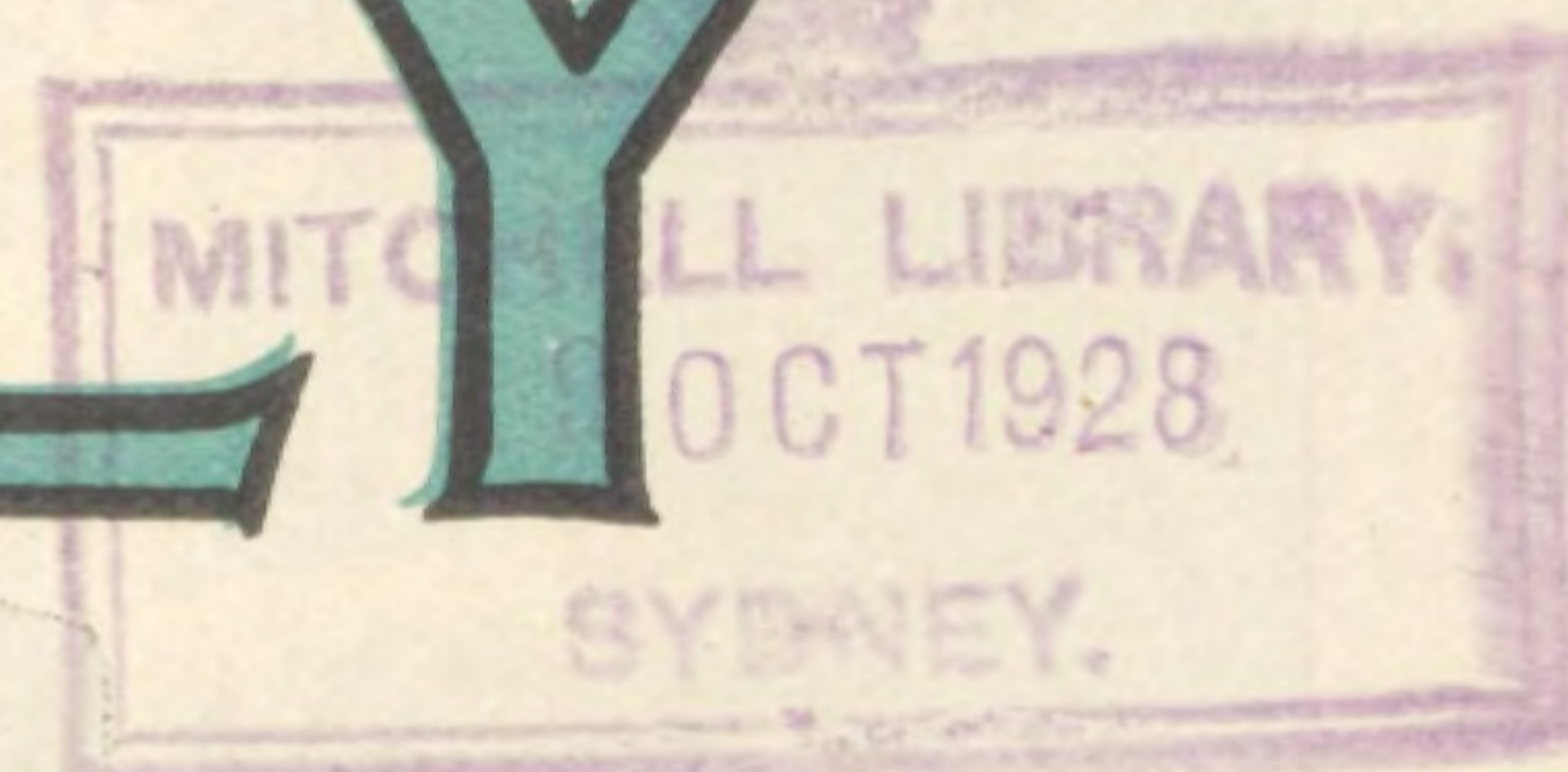


WIRELESS WEEKLY



Broadcast Programmes a Week in advance

VOLUME 12

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

NUMBER 26



Friday, October 19, 1928 Price Threepence



PHILIPS "372" POWER UNIT

THERE are more Philips 372 Power Units in use in Australia to-day than any other make or type. What greater proof of their worth could be given.

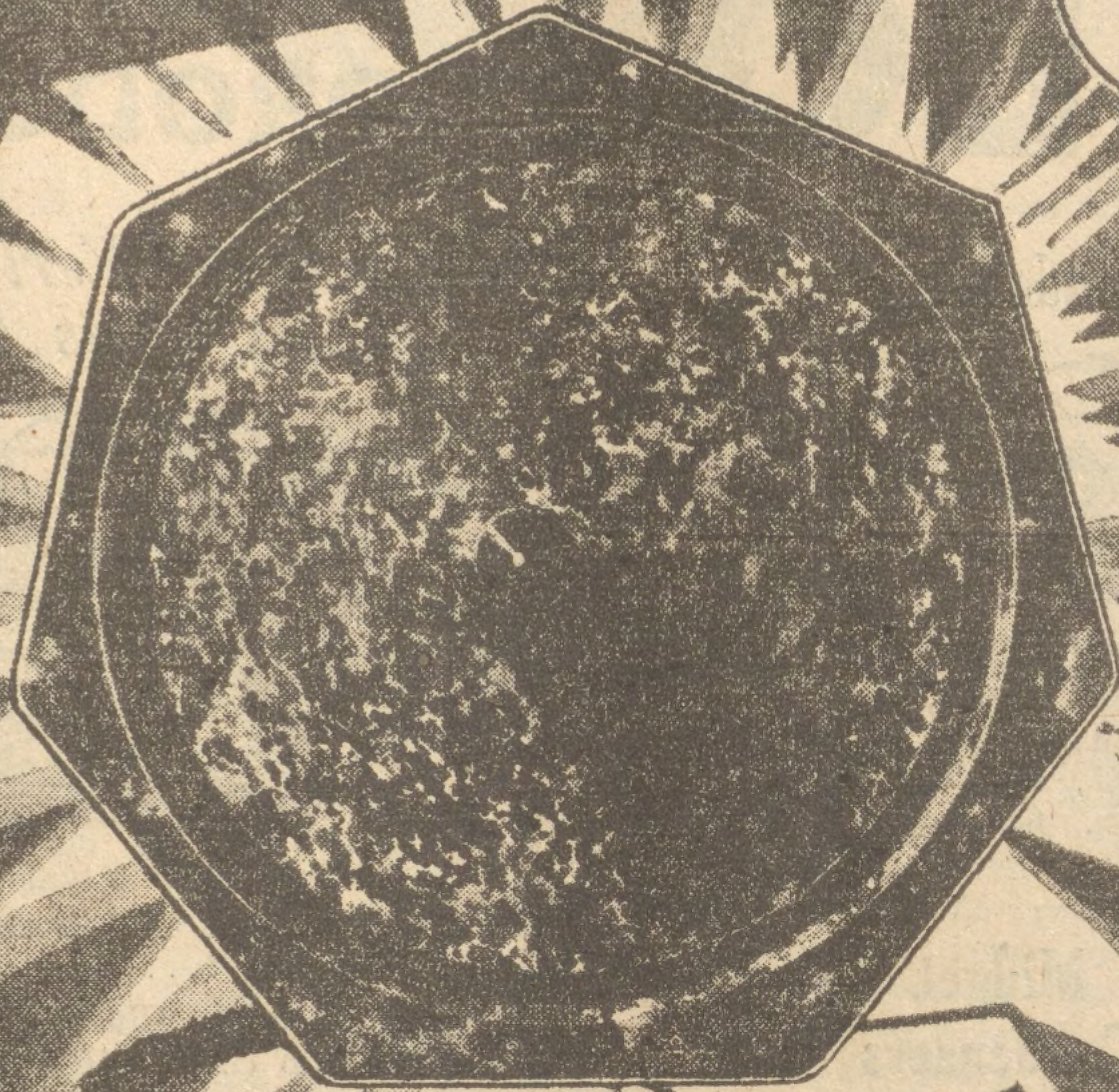
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Ask your dealer how you may end the "B" Battery problem for £7/15/-

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Philips Baby Grand Loudspeaker

MUSIC that leaps and LIVES,
freedom—Music that is unbounded
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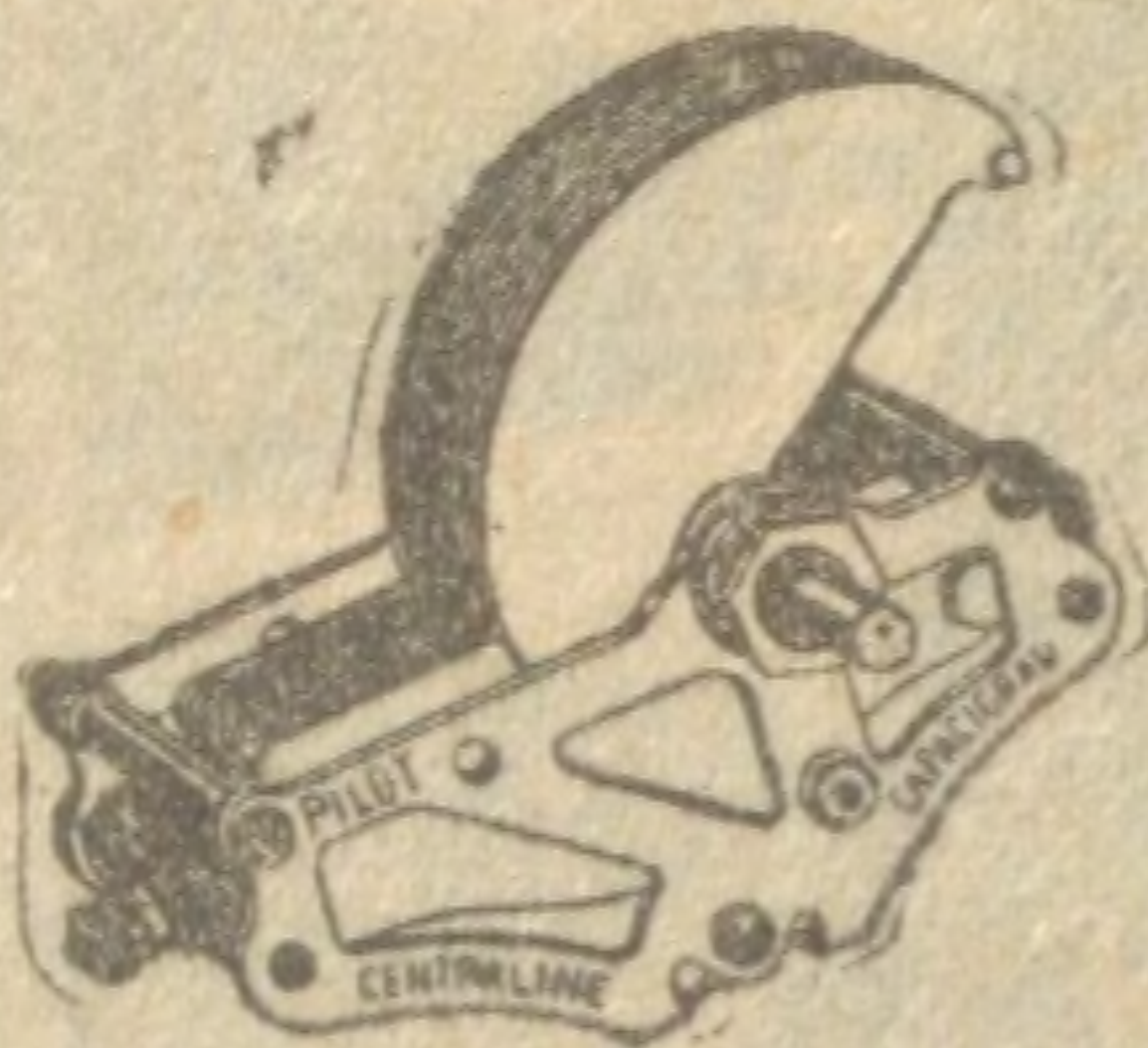
PHILIPS

LOUDSPEAKERS

The 1929 type

PILOT RADIO PRODUCTS

Variable Condensers



No. 1623—.00050 mfd., 23-plate, 14/6
 No. 1617—.00035 mfd., 17-plate, 13/6
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 Condenser Couplings, for Ganging
 together 2/6



Midget Condensers

No. J7, Midget.
 7-plate 5/6
 No. J13, Midget.
 13-plate 6/6

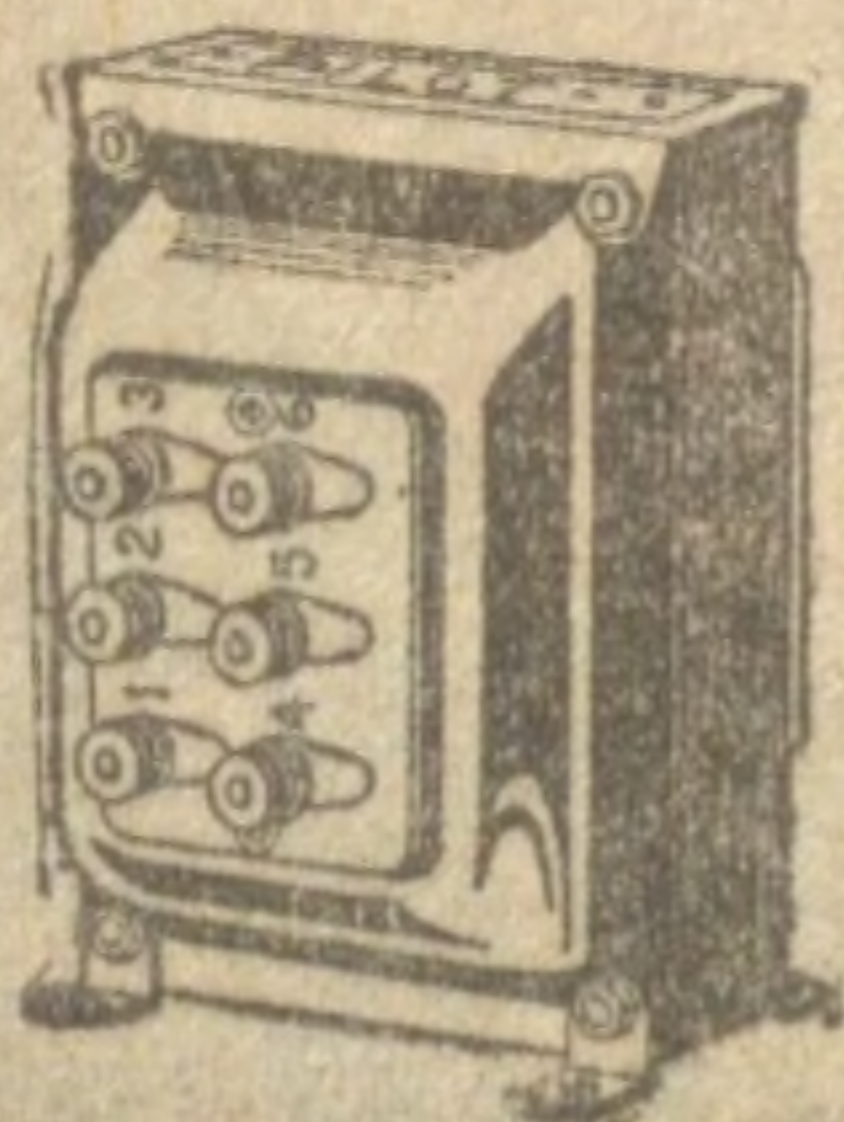
Pilot Micrograd

No. V.M. 80.
 2-plate 5/-

No. V.M. 81.
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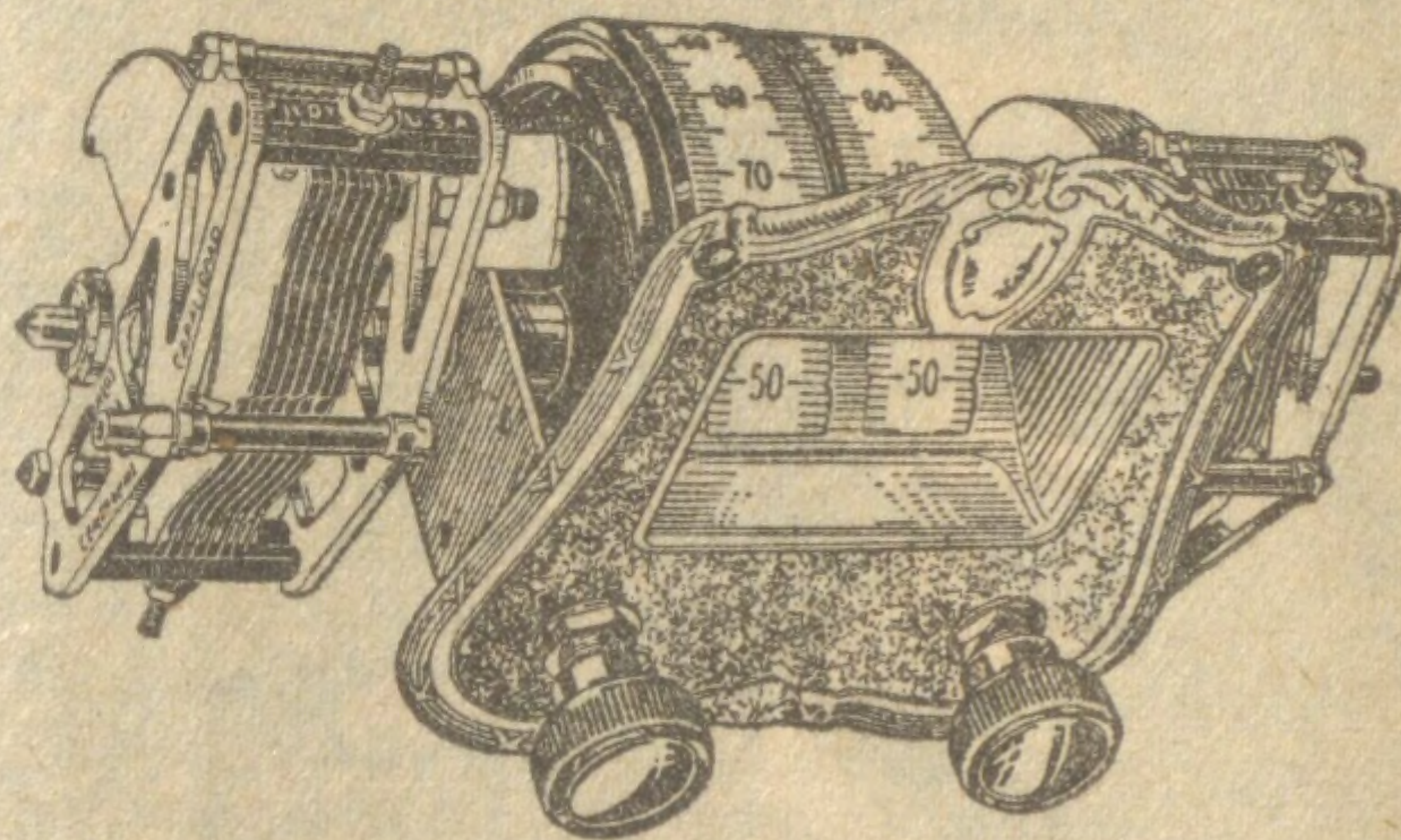


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No. 388. — A.C.
 Tube Filament
 Lighting Trans-
 former, for A.C.
 Sets, 220-240 V.,
 50 to 60 cycles,
 £2/12/6.

Products of the World's greatest Radio Parts Plant



No. 1284L—Single Illuminated Drum Con-
 trols, with bulb £1/2/6

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 trol, with bulb (illustrated) £1/19/6

Pilot Vernier Art Dials

No. 1278—Black.

No. 1279—Walnut.
 7/6 each.



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Harringtons LTD

"Goodwill built on Public Confidence since 1889."

Retail Radio Dept. and Showrooms:

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Also at Katoomba, Newcastle, Melbourne, Brisbane,
 Adelaide, Hobart (Tas.), Auckland (N.Z.),
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WIRELESS WEEKLY

Vol. 12, No. 26.

FRIDAY, 19th OCTOBER, 1924.

British Radio Products

THE National Radio Exhibition of Great Britain closed on Sept. 29 after a week's showing.

The literature and reviews of the Exhibition which are just arriving here indicate that a very wide range of precision products is being manufactured in Great Britain. Only the best American products, so popular here, can equal the standard of efficiency set by these manufacturers.

It seems that at last that through intensive self criticism poor quality radio apparatus has been eliminated from the British market. We see fine condensers, transformers, and vernier dials of sound mechanical construction, which not only execute the work for which they are made, but please the eye in their design and general appearance—an unusual thing in the past for British work. We see large ranges of special purpose valves and remarkable advances in loud speaker design.

It seems certain that Great Britain is to-day manufacturing as good, if not better, radio products than any other nation. But where are these products in Australia? We have a few notable lines which are greatly in demand, but not anything like a tenth of all the best quality material produced by Great Britain is seen here in any quantity. Surely it points to some fault in the marketing organisation of the British manufacturer. He has the advantage of tariffs and public preference, but yet he does not seem to be as popular as he should.

In the marketing of complete receivers, of course, the British manu-

facturer is under a handicap. A complete receiver made in America is much more suitable for Australian conditions than the receiver made in England. It is not often that a British receiver is designed for the long range performance which is a necessary feature of the Australian receiver. The popular receiver in England is the two or three valve set which brings in the principal English stations and perhaps one or two foreign stations all within a couple of hundred miles. The popular American receiver is generally built for coast to coast performance necessitating a thousand mile range performance, and, therefore, more suitable to the long range conditions of Australia. In appearance, too, the British receiver does not seem to be up to the standard of the American, particularly in Console models. The American cabinet and band-box receiver is always attractive.

Perhaps it is this handicap—the failure of the British manufacturer to meet Australian requirements in the complete or standard receiver—which has restricted the sale of the very excellent British component parts. Many people must think that because the British set is not as suitable as an American set for Australian conditions that there must be something inferior in the component parts. This, of course, is wrong; the difference lies in the chosen circuit, but it is hard to make the inexperienced radio purchaser understand this.

Catching Up with the Wireless World.

By R. E. CORDER.



A LISTENER TO 2BL resigns himself to martyred silence—but does a civil growl in between times: “Just to congratulate you on your transmissions, but I am seriously handicapped in one respect. Right up against our fence is a tramway substation, in which are two rotary converters (11,000 volts AC to 600 DC), transformers and other sources of leakage. Some nights the interference is appalling. I am afraid nothing can be done to rectify matters, so I will have to suffer in silence.” All those who have statics will understand what “suffering in silence” means.

F.R. WRITES TO 2BL:—“I have just overhauled and returned to my son, who is way back up country, a set which would not ‘gee,’ and the experience is worth putting over the air. I found the cause of the trouble to be the remains of a big spider. Any listener owning a set having openings for valves should see that those openings are somehow made insect proof, especially where the mason bee abounds. He is a kind of wasp and has a playful way of building cold-storage rooms out of wet clay. Into these chambers he places paralysed spiders, and the young wasp is thus provided with fresh meat until able to shift for himself. It seems to be a diabolical arrangement—and it is certainly disastrous to successful wireless reception!”

IT IS AN UNDISPUTED fact that the easiest way to man’s goodfellowship is per medium of the gentle culinary art, although, of course, he is the last to acknowledge it. The cooking recipes given by Miss Ruth Furst are a feature of 2FC’s programme, whose popularity never diminishes. One disgruntled member was known to remark one morning, in the middle of an intriguing discourse on a certain cake: “I wonder if anybody listens to this stuff!” The recipe ended, the session closed, and immediately telephone bells began ringing violently. “How many eggs in the cake?” “You forgot to say how many eggs!” Excited housewives kept the telephonist busy for many minutes, and left no doubt in the mind of the sceptical listener as to whether Miss Furst’s recipes were appreciated.

OUR COVER PICTURE this week shows the Broadcasting Press Box at Eandwick. The occasion on which the photograph was taken was the timing of the morning gallops. Mr. Ferry can be seen standing in front of the microphone with the binoculars to his eyes, just behind him is Mr. Burbury, chief engineer of 2FC. Various other broadcasting officials and members of the press are also seen.

THE BROADCASTING of race results and talks by Mr. Ferry has become one of the most important features in the programmes of the New South Wales Broadcasting Co., Ltd. Mr. Ferry is one of the best known sporting journalists in the State, and devotes his time exclusively to the collection of information for 2FC. His handling of the recent carnival brought forth hundreds of congratulatory letters from listeners in all over the States and New Zealand. The technical work behind the race-course broadcasts also requires a great deal of attention and forethought.

THE FAMILY SAID.

(By “Mintie”)

Mother said so dreamily,
“The Old Time Nights, you know,
I think I love them best of all,
From Station 3LO.”

Father said determinedly,
“Ah, yes, I think they’re fine;
But when it comes to choosing,
mum,
The Wrestling is for mine.”

Blushing Bess with sparkling ring,
A little bride-to-be,
Whispered in her lover’s ear,
“The Cooking talks do me.”

Flapper Flo then sauntered in,
Gave Mother’s hand a squeeze;
“Ah, if you’re talking radio,
The Radi-O-Aces, please.”

And then the pet of all the house
Said, “All you folk are funny,
You’ve never mentioned one I love,
That’s dear old Billy Bunny.”

ALL THE CHILDREN like Auntie Gwen, of 2FC. The liking is reciprocated, too, for Auntie Gwen says she enjoys every little minute she spends with the kiddies. Few, however, know that the nom-de-plume “Auntie Gwen” hides the personality of one of the most busy persons on 2FC’s staff.

A LARGE gathering of the friends and members of the 2BL Women’s Amateur Sports Association entertained Mrs. Dorothy Jordan at afternoon tea, at David Jones’, on Wednesday. The tables were decorated with pink carnations and roses. Mrs. L. T. Norton presided, and during the afternoon presented Mrs. Jordan (on behalf of the members) with a green calf Morocco handbag, in which was the nucleus of a thrift account.

THE BIG wheat lands in the north and north-west are parched. Not a drop of rain for seven weeks, and many of the farmers in the Moree and Inverell district scan the horizon morning and night with great concern. Numbers of them have radio, and those who have not, eagerly go to those who have, for news from the city “Rain-maker.” A retired signaller two years ago installed a set in his son’s place up country, and now every “cocky” for miles round has a set. This son lives about fifty miles from Inverell, and is subdividing the wilderness away on the MacIntyre. To a man like that, 9.0 p.m. means something more important than bed time. It is then that the weather man has his say.

SOMETIMES the forecast has its grimly humorous side, for on one occasion the young farmer referred to got news of the early approach of rain. Though tired after a long day’s work, he turned out with his brother, and with head lights on two tractors, worked all through the night, sowing. And the rain did not come! The weather reports provided through the services of 2BL and 2FC are of inestimable value to the man on the land. In the city, what the Clerk of the Weather says simply indicates what milady shall wear; but in the country it prophesies whether there shall be the wherewithal to buy the frock, or not.

The Evasion of Licence Fees

The difficult problem of rounding up the large number of Wireless Pirates in N.S.W.

FOLLOWING upon a recent editorial article published in "Wireless Weekly," the Directors of the New South Wales Broadcasting Company, Limited, have been giving considerable attention to the question of suggested evasion of license fees. It was stated in the article that there is a well established opinion in the minds of traders and officials alike, that "piracy" is far more prevalent in New South Wales than in any other part of the Commonwealth.

When examining the grounds upon which these statements have been published, the Directors were confronted with evidence which makes them fear that for some reason or other, there are many listeners in this State who are not honoring their obligation when in possession of receiving sets. Many traders have pointed out that the increase in licenses in this State, is not consonant with the sales of complete sets on the one hand, and the component parts trade on the other hand.

They were then confronted with the official figures showing the amount collected in fines as the result of prosecutions since the inauguration of broadcasting, up till the end of August of this year. New South Wales with a total of £1,293 out of a Grand Total of £2,434 for the whole Commonwealth, is in the unenviable position of providing a revenue from defaulters, greater than all the rest of Australia. A recent report received from the Radio Inspector for New South Wales, shows that as the result of a few weeks work by one member of his staff in the suburb of Crow's Nest alone, twenty-one successful prosecutions were made.

It is recognised that the officers of the local Radio Inspector's Department are zealous workers, but to expect that this small personnel can effectively police the whole State borders on undue optimism. At the present time the fines secured as the result of prosecutions pass into the consolidated revenue, and this money is not available for an extension of the work of inspection.

The matter of "Piracy" has received the constant attention of the Department for the past three years, and every reasonable effort, commensurate with the funds available, has been made to bring offenders before the courts. In this connection it might be interesting to note that since August, 1924, the cost of inspections and prosecutions in New South Wales alone has amounted to over £4,500,

while the fines and costs awarded for the same period reached £1,665. For the financial year ended June, 1928, the cost incurred in New South Wales was £1,278, and the amount of fines and costs awarded—£709.

It is felt, however, that this question of evading the payment of wireless licenses, goes much further than the mere prosecution of those who happen to be detected by the officers of the P.M.G.'s Department. The successful operation of the "A" Class Stations is dependent upon the revenue received from those holding receiving sets. While steady improvements have been made as revenue has increased, those controlling the "A" Class Stations in New South Wales feel that if the evading of licenses is as common a practice as suggested,

and they can secure the co-operation of every license holder in a State-wide drive to clean up "Piracy," a further considerable sum would be made available for the extension of the present services. Broadcasting has to be self-supporting and to this end license holders should feel that every increase in revenue received from those at present evading payment should be for their general benefit.

The "A" Class Stations have been asked to co-operate with the Department in giving the fullest publicity to the lists of defaulters in the hope that listeners who have not obtained licenses may be brought to realise their obligation to obtain a license rather than to run the risk, not only of prosecution, but also the disgrace of public condemnation.

More Congress Reports.

FURTHER reports regarding the Eucharistic Congress short-wave broadcasts have been received by the operators of 2ME, the 20 k.w. short-wave overseas experimental station of Amalgamated Wireless (A'asia) Ltd.

In the United States, successful relays have been made by Broadcasting Station WMAK Buffalo and 2XAD Schenectady. The following has been received from Mr. Muir, Broadcasting Engineer, Buffalo:—

"Eucharistic programme received here excellently and rebroadcast by Station WMAK, Buffalo."

In New Zealand the programmes were rebroadcast by Station 2YA.

In addition, the transmissions were received at maximum strength throughout the south-western Pacific Islands. The following has been received from the Officer-in-charge, Rabaul:—

"Eucharistic programme all received here at loud-speaker strength, excellent modulation."

From Mr. Dunwoodie, Apia:—

"Eucharistic Benediction Service received here full strength all listeners joined in Benediction service."

