to earth, and more power would be necessary owing to the power that would be spent by the time the signals reached a receiver. In the nighttime, the heavyside layer contracts, and the ether waves have not so far to travel before they are reflected back. It is quite likely that this also has a lot to do with fading.

UNLESS otherwise stated, valves of the same make and characteristics should be used in a set, for valves of various makes require critical voltage adjustment.

THE PLACING of a fairly high capacity fixed condenser across the telephone or loud-speaker terminals helps to improve tone. A fixed condenser in the aerial lead helps selectivity.

A BROADCAST receiver cannot be used for short-wave reception unless a special adapter is used. This adapter is plugged into the detector socket of the set, thus using audio stages only. If the receiver has one or more R.F. stages these valves must be removed.

TO PROVE that a condenser can be charged, and will hold a charge, connect one side of a pair of telephones to one side of a dry battery, and the other side of the 'phones to one side of the condenser. Now put the earphones on and touch the condenser with a lead from the remaining side of the battery. A loud click will be heard, and if the lead is removed and replaced several times, the clicks will become weaker as the condenser becomes charged. If clicks are heard at the same strength each time the connection is made—you will know that your condenser is short circuited. By connecting the charged condenser across a voltmeter, a sharp movement of the needle will be noticed as the condenser discharges.

A SHORT aerial helps to improve selectivity. A long aerial will give greater volume on local stations. An aerial should be ten times as long as it is high for best reception on local stations. A counterpoise when used in the place of an earth gives greater selectivity with less static and interference, but volume is slightly decreased. A ground aerial functions in the same manner. Loop aeriels have directional effects, and though volume is slightly decreased there is less trouble on interstate reception when the receiver is situated near a local station. The best aerial for interstate and local reception should be 35 feet high and not more than 60 feet long. Indoor aeriels are poor as a rule, since though they are of a necessity short, and thus selective, they cannot be put to any great height, and insulation needs great care. Also lighting and other electrical installations in the house may interfere with reception.

Readers' Queries Answered Here

G.R. (NEWCASTLE).—As I have explained to other correspondents, the correction for the Harkness Reflex diagrams appeared in the last issue of "W.W."

F.E. (SYDNEY).—The reason why you can tune in RFN and Java as easy as 2FC on the short waves and yet miss inter-State and New Zealand Amateurs is because of the effect described as "Skip" distance. Using wavelengths between 0 to 50 metres after nightfall you will find that stations within a radius of 200 miles are usually inaudible. This range varies considerably, and at the present time certain N.S.W. amateurs are compiling a graph showing the blind spots at relative distances from Sydney, after nightfall. The "skip" distance effect is better described as "high angle reflection." This will probably convey more meaning to you.

The circuit for the Harkness Reflex Two which you have submitted will be quite in order for use with a Pentatron valve.

C.O.R. (WAVERLEY).: If you make the necessary alteration to your one valve short wave receiver, described in "W.W." for the 8/7/27 will be suitable for use as a short wave adaptor. I recommend for use with the "screened Five"; audio transformers of 5 to 1 and $3\frac{1}{2}$ to 1 ratio respectively. For the loud speaker control unit, the secondary of an ordinary inter-valve transformer may be used in place of the choke specified.

C.K. (AUBURN): The Radiokes Three Coil tuner will be suitable instead of Radiokes Reinartz tuner for the "City Man's Four" but it will be necessary to keep the regeneration coil fixed in position. If this were used variable, it would seriously effect the constant reaction method of regeneration control, which is the outstanding feature of this receiver. You may use this three coil tuner by connecting together one end of the grid coil and regeneration coil and taking the filament tapping from these two.

G.W. (MURGON): It would be a distinct disadvantage to arrange the reaction coil for your short wave receiver so that it is variable. Oscillation control on wavelengths as low as 20 metres makes tuning almost impossible by this method. I do not recommend the use of 12 gauge enamelled wire on a $2\frac{1}{2}$ inch former, for the construction of a coil to cover the broadcast band. The resulting coil would be very bulky and no improvement over a coil wound with finer gauge wire. An ordinary gramophone record is suitable for normal insulating purposes.

T.W.H. (GORDON): The best book you can obtain in order to study for the Amateur Operators certificate is "The Radio Amateurs Handbook" published by the ARRL and obtainable from Swains Ltd., Pitt St. Sydney. The valves recommended for use with the Marco special, are R.F. and detector, TKD, VT126 (combination valve). The audio valve may be any good 4 volt valve such as the Phillips A415, or Osram DEL410.

D.W. (STOCKTON): You will probably have to build your own short wave oscillator for use with your Super Het. This could conveniently be made in the form of an autodyne detector. A short wave adaptor may be used by plugging into the first detector socket. The probable cause of the trouble with your Browning Drake is that your R.F. stage is oscillating; otherwise, not neutralised. Try substituting different valves, and re-neutralising.

D.G.C. (WILLOUGHBY): If you are unable to tune above the wavelength of 2FC with your Selectrex Four, this means that the capacity of your tuning condensers, could conveniently be higher. Instead of taking your existing 00035 condensers out of the set, connect across both of them a small fixed condenser of 0001 mfd. capacity. This will have the effect of increasing the capacity of your tuning condensers, thereby increasing your wavelength range.