From the Officer-in-charge, Noumea:—

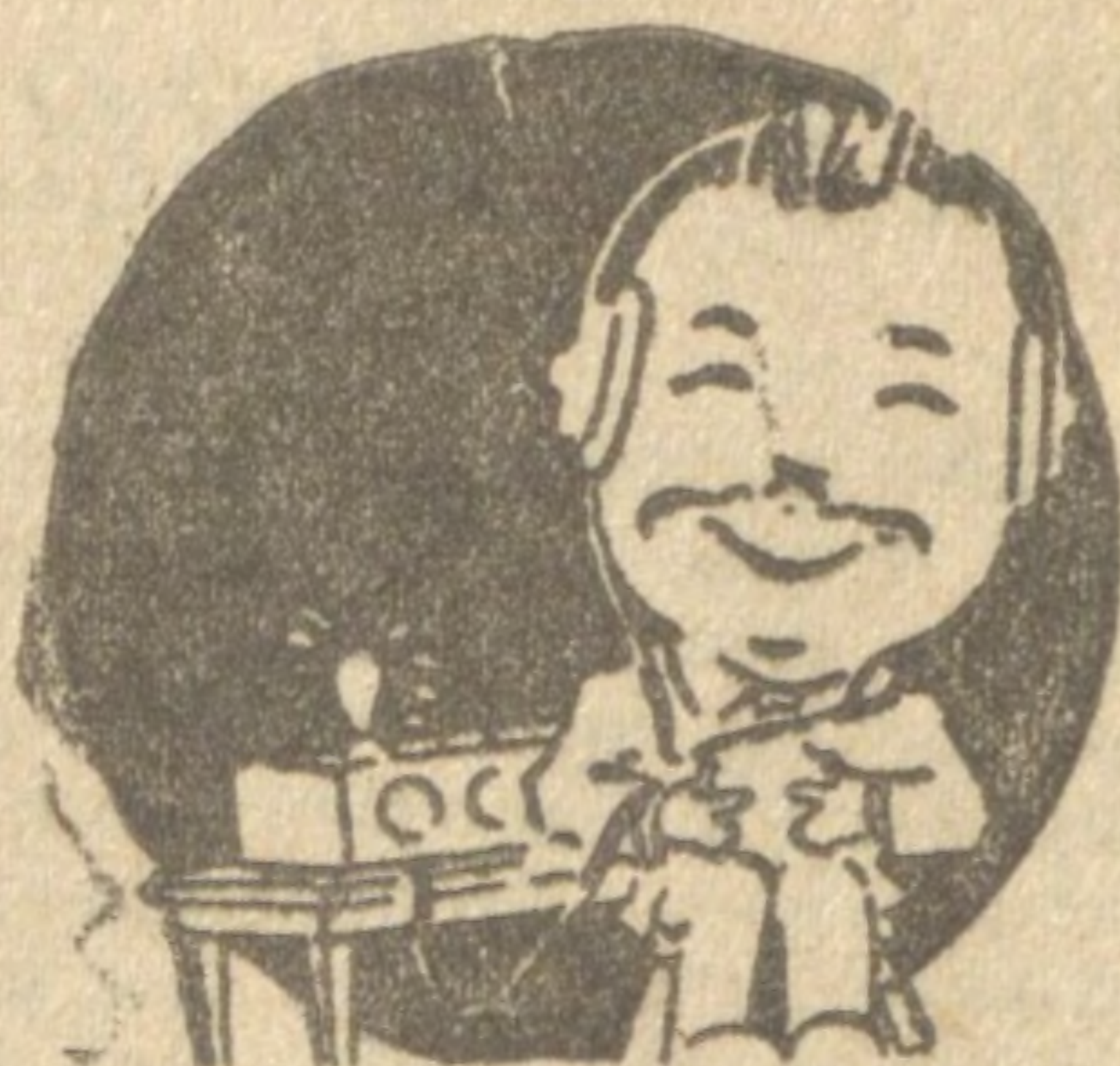
"Received strong at Noumea. I will send other results of amateurs when I will have them."

This series of short-wave broadcast programmes is one of the most important that has ever been carried out in

this part of the world, and to Australia stands the credit of being the first country in the Southern Hemisphere to instal a radiophone transmitter of such high power as 20 k.w. This A.W.A. designed transmitter is capable of being used at any time for the purpose of telephone communication with any part of the world and marks an important step in the matter of overseas communication from Australia.



Rev. Father W. Nicol, of Lismore, whose vivid descriptions of the Eucharistic Congress ceremonies in Sydney and Brisbane resulted in over a hundred personal letters of congratulation.



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 PHENOMENON.

Dear Sir,—Perhaps some of the more advanced readers of "W.W." can suggest a possible explanation of a rather puzzling effect on night programmes which I have noticed for some time. My residence is approximately 300-yards from the railway track, which is between me and due south, or approximately the location of 3LO, as indicated on a loop aerial. When a train passes along at night, 3LO fades right out, until the rear of the train passes the vicinity of the house, although the eastern and northern stations are still received with full volume. Can it be possible that the metal-work of the train (invariably a goods) acts as a shield, as far as reception of 3LO is concerned?

Yours, etc.,

J. J. ANDERSON.

Cumnock.

CHILDREN'S SESSION.

Dear Sir,—As the father of four youngsters, of 4, 6, 9 and 13 respectively, may I add a word to the controversial correspondence. I have carefully noted the effect of children's session for four years, and tune in different stations on different nights, without commenting on their respective merits. The results are interesting, and show that the child's idea of entertainment is very different from a parent's, in most cases. The fact cannot be denied that many parents selfishly tune in to the children's session for their own amusement, and want their children to like what they like.

Personally, I am partial to the Hello-man at 2FC. His manner in talking to the children is very charming, and his voice exceedingly pleasant. This is my kiddies' view:—"Oh, those silly old chimes again. The same old songs and stories; we have heard them all before. Why cannot we have some jolly tunes and songs, instead of serial stories? And the letters; always the same names called. We won't write to the Hello-man, as it only makes it worse."

I now interrupt by saying that the letter in your recent issue, from J— of E— was not the letter of a child, and, if J— wrote it, she must be grown up. She is a favorite at 2FC,

and, as her name is called nightly, it is only natural that she should resent any interference. From a photo, which appeared in your journal, I should have taken her to be 18.

Now, 2BL. I am not greatly impressed with their Uncle, and my children refuse to listen to him at any price. "Tune in 4QG," is their demand. Now, 4QG has a style of its own. It is highly amusing, even to adults, and just shows that the modern children, no matter how old-fashioned their parents may be, follow modern tendencies, for more amusement. The old fairy stories cannot entertain them, and radio Uncles must follow the demand, if they desire to remain popular.

In conclusion, I think letters should be answered simply by calling the names, and that it is quite unnecessary to read the contents of each letter over the air.

Yours faithfully,

Exeter.

W. YOUNG.

MORE PRAISE FOR MR. ROBINS.

Dear Sir,—I read with interest B. O'Brien's letter, in "W.W.," 28/9/'28, re the organ services from the Arcadia Theatre. I can heartily agree with him in his praises of same, and think with him that the services should be extended to other nights of the week. I have heard the Wurlitzer in other theatres, and can safely state that, despite the boom of the other organists, Mr. Robins can more than hold his own. On my set, the reception is well nigh perfect, the organ recording particularly clear and distinct. So a word in the ear of the manager of 2BL, for more of this item would not come amiss. While I am on this item, I would like to say that 2BL might have the decency to wait until the item is finished, instead of cutting off in the middle of it, and spoiling what is the most enjoyable item on a Friday night's programme.

Double Bay.

C. MILLER.

PRONUNCIATION.

Dear Sir,—I am glad to see that the question of the pronunciation of our local announcers has been brought up. It is quite time that we instituted a

thorough investigation into the education of these gentlemen. For a while, Captain Aarons explained to us over the air the number of errors which they were prone to make. That this little lesson, though not directly addressed to them, had no effect whatever. We still hear them pronouncing words in an incorrect manner; the most glaring error is their pronunciation of "Australia." How should this word be pronounced? The question does not seem to have earned their consideration. Almost invariably they say "Orstralia." There are a great number of other words that are also mispronounced, notably the following:—

ensemble,
envelope,
cinema,
pianoforte,
auld lang syne,
aerated.

Yours,, etc.,

R. K. U. HUTTON.

Pymble.

"ORSTRALIA."

Dear Sir,—I note a correspondent objecting to the way the word "Australia" is announced. I plump for the pronunciation "Orstralia"; others among my friends say it should be "Astralia," but this seems all wrong to me. Which should it be? I ask other readers to express their opinions.

Yours, etc.,

K. O'DAVY.

King's Cross.

2 VALVES.

Dear Sir,—Now that the three valve enthusiasts have had their go, I would like to say a word about my two valve set. I receive 2BL, 2FC, 2GB, and 3LO (weakly), on the loud-speaker. On the 'phones I receive 3AR, 3UZ, 3DB, 5CL, 4QG, 7ZL, 2KY, 2UE, 2UW, 2BE (the latter not at present, of course, as they are off the air), all at good strength. I hear 2YA faintly. Hoping to hear from other two valvers.

Yours, etc.,

G. HAGERTY.

Enfield.

Political Speeches Broadcast

By Ray Dio.

DURING the next few weeks listeners will have something approaching a surfeit of speeches on politics. The various party leaders will speak to more than their visible audiences. The speeches will be broadcast through several stations. Starting with Mr. Bruce at Dandenong and Mr. Scullin at Richmond, 3LO Melbourne will put the speeches on the air, and arrange for relays to be given to Sydney and Adelaide. Later on, Dr Page will speak at Grafton, New South Wales, to his constituents, and his speech will be relayed through one of the Sydney stations, and also through Melbourne and Adelaide stations.

And that will not be all. The leaders will repeat their policy speeches, or some variant of them, in each of the other States. That will mean that each leader will be heard twice from a local station in South Australia, Victoria, New South Wales, and probably Queensland. As no telephone relays can be made for Western Australia and Tasmania, there will not be any relay of the simultaneous broadcast as in the case of the Eastern States.

Leaving out Western Australia and Tasmania, there will thus be six speeches in each State before the election day in November. So any listener who has a preference for hearing speeches on politics will have the opportunity of hearing twenty to twenty-four speeches in the Eastern States during the next six weeks.

The class "B" stations will also be utilised for party purposes, and it is likely to be a wireless election. This use of the broadcasting medium for political propaganda is indicative of the permanent nature of the broadcasting services. They are not only a means of obtaining news items, entertainment and amusement, but the services are availed of by organizations and persons who have a "message" they wish to get before the minds of as many people as possible.

During the presidential campaign in America the broadcasting stations are being availed of by the candidates to a surprising extent. It was reported that the arrangements with the stations—fifty-four—made by the organizers of the Republican Convention cost 80,000 dollars, and the Democratic Convention spent a somewhat similar amount. One principal speech by the Democratic candidate, Al. Smith, was put on the air through no less than 102 stations. That simultaneous broadcast must have allowed

practically every elector to hear Mr. Smith, that is those who wanted to hear the speech.

A similar achievement in Australia is not possible at present, owing to the absence of relaying circuits to Western Australia and Tasmania. When those two states are connected up with the main telephone system of the Commonwealth it will be possible

to arrange for any important speech, or event of outstanding importance, to be simultaneously broadcast in all states. The only difficulty then would be the difference in times. A speech in Melbourne at 8 p.m. would be heard in Perth at 6 p.m., but that is a detail that doubtless would be adjusted, as it must have been in the American all-state broadcasts.

An Opportunity for the Younger People

Additional Sections in Big Radio Eisteddfod.

IN response to many enquiries for a section which will give the children an opportunity of participating in the big radio Eisteddfod to be conducted by the New South Wales Broadcasting Company, Section 27a has been created for young vocalists whose work would be suitable in the Children's Session. Class A in this section is open to boys and girls under eight years of age, and Class B up to fifteen years of age. Care should be exercised in the selection of the song, which must be suitable to the Children's Session.

There have been many enquiries concerning the reason why there was no section set aside for solo elocutionary items. The New South Wales Broadcasting Company points out it is generally accepted throughout the wireless world that the ordinary elocutionary item is not one which is very popular with listeners. Section No. 23 in the Elsteddfod, which provides for radio sketches, encourages entries for the type of sketch which finds universal favor with listeners.

On the silver screen, one of the chief factors making for success is a good appearance. On the stage—on the concert platform—good looks, deportment, and a resonant voice all tell heavily. In the broadcasting studio, ability as an entertainer, and that subtle quality known as radio personality, alone counts. Here then is the opportunity for those who have talent to embark on a career that offers the widest possible scope.

Section 22—Dance Band—is open to all comers. The combination must consist of not fewer than six players. The winning band will receive £7 in cash, and broadcasting engagements, according to the number of per-

formers, to the value of £35, which makes a total prize in all of £42. The winning band will be afforded facilities for making a phonograph record, and will receive the usual royalty on sales.

Competitors in the Australian composition sections—Nos. 31, 32 and 33—are requested to submit, with their composition, the name of the artist who is to perform it.

The handsome prize list should help to bring forward a record entry. The total prize money runs into over £800, and will not alone cover an actual cash distribution at the time of winning, but will ensure engagements to the successful artists over the next six months.

A.W.A. Presentation.

ON the occasion of his marriage recently, Mr. F. W. Larkins, Publicity Manager of Amalgamated Wireless (A/sia), Ltd., was the recipient of a handsome presentation consisting of a dinner service and a case of cutlery, from the staff of the Company. In the presence of a large gathering of the Company's staff, Mr. E. T. Fisk, Managing Director of A.W.A., made the presentation, and spoke appreciatory of Mr. Larkins' long service of 16 years with the Company, and wished him every happiness. Mr. L. A. Hooke, Deputy General Manager, and Mr. J. F. Wilson, Assistant Manager, also expressed their good wishes, while Mr. W. J. Martin, who was associated with Mr. Larkins in 1912, in the Australian Wireless Co., which was absorbed by Amalgamated Wireless (A/sia), Ltd., also made a brief speech.

The Wireless Doctor's Prescriptions.

In Favor of A.C.

FOR amateur and experimental requirements, an A.C. is preferable to a D.C. supply.

* * *

It is an easy matter to create a source of D.C. from A.C. at potentials greater or less than the supply voltage. It is not so with D.C.

* * *

An A.C. or rectified A.C. output is entirely isolated from direct connection to the supply mains. Accidental earthing of the supply is avoided.

* * *

So long as certain definite requirements are fulfilled, rectified A.C. is easily smoothed. True, D.C. may, in some cases, need only a meagre smoothing equipment, yet in others smoothing proves exceedingly difficult.

* * *

Accumulator charging for L.T. supply is economical, with the aid of a step-down transformer. D.C. cannot be so transformed.

* * *

Experience shows that an arc rectifier is a good method of battery charging from A.C. supply. A liberal output is obtainable. The small type metal rectifier will keep a battery of modest size in good condition by trickle charging.

* * *

A single arc rectifier can be used for charging both L.T. and H.T. batteries. The transformer secondary is arranged to give both high and low voltage outputs, while a high value of current limiting resistance is used when charging an H.T. battery.

* * *

There is really little purpose, however, in using an H.T. accumulator when an A.C. supply is available. A well-designed eliminator is preferable.

* * *

If small low-capacity cells are to be charged, a thermionic two-electrode valve is recommended.

* * *

Accumulator cells are sometimes thought to be a good solution to the grid biasing problem, but a small thermionic rectifier will be found cheaper, and gives less trouble.

* * *

Remember that the voltage of a rectifier on open circuit is nearly half as much again as the secondary (R.M.S.) voltage of the transformer.

Bear in mind also that the smoothing chokes cause voltage surges. It is, therefore, advisable to adopt condensers rated to withstand at least twice the rated D.C. output of the eliminator.

* * *

When using an A.C. battery eliminator, always turn off the H.T. before the L.T. supply, and turn the L.T. on before the H.T., so as to avoid excessive stress being set up across the smoothing condensers.

* * *

A high-resistance leak across the condensers affords protection and prevents shocks.

* * *

Valves of the indirectly-heated cathode type afford a solution to the L.T. battery problem. No corresponding D.C. operated valves are as yet available.

* * *

If a floating L.T. battery be used with an L.T. battery charger as a source of L.T. supply, then a pair of heavy current chokes are needed, together with an electrolytic condenser. Without the floating accumulator, the regulation is bad, or, in other words, the switching off of one valve in a set may cause the burning out of another, owing to high internal resistance of rectifying device.

* * *

Output valves of the L.S.5A or UX171 type may be heated with A.C. without fear of hum.

* * *

A.C. filament heating or heated leads should be run as a twisted pair, and well separated from the rest of the wiring. The nearness of the two leads localises the A.C. field.

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The effectiveness of a smoothing choke declines as the current passed increases. Chokes should be of liberal current carrying capacity, with high inductance and low resistance.

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The lower the frequency of the supply the larger must the chokes and smoothing condensers be.

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It is safer, in order to guard against the possibilities of "motor-boating" and threshold oscillation, to feed each eliminator-operated amplifying stage through a series-connected voltage-regulating resistance, rather than to use a potential-dividing resistance.

Derive field energising current for a moving-coil loud-speaker from an arc rectifier. A floating battery is desirable for smoothing. Provided the winding is accommodated on a metal-ended spool, no A.C. hum will be present.

Don't Overload Your Power Valve!

MANY of the present-day B-power units actually supply a maximum voltage of 200 and over, even under load, with the result that the -71 type power valve is actually overloaded so far as plate voltage is concerned. Furthermore, if the usual C bias of 40.5 volts is applied, there is apt to be serious distortion as well as overloading, because of the excess plate voltage.

While most B-power units are not provided with a control for the maximum B tap, this is a mistake, particularly with the latest types of gaseous and filament rectifiers which deliver well over 180 volts. The careful radio enthusiast will do well, therefore, to insert a variable high resistance, such as the standard clarostat, in the B plus maximum lead going to the plate of the power valve, in order to cut down the voltage to 180 in keeping with the C bias and the rating of the valve. This may be done externally of the power unit and radio set.

What About Your Grid Leak?

THE radio enthusiast may well be pardoned for assuming that there is a law or edict compelling him to employ a 2 megohm grid leak for his detector. As a consequence, much detector efficiency is sacrificed, particularly on DX or the reception of weak signals. Nothing helps reception of very loud signals as well as very weak signals so much as the proper grid leak value, even if 2 megohms is a fair compromise. A resistance value of from several hundred ohms to many million ohms is required, as well as a precise adjustment and silent operation.

2FC

and

2BL

Coming Features in the Programmes

ELSIE PEERLESS, who has not broadcast for some time, came out as fresh as ever at 2FC Studios, the other night. Her appearance is always welcomed by listeners, with whom she has long stood in popular favor.

"IN OLD HAVANA," the picturesque opera to be produced by Eric Howell, in association with Madame Ada Baker, at St. James Hall, on Saturday, 20th October, promises listeners something entirely fresh in the way of entertainment. Both Madame Baker and Mr. Howell have years of theatrical experience to back up really good material, and an entertaining hour is assured.

JOSEF KAARTINEN, the Swedish saxophonist at 2BL, continues to provide unusual features in their evening programme. One musician of high degree of Sydney was known to remark with some asperity that there couldn't possibly be any good in a saxophone, but Mr. Kaartinen has amply proved the fallacy of this statement. His items are not merely novel, but are musically of a high standard.

"TRILBY": Du Maurier's powerful story and play concerns the doings of a set of Bohemian artists who inhabit the studio in the Latin quarter, Paris, and the love of Trilby and Little Billee, which is dispersed by the hypnotic power of the villainous Svengali, who abducts Trilby, and by his evil will power, makes her a famous concert singer. At last the drain on his strength proves too exhaustive, from which he dies. Thus the spell is lifted from Trilby, and she becomes free to rejoice in her early affection for Little Billee. "Trilby" was first broadcast on 7th March, by the H. W. Varna Company, and will be repeated on Wednesday, October 24th. The performance will be broadcast through 2FC.

New South Wales Broadcasting Company Limited Coming Features of the Week

2FC Service

FRIDAY, 19th OCTOBER:
8 p.m.—Capt. Fred Aarons:
"To-night's Anniversary."
SATURDAY, 20th OCTOBER:
9.5 p.m.—J. G. Lockley:
"I Remember."
SUNDAY, 21st OCTOBER:
2.30 p.m.—Children's Session.
MONDAY, 22nd OCTOBER:
9.10 p.m.—C. R. Hall:
"Seed Time and Harvest."
TUESDAY, 23rd OCTOBER:
9.15 p.m.—Freda Sternberg: Travel.
WEDNESDAY, 24th OCTOBER:
8 p.m.—Captain Fred Aarons:
"To-night's Anniversary."
THURSDAY, 25th OCTOBER:
2.30 p.m.—Educational Session:
Dr. C. G. McDonald:
"Twelfth Night."

TALKS

2BL Service

FRIDAY, 19th OCTOBER:
9 p.m.—Mr. Dexter: Sports.
SATURDAY, 20th OCTOBER:
8.17 p.m.—Walter Withrow: Physical Culture.
MONDAY, 22nd OCTOBER:
11.30 a.m.—Gwen Varley: Tennis.
TUESDAY, 23rd OCTOBER:
8.30 p.m.—Hyam Marks: Cricket.
WEDNESDAY, 24th OCTOBER:
11.40 a.m.—Gwen Varley: Golf.
THURSDAY, 25th OCTOBER:
4 p.m.—Radio in the Home:
Frank Buckell.

MUSIC—COMEDY—DRAMA

FRIDAY, 19th OCTOBER:
8.20 p.m.—Charles Lawrence and Rae Foster, Duets.
SATURDAY, 20th OCTOBER:
8.15 p.m.—Opera: "In Old Havana,"
Directed by Madame Ada Baker,
from St. James' Hall.
SUNDAY, 21st OCTOBER:
8.30 p.m.—Daisy Richards, Violinist.
MONDAY, 22nd OCTOBER:
7.50 p.m.—2FC Concert Party at
North Shore Hospital.
TUESDAY, 23rd OCTOBER:
8.17 p.m.—Madame Evelyn Grieg and
Ruby Rich, Piano and Violin.
WEDNESDAY, 24th OCTOBER:
8.30 p.m.—H. W. Varna Company:
"Trilby."
THURSDAY, 25th OCTOBER:
8.40 p.m.—Wendling and Molloy,
Entertainers.

FRIDAY, 19th OCTOBER:
8.17 p.m.—Robert Turner and Tot Loudon: Sketches.
SATURDAY, 20th OCTOBER:
8.10 p.m.—Foster and Finlay, Instrumentalists.
SUNDAY, 21st OCTOBER:
8.30 p.m.—Clifford Lathlean, Basso.
MONDAY, 22nd OCTOBER:
8.30 p.m.—Graham and Manning,
Entertainers.
TUESDAY, 23rd OCTOBER:
8.23 p.m.—Charles Lawrence, Entertainer.
WEDNESDAY, 24th OCTOBER:
8.30 p.m.—Josef Kaartinen, Saxophone.
THURSDAY, 25th OCTOBER:
9 p.m.—Sydney Operatic Society.

ROBERT TURNER and Tot Loudon provide 2BL listeners with a really clever act, and the sketches they have prepared for Friday, 19th October, do not fall short of their usual high standard. Miss Loudon and the microphone are old friends, and Mr. Turner is no less popular. A graduate of the Densham School of Oral Art, New Zealand, the N.Z. press speaks very highly of his work, particularly in character representation.

CARL BUDDEN MORRIS has recently returned to Sydney from Europe after many years' absence. He appeared with the Queen's Hall Orchestra, under the baton of Sir Henry Wood and other famous orchestras, in London, and on the Continent. Madame Cecile Chaminade, the famous French pianiste and composer, honored Mr. Morris by dedicating her "Danse Negre" to him. He had the honor of the patronage of the late Queen Alexandra, and her Royal Highness Princess Alice presented him with a photograph of her late mother, the Duchess of Albany, who had been a constant friend and patroness of the famous pianist, and was always most interested in his career. His next recital at 2FC will be given on Wednesday, 24th October.

A FAMILY from Stockton (N.S.W.) were looking over the Studios of 2BL one day last week, including two lads of tender years. The mother said she liked the wrestling descriptions, but was doubtful of the effect on the young mind. "I caught the boys quarrelling the other day," she explained, "and was just in time to hear the younger one exclaim with wrathful emphasis that he would crush his brother's head with a short arm scissors!" It used to be: "I'll punch you on the nose," and she laughed ruefully, "but even childish revenge must be expressed in modern terms."

HILDA NELSON, a young artist with a very pleasing mezzo voice, is heard regularly at 2FC during the afternoon session, and few rising artists are accorded a sincerer meed of praise by the listening public than Miss Nelson. She has, of course, the foundation of a natural voice, and is working hard, and the future augurs well for one for whom the hard work of early days is a real pleasure, in anticipation of the deserved success to come. Miss Nelson appeared recently in the studio production of "La Mascotte," and also "Merry Widow," under the direction of Leo Packer, in association with the New South Wales Broadcasting Company's Orchestra.

MR. C. PRICE CONIGRAVE, one of the most interesting speakers on the air to-day, has had to make a somewhat unexpected trip to Papua, which will take quite two months. He has therefore been compelled to cancel the dates of his series of talks—which were 20th, 26th, and 31st October, and 8th November—until he returns to Sydney. "I trust I may have the pleasure of resuming," concludes Mr. Conigrave, "after what promises to be a somewhat interesting journey."

UNUSUAL instrumentalists, who are appearing at 2FC on Friday, 25th October, confess to quite a little romance. They met some few years ago in the chorus of a J. C. Williamson pantomime, and decided that a soprano and baritone would blend ideally, they decided to make it a life duet. From the chorus they rose to principal parts, until the day came when they thought the time was ripe for them to branch out on their own in vaudeville. Mr. Wendling, originally a pianist, well above the average, again turned his attention to the piano, and Miss Molloy, possessing a well trained soprano voice of great power, sweetness and flexibility, lent a helping hand with the vocal side, contributing selections which ranged from light comedy to grand opera. In the capacity of drawing room entertainers they made a successful tour of the Commonwealth and New Zealand, but when the time for return visits came, the difficulty was to arrange something original, tuneful, and likely to catch the eye and ear of the public. A little before this, Miss Molloy had commenced to learn the saxophone "to amuse herself in her dressing room," and, having acquired a good knowledge of the habits and tricks of the instrument in this way, it was decided to introduce it into their act, while Mr. Wendling, not to be outdone, purchased an instrument known as the "melo-piano." This is a combination resembling a species of outsizes in the old-fashioned accordeon, with the whole range of the piano keyboard attached. It is very complex in its mechanism, and requires rather extensive musical knowledge to play successfully, but once the performer is master of this somewhat rare instrument (there are only two or three in the Commonwealth), it proves a very entertaining instrument—particularly on the air. Mr. Wendling's one real regret is that his radio audience can't see the instrument. "It invariably creates great interest on the stage," he says, "but after all, the thing that matters is whether listeners are pleased, not with the look, but with the performance of Arthur Wendling and Molly Molloy."

MADAME EVELYN GRIEG has arranged a recital for piano and violin at 2FC on October 23rd, when Rene Rich will be associated with her. "I consider Miss Rich an exceptionally talented young Australian, and an unusually gifted violiniste," said Madame Grieg. "I wish that I could act the part of fairy godmother, and I would present her with a wonderful violin, the most perfect that knowledge could select, or money could buy; an instrument she would just love, and which would love her in return. For I hold the idea (which is not new) that the player and a much-loved instrument become more or less one, especially after years of association together. Something of the player, certainly his or her magnetism, enters its form, and it becomes veritably the voice of the musician. That is something that we who are devotees of the pianoforte can rarely if ever know: that joy of making an instrument so completely and exclusively our own. But, perhaps, there are compensations." Madame Evelyn Grieg, well known to listeners to 2FC, who is commencing this interesting series of recitals with Miss Rich, possesses the happy faculty of infusing into her work the warmth of a pleasing personality, and her appearance is always hailed with pleasure.

ON FRIDAY afternoon, 19th October, the students of the MacCunn School of Singing and Dramatic Art are appearing at 2FC Studios in two playlets—"The Street Musician," by Louis Parker, and another from the pen of that master of nautical yarns, W. W. Jacobs. The first contains a picturesque touch of human nature. A young artist has married a young girl he met almost destitute on the streets. She had been driven forth by her parents, and one of her husband's sitters turns out to be the girl's disreputable father, a street musician. At first the father thinks to trade on his daughter's improved position, his better nature prevails, and he resumes his street playing, which is heard dying away as the curtain falls. Jacobs' playlet concerns the return of a shipwrecked sailor, received joyfully by his wife, but not so by his mother-in-law, who slanders him to his wife, but by a little strategy on the sailor's part, he outwits mother-in-law, and is happily reconciled to his wife. The plays are rehearsed and presented under the direction of H. W. Varna. In the "Street Musician" Phillip Adair is played by Mr. Stilling, Minnie Adair by Marjorie Dwyer, and Jabez Gower by H. W. Varna. John Boxer in "The Returned Sailor," is taken by H. W. Varna, Mary Boxer is Miss Joyce Smith, Mrs. Gimpson will be played by Miss Bunden, and Mr. Stilling, departing from his usual roles, takes the part of one Silver, a fortune teller.

"WIRELESS WHIMPERS."

By "Whisker."

"An Echo of the Show"

Up in the country, ..
Farmin', y'knew,
Wanner get down fer
The blinkin' ole Show;
Wanner be there, fer
There's lots that we care fer—
Down at the blinkin' ole Show.

Think uv them melons
An' all that we grow,
Uv the bonzer young horses
Tied up in a row;
Think uv the cows and
The ploughs by the thousand—
Really, a feller should go.

Sniffer machines there
Ter reap an' ter sow,
Games, too, ter win if
Yer funds should run low;
There's choppin' an' horses
That run hurdle courses—
Yes, a feller should drop down below.

Here am I stuck ter
Me spade an' me hoe,
An' can't git along there,
Well, ain't it a blow.
Always the way here,
Someone must stay here. . . .
Stay, if he likes it or no.

Still, I can listen
An' hear 3LO
Tellin' us all the
News uv the Show;
With no tired feeling
An' no feet squealing—
None uv the trials uv the Show.

FLORENCE YATES, the well-known Australian contralto who recently returned to Sydney after spending two years abroad, touring and studying, met many interesting and well-known artists "on the other side," who spoke encouragingly of her voice. Among these were Madame Kirkby Lunn, Madame Ada Crossley, also Sir Herbert Brewer, conductor of the Three Choirs Festival, and Organist of Gloucester Cathedral. Sir Herbert personally congratulated Miss Yates on her performance in Bach's B Minor Mass. One of the happiest days spent while abroad was with Dame Nellie Melba at her country home on the outskirts of London. Among the outstanding engagements Miss Yates had was the contralto solo work of "Samson," at the old Roman town of Bath, and the performance by the largest choir in South Wales—Newport Choral Society—of Handel's "Messiah," at which Miss Yates sang the contralto work with great success. Her performance at the Palace Theatre on Sunday last, in aid of United Charities Rose Day Appeal, which was broadcast through 2FC, was a feature of the programme. She will sing again, through the services of 2BL, in the near future.

First Radio Movies.

Moving Pictures in your own home—that is the latest development of television science in the General Electric Laboratories. Although only in the laboratory stage it is believed that perfection of apparatus will shortly lead to its commercialisation.

RADIO'S most conspicuous leaders met recently at the plant of the Westinghouse Company, U.S.A., to review the laboratory progress of what the layman might term imminent miracles of sight and sound transmission. The meeting was one of the most important in radio annals because such work as Television, Facsimile Radio, Power Tubes, Photophone and Broadcast Motion Pictures was not only reviewed but future progress in these lines definitely mapped. Of these developments, the Photophone is the only one in which perfection has been attained, at present. The others are in various stages of development ranging from the near perfection to embryonic laboratory experiments.

The most striking of all radio developments reviewed was the broadcasting of motion pictures which, transmitted on radio waves, were picked up on a receiver located in the Television laboratory and reproduced before those assembled there. It was the world's first demonstration of radio movies, and possibly the most astounding of the many advances in the science of radio announced in the past year.

While radio movies are still in the laboratory stage, Mr. Davis, under whose auspices the demonstration was made, states that the event heralds the time when the radio listener will sit at home and have that most popular form of entertainment, motion pictures, projected by his own individual radio receiver.

The development of radio movies is a triumph of scientific engineering. Barely two months ago, the idea came to the mind of Dr. Frank Conrad, in charge of this branch of his company's activities, and the fact that he has brought the device to the laboratory stage in the degree of perfection witnessed yesterday, is said to have set a record.

Radio movies are a step beyond previous developments in television, and required the invention of a number of appliances in addition to a great deal of scientific calculation, synchronism of various high-speed mechanisms, and accurate control of light and radio waves.

Although the sending of moving pictures by radio, as may well be imagined, required many complicated and delicate pieces of apparatus, the principles of the art as explained by the engineers are not beyond ordinary comprehension.

Photography in its simplest form consists of the reproducing of spots of light and shadow in the same arrangement as they appear in the subject photographed. The screening of a motion picture, of course, requires that a roll of film be operated at a speed which sends sixteen pictures a second before a projecting beam of light. Because of the structure of the human eye, if a series of pictures follow each other at the rate of 16 or more per second, the human eye sees it as a single moving picture.

All this the broadcasting of radio movies requires, with the addition that the spots of light must be transformed into frequencies, some of which are in the audible range, transferred to a radio wave and broadcast as electrical energy. In receiving the pictures, the process is reversed, the electrical energy is picked up, and the frequencies returned to lights and shadows, which when viewed presents the radio movie.

In the first step of the process a pencil of light traverses each picture, or "frame," as it is called, at the rate of 60 times a sixteenth of a second. This process produces a 60 line picture, as clear as the usual newspaper half-tone illustration.

The pencil of light is produced by a scanner, which is a disc with a series of minute square holes near its rim. The disc is so arranged that all light is excluded from the film except that which goes through the square holes. The disc turns very fast, and as it turns passes the beam of light across each "frame," with the result that an individual beam of light touches every part of the "frame."

The beam of light passing through the film falls upon an electric eye or photo-electric cell, which is not unlike an oversized incandescent lamp. Within the cell, however, is a metal whose electrical resistance varies with the light falling on it. Caesium,

a rare metal, is used in the Westinghouse cell. The amount of light falling on this cell determines the amount of current passing through it. The result is that each individual beam of light sends an electrical impulse which varies directly according to the amount of light or shade in the film through which it passed.

The beams of light have now become electrical impulses, and are sent on to the broadcasting station. Here the beams assume definite and varied frequencies, some of which are audible. Dr. Conrad states that these frequencies range from somewhere near 500 to approximately 60,000. Since the human ear is limited to frequencies of approximately 15,000, much of the radio movie wave is inaudible.

At the broadcasting station these frequencies are transposed on a radio wave and transmitted exactly as the ordinary music or voice. The radio signals now can be sent across a room, or across the continent. Their distance range is limited only by the broadcasting station's equipment.

In the demonstration, the signals traversed a distance of about four miles; two miles from the laboratory to the broadcasting station by wire, and two miles back to the laboratory by radio.

To turn these radio waves back into light, an arrangement which permits the use of a mercury arc lamp is used. By this adaptation the weak radio currents control the action of the many times more powerful current operating the arc lamp. This action may be compared to the action of a radio tube, where the weak radio current on the grid of the tube controls the action of the independent and more powerful plate current.

Thus the mercury arc lamp goes bright or dim as fast as the current changes and its light at any instant is in proportion to the light that the electric eye sees in the same instant. To return the dots of light to their original pattern another revolving disc or scanner is also used, which is similar to the transmitting scanner.

The use of a mercury arc lamp permits the radio pictures to be thrown upon a ground glass or

screen, the first time this has been done with television apparatus.

Both these scanning discs turn at exactly the same speed; the hole in the receiving disc must be exactly in the same relative position as the corresponding hole in the transmitting disc. In other words, they must be synchronised.

The engineers at the demonstration were the first to develop a feasible method of synchronism, and their method was by means of radio. From transmitting equipment, which may be located in the broadcasting station, they transmit a constant frequency wave of 5,000 cycles. This wave is produced by a tuning fork and transmitted over a special carrier wave from the broadcasting station. The constant frequency note is received on a special receiver, and by means of special apparatus controls the speed of synchronous motors, which drive the scanning discs of both transmitting and receiving radio movie equipment. This revolutionary method of controlling equipment indicates, in a measure, the extent to which science must go in order to perfect—say, television, or radio movies.

Westinghouse officials state that the regular transmission of motion pictures from KDKA will begin in a few weeks. They also state that the apparatus, when produced commercially, will be sold through the Radio Corporation of America.

MR. G. VERN BARNETT, Musical Advisor of the 2BL Service, is again in Sydney, after a busy six weeks' adjudicating in New Zealand, when he judged over three thousand entrants in the Annual Eisteddfod. In the forthcoming Radio Eisteddfod, Mr. Vern Barnett is proving a tower of strength to the New South Wales Broadcasting Company, but it is to be hoped he is not called on to undergo the experience which befell him while in New Zealand. An irate parent "demanded to see the Adjudicator," to know why HER child was not successful, but not for nothing was Mr. Barnett chosen for the difficult task, and after ten minutes' bitter haranguing on the part of the mother, and a little diplomatic soothing from the adjudicator, the former broke off in the middle of her tirade: "I hate you," she said, "but you ARE a nice man!" Quick to seize his advantage, Mr. Barnett said hastily, with the deprecatory little smile which has got him out of a thousand similar difficulties: "Well, suppose we kiss and be friends." To his horrified amazement, the figure of speech was taken literally, and he found himself embraced right heartily before a delighted crowd of spectators.

Improving the Selectivity of the Old Set.

IF there is one outstanding difference between the receiver of today and that of a few years back, it is in the matter of selectivity. Present-day receivers tune with razor-sharp precision, which is essential in separating closely-packed wave lengths.

The old-time receiver of the radio-frequency type tunes broadly for two main reasons and perhaps many supplementary reasons. First, it is usually equipped with large inductance coils or radio-frequency transformers, which serve as miniature loops or wave interceptors in these days of powerful broadcast signals. Therefore, the signal energy reaching the receiving circuit is by no means limited to that coming in by the front door of the antenna-ground circuit, but includes many stray signals filtering through coils acting as miniature loops. The smaller inductance coils and r.f. transformers help considerably in this connection, although shielding is practically essential, especially when close to powerful broadcasters.

In the second place, the old-time r.f. circuit usually has a potentiometer stabilizer for controlling oscillation, which serves to broaden tuning to a marked degree. The potentiometer serves to shift the grid return between negative and positive filament leads. In suppressing oscillation, the grid return is moved toward the positive filament, so that a variable positive potential may be placed on the grid, thus throttling oscillation. Not only does this method result in broadening the tuning, but it also calls for heavy plate current.

With the two foregoing facts in mind, it becomes apparent that something can be done to improve the selectivity of the old tuned r.f. receiver.

The first consideration is the reduction of inductance pick-up. Here the simplest practice is to line the receiver cabinet with tinfoil, shellacked in place and connected by wire to ground. The tinfoil should be placed on the sides, bottom and top of cabinet, as well as rear of panel. Care must be taken not to have the tinfoil touch radio components or bare wiring. Such shielding, while not taking into account the interstage coupling between r.f. transformers, will help materially in sharpening tuning and getting cleaner signals. If the radio enthusiast wishes to go a step further, it is possible to insert brass, copper or aluminium partitions between sets

of r.f. transformers and tuning condensers. There are shielding plates especially intended for this purpose. This will help still further in improving selectivity.

The second consideration is to eliminate the potentiometer. There are two ways in which this may be achieved, while still controlling oscillation, namely: (a) regulating the r.f. plate voltage, and (b) the use of the grid suppressor method. Either one is satisfactory.

A preliminary step is to remove the potentiometer from the circuit, by disconnecting it. The grid return, heretofore going to the movable contact arm, is shifted to the mmus filament.

Regulating the r.f. plate voltage consists of placing a precision variable resistance of wide range (200-500,000 ohms) in the r.f. plate supply. This makes it possible to secure anything from a whisper to the full output of the receiver, quite aside from having gained the advantage of added selectivity with the removal of the potentiometer.

Surprising DX results may be obtained by bringing the r.f. amplifier to the verge of oscillation. In fact, the operation then becomes much the same as that of the old regenerative receiver. It is even possible to obtain zero boat regeneration—an adjustment so critical that moving any tuning dial one way or the other causes a regenerative howl.

The use of grid suppression has become widespread of late, especially in conjunction with A-C valves. This method consists of a non-inductive resistance of from 200 to 3600 ohms, depending on valve and circuit conditions, placed in the grid lead. The exact resistance for best results is difficult to determine except by the cut-and-try process. For this reason, it is best to employ a precision variable resistance, which may be set at various values until the best results are obtained. The grid suppressor effectively prevents oscillation, while maintaining fairly sharp tuning. It is automatic in its operation, becoming more effective in its function at higher frequencies (or lower wave lengths).

The old-style neutrodyne receiver may be materially improved in selectivity and sensitivity by removing the neutralizing condensers and introducing either the r.f. plate voltage control or the grid suppressor method, the manipulation of which calls for little extra trouble.

3LO

Service

What's in the Air

A VOCAL and instrumental programme of gems from the works of Saint Saens and Roger Quilter will be given from 3LO on October 22. The Station Orchestra will be heard in the overture to "Samson and Delilah," with the Russian Imperial Trio (piano, violin and 'cello), and appropriate vocal items will be contributed by Madame Lambert, Dolly Bardett, Ernest Wilson and Victor Baxter.

DIRECT from their successes in South Australia come Stewart and Lorraine to 3LO, where they will present their novelty musical interlude for a short season, commencing October 22. As musicians, there are very few instruments on which these clever people do not perform, and they may be said to have "played their way round the world" on the piano, harp, saxophone, violin, organ and the banjo. Charles Stewart is known throughout England and America as the Kreisler of the banjo, and Winifred Lorraine, who possesses a fine soprano voice, is a brilliant pianiste and banjoist, and will also be heard in vocal gems from "Grand Opera."

THE ESTELLE MARK TRIO still continues to maintain great popularity at 3LO, and is delighting listeners with vocal and instrumental selections. Much of the trio's success is due to the artistic vocalism of Miss Estelle Mark, whose beautiful soprano voice proves more than equal to the many demands made upon it. Her clear diction is a joy to the ear, and the support lent by Cecilia Kilduff (violin) and Margot Sheridan (piano), who often contributes her own original compositions, makes their ensemble work reach an unusually high standard.

IN HONOUR of the Schubert Centenary, a special organ and choral recital will be given by Mansley Greer and the Scots Church Choir on October 23. Included in the programme is the well-known sacred cantata, "The Song of Miriam," for soprano and chorus, and the impressive, "The Lord is My Shepherd." Assisting artists are Miss Annie Cadell, Madame Gregor Wood, with Messrs. Colin Thompson and Leslie Paull, and the programme should be thoroughly enjoyed by all devotees of Schubert.

Extracts from 3LO and 3AR Programmes

3LO

SUNDAY, 21st OCTOBER:

11 a.m.—Morning Service from Scots Church.
4.30 p.m.—J. Howlett Ross: "The Poet Gordon."
7 p.m.—Evening Service from Welsh Church.

MONDAY, 22nd OCTOBER:

2.57 p.m.—Imperial Russian Trio.
8.46 p.m.—Royal Victorian Leidertafel.
9.41 p.m.—Elsy Treweek, Soprano.

TUESDAY, 23rd OCTOBER:

Afternoon.—Radi-O-Aces Dance Session.
Night.—Old Time Dance Programme.
8.37 p.m.—Stewart and Lorraine.

WEDNESDAY, 24th OCTOBER:

3.43 p.m.—Description of Werribee Cup by Eric Welch.
8.1 p.m.—Programme of Works of Wolf and Beethoven.
9.30 p.m.—Transmission from Victory Theatre.

THURSDAY, 25th OCTOBER:

2.15 p.m.—An Hour with the Strad Trio.

9.12 p.m.—French Bros., Banjoists.
9.36 p.m.—Cecilia Kilduff, Violinist.

FRIDAY, 26th OCTOBER:

2 p.m.—Descriptions of Public Schools Sports.
8.25 p.m.—Estelle Mark Trio.
10.32 p.m.—Collingwood Citizens' Band.

SATURDAY, 27th OCTOBER:

3.27 p.m.—Description of Moonee Valley Cup by Eric Welch.
Afternoon.—Descriptions of Henley-on-Yarra.
8.50 p.m.—Stadium Event Description by Eric Welch.

3AR

SUNDAY, 21st OCTOBER:

11 a.m.—Service from New Methodist Church, Kyabram.
8.22 p.m.—Excerpts from "The Woman of Samaria."
9.10 p.m.—J. Howlett Ross: "Tralfgar."

MONDAY, 22nd OCTOBER:

11.15 a.m.—Marcelle Berardi, Soprano.
9.29 p.m.—Alex. Wotherspoon, Bass.
9.55 p.m.—J. Harcourt Bailey, Entertainer.

TUESDAY, 23rd OCTOBER:

8.45 p.m.—De Reske Four.
8.52 p.m.—"The Song of Miriam," by Schubert.
10.7 p.m.—Charles Wheatland, Trombone.

WEDNESDAY, 24th OCTOBER:

11.15 a.m.—Rita Hilton, Entertainer.
8.15 p.m.—Capt. Peters: "Books Wise and Otherwise."
8.30 p.m.—Studio Presentation of "The Geisha."

THURSDAY, 25th OCTOBER:

11.15 a.m.—Mary Thirlwall, Contralto.
1.7 p.m.—Tom Semple, Tenor.
8.52 p.m.—Presentation of "Orpheus" by Gluck.

FRIDAY, 26th OCTOBER:

12.22 p.m.—Stanley Allan, Tenor.
12.40 p.m.—Millicent Osmond, Mezzo-Soprano.
8.15 p.m.—Community Singing from Ballarat.

SATURDAY, 27th OCTOBER:

3.15 p.m.—Sundowners' Male Quartette.
3.50 p.m.—Estelle Mark Trio.
8.30 p.m.—Finals of Colac Musical and Elocutionary Competitions.

AN EXCELLENT programme of vocal music has been arranged by the Royal Victorian Leidertafel, and will be broadcast from 3LO on October 22. Selections from the works of Schubert will be given, including the part-songs, "A Night in the Forest" and "The Gondoliers Serenade," with solos from Annie Caddell and Colin Thompson. Mr. Wm. Burrell will be the accompanist, and a thoroughly enjoyable evening is anticipated.

IN RESPONSE to many requests, a further performance of that favourite musical comedy, "The Geisha," will be given from 3AR on October 24. As before, the role of "O Mimosa San" will be taken by Miss Florence Blitz, a clever young vocalist with a distinct talent for acting, and Alan Bell will repeat his amusing impersonation of "Wunghi." The well-trained chorus is under the direction of Madame Ethel Ashton, who is acting as joint producer with Mr. Maurice Dudley.

A MOST ATTRACTIVE programme of "Gems from the works of Mozart" has been arranged at 3LO on October 26. Under the direction of Frederick Hall, the Station Orchestra will be heard in the overture "Titus," J. Howard King will be heard in excerpts from "The Magic Flute" and Agnes Fortune will contribute piano solos.

MUSICAL listeners will greatly appreciate the programme of excerpts from the works of Hugo Wolf and Beethoven that has been arranged by Miss Mary Campbell of the Albert Street Conservatorium, and will be given from 3LO on October 24. Among the gifted students who are assisting on this occasion will be Ida Scott (piano), Gertrude Healy (violin) and Dawn Harding (mezzo-soprano).

MANY PEOPLE will be keenly interested in the talk given under the auspices of the St. John's Ambulance Association by Miss Edith Wells from 3LO on October 22, who will speak on "Helpful Hints in Nursing." Hundreds of listeners in the back blocks, far removed from medical aid, are often at a loss to know how to render "First Aid," and what simple medical appliances should always be kept at hand in case of emergencies. Both these aspects will be discussed during this lecture, which should be of more than passing interest.

LOVERS of Australian poetry may anticipate a most interesting talk on October 23, when Mr. C. B. Long, M.A., will give a talk on Australian literature, and discuss the romance surrounding Australia's first great poet. "THE LIFE AND WORKS of the Poet Gordon" will form the basis of an interesting talk to be given by J. Howlett Ross from 3LO on October 21.

Far-Reaching Lightning Studies.

ONE of the major battles of peacetime, the technical mind versus lightning, is about to start in a lonely mountain spot in Tennessee, U.S.A. During the next six months, according to W. S. Rugg, vice-president of the Westinghouse Electric Company, electrical engineers of his company, armed with every scientific device, obtainable, will record each bolt and quirk of every thunderstorm that plays around the crest of the mountain where they are situated. Since the site where the apparatus is to be located has an average of 20 thunderstorms each month during the summer, the engineers will have an active time, states Mr. Rugg.

The heavy artillery of the young engineers, who will spend the next six months or six years, if necessary, on the job, will consist of Norinder oscillographs, osisos, klydonographs, cameras and other apparatus, not only to record but also to diagnose the effect of each lightning flash. This apparatus, to be installed on the power lines of the Aluminium Company of America, will cover a five mile stretch of wild terrain. Of supreme interest to scientists will be the installation of the Norinder oscillographs. These instruments are as superior to existing types of cathode ray oscillographs as the modern telescope is to those of Franklin's time. They will reveal, according to engineers, characteristics of lightning which scientists have sought to discover for centuries. Dr. Harald Norinder, Westinghouse consulting engineer and inventor of the apparatus, ranks to-day as the foremost authority on lightning. This distinction is the result of eight years' study in Sweden as engineer and head of the Research Bureau of the Royal Board of Waterfalls in Stockholm. Last spring he personally brought his oscillograph to Westinghouse headquarters to demonstrate its abilities. Witnesses were so impressed that the apparatus be made available for American engineering work. The Tennessee installation followed.

A Norinder oscillograph will be located on either side of the mountain peak with two klydonographs installed one half mile from either side of each oscillograph. The oscillograph operates much like the hidden automatic cameras by which wild animals are made to take their own pictures. Installed on the power line, it keeps watch for hours without attention. Any sort of lightning, from the smallest spark to a 100 million volt flash a half mile long, leaves an exact re-

cord of its performance with the Norinder instrument. The device measures the rate of rise of the voltage surge, the maximum voltage attained, the duration of the charge and the rate of decrease. It is so sensitive that it records surges which have an ephemeral life of only a ten-millionth of a second—the time taken for a high-powered rifle bullet to travel the thickness of two hairs. No mechanical device could be made to act so quickly, so the moving parts consist of a beam of cathode rays, which are bent here and there by electric attraction to leave their mark on a photographic device. The entire apparatus is in a vacuum. The klydonographs will record the maximum shock received by the transmission line and thus supplement the oscillograph records. Osisos will function as a part of distance finders to tell the operators how far distant from the power line the bolt of lightning flashed. The cameras will record any lightning within their range.

All the devices are automatic. For example, oncoming thunderstorms will automatically give warnings of their approach, by ringing a bell, thus enabling the operators at the lightning station to go into action.

With this installation and with a crew of engineers on duty 24 hours each day for an indefinite period, it is expected that data concerning the effect of lightning on high-voltage transmission lines will be recorded in such detail that the development of lightning-proof apparatus will be greatly facilitated.

Experts to-day are far from agreement as to the characteristics of lightning or its effects on high-power transmission lines. There is, for example, a difference in opinion representing a ratio of 1000 to 1, of what present-day authorities declare to be the "rate of onset" of a lightning bolt. Existing data concerning the effect of surges induced in power lines by adjacent lightning strokes and that set up by direct hits is not accurate. This difference in opinion, is one of the major factors that the Westinghouse installation is expected to make clear.

The visualisation of super-power transmission lines of the future, when many power stations and lines will be linked together, is the main motive behind the exhausting gathering of this data. Even now electrical engineers are planning for a future in which the mountain stream, perhaps

in New York State, will generate electricity for the lights in an Ohio metropolis, when it is economically justifiable. Such a network of power lines will require high-voltage transmission over systems which are failure-proof.

Lightning, to date, has been the unknown quantity that prevented the designing engineer from producing apparatus that would function despite, what in legal terminology is spoken of, as, an "act of God."

A BOON TO ANNOUNCERS.

RECENTLY, Mr. Knight Barnett (Uncle Peter) of 2BL, was the recipient of a big parcel from one of his numerous admirers. After the coverings had been removed, a weird piece of mechanism lay revealed. It consisted of an ingenious combination of piano, gramophone, loudspeaker and chimes—all manufactured out of such homely articles as tin biscuit boxes, alarm clocks, a toy piano, etc. Together with this novel gift came the following missive:—

WE BEG to bring under your notice, Patent 2BL I.O.U., which has been taken out for world wide distribution. After long consideration we have decided that 2BL has warranted premier place among the world's great stations to be the first to test our experiment. We therefore wish to place before you the following advantages in alphabetical order:

- (a) Completely eliminates use of A., B. and C. batteries.
- (b) Give greater opportunities for betterment and variety of programme.
- (c) Dispenses with long journeys for announcers to different sporting centres to broadcast matches.
- (d) Not only greatly benefits public by compactness, but saves announcers qualms of conscience when sleeping between items. (Announcer's alarm, guaranteed 10 seconds ceaseless noise.)
- (e) Does away with the necessity for large and ornate studios for the placing of piano, gramophone, etc.
- (f) Upkeep practically nil. Spare parts may be obtained from makers.

Finally, gentlemen, this article may be obtained in three sizes: (1) Jam tin. (2) Biscuit tin. (3) Garbage tin. The present model being size 2.

Hoping this will meet with your approval, and thanking you in anticipation for your kindness,

Faithfully yours,

NEVER BEAT YET & CO.



Between you and me and the Microphone.



TWO AMERICAN stations regularly broadcast "still" pictures, while four are experimenting with television.

THE TRANSMISSION of picture "stills" has reached a fine art. As a specimen of a commercial telephotograph transmission an American journal depicts a police identification card showing a fingerprint.

REGARDING TELEVISION in the home, an American editor says, "As a source of amusement in the home it (television equipment) is a complete flop, unless the family finds a joy in the exasperation of the would-be demonstrator."

SOME IDEA of the tremendous cost of special "stunt" advertising programmes in the United States of America may be gained from the fact that Dodge Motors, Ltd., insured their radio programmes against interruption of Morse signals at a premium of £600. The programme cost £200 per minute, lasted one hour (£12,000), was available to 30,000,000 listeners, and was served up by means of chain broadcasting in places as far apart as New York and Hollywood.

UP TO THE PRESENT broadcasting in France has been disappointing. A system of co-ordination has not existed, but dealers and manufacturers have been relied on to fill the bill. A registration fee of one franc (now worth 2d.) is payable, but listeners rarely take the trouble to pay it. Musical programmes are consequently patchy. A new scheme is now on foot embodying State control. By a properly ordered tax it is hoped to raise £80,000 annually. With this it is proposed to maintain eighteen high-power stations. It is intended that the quality of the broadcasts will be raised to a level worthy of France.

MORE AND MORE lonely places in Australia are being linked up with civilisation by wireless. In order to overcome the trouble and cost of maintaining many hundreds of miles of telegraph lines in lonely and dif-

ficult country, Government short-wave stations are to be installed for communication between Thursday Island and Cooktown, North Queensland. The Commonwealth Post Office states that such a service can now be considered absolutely reliable.

FROM OCTOBER 1 the American amateur and private stations changed their call signs in accordance with the International Radiotelegraph Convention, 1927. American calls are now to be preceded by "W," and those in Alaska, Hawaii, Poli Piro and the Virgin Islands with the letter "K." Australian stations are to use the letters "VH."

RECEIVING SETS and components, valued at £250,000, were on view at the fourth annual convention of the Radio Manufacturers' Association of America, recently held in Chicago. The design of sets showed a tendency to concentrate on good reproduction of the whole musical scale, less attention being paid to selectivity, which has become of secondary importance in view of the careful re-allocation of broadcast wave-lengths by the Federal Radio Commission.

A PROFESSOR of the University of Vienna claims to have discovered a method by which milk, treated by radio waves of short lengths, can be kept sweet for from three to four weeks. Health authorities in Germany are now testing the process. The new radio milk is produced by passing an intense beam of short-waves through the liquid. This, it is said, instantly kills all the germs which cause the milk to spoil. The milk itself is not heated by this treatment, nor does it acquire a "cooked" taste.

MISS JULIA RUSSELL, whose fresh soprano voice is often heard from 3LO, is a New Zealand vocalist, and a cousin of the famous soprano, Francis Alda. She has an extensive repertoire, ranging from early French and English melodies to the more popular type of ballads, and her items are always a welcome addition to the studio programme.

THE LOUD SPEAKER should never be turned in order to face the receiver, otherwise a howl may result. Sometimes during a loud musical passage, the diaphragm of the speaker hits the magnet, and is held there, so it is advisable to adjust the milled screw of the speaker if after a loud passage distortion becomes evident.

DURING STORMY weather, the aerial is likely to snap, and this will produce very weak signals or no signals at all. Intermittent signals accompanied by crackling noises may be caused by branches of trees coming into contact with the aerial, or by the aerial touching a wet building. The aerial must at all times be kept well away from trees and buildings, and all connections to and from the lead in insulator (if used) should occasionally be cleaned with sandpaper.

IN ORDER TO FIND the minimum range of any receiver, allow 50 miles for the detector valve, 500 miles for every stage of radio frequency. For crystal receivers allow 25 miles. For combined crystal and valve receivers, allow 30 miles for the crystal, and 20 miles for the valve. Thus for a five-valve receiver, using detector, two stages of R.F. and two stages of A.F. the minimum range would be approximately 1150 miles air line. With the Crystovalve receiver, the minimum range would be 50 miles, and for a one-valve receiver, the minimum range would be 50 miles.

THE LENGTH of an aerial depends greatly upon the type of receiver used, and also the locality of the listener. If selectivity is desired a short aerial—say, 45ft.—should be used. For the city listener, 60 feet is a good length, but this may be shortened if the receiver is not selective, and lengthened if the receiver does not pick up interference. Country listeners may use extremely long aerials, as they do not have to contend with city interferences. 200 feet is usually found to be a good length. For multi-valve sets, it is advisable to use a loop instead of an outdoor aerial, as the receiver, being extremely sensitive, will pick up all sorts of unrequired interference.

Arresting Stray R. F. Currents.

DUE to the great improvement in quality of tone reproduction which results from keeping stray radio frequency currents out of the audio frequency circuits, any effort to accomplish this result is well justified. One of the simplest and best methods is to insert a radio frequency choke coil in such parts of the circuit as are liable to this trouble.

These choke coils should be small in size so as to minimise the magnetic field and should have low distributed capacity to prevent their acting as by-pass condensers for the radio frequency energy. A coil that will meet these two requirements and whose in-

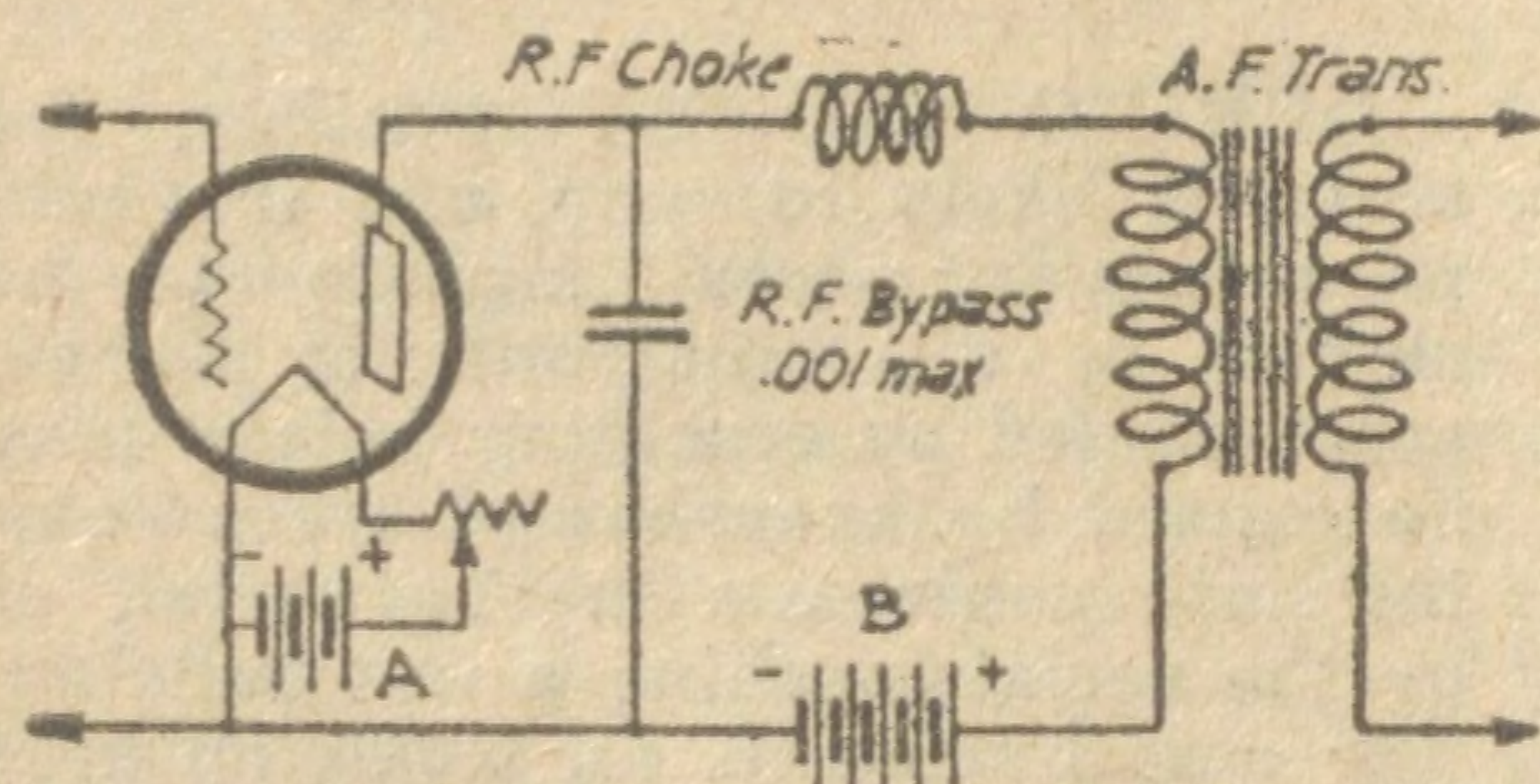


Fig. 1. Choke Coils in Last R.F. and First A. F. Stages of Ordinary Circuit.

ductance is about right for the average circuit can be made by helically winding 2000 turns of No. 36 enamel wire on a $\frac{3}{4}$ in. bakelite tube $1\frac{1}{2}$ in. long with 1-32 in. wall. This will allow 15 turns to the "pie" and give an inductance of about 85 millihenries.

If the same wire, with same number of turns, were applied in the ordinary layer wound manner, the value of the coil as a radio frequency choke would be very small, due to the distributed capacity effect of the layer winding.