T.E.W. (DULWICH HILL): It is obvious from your description that your 12 to 600 metre receiver is oscillating perfectly. The dead spots you notice are due to resonance with harmonics of the aerial system and have the effect of preventing oscillation at these particular positions. This may be overcome, by

loosely coupling the aerial coil until oscillation recommences. Alternatively, you may try the inclusion of a small midget variable condenser in the aerial lead, the position of this condenser should be varied until oscillation starts again when tuning may be continued.

C.V.J. (KOGARAH): Apparently, you have a faulty .25 meg. resistance in use with your Purimax Three. Try substituting this for others which are known to be in order when your trouble should immediately disappear.

H.H. (ROSE BAY): You may use three stages of resistance capacity coupling with your 12 to 600 metre receiver if you desire, but you may expect the volume to be slightly less than transformer coupling.

A.E.B. (MARRICKVILLE): It is quite a simple matter to add extra audio amplification to your Harkness Reflex Three. I do not recommend more than one stage, and this should preferably be impedance coupled. The amplification may be effected by continuing from the output now in use, and wiring the filament circuit in shunt with the existing filament circuit of the receiver.

Mrs. W.J.R. (REDFERN): The best advice I can give you regarding the addition of a stage of radio frequency amplification to your Reinartz Three is to look up details of the Marco Four, which you will find in "W.W." for Nov. 4th 1927. The Marco is simply a Reinartz receiver with a stage of R.F. added.

A.A. (WYONG): If your Marco Four works properly, with only one stage of audio, and a high frequency whistle is prominent on the second audio, it is possible that you are suffering from inter-coupling between your inter-valve transformers. Make sure that the transformers are mounted at right angles to each other, and well spaced. Also, look to the grid biasing. Sometimes, a variable resistance across the secondary of the second transformer is helpful.



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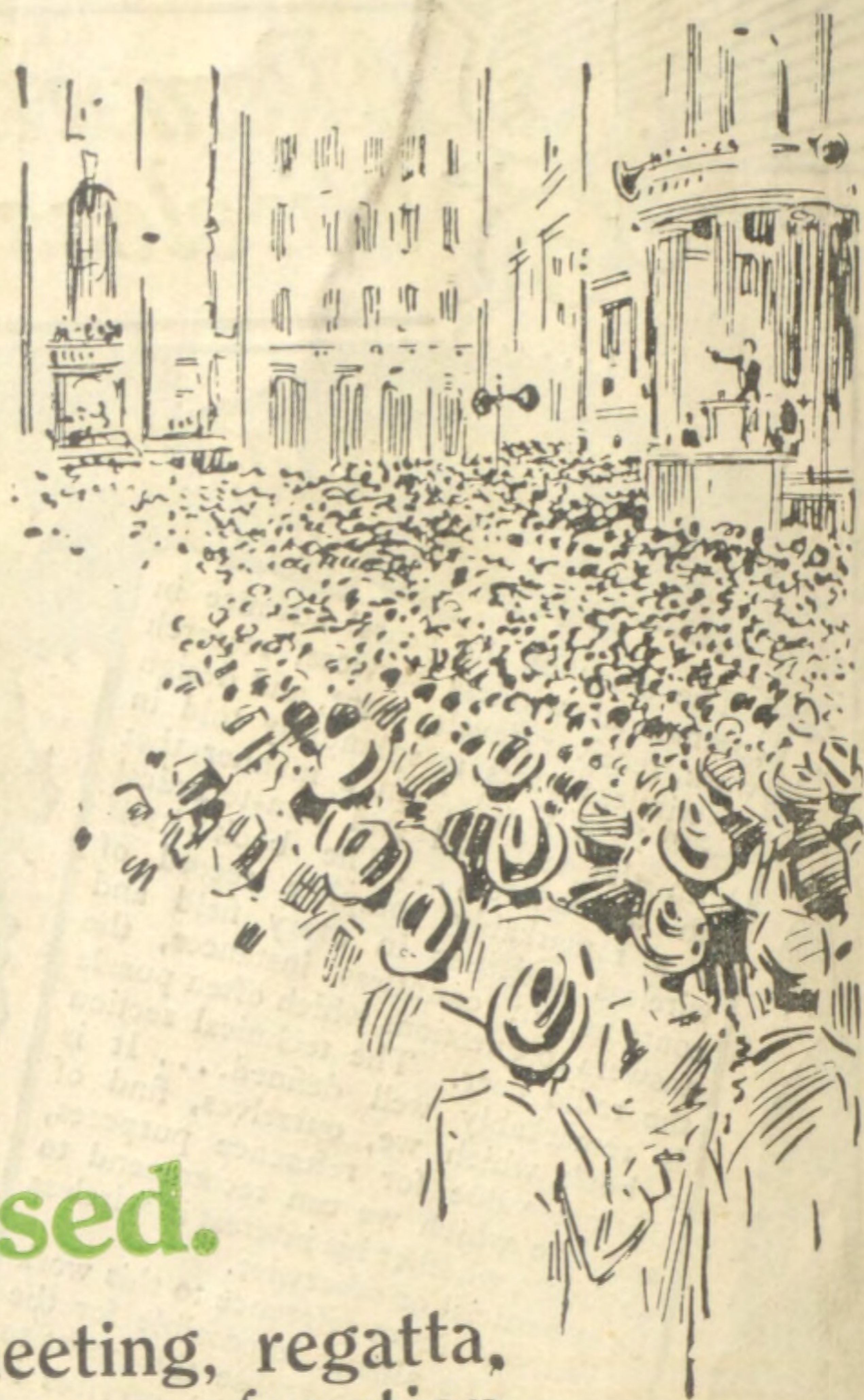


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