Should the circuit require a coil with a higher value, put on 3,000 turns, 15 turns to the "pie." This would give a coil of about 125 millihenries. If 5,500 turns, 15 turns to

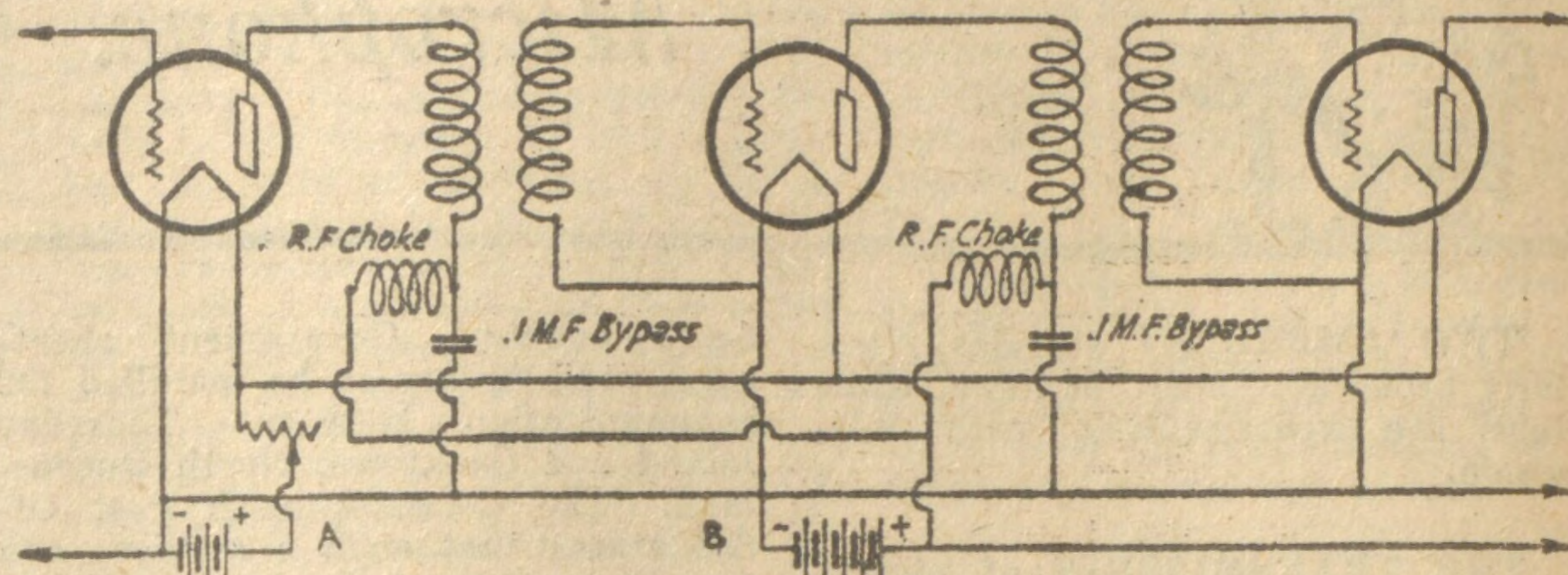


Fig. 3. Choke in "B" Battery Lead.

the "pie," a value of 600 millihenries would be obtained. These coils are all of the air core type. If iron is introduced into them instead of the air, the values of the three coils respectively would be, one henry, three henries, and twelve henries. For average uses, the 85 millihenry coil will prove the most universally adaptable.

Fig. 1. Last R.F. and first A.F. stage in ordinary circuit. The choke keeps the R.F. current from getting into the primary of the first A.F. amplifier. This is to reduce instability and howling.

Fig. 2. Regenerative circuit. In this type of receiver it is usually neces-

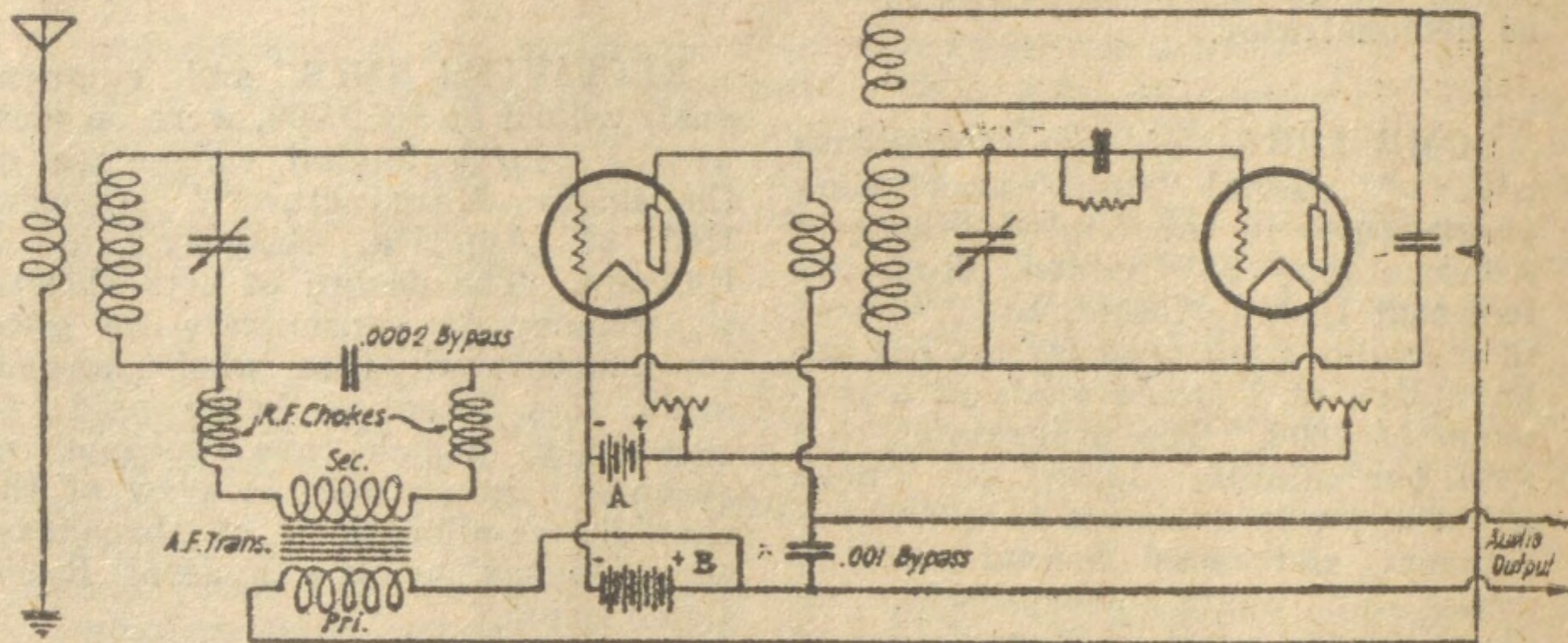


Fig. 4. Chokes in Regenerative Reflex Circuit.

Such coils can be bought ready-wound.

Some of the uses of R.F. chokes are shown herewith:—

sary to by-pass the primary of the first A.F. transformer to obtain feedback action. Here a by-pass condenser is used but in combination with a choke to keep the R.F. current out of the transformer.

Fig. 3. Application of a choke in the B battery lead as R.F. currents are often built up by the internal resistance of the B battery. Here the choke furnishes a D.C. path to the battery but keeps back any R.F. currents which might originate in the B battery.

Fig. 4. A regenerative reflex circuit. This circuit has been unsatisfactory because of the howling and squealing due to instability. This instability has frequently been caused by R.F. currents in the A.F. circuits. Here two chokes are used in such a way that A.F. oscillations only are permitted to return to the first amplifying valve.

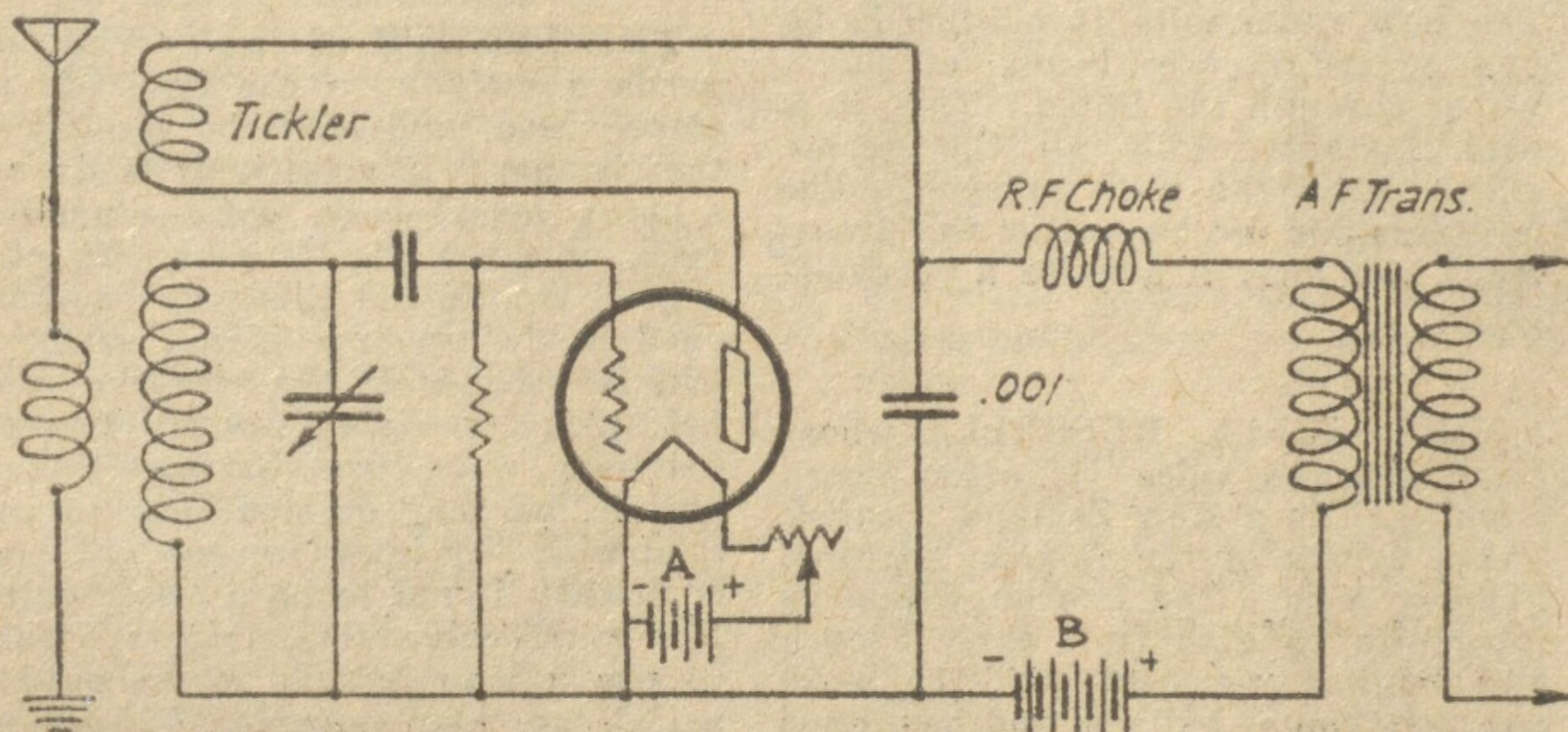


Fig. 2. Choke Coil Protector of First A. F. Transformer in Regenerative Circuit.

Fig. 5. Choke coil coupled amplification. This can be accomplished if chokes with very low distributed capacity are used. Coupling conden-

ted from going where they are not wanted, the operating characteristics of the set and the quality of reproduction will be improved.

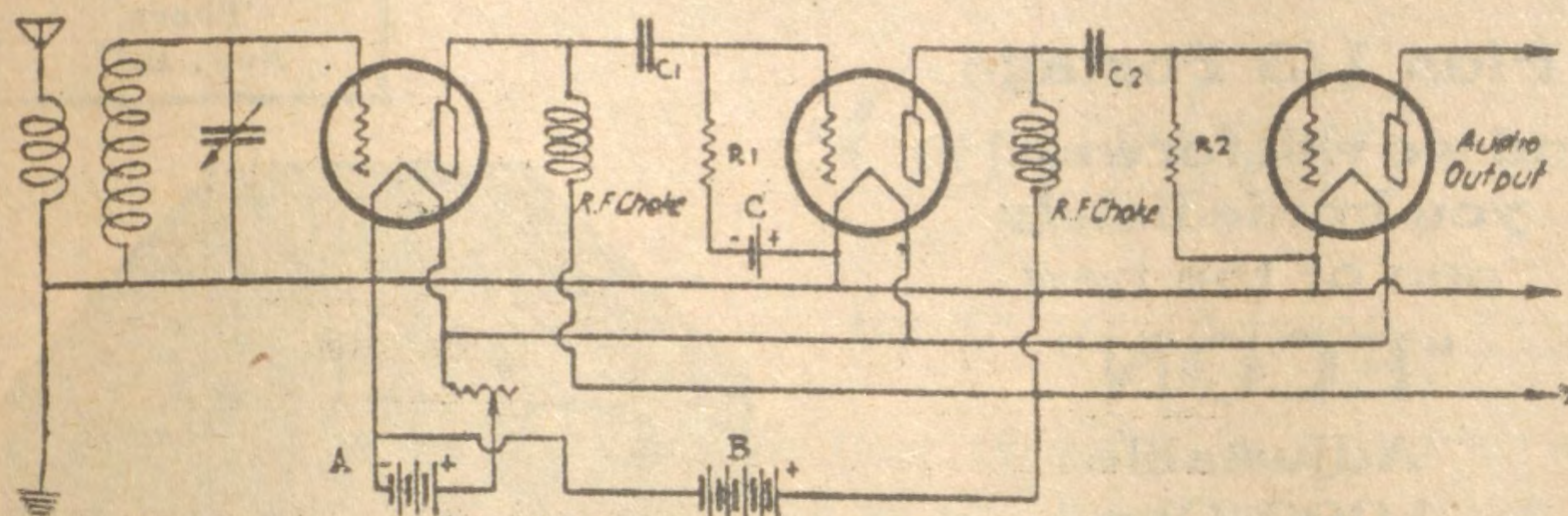


Fig. 5. Choke Coil Coupled Amplification.

ser C should have a capacity of .005 mfd. C2 .0005 mfd., while R1 is .3 megohm and R2 1 megohm. This type of amplification has one marked advantage over the conventional type of resistance coupled amplification. With choke coil coupled amplification, standard valves at economical B battery potentials can be used and at the same time achieve a high quality of reproduction.

Fig. 6. B battery leads with chokes in all leads. As pointed out above defective B batteries tend to build up r.f. oscillations. If these are preven-

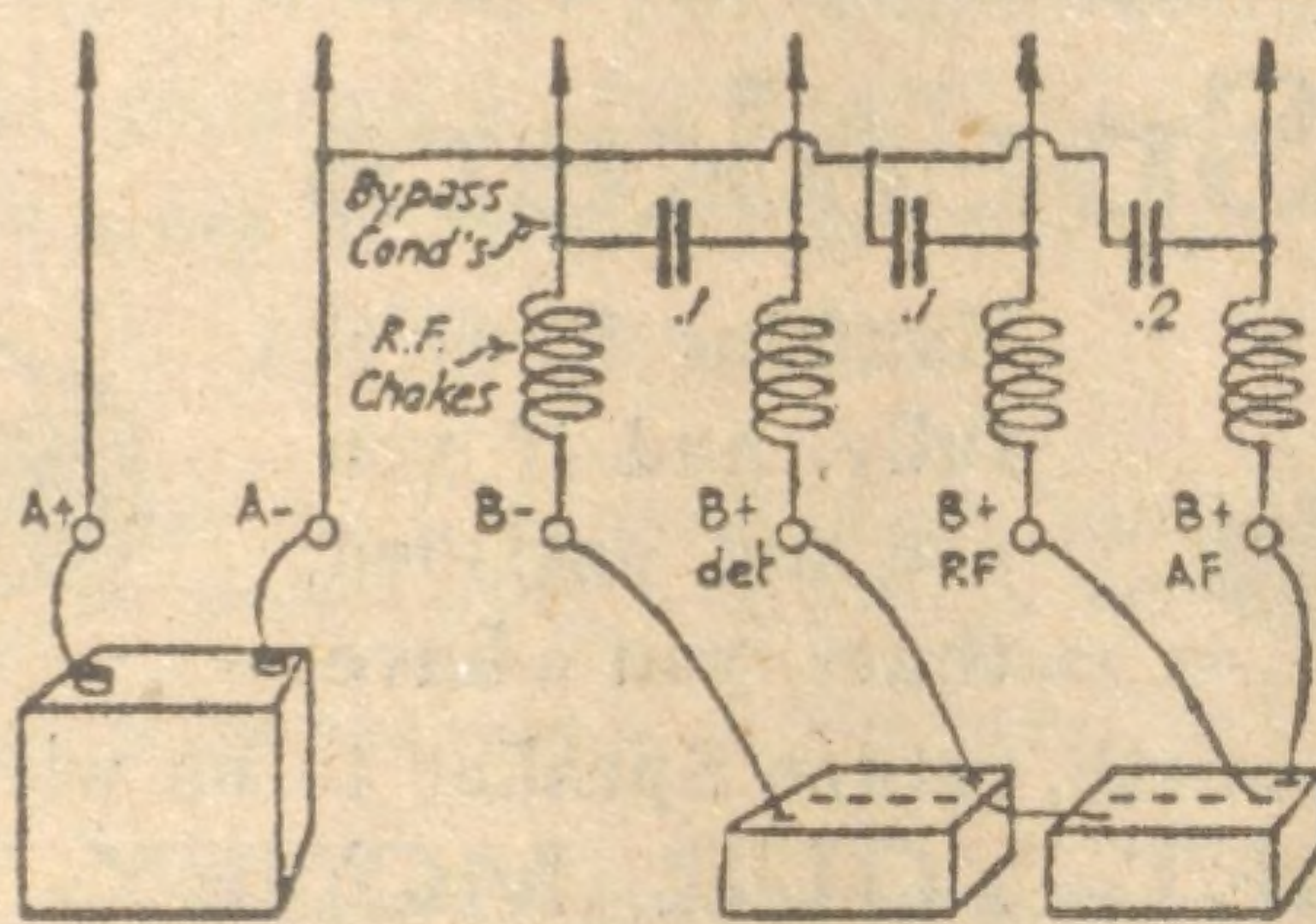


Fig. 6. Chokes in all "B" Battery Leads.

Controlling the Screen Grid Valve.

MANY sets and circuits utilising the new screen grid valve have been described in these columns. Nevertheless, little or nothing has been said regarding the need for close control of the operating voltages. The manufacturers of shielded grid valves state that the screen grid should have a 45-volt positive bias, yet in actual practice it has been found that this voltage is quite critical, and that it varies considerably with changes in other circuit factors. Under certain conditions, about 20 volts is most satisfactory, while with certain other conditions, up to within 10 volts of the plate voltage provides the most sensitive operation.

It therefore becomes apparent that if this super-sensitive radio valve is to be employed at maximum efficiency, which is usually the intention for using it in place of the standard three-element valve, a high voltage source, together with a micrometric

resistance means of control, is required. The arrangement shown in the accompanying diagram is offered as a suggestion. It will be noted that the 135 or 180 volt source is reduced to the proper applied voltage by means of a standard clarostat, or micrometric variable resistance of enormous range, with a by-pass condenser of at least 1 mfd. connected across the screen grid terminal, and the negative filament terminal of the tube, so as to prevent feed-back and oscillation. The variable resistance is adjusted until the greatest amplification, together with crystal-clear quality, is obtained.

The plate voltage and grid bias for the screen grid valve are not critical. The recommended values are 135 volts for the plate and 1½ volts for the grid bias.

Simplifying the Operation of the Short-Wave Tuner.

IN the operation of practically any short-wave receiver or short-wave adapter, trouble is generally experienced with "threshold oscillation." The setting of the plate condenser is too critical for voice, because of the number of plates required to cover the capacity range for regenerative action at all frequencies. Furthermore, it must follow the tuning condenser too closely, to say nothing of the fact that the dial setting of the tuning condenser is affected. This is the objection noted in all such receivers or adaptors employing condenser plate control only.

Short-wave enthusiasts have found that as soon as a variable resistance is inserted across the tickler, the objections disappear. The variable resistance, of course, must be micrometrically variable—not step-by-step—for otherwise we are back to some of the objections cited against the usual plate condenser. In this respect the volume control clarostat is the usual choice, because it provides micrometric adjustments over a wide range of resistance, and is absolutely noiseless in operation. In this arrangement the clarostat becomes the main control of regeneration and should therefore be mounted on the panel, while the midget condenser, for tuning the plate circuit for the desired degree of regeneration, now becomes an auxiliary means which does not often have to be adjusted and can therefore be mounted on the sub-panel.

The overall flexibility, ease of tuning, disappearance of body capacity, and the ability to get away from intermittent oscillation, swing, all go to make the short-wave receiver or adaptor more satisfactory with the clarostat throttle regeneration control.

THE FILAMENT supply, if an accumulator, should never be allowed to run down, otherwise not only will weak signals result, but the accumulator may be damaged. The wet battery should be charged regularly, and the voltage not allowed to fall below 3.6 volts in the 4 volt type, and 5.4 volts in the 6 volt type. As the accumulator discharges, the filament rheostat should be gradually increased to compensate for the voltage drop. The terminals should occasionally be cleaned, then wiped with a vaseline rag.

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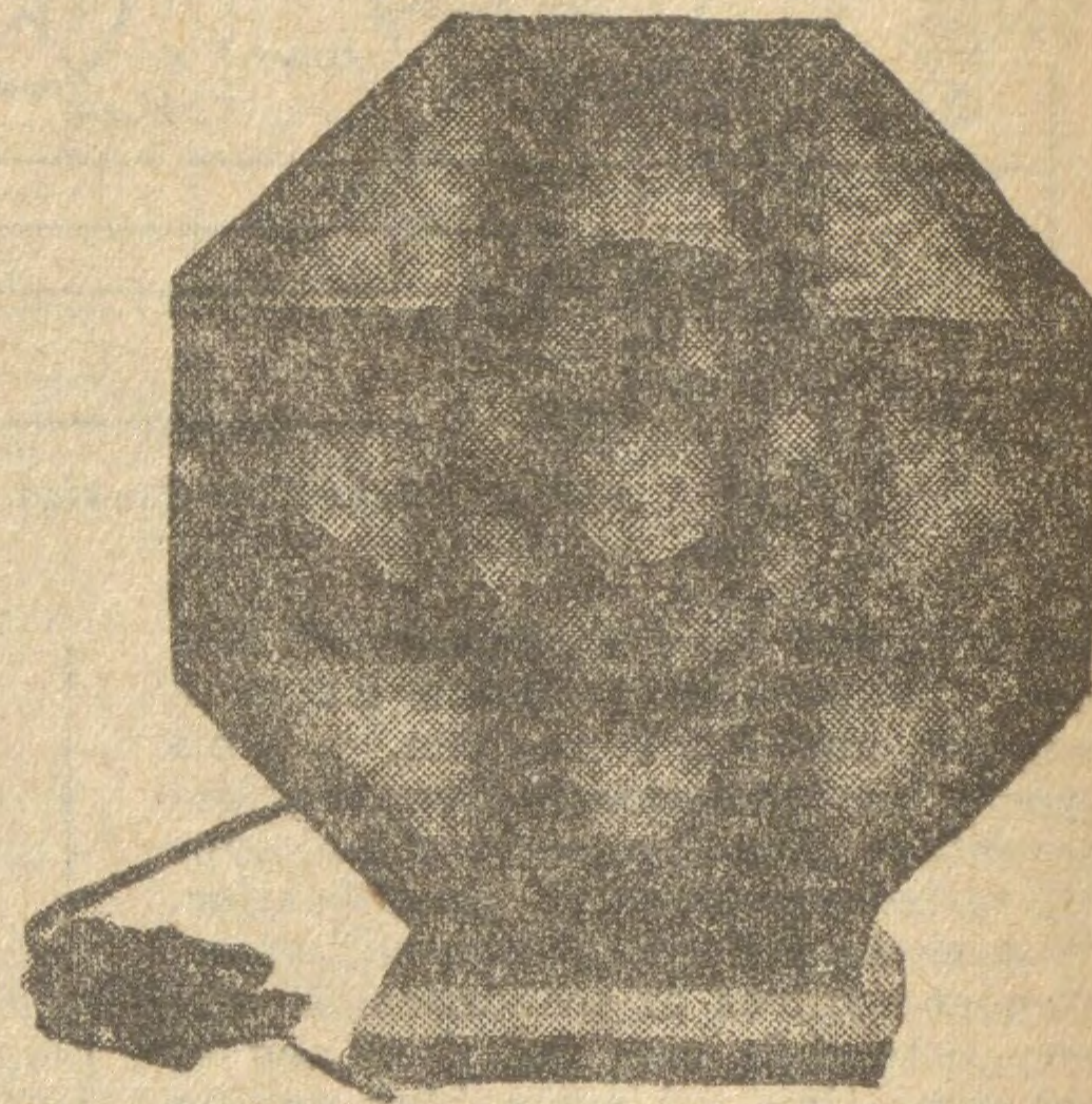
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A Wave-Meter and a Valve Checker.

By W. G. Nichols.

Every wireless enthusiast should be in possession of the valuable accessories described in this brief article. Even if you are not a constructor, the checker is useful in determining at a glance the suitability of valves for your particular receiver. The wave-meter was designed primarily for short wave calibration, but corresponding coils may be substituted for the broadcast band of wavelength.

IN the various homes of amateur experimenters and set-builders, there seems to be a surprising lack of radio instruments as distinct from radio receivers which can be constructed at home, and which are very much worth while for both making and maintaining a radio set.

Suppose, for instance, you possess a shortwave receiver and wish to receive a station on a wavelength of, say, 37 metres. Without a wave-meter you must resort to the hit or miss method, which is so frequently used by radio fans; but if you are in possession of one of these very handy instruments, the exact wavelength can be found in a few seconds. In the case of the valve-checker, it can be very quickly decided whether a certain valve should be used as a detector or an amplifier, or whether it should be put to rest in the nearest junk-box.

In giving constructional details for the above apparatus, we will deal with the valve-checker first.

As a rule, valve-checkers fall into one of two classes. The first consists of a simple valve circuit with an indicating device in the plate circuit such as a milliammeter. This circuit is illustrated in Fig. 1. When a valve is in operation in such a circuit, if the filament emission is high or low, a corresponding reading will be shown on the meter. If the filament is broken or the valve shorted internally, a zero or a very high reading will be obtained.

In Fig. 2 is shown a circuit which incorporates all the advantages of the first type, but also shows the amplification factor by altering the potential applied to the grid from positive to negative. These tests, however, are based on "static curves," and do

not give the true worth of the valve. The circuit shown in Fig. 3, however, provides the tests necessary to also show the worth of the valve as

an oscillator; all it is necessary to do to find out if the valve is a good oscillator is to open the switch marked "S," and to note the increase in plate current caused by coil L2 being included in the circuit. By short-circuiting the coil L2 with the switch S, we find we have a valve-checker of the filament emission measurement type. If, on opening the switch, there is no increase in plate current, the valve is either worn out or for some other reason unable to oscillate. With the proper voltage of 45 volts and a negative potential on the grid, a plate current flow of two or three milliamperes will be shown; but with L2 in circuit, this will increase to about 10 or 12 milliamperes, because the valve is now oscillating and draws more current.

Another interesting test that can be easily carried out with this meter is to find at what filament voltage any valve will start to oscillate. This is done by inserting the valve in the socket. Open switch "S" and put the rheostat "R" just so that all the resistance is in circuit. Gradually increase the voltage until the milliammeter indicates a sudden increase in plate current; this shows that the valve is now oscillating. A standard 3.5 to 4-volt valve on test was found to oscillate at 2.5 volts.

When building this checker, first obtain a piece of Bakelite eight inches by five inches, and drill according to the drilling template shown in Fig. 4. Be sure when purchasing the meters to get the two-inch panel mounting type, as meters any larger than two inches will not fit into the checker here described. In mounting the valve socket, the terminals must be replaced with small nuts and bolts having countersunk heads, so that the socket fits flush on the underside of

LIST OF PARTS FOR THE VALVE CHECKER AND WAVEMETER.

- 1 Bakelite Panel, 8 x 5 x 3-16in.
 - 1 Ferranti or Jewell, 0-50 milliamperemeter.
 - 1 Ferranti or Jewell, 0-6 Voltmeter, D.C.
 - 1 Battery Switch.
 - 1 Single Pole Double Throw Panel Switch.
 - 1 Former, 1½in. diam. x 2½in. long.
 - 1 Small Reel 26 D.C.C. Copper Wire.
 - 1 Old Pattern U.V. Valve Socket.
 - 1 U.V. Valve Base.
 - 1 English Type Valve Socket.
 - 4 Terminals.
 - 5 Phone Tip Jacks.
 - 1 30 ohm. Rheostat.
 - 1 .002 Wetless Fixed Condenser.
-
- 1 Bakelite Panel, 7½ x 5 x 3-16in.
 - 1 Sheet 14 Gauge Aluminium, 7½in. x 5in.
 - 1 J.B. or Pilot, .00025 Variable Condenser.
 - 1 Pilot Vernier Dial.
 - 4 Formers, 3in. diam. x 2in. long.
 - 2 Telephone Type Terminals.

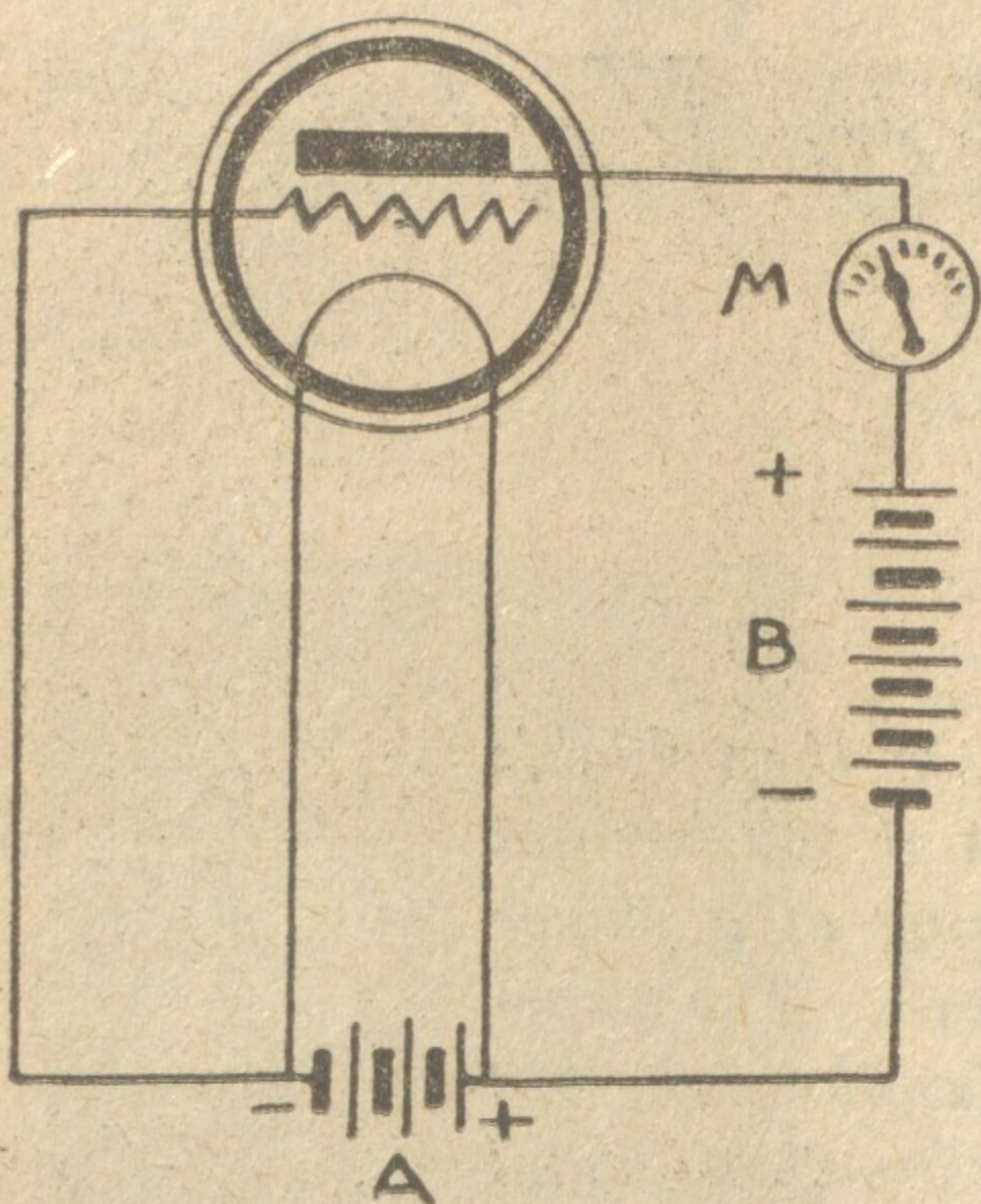


Fig. 1.

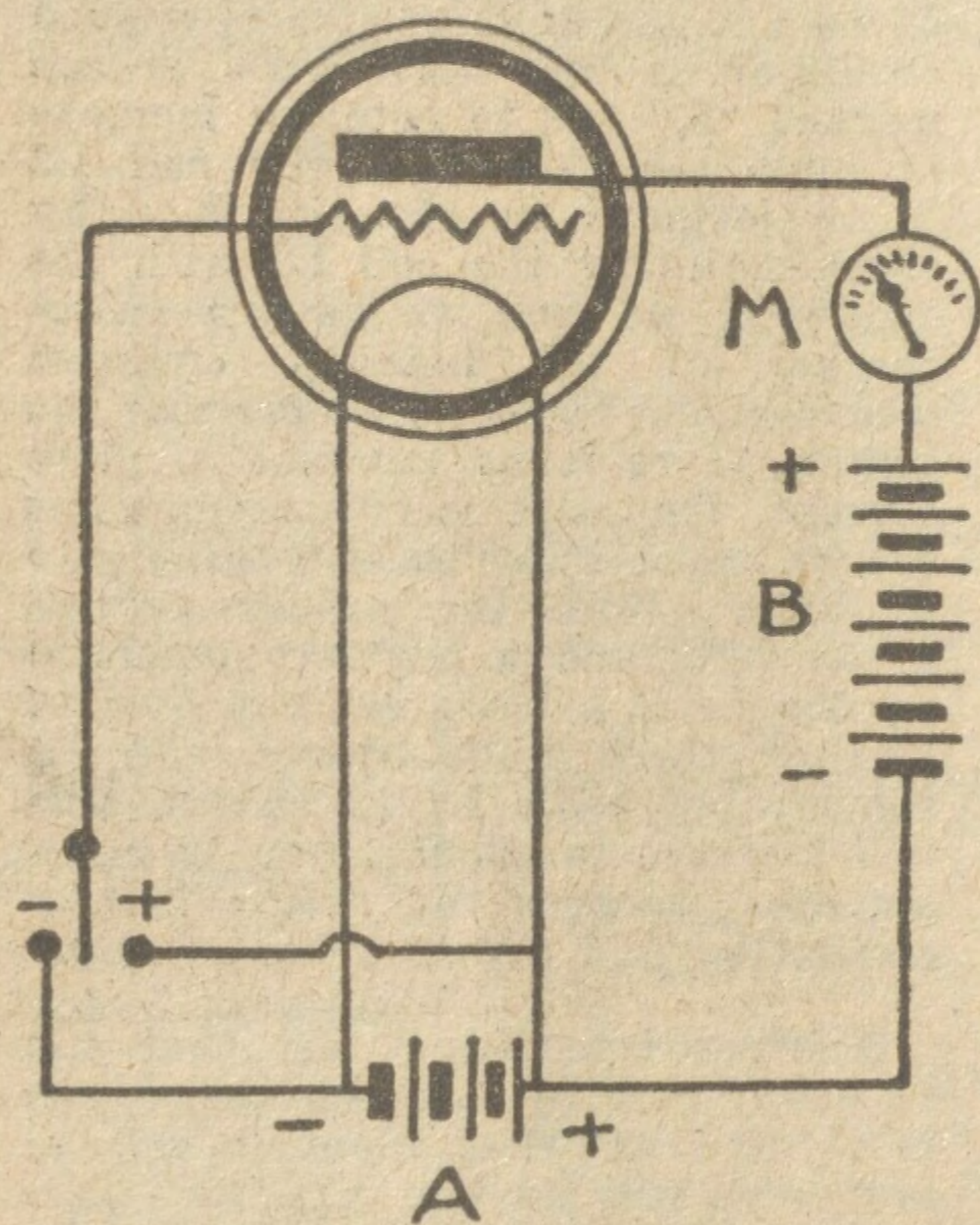


Fig. 2.

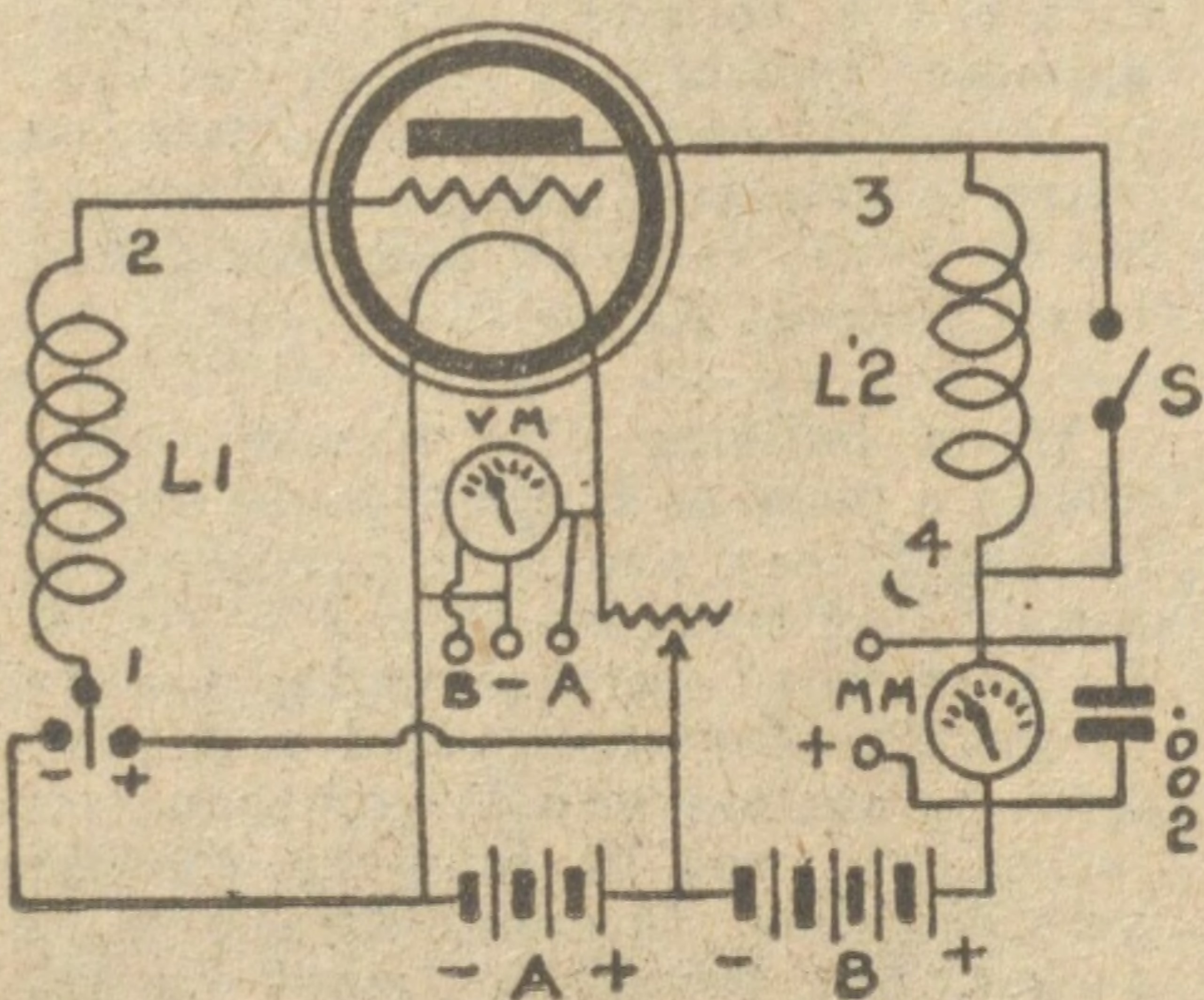


Fig. 3.

the panel, and the connections can be taken from underneath.

On the right of the valve socket is mounted the filament switch which is used for shorting coil L2. In mounting this switch the indicating plate should be reversed so that when it reads ON the switch is really OFF, thereby putting L2 in circuit.

On the left of the valve socket is mounted a small single-pole double-throw knife switch, which varies the potential on the grid of the valve from negative to positive. Above these switches are the terminals for the "A" and "B" batteries, and underneath are situated the "A" and "B" voltmeter and the milliammeter, and the rheostat is between the two meters.

The small 'phone tip-jacks under the meters are mounted there so that the meters may be used separately while the checker is not in use. Under the voltmeter there are three, the centre one is a common negative; the one on the left "A" positive, and the one on the right "B" positive. The next consideration is the winding of the coils L1 and L2. Both coils are wound on a single former $1\frac{1}{2}$ inches diameter and $2\frac{1}{2}$ inches long. L1 consists of 22 turns, and L2 of 10 turns. Both coils are wound with 26 O.C.C. wire, run in the same direction, and are separated by a space of about one inch. The wiring of the checker is quite simple, and should be easily followed from the accompanying diagrams.

After this is completed the checker should be mounted in a suitable wooden case, the "A" and "B" batteries connected, and then all is ready to test the valves. In conjunction with this checker the builder should have two sets of leads with the necessary plugs attached, so that independent tests may be carried out with voltmeter and milliammeter by plugging these leads into the jacks provided on the panel under the meters.

A simple adapter can easily be constructed for using valves with English bases in the UV socket provided with the tester, by following these directions:—

Procure an old burnt-out UV-201A valve with a standard UV base. Break the glass part of the valve, remove grid, plate and filament supports, also the binding composition which holds the glass to the Bakelite of the socket. Next get an old type English valve socket, cut the legs off short, and connect a piece of wire about two inches long to each leg. Now place the English socket inside the UV base, and heat the legs of the UV base until the solder falls out. Slide the wires from the legs of the English socket through the hole in the

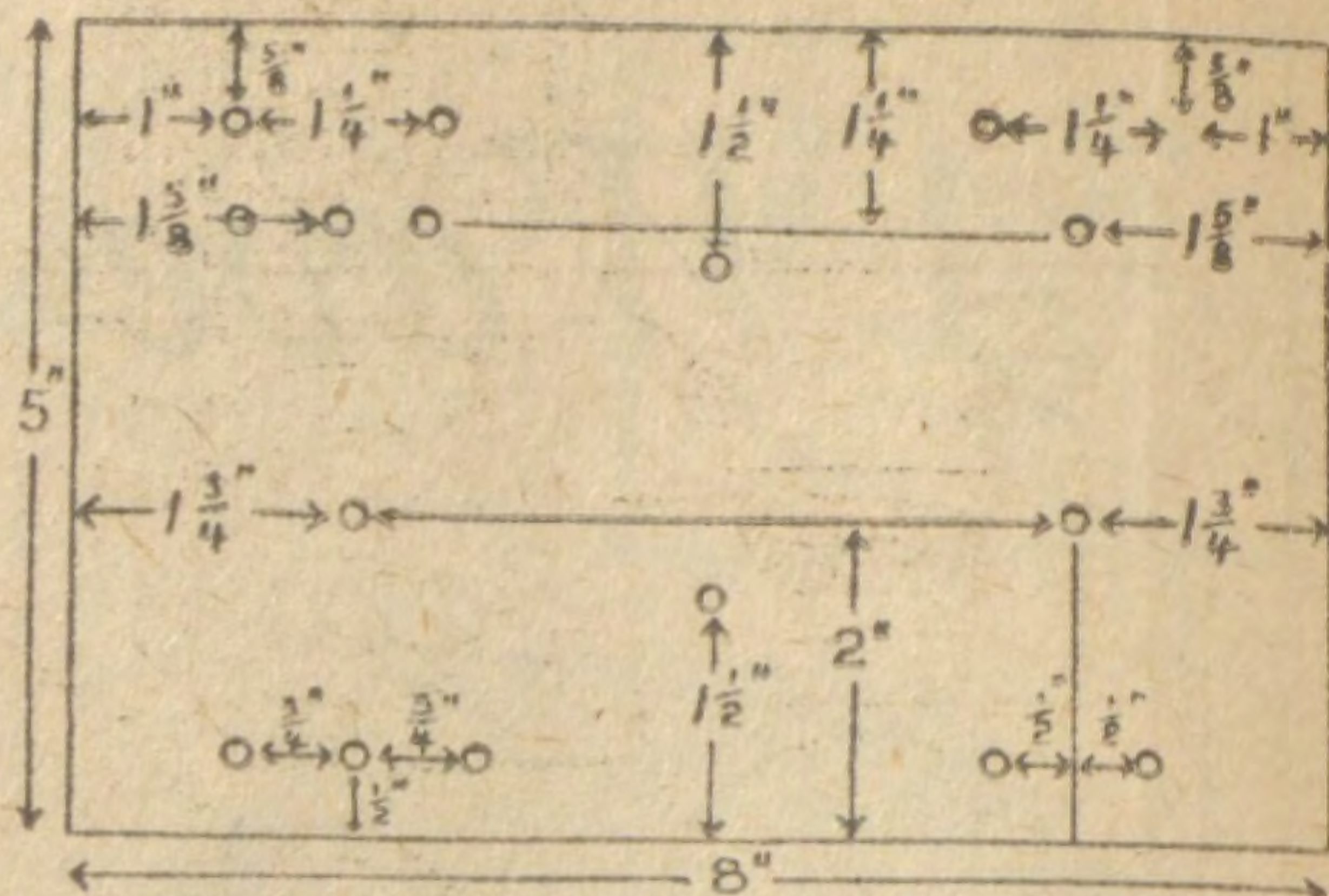


Fig. 4.

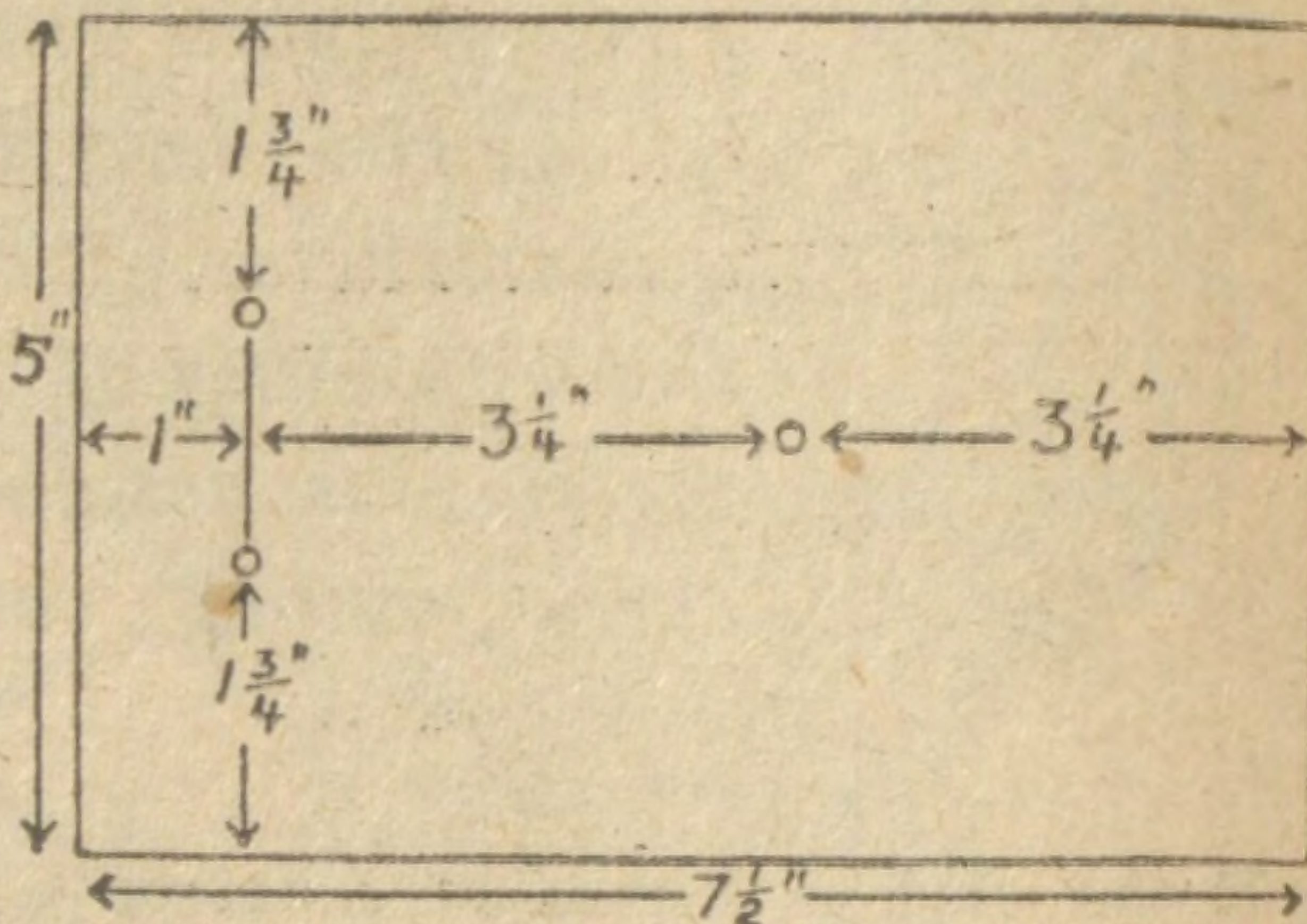


Fig. 5.

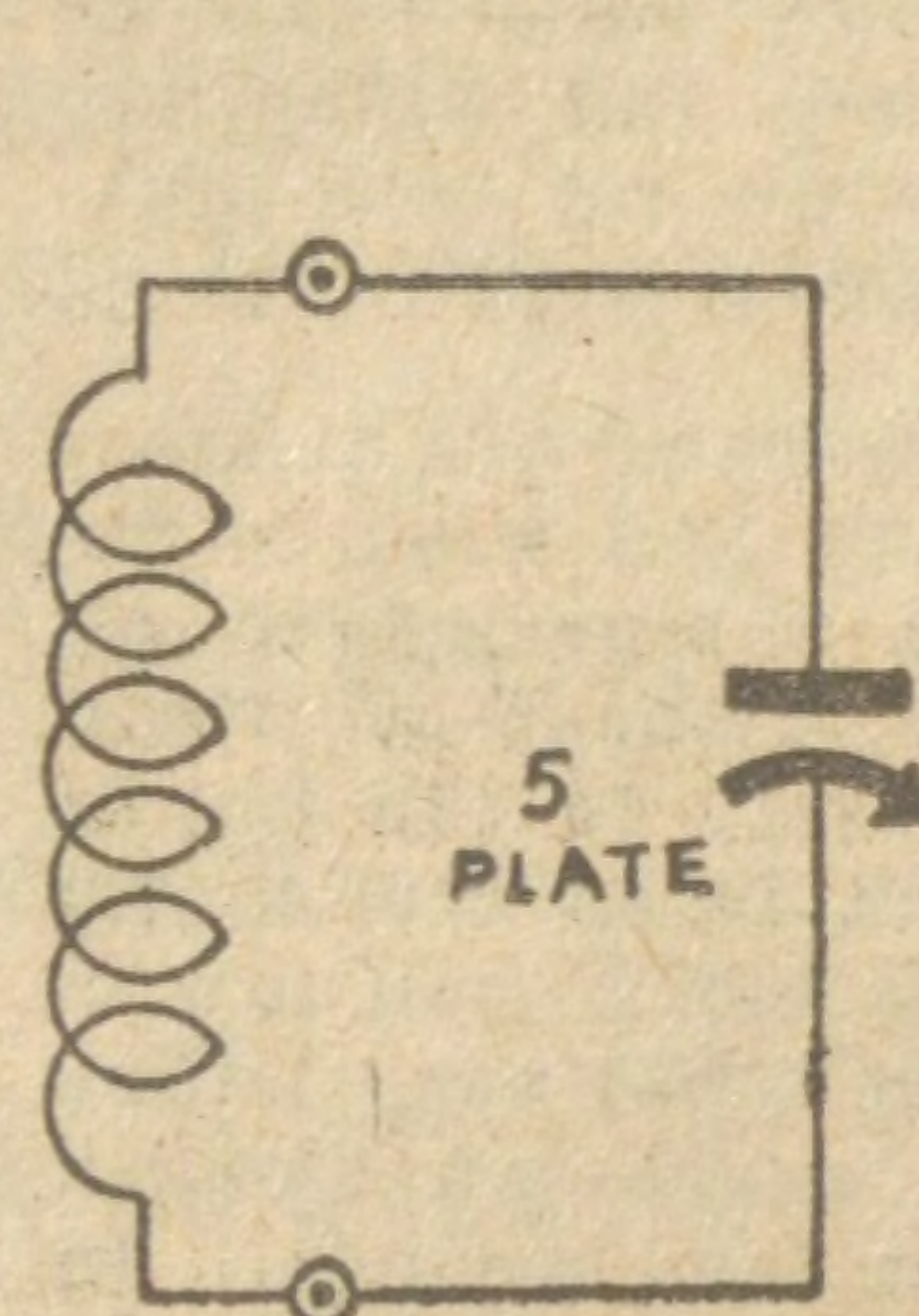


Fig. 6.

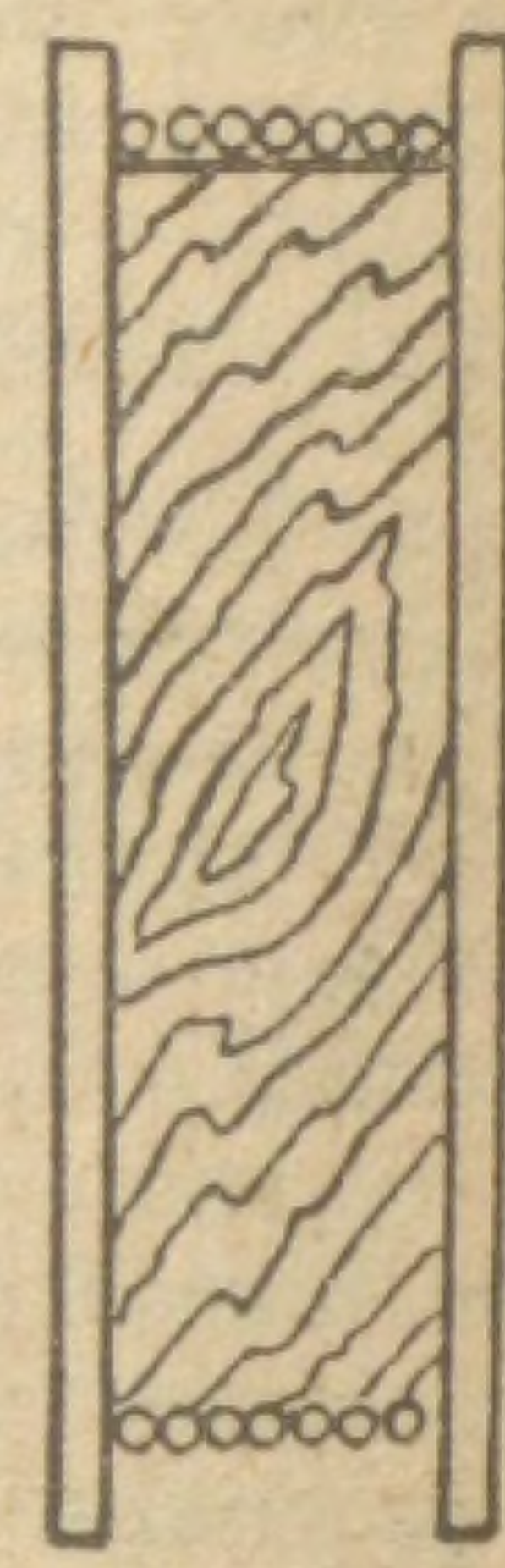


Fig. 7.

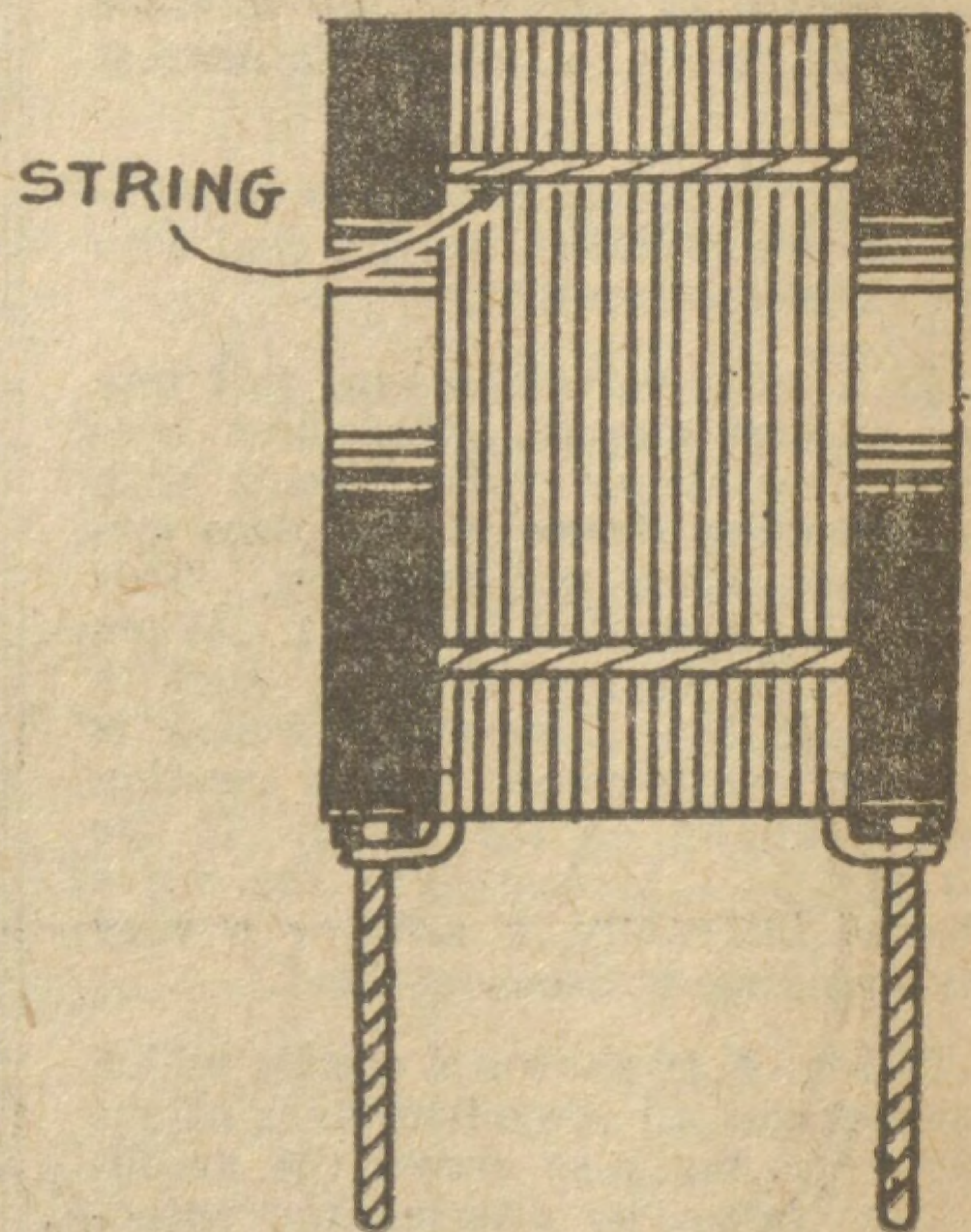
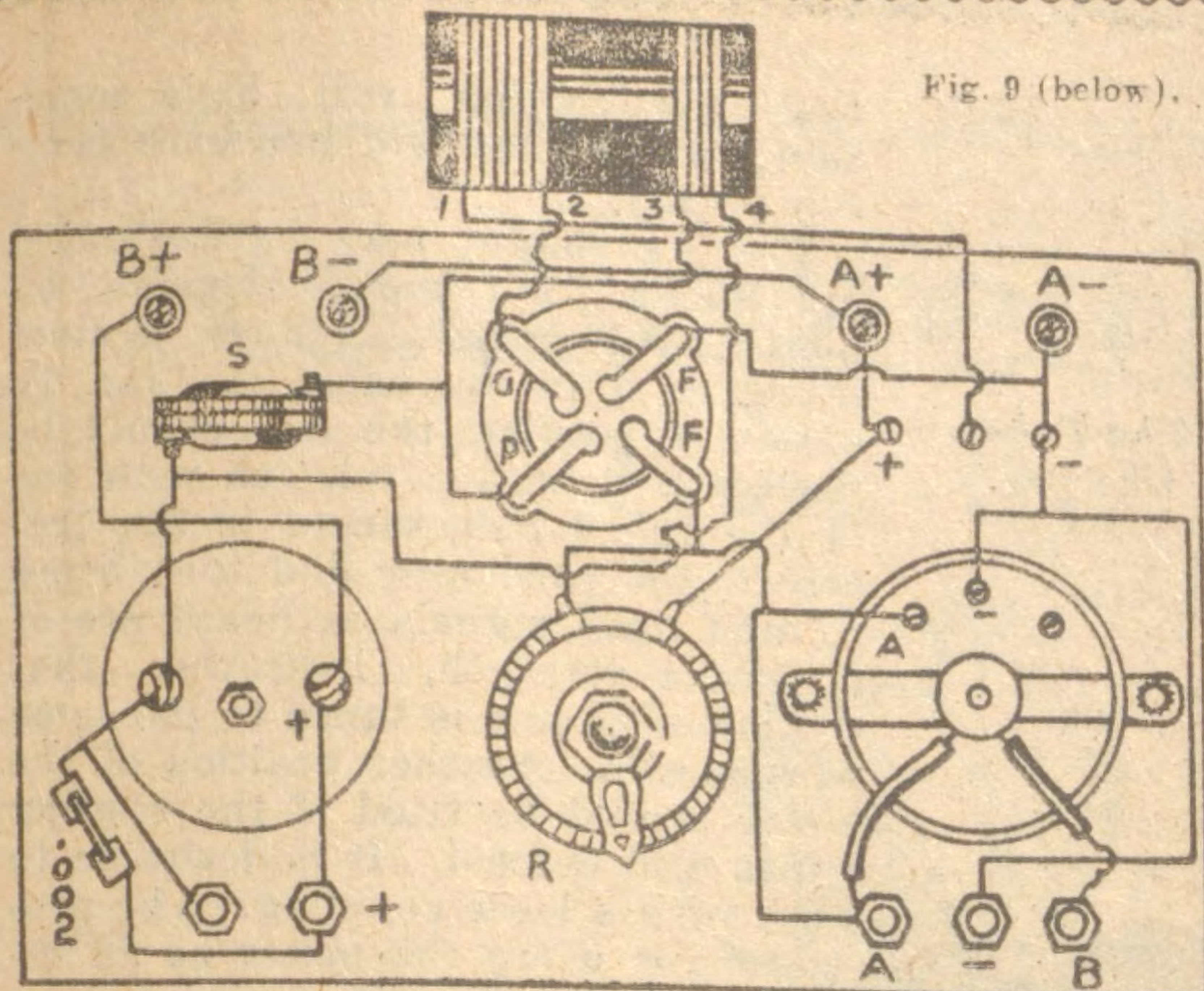


Fig. 8.

Fig. 9 (below).



A back view of the panel of the tube checker.

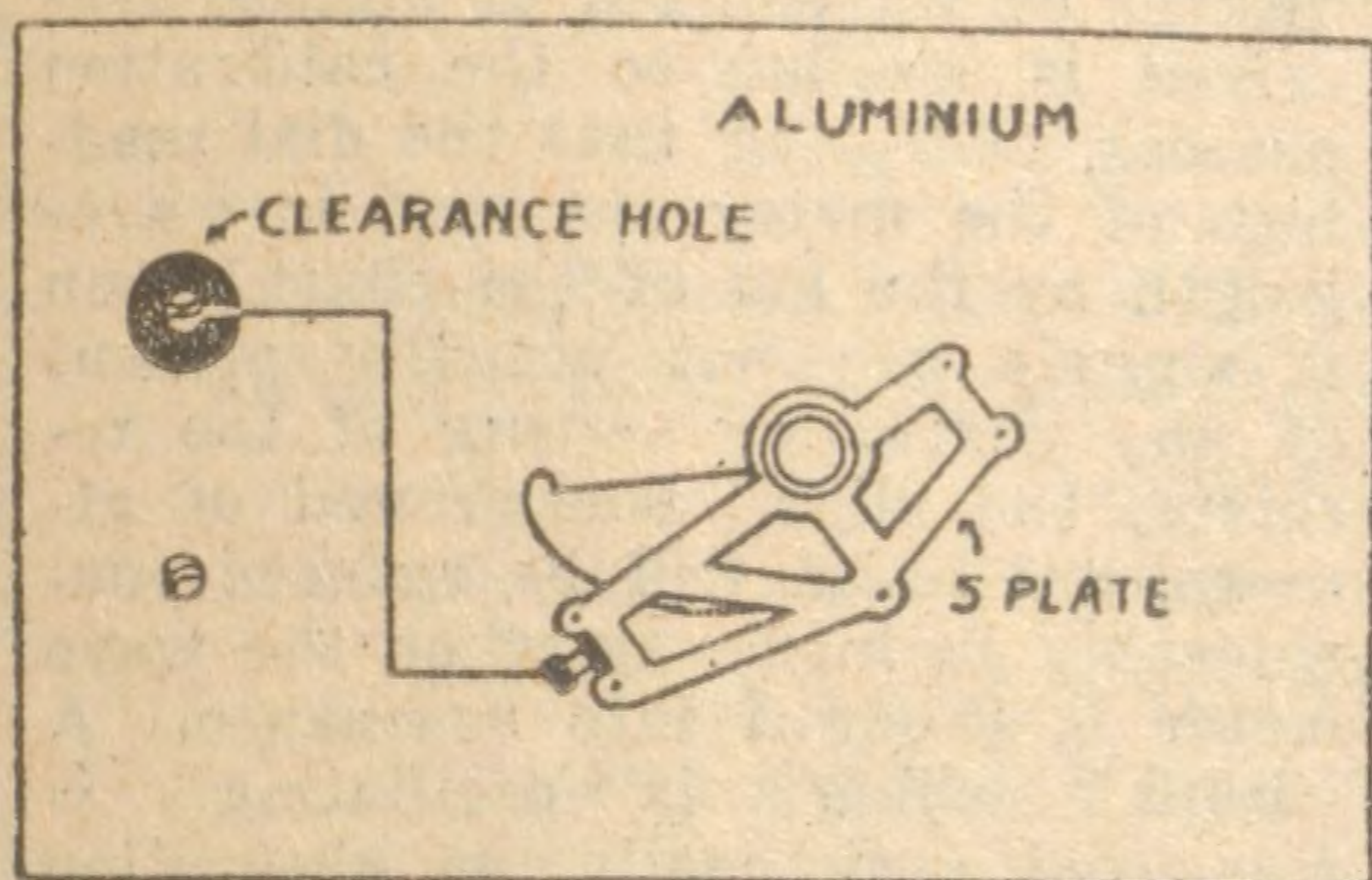
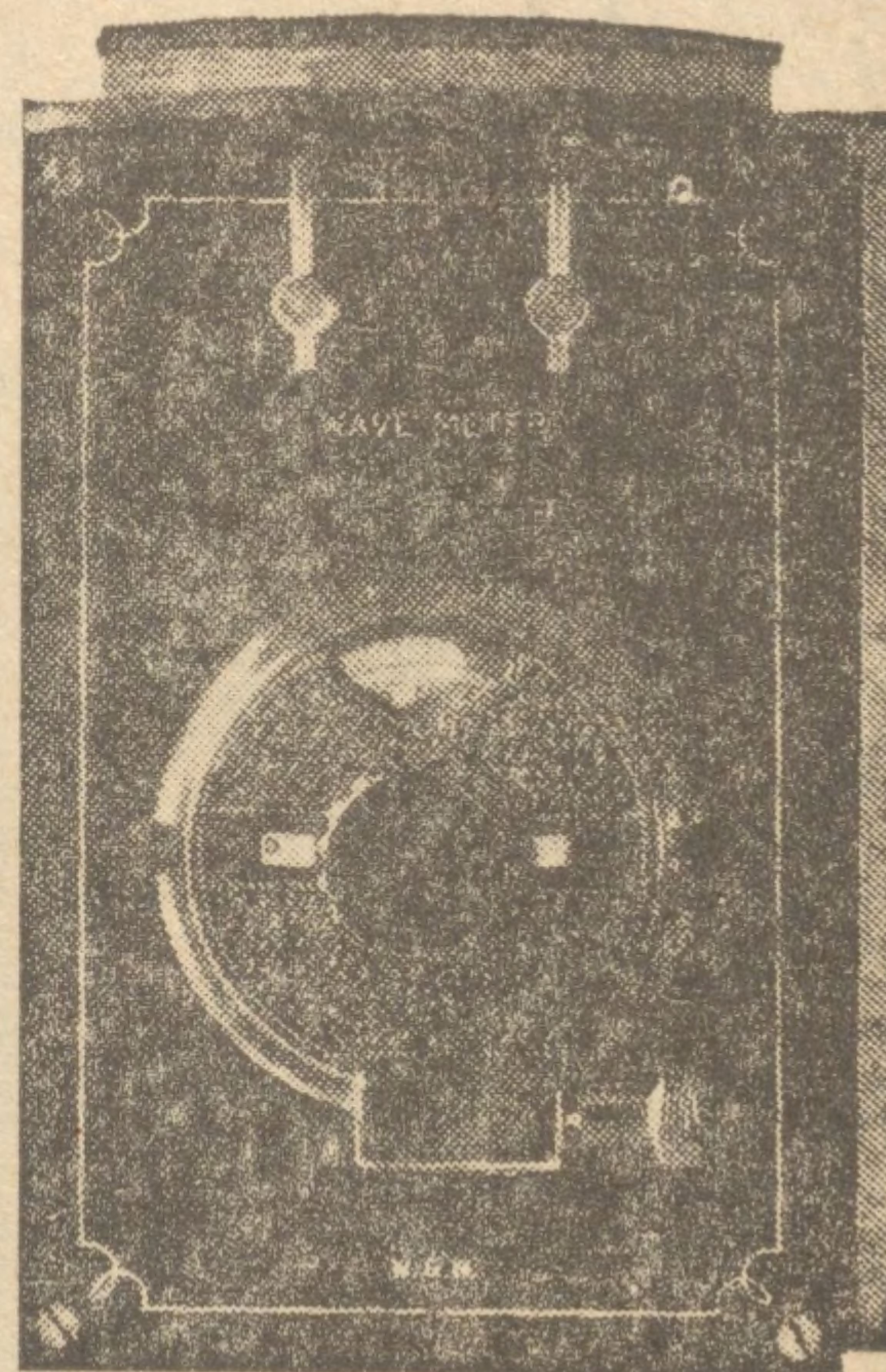


Fig. 10.

legs of the UV base, making sure to take the wire from the plate legs of the English socket to the plate legs of the valve base, and so on with the other three leads. Make sure the leads do not short inside the UV base, and then fill same up with wax, holding the English socket in an upright position, so that when a valve is plugged in, it will stand upright.

Now for the wave-meter. The panel in this piece of apparatus measures $7\frac{1}{2} \times 5$ ins. Now take a piece of aluminium the same size as the Bakelite and drill both Bakelite and aluminium as shown in the drilling template, Fig. 5. Next remove the aluminium and cut a clearance hole around one of the terminals which hold the coils. Replace the aluminium on the Bakelite, and mount the condenser, the two terminals for holding the coils, and the vernier dial. When fixing the dial to the condenser, drill a small hole into the shaft of the condenser, so that the fixing screw of the dial will penetrate into the shaft and will not have any chance of slipping. The circuit used in this meter may be seen in Fig. 6, and is of a very simple type, being a coil shunted by a variable condenser of small capacity. Now complete the wiring of the meter from the wiring diagram, and mount in a suitable case.

In constructing the coils, cut three circles of wood, two pieces being $3\frac{1}{2}$ ins. in diameter, and one piece 3 ins. The two larger pieces are cut from wood $3\frac{1}{2}$ in. in thickness, while the smaller piece has a thickness equal to the number of turns of wire that are to be put on the coil. The construction of these coils should be quite clear after looking at Fig. 7. In the coil chart which is given in this article it will be noticed that one coil has 17 turns. This coil is wound on a 2 in. length of 3 in. Bakelite tubing, and the winding secured by tying with fine string, as in Fig. 8, and given a light coat of collodium flux. This is obtainable at the Aus-



A plan view of the wave meter.

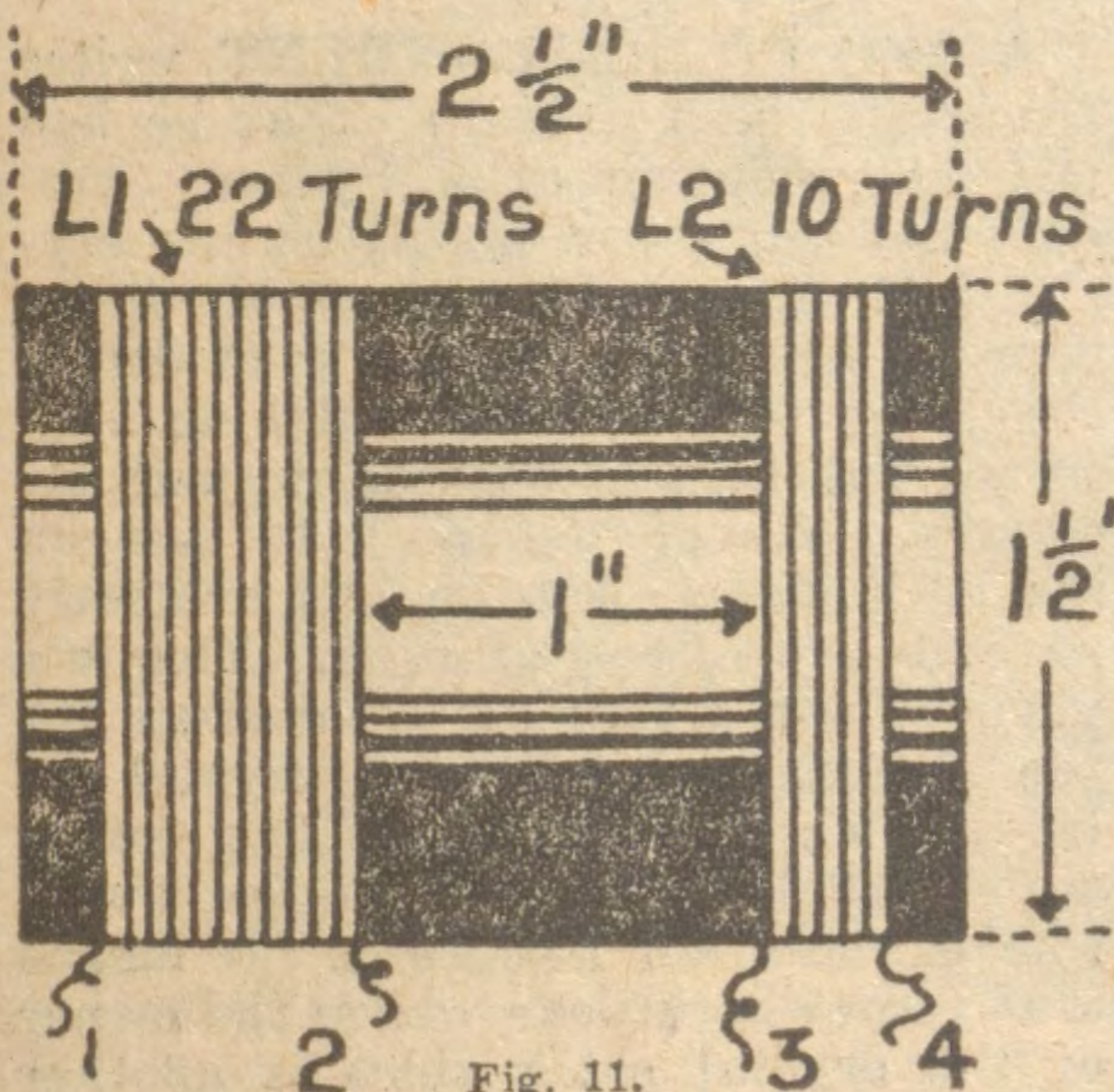


Fig. 11.

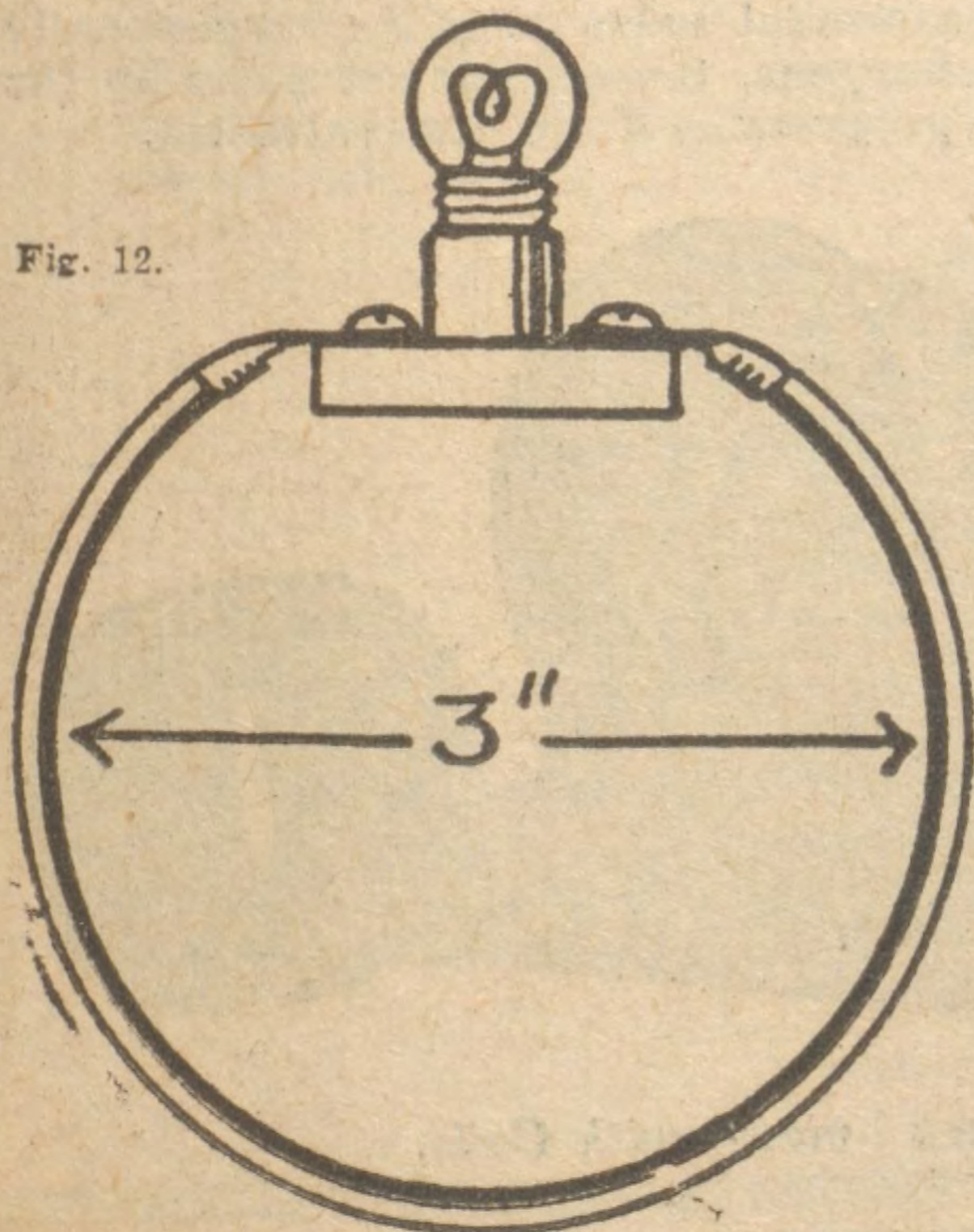
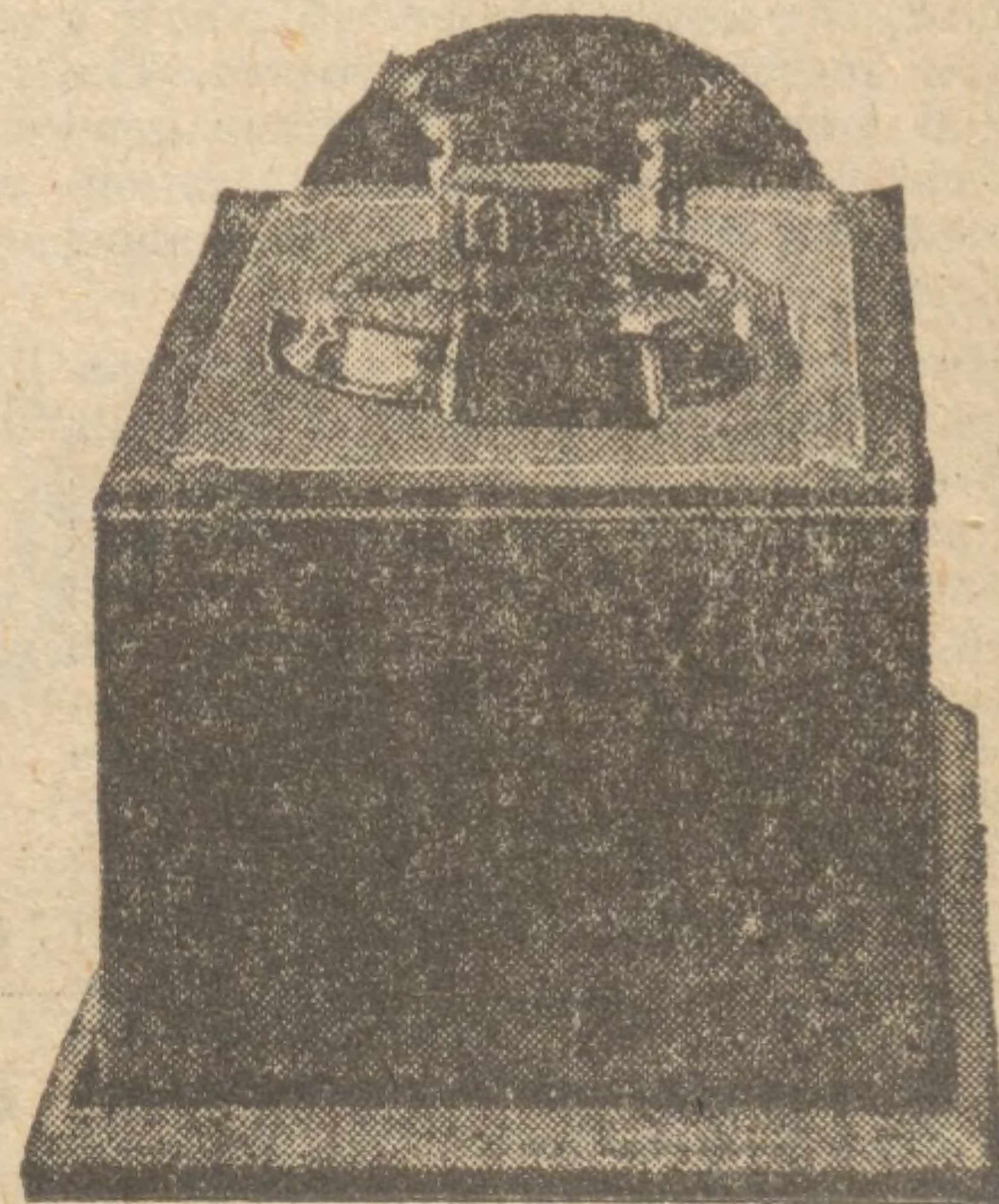
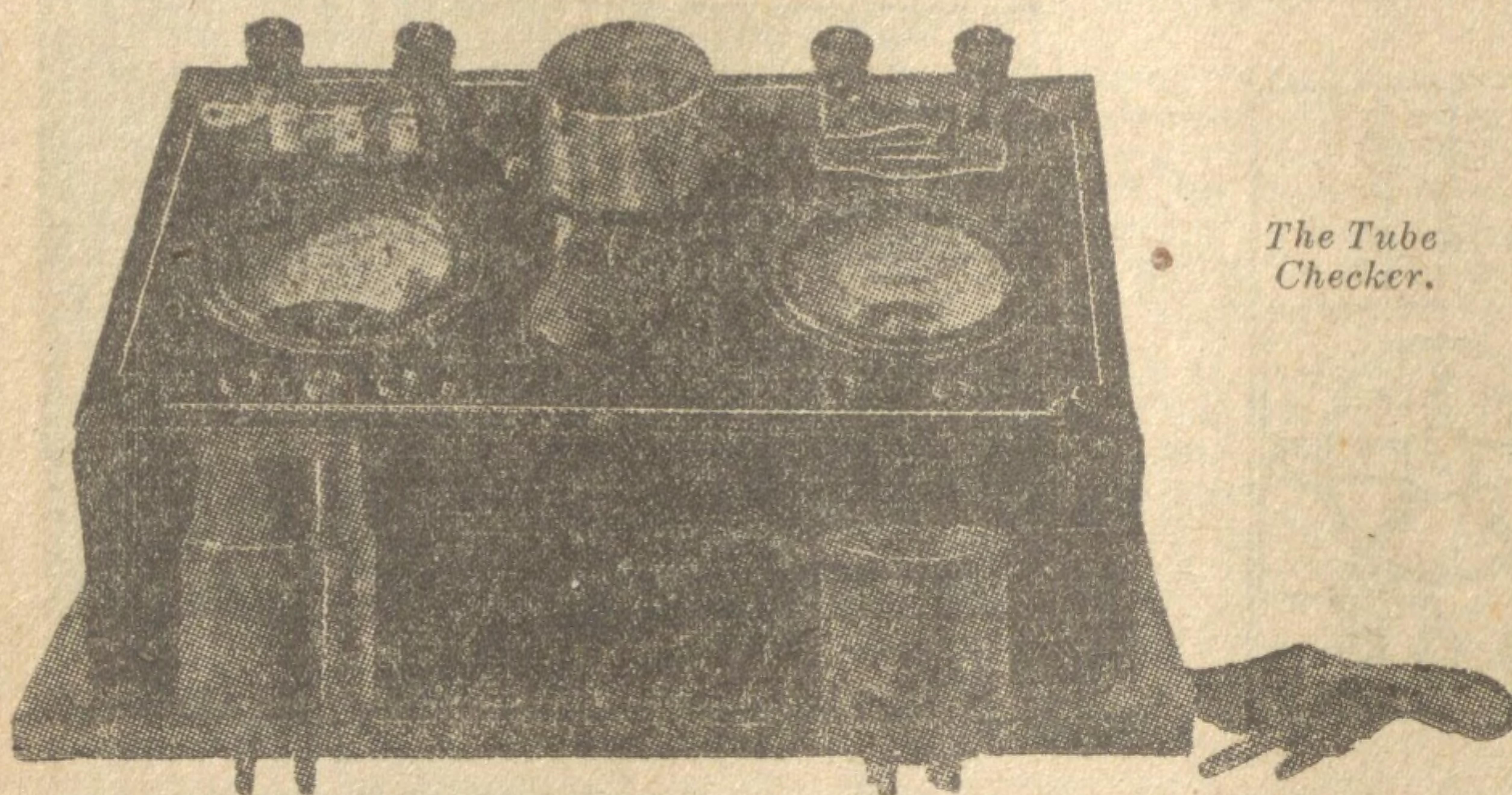


Fig. 12.



The wave meter—front view.



The Tube Checker.

tralian Drug Stores. Two pieces of threaded brass rod are affixed to each coil. The pieces of rod are spaced 1½ in. apart, and are connected to the two ends of the coil.

For the amateur who wishes to check up the wavelength of his transmitter, I would suggest that he make the resonance indicator which is shown in one of the sketches in this article. It is very simply constructed, being a 3 in. turn of 16 gauge wire connected to each side of a small flash lamp, the whole being mounted between two porcelain wire clamps. In actual use this indicator should be placed between the wavemeter and transmitter coil being about 2 ins. from the wavemeter coil. By having the lamp outside the meter it avoids changes in calibration, and also reduces the resistance of the meter when it is being used with a receiving set.

Another way is to watch the milliammeter in the plate circuit of the transmitter. When resonance is obtained, the milliammeter will show a slight increase in plate circuit. The aerial ammeter is still another good indicator. When resonance is obtained, the aerial ammeter will show a decrease in current.

Having seen that all the connections in both the meter and the coils are rigid, the next job is to get the meter calibrated from some standard reliable meter. Having done this and obtained the charts for each of the three coils, the following hints on how to use the meter will not be amiss. If you have received a station and you wish to find out his wavelength, make sure the receiver is oscillating, and then slide the wavemeter towards the receiver, so that the coils of both receiver and transmitter are inductively coupled and revolve the dial of the meter. If the meter is too close to the receiver

it will be noticed that you hear two clicks which are separated by a few degrees on the dial, and that between these two points the receiving set goes out of oscillation. The meter should then be slid further away from the set until the two clicks become nearer together until they finally become one click.

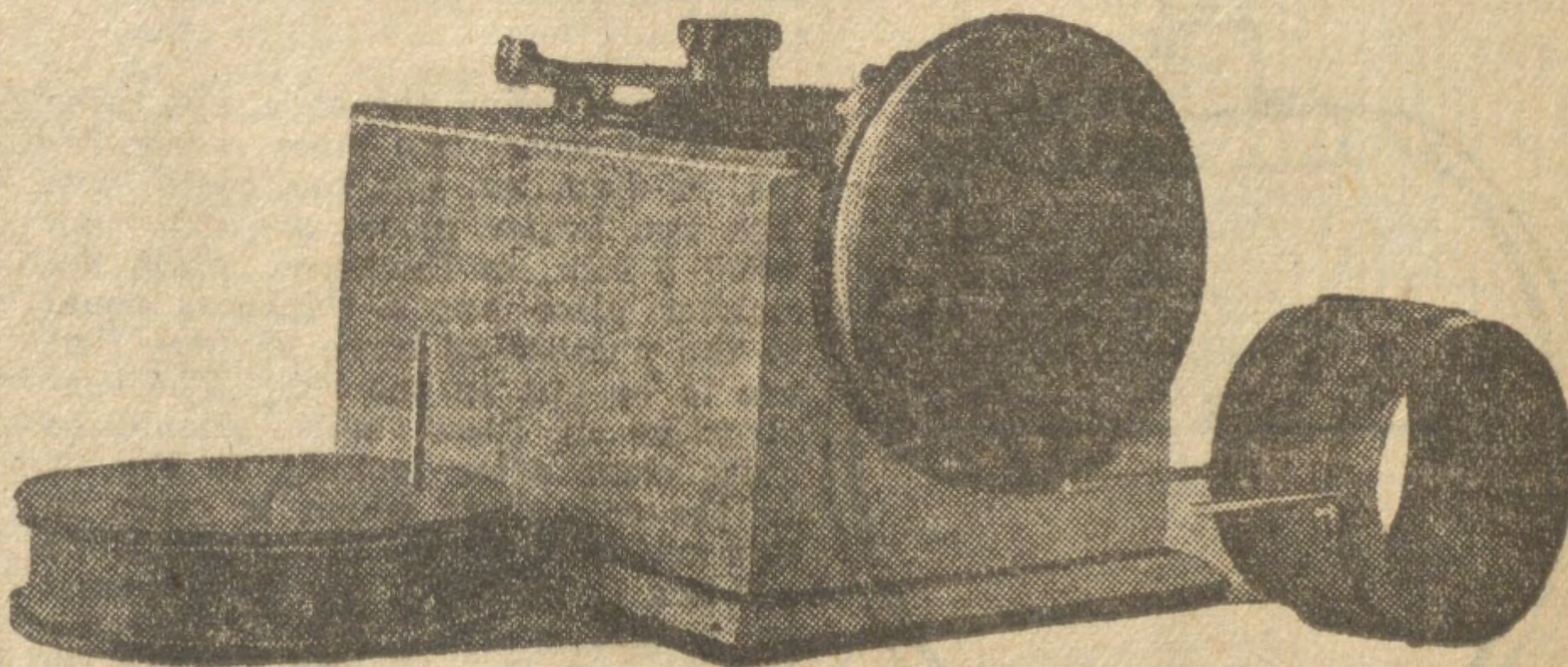
The dial reading should then be taken and reference made to the chart. In the case of wanting to listen on a certain wavelength, the process is the same though reversed. First refer to the chart. Place in the coil which covers the required band and put the condenser at the reading which gives you the required wavelength. Now revolve the dials of the receiving set until you locate the resonance click. Having finally got the meter into such a position that the receiver goes in and out of oscillation by passing over the degree on the dial which shows the correct wavelength, you now know that the receiver is tuned to that wavelength.

The wavemeter should then be removed, and the set will oscillate. The two instruments which have been described are easily constructed, and anyone who exercises a little care in

their construction will have something which they will find exceptionally handy.

The wavemeter may be calibrated on signals from known stations by plotting condenser readings against wavelength in the usual manner. To obtain a reading the coil should be placed in inductive relation with one of the tuned inductances in the receiver, the condenser dial then being rotated until signals as heard are of minimum strength, indicating that the meter circuit is tuned to the same wavelength. Another position of the meter should be tried if the reading is not well defined. It is desirable to work with a loose coupling. The procedure for using the meter as an indicator of wavelength of signals received is similar to the calibration process, excepting that the dial readings of the meter are read in wavelength by the aid of the chart. Even if signals are not actually present at any particular setting of the receiver, the slight background of atmospheric noise will be reduced considerably in intensity when the wavemeter is brought into resonance. A circuit which is oscillating is measured very easily, as absorption of resonance will stop oscillation.

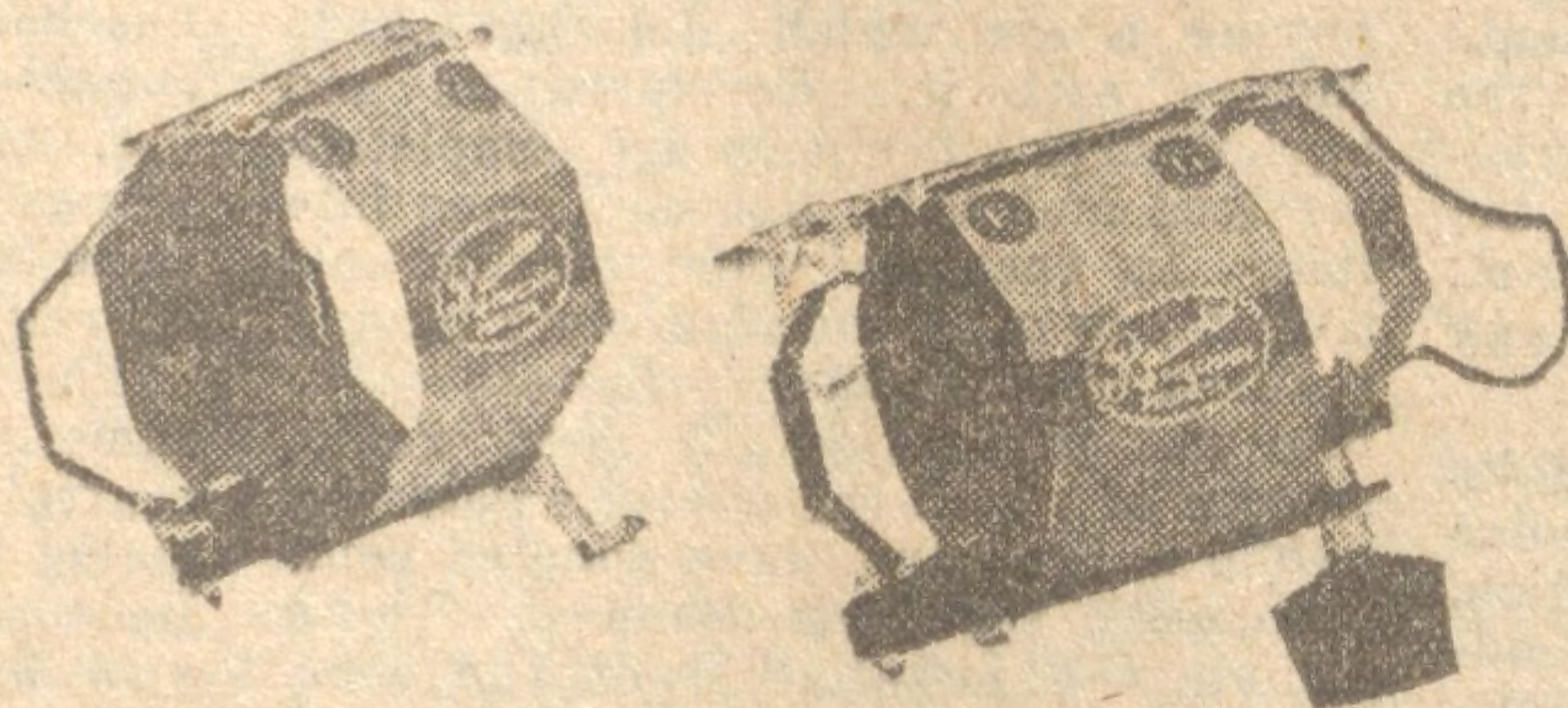
A 2FC CORRESPONDENT writes from Auckland (N.Z.) that he had perfect reception of a Sydney programme the other night, on his crystal set! He goes on to give the items heard, quite correctly, and is evidently convinced that he has something very wonderful in the way of crystal receivers. We do not wish to dampen his enthusiasm, but he has evidently never heard of re-radiation. This is a phenomenon which often accounts for the seeming miracle of a crystal set being able to pick up a programme transmitted hundreds of miles away. The explanation is simple. It means that somewhere near where the owner of the crystal set resides is another wireless enthusiast who possesses a powerful valve set. As occasionally happens, the crystal set picks up the programme from the valve set.



The wave meter—back view—with Coils.

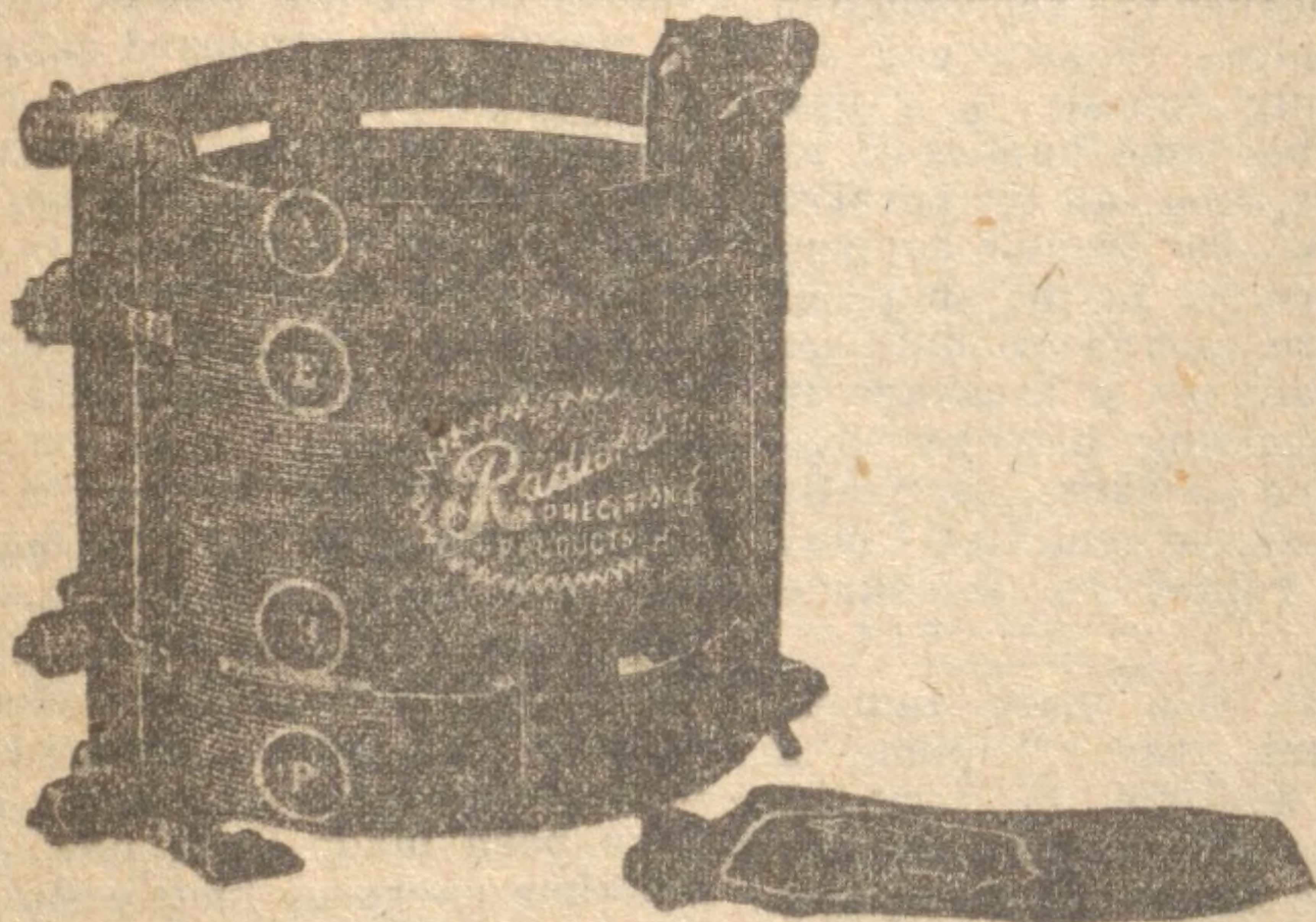
Radiokes Productions

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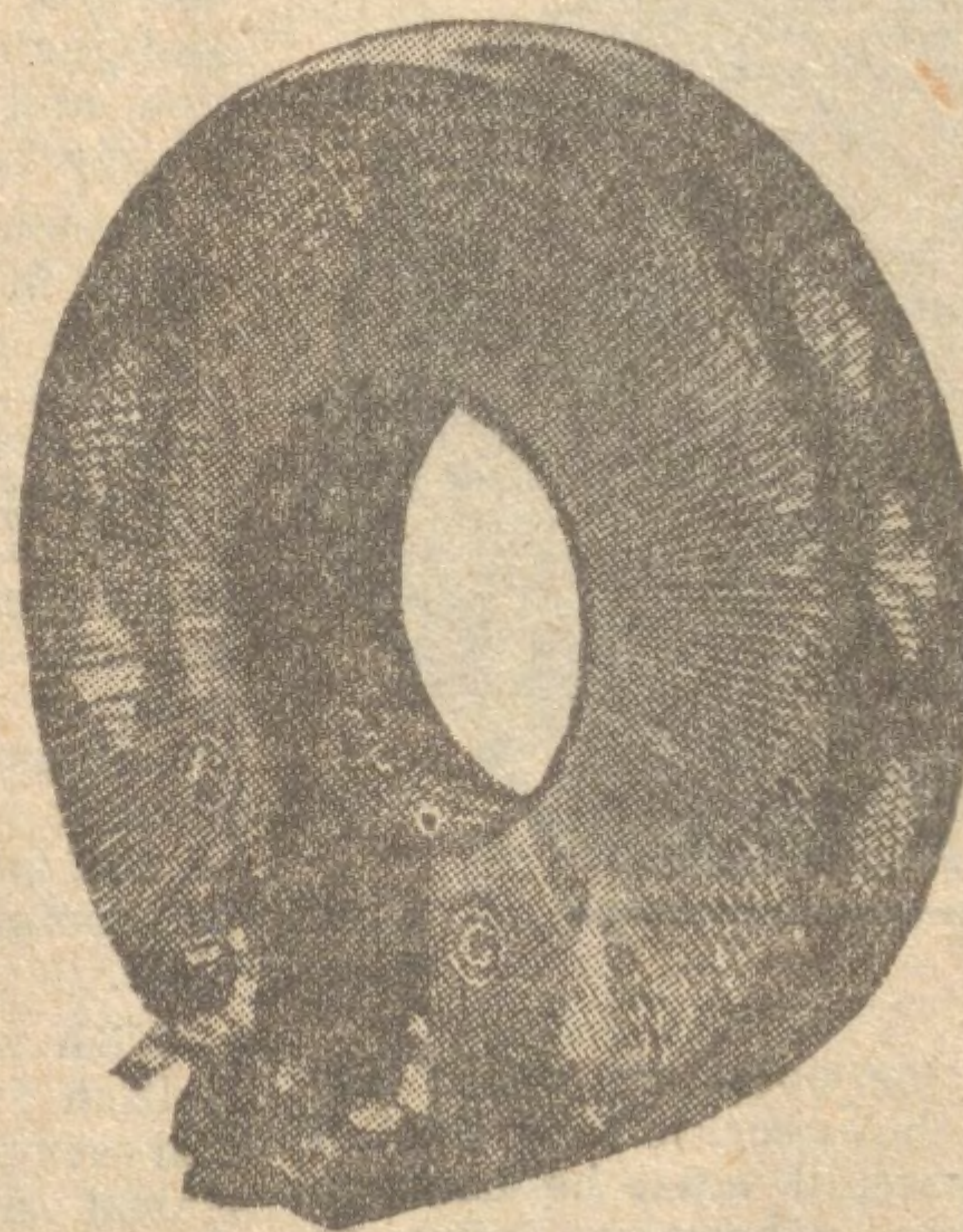


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FROM ALL GOOD DEALERS EVERYWHERE.

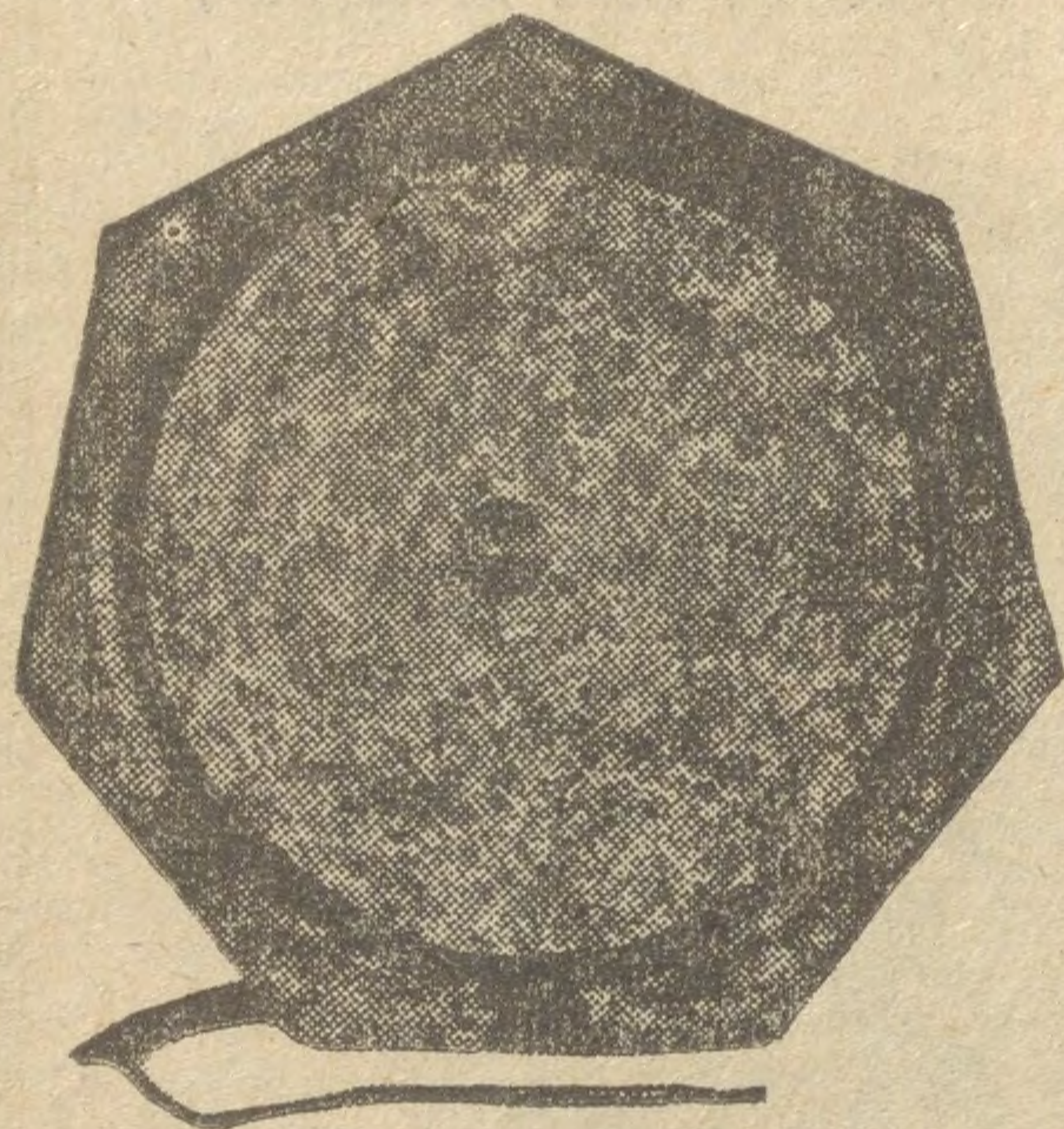
TRADE PAGE.

AN UNIQUE SPEAKER:

WE have received for test from Messrs. Philips Lamps (Australia) Ltd., a sample of their new loudspeaker, the "Baby Grand." This speaker represents "something different," and as the illustration shows is of a most attractive design, the colouring of the model being really quite beautiful, making it worthy of a place in any home.

Its performance does not belie its looks and the way it took all notes whether high or low was a revelation. Although classed as a "small" loudspeaker we could see no trace of this.

On a five-valve set it took all we could give it and its reproduction was



very good. One point we would like to emphasise, however, is that like all Philips speakers, it must be used on a good receiver, otherwise, owing to its extreme fidelity, any slight imperfection in the reproducing end of the receiver will be reproduced truly and not glossed over, as is the case in some speakers.

The rear view of this model shows how it stands. At the bottom of the arm is a slot, not unlike a keyhole, by means of which the loudspeaker may be hung on the wall. To sum up, a product worthy of the name—Philips.

IN RESPONSE to many requests the series of talks on "Journalism as a career for Women," given from 3LO during the Women's Hour by "Domina," some months ago, will be repeated. Those interested are asked to note that the first talk of the series will be given on Thursday morning, October 25, and all queries will be carefully answered.

SERVICE IN RADIO.

THE sale of service with a commodity is now an established feature of modern business. No one would consider for a moment buying a car which did not carry service with it. Refrigerators and agricultural machinery are completely serviced and radio has now come into line. In fact for some considerable time many progressive dealers having realised that so many factors enter into the production of good radio, factors of which the average listening public is ignorant, have adopted comprehensive servicing schemes. These include the installation of the complete equipment, periodic testing of valves, battery charging, in fact a complete maintenance. The sum effect of this procedure is cumulative. By getting good radio, the listener becomes a publicity agent for radio and incidentally his dealer's reputation and ultimate business are ultimately increased.

Obviously, as soon as a defect occurs in the speaker the reproduction suffers and unless repairs can be effected, the only remedy is a new instrument. The same applies if by reason of a blow, or a fall the speaker may be damaged—the trouble happening either externally in the shape of damage to flare, sound conduit, or unit, or internally as a breakage in windings or buckling of the diaphragm. In cone speakers, especially of the open type, the cone itself may be completely ruined by a chance blow.

With one of the most famous British speakers, the Amplion, a full service is available. From the tiniest screw to the largest wooden flare, a complete range of spare parts is held, so that in the unlikely event of an Amplion failing through some defect or through the unfortunate circumstance of an accident, the defective parts can either be replaced or repaired.

The service is normally a "one day" affair, but in exceptional cases, a greater length of time is necessary.

ANOTHER entertaining talk on America and the Americans will be given from 3LO on November 22 by Professor R. J. A. Berry, M.D., F.R.C.S., of the University of Melbourne, who will speak on "The L'il Island Home of New York City." Professor Berry has an inexhaustive knowledge of his subject, and, with his keen sense of humour and graphic powers of description, is able to make these lecturettes highly entertaining, in addition to being very instructive.

THE GRID LEAK CLAROSTAT.

WITH a resistance range of from 1-10th to 10 megohms in several turns of the knob, compact, neat, readily mounted on panel or baseboard, absolutely noiseless, and capable of holding any resistance setting, the grid leak Clarostat now brings to the detector circuit that same precision found in other circuits of radio reception.

The grid leak Clarostat is of the same size as the well-known volume-control Clarostat. It is finished in nickel plating, with screw terminals. Because of the importance of keeping grid leaks as short as possible, the device is provided with a special inverted U-bracket, so that it may be placed alongside the detector socket, yet readily available for any setting of the grid leak value.

The grid leak Clarostat has its greatest field of application in the detector grid circuit of the broadcast receiver, and particularly the short-wave receiver, in which grid leak values are of the utmost importance. It may also be employed as an adjustable resistance value in resistance coupling and impedance coupling, and wherever a high resistance of small current-handling capacity is required.

The grid leak Clarostat is furnished with complete and concise instructions. The list price is 1-dol. 50-cents.

THOUSANDS of listeners have been waiting for October 23—the next Old Time Night at 3LO. These Old Time Nights have been steadily increasing in popularity since they were first inaugurated and many additions have been made until now, with the old time choruses lustily sung by the dancers, and the excellent old time dance music broadcast by Hoffman's Band, they make a wide appeal. For the 23rd of October a special musical programme has been arranged, the community singing will be conducted by Mr. G. J. Mackay, and Miss Elsy Treweek, who is making her farewell appearances at the Studio, will be heard in such favourites as "The Last Rose of Summer" and "Annie Laurie."

5CL will feature the Boy Week Celebrations. Speeches will be broadcast daily, and on Thursday evening, October 25th, a huge Boys' Rally programme, arranged by the 5CL Twinkler Boys' Club, will be broadcast from the Exhibition Building.

Old-time Dance Night.

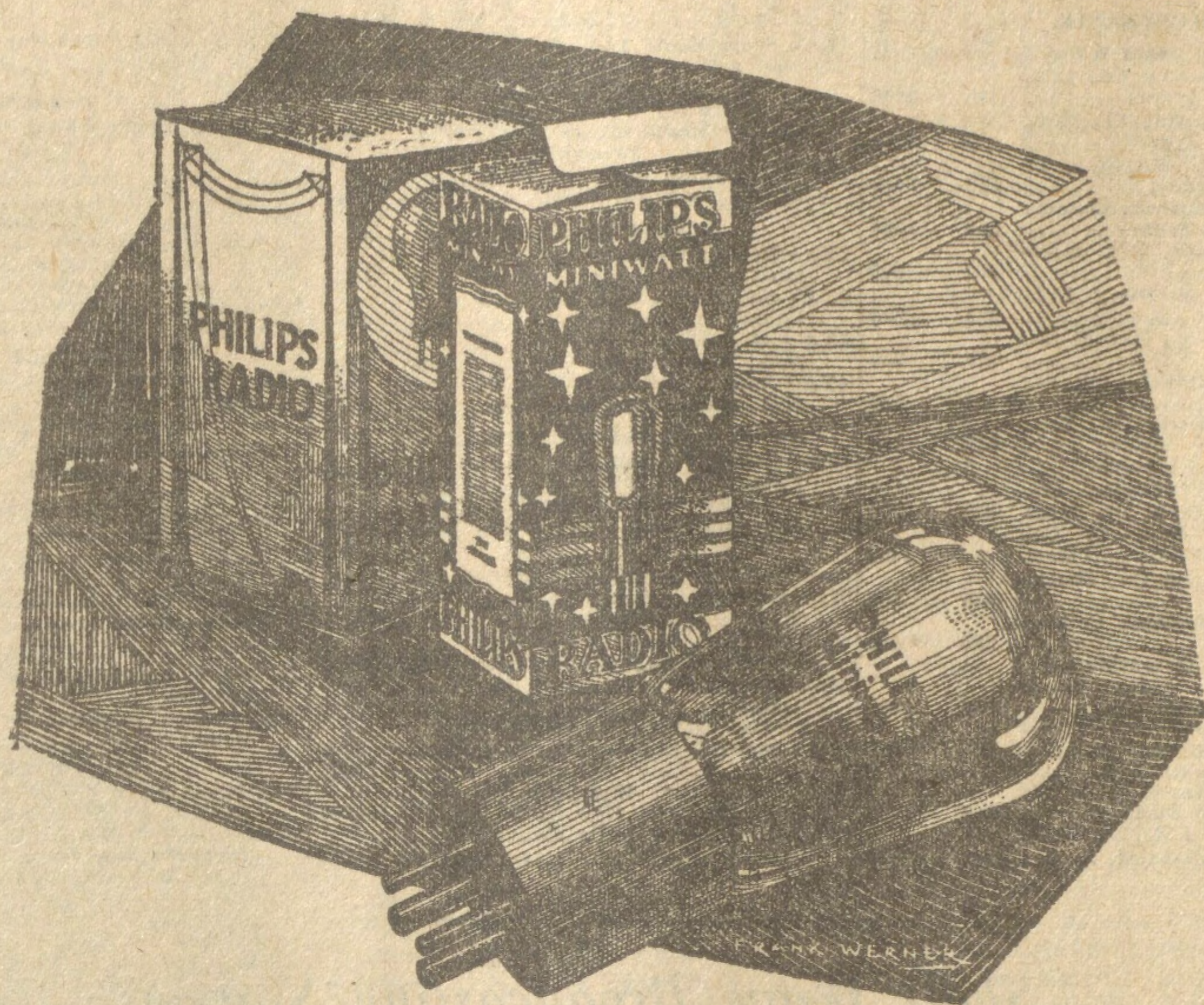
The date fixed for the next Old-time Dance Night is Tuesday, October 23rd. A special programme will be broadcast by 5CL by relay from 3LO, Melbourne.

Broadcasting Stations

AUSTRALIA.			Metres. Watts.		Metres. Watts.	
New South Wales.			5KA—Sport Radio Ltd., 51 Kin-		WJZ—National B'casting Co.,	
2FC—N.S.W. B'casting Co., Ltd.,			tore Ave., Prospect	250 1000	195 Broadway, New York ..	454.3 30000
Market St., Sydney	442	5000	Western Australia.		EUROPE.	
2BL—N.S.W. B'casting Co., Ltd.,			6WF—Westralian Farmers Ltd.,		FL—Eiffel Tower, Paris, France	2650 & 32 5000
Market St., Sydney	353	5000	569 Wellington St., Perth ..	1250 5000	JAPAN.	
2GB—Theosophical B'casting, 29			Tasmania.		JOAK—Tokyo Central B'casting	
Bligh St., Sydney	316	3000	7ZL—Tasmanian B'casters Ltd.,		Co., Tokyo, Japan	375 1000
2KY—Trades and Labour Council,			95 Elizabeth St., Hobart ...	535 3000	JOBK—Osaka Central B'casting	
Goulburn St., Sydney	280	1500	NEW ZEALAND.		Co., Osaka, Japan	385 1000
2UW—Radio House, 213 Eliza-			1YA—Radio B'casting Co. of		JOCK—Nagoya Central B'casting	
beth St., Sydney	267	500	N.Z., Karangahope Rd., Auk.	333 500	Co., Nagoya, Japan	360 1000
2UE—Electrical Utilities, Ltd.,			2YA—Radio B'casting Co., Wel-		JODK—Keijo B'casting Co., Keijo,	
619 George St., Sydney	293	250	lington	420 5000	Japan	345 1000
2MK—Mockler Bros., Hawick St.,			3YA—Radio B'casting Co. of		DUTCH EAST INDIES.	
Bathurst	275	250	N.Z., Christchurch	306 500	JFC—Bataviasche Radio, Jereen-	
2HD—H. A. Douglas, King St.,			4YA—Radio B'casting Co. of		inging, Batavia	220 40
Newcastle	288	100	N.Z., Dunedin	463 750	PHILIPPINE ISLANDS.	
2BE—Burgin Electric Co., Ltd.,			GREAT BRITAIN.		KZRM—Radio Corp. of The	
340 Kent St., Sydney	316	100	2LO—British B'casting Co.,		Philippines, Manila, Philip-	
Victoria.			Savoy Hill, London	361.4 3000	pine Islands	413 1000
3LO—Dominions B'casting Co.,			5XX—British Broadcasting Co.,		KZKZ—Radio Corp. of the	
Ltd., 120a Russell St., Melb.	371	5000	Daventry	1604.3 5000	Philippines, Manila, Philip-	
3AR—Dominions B'casting Co.,			UNITED STATES OF AMERICA.		pine Islands	270 500
Ltd., 120a Russell St., Melb.	484	1600	KDKA—Westinghouse Elec. and		KZIB—Radio Corp. of the	
3UZ—O. J. Nilson & Co, Bourke			Mfg. Co., East Pittsburg, Pa.	315.6 50000	Philippines, Manila, Philip-	
St., Melb.	319	100	KFI—Earle C. Anthony Inc., 1000		pine Islands	260 500
3DB—Druleigh Business College,			So., Hope St., Los Angeles	468.5 5000	INDIA.	
Melb.	255	500	KGO—General Electric Co.,		7CA—Indian Broadcasting Co.,	
Queensland.			Oakland, California	384.4 5000	Calcutta	370.4 3000
4QG—Queensland Govt. Radio			KOA—General Electric Co., 1370		7BY—Indian Broadcasting Co.,	
Service, Brisbane	385	5000	Krameria St., Denver, Colo.	325.9 5000	Pombay	357.1 3000
4GR—Gold Radio Service, Mar-			WEAF—National B'casting Co.,		SOUTH AFRICA.	
garet St., Toowoomba	294	100	195 Broadway, New York ..	491.5 50000	WAMG—African B'casting Assn.,	
South Australia.			WGY—General Electric Co., So.		Cape Town, South Africa ..	375 1500
5CL—Central B'casters, Ltd., 59			Schenectady, N.Y.	379.5 50000	JB—African B'casting Co.,	
Franklin St., Adelaide	395	5000			Johannesburg, South Africa,	450 500
5DN—5DN Pty., Ltd., 2-4 Mont-						
perier St., Parkside	313	500				

Short Wave Broadcasting Stations

AUSTRALIA.		Wavelengths.		Wavelengths.		Wavelengths.	
2ME—A.W.A. (Syd.) station used for		WHAM—Rochester, N.Y.		Various.		SOUTH AFRICA.	
2FC transmissions	28.5	WGY—Schenectady, N.Y.	15-100	WIZ—R.C.A., N. Brunswick, N.Y.	61.96	JB—Johannesburg Bd'g. Co., Cape	
2YG—Ray Allsop (Syd.) station used		WJZ—Bound Brook, N.J.	Various.	WLW—Crossley Radio, Cincinnati ...	52.	Town	20, 25
for 2BL transmissions	32.5	WOW—Fort Wayne, Indiana	22.80	WRNY—Coteyville, N.J.	30.91	JAPAN.	
3ME—A.W.A. (Melb.) station used for		WBZ—Springfield, Mass.	70	JHBB—Ibarakiken, Japan	37.5	JIPP—Tokio, Japan	20
3LO transmissions	32.	8XF—Cleveland, Ohio	66.04	JIAA—Iwatsuki, Japan	79	JKZB—Tokio El. Co., Tokio	20
4.30 a.m. to 6.30 a.m. every Monday		WAAM—Newark, N.J.	65.18	GERMANY.		NORWAY.	
(Melb. time).		KFBC—San Diego, U.S.A.	65.18	AGJ—Naven	56.7	LGN—Bergen, Norway	30
6AG—W. E. Coxon (Perth) station used		2XAQ—Newark, N.J.	65.4	POX—Naven	70	SWEDEN.	
for 6WF transmissions	32.9	XJ—Columbus, Ohio	54.02	POZ—Naven	19	7MK—Copenhagen	39.2
GREAT BRITAIN.		2XBH—Coney Island, N.Y.	54.02	EH9XD—Zurich Radio Club	85, 32.	7RL—Copenhagen	42.12
5SW—Marconi Company, Chelms-		WCGV—Brooklyn, N.Y.	54	NORWAY.		AUSTRIA.	
ford, England	24	7XAD—Portland, Oregon	53.54	AGC—Naven	17.2	OKK2—Vienna, Austria	70
2YT—Poldhu, England,	25, 32, 92, 94	8XAL—Harrison, Ohio	52.05	SPAIN.		FRANCE.	
2NM—Gerald Marcuse, Queen's		6XAR—San Francisco, Calif.	33	—Casablanca, Spain	51	GC—Radio LL, Paris	61.
Park, Caterham, Surrey,		2XAB—New York, U.S.A.	24	SWITZERLAND.		YR—Lyon, Rhone	40, 20
England	32.5 and 28 metres	WOWO—Fort Wayne, Indiana	22.8	EH9OC—Berne, Switz.	32	FL—Eiffel Tower, Paris	32
UNITED STATES.		8XAO—Detroit, Mich.	32.	JAVA.		ITALY.	
2XAA—Houlton, Maine, U.S.A.	21.99	INDO-CHINA.		ANF—Malabar	56	IMI—Unione Radiofonica, Milan	45
2XAD—G.E.C. Schenectady, U.S.A. ..	21.96	HVA—Hanoi, Indo-China	31.5	JFC—Bataviasche Radio, Batavia ..	22, 40.	IDO—Ido Radio, Italy	33.5
2XAF—G.E.C. Schenectady, N.Y.	32.7	HOLLAND.		ANDIR—Bandoeng	38.5	1AX—Rome, Italy	45
2ZAG—G.E.C. New York, U.S.A. 14, 16, 42.		PCJJ—Philips' Experimental		ANE—Malabar	32, 31.26, 15.93		
2XAC—W.G.Y. Radio, Schenectady 15 to 100		Station, Hilversum, Holland	31.4	ANH—Malabar	17.4, 27, 32		
2XBA—W.G.Y. Radio, Newark, N.J. ..	65.18	PCLL—Philips' Lamps, Ltd.,					
2XAL—"Radio News," New York	30.91	Kootwijk, Holland	32.5, 46				
2XE—Richmond Hill, N.Y.	22.1	PCTT—Philips' Lamps, Ltd.,					
2XG—W.E.C. Rocky Point	16.02, 23.	Kootwijk, Holland	21				
6XAI—Inglewood, Cal., U.S.A.	66.04	PCMM—Philips' Lamps, Ltd.,					
6XAR—San Francisco, Cal., U.S.A. ..	33	The Hague, Holland	25				
8XK—c/o K.D.K.A., E. Pittsburg, U.S.A.		PCPP—Philips' Lamps, Ltd.,					
63.5, 42, 14.		Kootwijk, Holland	27				
8XP—c/o KDKA, E. Pittsburg, U.S.A.		PCUU—Philips' Lamps, Ltd.,					
63.5, 42, 14.		The Hague, Holland	42				
9XU—Council Bluffs, Iowa	61.06	UNION OF SOVIET SOCIALIST					
KDKA—Westinghouse Ltd., Pittsburg		REPUBLICS.					
63.5, 42, 26, 14.		RFN—U.S.S.R. Moscow	29, 60, 50				
KFKX—Hastings, Nebr.	56	RFM—U.S.S.R. Siberia	60, 30				
NPG—San Francisco, Cal., U.S.A. 40, 48, 81.		ITALY.					
NXF—Bellevue, Anna, D.C., 16, 17, 20, 50, 54,		IMI—Unione Radiofonica, Milan	45				
71, 81, 84.		IDO—Ido Radio, Italy	33.5				
WCY—Schenectady, N.Y.	32, 79, 32.5	1AX—Rome, Italy	45				
WGN—W.E.C. Long Island, N.Y.	75						



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Advt. of Philips Lamps (Australasia) Ltd. (Radio Dept.). Head Office and Showrooms, cnr. Clarence and Margaret Sts., Sydney, N.S.W.

BROADCASTING PROGRAMMES

For the

COMING WEEK

Friday, October 19

New South Wales Broadcasting
Company, Limited.

2FC, SERVICE.

Wave Length, 442 metres.

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, river reports.
- 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" news service.
- 7.50 a.m.—Studio music.
- 8 a.m.—"Big Ben." Close down.

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
- 10.2 a.m.—Studio music.
- 10.10 a.m.—"Sydney Morning Herald" news service.
- 10.25 a.m.—Studio music.
- 10.45 a.m.—A Talk on Home Cooking and Recipes by Miss Ruth Furst.
- 11 a.m.—"Big Ben."
- A.P.A. and Reuter's Cable Services.
- 11.5 a.m.—Close down.

MIDDAY SESSION.

- 12 noon—"Big Ben" and announcements.
- 12.1 p.m.—Stock Exchange, first call.
- 12.3 p.m.—Official weather forecast, rainfall.
- 12.5 p.m.—Musical item.
- 12.10 p.m.—Summary of news—"Sydney Morning Herald."
- 12.15 p.m.—Rugby wireless news.
- 12.18 p.m.—A Reading, by A. S. Cochrane.
- 12.30 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.—Popular studio music.
- 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- Note: Throughout the afternoon progress results of the International Cricket Match, England versus Western Australia, played at Perth, W.A.
- 2.30 p.m.—Programme announcements.
 - 2.32 p.m.—Educational Session for the Schools: Subject, "Adventure"—General Topics—interspersed with suitable music.
 - 3 p.m.—"Big Ben." Pianoforte selections.
 - 3.20 p.m.—One-Act Play by Pupils of the MacCunn School of Dramatic Art under the direction of H. W. Varna.
 - 3.35 p.m.—Maysie Reed, pianoforte solos:
 - (a) "Liebestraume" (Liszt).
 - (b) "Valse Alsacienne" (Holbrooke).
 - (c) "Ecosseises" (Chopin).

- 3.45 p.m.—A Talk.
 - 4 p.m.—"Big Ben."
 - Marjorie Mayne, mezzo.
 - 4.7 p.m.—One-Act Play by Pupils of the MacCunn School of Dramatic Art, under the direction of H. W. Varna.
 - 4.22 p.m.—Maysie Reed, pianoforte solos:
 - (a) "To the Spring" (Grieg).
 - (b) "Laughing Water" (Baynton Power).
 - (c) "Menuet" (Debussy).
 - 4.35 p.m.—Phyllis Broadbent, soprano:
 - (a) "Spring" (Tosti).
 - (b) "The Amber Cross" (Arthur Tate).
 - 4.40 p.m.—Studio music.
 - 4.45 p.m.—Stock Exchange, third call.
 - 4.47 p.m.—The Ambassadors' Dance Orchestra.
 - 5 p.m.—"Big Ben." Close down.
- Note: Cricket scores will be given as received of the Match, Australia versus "The Rest," played at Melbourne.

EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
- 5.45 p.m.—Children's Session, conducted by the "Hello Man."
- Letters and stories.
- 6.15 p.m.—Music and entertainment for the young folk.
- 6.30 p.m.—Dalgety's market reports (wool, wheat and stock).
- 6.40 p.m.—Fruit and vegetable markets.
- 6.43 p.m.—Stock Exchange information.
- 6.45 p.m.—Weather and shipping news.
- 6.48 p.m.—Rugby wireless news.
- 6.50 p.m.—Late sporting news told by the 2FC Racing Commissioner.
- 7 p.m.—Late news service.
- 7.10 p.m.—Dinner music.

NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
- 7.45 p.m.—Pianoforte selection.
- 7.55 p.m.—To-night's Anniversary, by Captain Fred Aarons.
- 7.58 p.m.—Foreword to next item.
- 8 p.m.—From the Prince Edward Theatre: The Prince Edward Theatre Orchestra, conducted by Albert Gazabon, with Eddie Horton at the Orchestral Organ.
- 8.45 p.m.—From the Studio: Charles Lawrence and Rae Foster, Popular Duets.
- 8.53 p.m.—Hilda Sutton (Violinist) and Leila Job (Coon Songs).
- 9.2 p.m.—Late Weather forecast.
- Colin Ferret, Basso:
 - (a) "Il Lacerato Spirito" (Verdi), from "Simon Boccanegra."
 - (b) "Shepherd, see thy horse's foaming mane" (Korbay).
- 9.10 p.m.—From the Prince Edward Theatre: The Prince Edward Theatre Orchestra, conducted by Albert Gazabon.
- 9.30 p.m.—From the Studio: Charles Lawrence and Rae Foster, Popular Duets.
- 9.38 p.m.—Carlton Fay, Pianoforte:
 - (a) "In a Boat" (Zeckwer).
 - (b) "Impromptu" (Confrey).
 - (c) "Novelette" (Confrey).
 - (d) "Romanza" (Confrey).
- 9.46 p.m.—Dr. T. J. Henry will continue his series of talks: "Around the Mandated Territory."
- 10 p.m.—"Big Ben."
- Hilda Sutton (Violin) and Leila Job (Coon Songs).

- 10.10 p.m.—Colin Ferret, Basso:
 - (a) "Myself When Young" (Lehmann).
 - (b) "'Tis I" (Pinsuti).
- 10.17 p.m.—Carlton Fay, Pianoforte Solos:
 - (a) "Chant D'Amour" (Devene).
 - (b) "Conzert Polonaise" (Englemann).
- 10.27 p.m.—To-morrow's programme and late news.
- 10.30 p.m.—National Anthem. Close down.

2BL, SERVICE.

Wave Length, 353 Metres.

FRIDAY, 19th OCTOBER, 1928.

MORNING SESSION.

- 8.0 a.m.—G.P.O. Clock and Chimes.
- Metropolitan Weather Report.
- 8.1 a.m.—State Weather Report.
- 8.2 a.m.—Musical Programme from the Studio.
- 8.15 a.m.—G.P.O. Clock and Chimes.
- News from the "Daily Telegraph Pictorial."
- 8.25 a.m.—Musical Programme from the Studio.
- 8.30 a.m.—G.P.O. Clock and Chimes.
- Musical Programme from the Studio.
- 8.35 a.m.—Information, Mails, Shipping, Arrivals, Departures and Sailings.
- 8.38 a.m.—News from the "Daily Telegraph Pictorial."
- 8.45 a.m.—G.P.O. Clock and Chimes.
- Musical Programme from the Studio.
- 9.0 a.m.—G.P.O. Clock and Chimes.
- Musical Programme from the Studio.
- 9.30 a.m.—A Reading.
- 9.40 a.m.—Musical Programme from the Studio.
- 10.0 a.m.—G.P.O. Clock and Chimes; Close Down.

MIDDAY SESSION.

- 11.0 a.m.—G.P.O. Clock and Chimes.
- Women's Session.
- Sporting Talk, by Miss Gwen Varley, Women's Sports Authority.
- 11.15 a.m.—Talk on Electricity in the Home.
- 12.0 noon.—G.P.O. Clock and Chimes.
- Special Ocean Forecast and Weather Report.
- 12.3 p.m.—Musical Programme from the Studio.
- 12.30 p.m.—Shipping and Mails.
- 12.35 p.m.—Market Reports.
- 12.48 p.m.—"Sun" Midday News Service.
- 1.0 p.m.—Musical Programme from the Studio.
- 1.30 p.m.—Talk to Children and Special Entertainment for Children in Hospital.
- 2.0 p.m.—G.P.O. Clock and Chimes.
- Close Down.

AFTERNOON SESSION.

- Note: Throughout the afternoon progress result of the International Cricket Match—England Versus Western Australia played at Perth W.A. Also cricket scores will be given as received of the Match—Australia versus "The Rest" played at Melbourne.
- 3.45 p.m.—G.P.O. Clock and chimes.
 - Romano's Restaurant Dance Orchestra under the direction of Mr. Merv. Lyons broadcast from Romano's.
 - 3.55 p.m.—"Sun" news service.
 - 4.5 p.m.—Miss Raie Alexander, soprano: "Sing Along" (Penn).

- 4.9 p.m.—Musical programme from the studio.
 4.15 p.m.—Mr. Wm. Everard, tenor:
 (a) "Tom Bowling" (Dibden).
 (b) "I sometimes Wonder" (Woodford-Finden).
 4.22 p.m.—Romano's Restaurant Dance Orchestra.
 4.30 p.m.—Miss Anne Melhuish, mezzo soprano.
 4.35 p.m.—Romano's Restaurant Dance Orchestra.
 4.45 p.m.—Miss Raie Alexander:
 "You'll get heaps o' lickin's" (Coningsby Clarke).
 4.48 p.m.—"Sun" news service.
 4.55 p.m.—Romano's Restaurant Dance Orchestra.
 5.5 p.m.—Mr. Wm. Everard:
 (a) "The bloom is on the rye" (Bishop).
 (b) "Yo San" (Woodford-Finden).
 5.12 p.m.—Musical programme from the studio.
 5.32 p.m.—Miss Anne Melhuish.
 5.39 p.m.—Features of evening's programme.
 5.41 p.m.—Racing resume.

EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and chimes.
 Children's Music and entertainment.
 6 p.m.—Children's Letters and Stories.
 6.30 p.m.—"Sun" news and late sporting.
 6.40 p.m.—Gulbransen Dinner Music.
 7.10 p.m.—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.
 Grain and Fodder report ("Sun.")
 Dairy Produce report ("Sun.")
 7.25 p.m.—Advertising Talks and studio items.
 7.57 p.m.—Programme and other announcements.

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and Chimes.
 2BL Topical Chorus.
 8.3 p.m.—Mr. Will Clarke (Basso):
 (a) "Blacksmith" (Slater).
 8.10 p.m.—The Wurlitzer Organ broadcast from the Arcadia Theatre, Chatswood.
 Organist: Mr. N. Robins.
 8.30 p.m.—Winifred Birch Johnston:
 (a) Humorous Song:
 "Waiting for Something to Happen" (Ellis).
 8.37 p.m.—Sketch by Mr. Robert Turner and Miss Tot Loudon, entitled:
 "Just Like a Woman" (Collins).
 8.47 p.m.—The New South Wales Broadcasting Company's Orchestra, conducted by Mr. Willie Redstone.
 9 p.m.—Weather report and forecast by courtesy of Govt. Meteorologist.
 9.1 p.m.—Talk on "The Prospects of Saturday's Races," by Mr. C. Dexter.
 9.15 p.m.—Mr. Will Clarke:
 (a) "The Wolf" (Shield).
 (b) "The Friar of Orders Grey" (Greig).
 9.22 p.m.—The New South Wales Broadcasting Company's Orchestra.
 9.37 p.m.—Winifred Birch Johnston:
 Whistling solo, "Dance of the Honeybees" (Richmond).
 9.44 p.m.—The New South Wales Broadcasting Company's Orchestra.
 9.59 p.m.—Sketch by Mr. Robert Turner and Miss Tot Loudon, entitled,
 "Love in a Railway Train" (Staylor).
 10.8 p.m.—The Wurlitzer Organ, broadcast from the Arcadia Theatre, Chatswood.
 10.25 p.m.—Resume of following day's programme.
 10.30 p.m.—Romano's Restaurant Dance Orchestra, under the direction of Mr. Merv. Lyons, broadcast from Romano's. During interval between dances, "Sun" news will be broadcast.
 11.30 p.m.—National Anthem.

2GB, SYDNEY

Theosophical Broadcasting Service.
 Wave Length, 316 Metres.

FRIDAY, 19th OCTOBER, 1928.

MORNING SESSION.

- 10 a.m.—Music.
 10.10 a.m.—Happiness Talk by A. E. Bennett.

- 10.20 a.m.—Music.
 10.30 a.m.—Women's Session, by Miss Helen J. Beegling.
 11.30 a.m.—Close down.

AFTERNOON SESSION.

- 2 p.m.—Music.
 2.5 p.m.—Women's Radio Service Department.
 2.30 p.m.—Music.
 2.45 p.m.—Address.
 3 p.m.—Music.
 3.15 p.m.—Address and Close down.

EVENING SESSION.

- 5.30 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.
 8 p.m.—Opening Chorus.
 8.2 p.m.—2GB Instrumental Trio: Miss Ada Brook, Mr. Cecil Berry, Miss Marjorie Kennedy.
 8.15 p.m.—Announcements.
 8.20 p.m.—Miller and Mack, The Comedy Duo.
 8.30 p.m.—Songs by Mr. Robert Scott.
 8.37 p.m.—Cello Solo by Miss Marjorie Kennedy.
 8.45 p.m.—Address by Professor E. Wood.
 9 p.m.—Weather report.
 9.2 p.m.—Miller and Mack, the Comedy Duo.
 9.12 p.m.—Violin Solo by Mr. Cecil Berry.
 9.20 p.m.—Songs by Mr. Robert Scott.
 9.27 p.m.—A One Act Play arranged by Miss Mollie Kirwan.
 9.45 p.m.—2GB Instrumental Trio.
 10 p.m.—Close down.

3LO, MELBOURNE.

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

FRIDAY, 19th OCTOBER, 1928.

EARLY MORNING SESSION.

"HERALD" BREAKFAST HOUR.

- 7.15 a.m.—Morning Melodies.
 7.20 a.m.—Morning Exercises to Music.
 7.30 a.m.—Stock reports. Market reports.
 General News. Shipping.
 Sporting information.
 8 a.m.—Time Signal. Express train information.
 8.1 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.
 11.5 a.m.—RUPERT E. WOOD, Dietitian:
 "How Foods Affect the Body."
 11.20 a.m.—Musical interlude.
 11.25 a.m.—"AU FAIT":
 "Carnival Time."
 11.40 a.m.—Musical interlude.
 11.45 a.m.—Under the auspices of the Health Department, DR. ROWAN will give an address on "Clothing—Health."

MIDDAY SESSION.

- 12 noon.—Melbourne Observatory Time Signal
 12.1 p.m.—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.
 12.15 p.m.—Newmarket Stock sales. Special reports by John McNamara and Co.
 12.20 p.m.—THE STATION ORCHESTRA:
 "Ballet Music from Faust" (Gounod).
 12.30 p.m.—MOLLIE WARDEN, Soprano:
 "Le temps des Lilas" (Chausson).
 "Chanson de Florian" (Godard).
 12.37 p.m.—Stock Exchange information.

- 12.40 p.m.—THE STATION ORCHESTRA:
 "Ballet Music from Sylvia" (Delibes).
 12.52 p.m.—Under the auspices of the Health Association of Australasia, LETTY BEER will speak on:
 "Physical Culture in European Countries."
 1.2 p.m.—IMPERIAL RUSSIAN TRIO:
 "Trio for Violin, 'Cello and Piano" (Tchaikowsky).
 Moderato assai.
 Allegro Giusto.
 1.17 p.m.—Meteorological information.
 Weather forecast for Victoria, Tasmania, South Australia and New South Wales.
 Ocean forecasts. River reports.
 1.24 p.m.—THE STATION ORCHESTRA:
 "Ballet Music to the Two Pigeons" (Messager).
 1.36 p.m.—MOLLIE WARDEN, Soprano:
 "Ouvre tes yeux Blues" (Massenet).
 "Berceuse" (Canal).
 1.43 p.m.—THE STATION ORCHESTRA:
 "Ballet Music to Coppelia" (Delibes).
 1.53 p.m.—Close down.

AFTERNOON SESSION.

- 2.15 p.m.—Description of Trial Test Cricket Match, Australia v. The Rest, at M.C.G., by ROD MCGREGOR.
 2.25 p.m.—THE STATION ORCHESTRA:
 Overture, "Stradella" (Flotow).
 2.35 p.m.—MARCELLE BERARDI, Soprano:
 "The Bell Song"—Lakme (Delibes).
 "Chanson Arabe" (Bemberg).
 2.42 p.m.—Description of Trial Test Cricket Match, Australia v. The Rest, at M.C.G., by ROD MCGREGOR.
 2.52 p.m.—THE STATION ORCHESTRA:
 "Irish Tune from County Derry" (Percy Grainger).
 "Chanson Paroles" (Tchaikowsky).
 2.59 p.m.—J. HOWARD KING, Bass-Baritone.
 "King Charles" (White).
 "Quiet" (Sanderson).
 3.6 p.m.—WALTER SMITH, Cornet:
 "I Dream of a Garden" (Lohr).
 3.11 p.m.—THE STATION ORCHESTRA:
 Lyric Suite.
 Shepherd Boy.
 Norwegian Rustic March.
 March of the Dwarfs.
 Nocturne (Grieg).
 3.25 p.m.—Description of Trial Test Cricket Match, Australia v. The Rest, at M.C.G., by ROD MCGREGOR.
 3.35 p.m.—FRANCES FRASER will speak on:
 "J. M. Barrie."
 What comes to your mind first when Barrie is mentioned? Humor or pathos, story or play? A writer for children as in "Peter Pan," or one giving adults problems to solve, as in "Shall We Join the Ladies?"
 Though hardly an Admirable Crichton himself, he surely resembles Cinderella's god-mother, in giving his readers all the kinds of things they like!
 3.50 p.m.—THE STRAD TRIO:
 "Trio in B Flat" (Mozart).
 Allegro.
 Larghetto.
 Allegretto.
 4.8 p.m.—J. HOWARD KING, bass-baritone:
 "I Attempt from Love's Sickness to Fly" (Purcell).
 "Five Eyes" (Gibbs).
 4.15 p.m.—Description of Trial Test Cricket match, Australia v. The Rest, at M.C.G., by ROD MCGREGOR.
 4.25 p.m.—CECIL PARKES, violin:
 "Ave Maria" (Schubert).
 "Ballet Music, Rosamunde" (Schubert).
 "La Precieuse" (Couperin-Kreisler).
 4.35 p.m.—MARCELLE BERARDI, Soprano:
 "Charmante Oiseau" (David).
 "A Bush Lullaby" (Dorothy Blythman).
 4.42 p.m.—Description of Trial Test Cricket Match, Australia v. The Rest, at M.C.G., by ROD MCGREGOR.
 4.52 p.m.—THE STRAD TRIO:
 "Adagio" (Schubert).
 "Tango" (Albeniz).
 "Menuet" (Boccherini-Parkes).
 5.2 p.m.—Description of Trial Test Cricket Match, Australia v. The Rest, at M.C.G., by ROD MCGREGOR.

5.10 p.m.—Under the Auspices of the Health Association of Australasia, Dr. T. BELL FERGUSON will speak on: "The Control of Tuberculosis."
 5.20 p.m.—"Herald" news service. Stock Exchange information.
 5.30 p.m.—Close down.

EVENING SESSION.

6 p.m.—Answers to Letters and Birthday Greeting by "BILLY BUNNY."
 6.25 p.m.—Musical interlude.
 6.30 p.m.—"BILLY BUNNY" will tell you a story.

NIGHT SESSION.

6.50 p.m.—MADAME SOWARD: "French Without Tears."
 7.5 p.m.—Stock Exchange information. Results of Trial Test Cricket Match. Australia v. The Rest, at M.C.G.
 7.15 p.m.—Special report by John McNamara and Co. Official report of the Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke-street, Melbourne. Weather synopsis. Fish Market reports by J. R. Borrett, Ltd. Rabbit prices. River reports. Market reports by the Victorian Producers' Co-operative Company, Ltd. Poultry, grain, hay, straw, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruiterers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.
 7.43 p.m.—Birthday Greetings.
 7.46 p.m.—C. H. J. WILLIAMS will speak on: "To-morrow's Event at the Stadium."
 8 p.m.—A MAKER OF HISTORY.
 8.1 p.m.—Under the Auspices of the DEPARTMENT OF AGRICULTURE, T. A. J. SMITH, Tobacco Expert, will speak on: "Transplanting and Care of Tobacco Crop."
 8.15 p.m.—COLLINGWOOD CITIZENS' BAND:
 March, "Old Brigade."
 Overture, "Morning, Noon and Night."
 8.25 p.m.—GERTRUDE HUTTON, Contralto:
 "Russian Slumber Song."
 "May Wind" (Charles).
 8.32 p.m.—COLLINGWOOD CITIZENS' BAND:
 "Bells at Sunset."
 8.40 p.m.—ELSY TREWEEK, Soprano.
 "Gavotte."
 "Minuette" (Phillips).
 8.47 p.m.—H. K. LOVE will speak on: "Technicalities."
 Mr. Love will be glad to attend to your wireless difficulties, and we ask you to write to him for any information you may require.
 8.57 p.m.—VICTOR HARDING, Baritone:
 "Salt Water Ballads" (Keel).
 9.10 p.m.—FRENCH BROS., Banjoists:
 "An Old Guitar and an Old Refrain" (Kahn, Black and Moret).
 "Sleep, Little Coon" (Brandon).
 9.17 p.m.—COLLINGWOOD CITIZENS' BAND:
 Duet, "Watchman, What of the Night," Trombone and Euphonium.
 9.25 p.m.—FRED BLUETT, Comedian (by permission Tivoli Theatres Ltd.)—"Seasonable Salad."
 9.32 p.m.—COLLINGWOOD CITIZENS' BAND:
 Waltz Song, "Chiquita."
 9.38 p.m.—ERIC WELCH will speak on Caulfield Cup—"Past and Present."
 9.50 p.m.—GERTRUDE HUTTON, Contralto:
 "Bird Songs at Eventide" (Coates).
 "A Necklace of Love" (Nevin).
 9.57 p.m.—AGNES FORTUNE, Piano.
 "F Major Sonata" (Beethoven).
 10.7 p.m.—ELSY TREWEEK, Soprano:
 "Sarabande."
 "Gigue."
 10.14 p.m.—COLLINGWOOD CITIZENS' BAND:
 Selection, "The Desert Song."
 10.24 p.m.—"Argus" News Service. British Official Wireless News from Rugby. Meteorological information. Road Notes supplied by the Royal Automobile Club of Victoria. Announcements.

10.34 p.m.—FRENCH BROS. Banjoists:
 "Last Night I Dreamt I Kissed You" (Lombardo).
 "You've Got to Learn to Smile" (O'Hagan).
 10.41 p.m.—COLLINGWOOD CITIZENS' BAND:
 Intermezzo "The Sanctuary of the Heart."
 10.50 p.m.—FRED BLUETT, Comedian:
 Favorite Bits from his Repertoire.
 10.57 p.m.—COLLINGWOOD CITIZENS' BAND:
 March, "Magician."
 11.1 p.m.—OUR GREAT THOUGHT:
 "Give me health and a day, and I will make the pomp of emperors ridiculous."—Emerson.
 11.2 p.m.—THE RADI-O-ACES.
 11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE.

Associated Radio Co.

Wave Length, 484 Metres.

FRIDAY, 19th OCTOBER, 1928.

MORNING NEWS SESSION.

10 a.m.—G.P.O. Clock says "Ten."
 10.1 a.m.—"Age" Stock Exchange reports. London Metal Market.
 10.10 a.m.—"Age" Market reports—farm and station produce, fruit, fish, vegetables, etc.
 10.25 a.m.—"Age" Shipping reports.
 Ocean forecast.
 10.30 a.m.—Mail notices.
 Express train information.
 10.35 a.m.—"Age" news service, exclusive to 3AR.
 10.58 a.m.—Weather forecast.

MORNING MUSICAL SESSION.

11 a.m.—Radi-o-Aces.
 11.15 a.m.—Tom Semple, tenor:
 "The Yeoman's Wedding Song" (Poniatowski).
 "The Fisher Maiden" (Schubert).
 11.22 a.m.—Radi-o-Aces.
 11.37 a.m.—Jean Lewis, contralto:
 "Just A'wearyin' for You" (C. Jacobs-Bond).
 "Love's Rhapsody" (G. d'Hardelot).
 11.44 a.m.—Radi-o-Aces.
 12 noon.—Tom Semple, tenor:
 "In Beauty Moulded" (Sandford).
 "Good-night" (Brahms).
 12.7 p.m.—Radi-o-Aces.
 12.22 p.m.—British Official Wireless News. Announcements.
 12.32 p.m.—Estelle Mark Trio (Estelle Mark, soprano; Cecilia Kilduff, violin; Margot Sheridan, piano):
 Violin, "Nocturne in E Flat" (Chopin-Sarasate).
 Song, "God Touched the Rose" (Mary Browne).
 Piano, "Des Abends" (Schumann).
 12.47 p.m.—Radi-o-Aces.
 1.7 p.m.—Jean Lewis, contralto:
 "Tired Hands" (Sanderson).
 "Memory Song" (Herbert Oliver).
 1.14 p.m.—Radi-o-Aces.
 1.30 p.m.—Close down.

EVENING SESSION.

5 p.m.—Master Musicians and their Art, electrically recorded.

NIGHT SESSION.

8 p.m.—Under the auspices of the Health Association of Australasia. Health Week talk. Dr. R. Rosenberg: "Unqualified Medical Practice."
 8.15 p.m.—Community Singing, transmitted from the Central Hall, Geelong.
 From the Studio—
 10.15 p.m.—Imperial Russian Trio (Arved Norit, violin; John Berzinsky, cello; Win

Ilster, piano):
 Cello, "Hungarian Rhapsodie" (Popper).
 Violin, "La Gitana" (Kreisler).
 Trio, "Valse Triste" (Sibelius).
 10.25 p.m.—Estelle Mark Trio (Estelle Mark, soprano; Cecilia Kilduff, violin; Margot Sheridan, piano):
 Recital of Brahms.
 10.40 p.m.—Imperial Russian Trio:
 "Trio for Violin, Cello and Piano in D Flat" (Arensky).
 "Allegro Moderato."
 "Adagio."
 Violin, "Gipsy Dance" (Nachez).
 Trio, "Ramona" (Wayne).
 10.50 p.m.—"Age" news service, exclusive to 3AR.
 10.58 p.m.—Weather forecast.
 10.59 p.m.—Our Australian Good-night quote.

4QG, BRISBANE

Queensland Radio Service.

Wave Length, 385 Metres.

FRIDAY, 19th OCTOBER, 1928.

EARLY MORNING SESSION.

8 a.m.—This morning's news, supplied by courtesy of the Brisbane Metropolitan Daily Newspapers.
 8.30 a.m.—Close down.

MORNING SESSION.

11 a.m. to 12 noon.

MIDDAY SESSION.

1 p.m.—Market reports and weather information.
 1.15 p.m.—Lunch-hour music.
 1.58 p.m.—Time signals.
 2 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—A programme of electrically reproduced records.
 3.30 p.m.—Mail train running times.
 3.31 p.m.—An organ recital by Mr. George Sampson, F.R.C.O. (city organist). The items will be announced from the Cathedral, and Mr. Sampson will briefly comment on each one.
 4 p.m.—A further programme of electrically reproduced records.
 4.15 p.m.—This afternoon's news.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—Mail train running times; mail information; shipping news.
 6.5 p.m.—Dinner music.
 6.25 p.m.—Commercial announcements.
 6.30 p.m.—Bedtime stories conducted by "The Sandman."
 7 p.m.—News in brief.
 7.5 p.m.—Stock Exchange news.
 7.6 p.m.—Metal quotations.
 7.7 p.m.—Market reports.
 7.25 p.m.—Fenwick's stock report.
 7.30 p.m.—Weather information.
 7.40 p.m.—Announcements.
 7.43 p.m.—Standard time signals.
 7.45 p.m.—To-morrow's sporting fixtures reviewed.

NIGHT SESSION.

A concert programme relayed from the Methodist Hall, Coorparoo.
 8 p.m.—From Coorparoo—
 Topical Chorus.
 The 4QG Orchestra (Conductor, A. R. Featherstone)—
 Overture, "Josephine" (Kretschmer).
 Joe Dwyer and his Pa. Jerry, entertainers.
 Margaret Clunes, contralto:
 "Land of Hope and Glory" (Elgar).
 "Sleep and Forget" (White).

The 4QG Orchestra:
 "Concert Scene" (Kreisler).
Dulcie Jensen, elocutionist:
 "Tit for Tat" (Anon.).
 "Laugh and the World Laughs With You" (Willcox).
Billy Maloney assisted by Dulcie Maloney and Eileen Cusack—in half-an-hour's music and mirth.
The 4QG Orchestra:
 Melodie, "Where Roses Blow" (Edwards).
Kathleen Kelly, soprano:
 "Little Coon's Prayer" (Hope).
 "Tiptoe" (Molly Carew).
E. Kenyon, the entertainer:
Irene Elphinstone, contralto:
 "My Ain Folk" (Lemon).
 "Just Awearyin' for You" (Carie Jacobs Bond).
C. Hansen, saxophone solo:
 "Supplication" (Guarente).
Jean McDougall, soprano:
 "Bird of Love Divine" (Haydn Wood).
 "There's a Land" (Allisten).
The 4QG Orchestra:
 March, "The Artillery" (Scott).
10 p.m.—From the Studio:
 Late news, weather news.
 Close down.

5CL, ADELAIDE.

Central Broadcasters, Ltd.

Wave Length, 395 Metres.

FRIDAY, 19th OCTOBER, 1928.

MORNING SESSION.

11 a.m.—G.P.O. Chimes.
 11.1 a.m.—Studio "Recreator."
 Recital of H.M.V. Recordings.
 11.40 a.m.—"Economist."
 Kitchen Craft and Menu talk.

MIDDAY SESSION.

12 noon.—G.P.O. Chimes.
 12.1 p.m.—"The Advertiser" general market reports.
 12.15 p.m.—British British Official Wireless news.
 12.30 p.m.—James Riley, tenor:
 "The Yellow Boreen" (Old Irish).
 "A Farewell" (Liddle).
 12.27 p.m.—Bertha Jones, violiniste:
 Selected violin solos.
 12.34 p.m.—Florence Rendall, soprano:
 "Sing yoyous bird" (Phillips).
 "I know a lovely garden" (d'Hardelot).
 12.41 p.m.—O. Summerton, cornetist:
 "Ave Maria" (Mascagni).
 "Still as the night" (Bohm).
 12.50 p.m.—S. C. Ward and Co's Stock Exchange information.
 12.57 p.m.—Meteorological information.
 1 p.m.—G.P.O. Chimes.
 1.1 p.m.—James Riley, tenor:
 "Molly Brannigan."
 "My Dreams" (Tosti).
 1.8 p.m.—Bertha Jones, violiniste:
 Selected Violin solos.
 1.15 p.m.—Florence Rendall, soprano:
 "O Del mio Dolce Ardor" (England).
 "O Fair and Sweet and holy" (Rubinstein).
 1.22 p.m.—O. Summerton, cornetist:
 "Mother in Ireland" (Griffen).
 "Sympathy" (Friml).
 1.29 p.m.—Studio "Recreator."
 Recital of Columbia recordings.
 1.57 p.m.—Meteorological information.
 2 p.m.—G.P.O. Chimes, and close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
 3.1 p.m.—Studio "Recreator."
 Recital of Parlophone recordings.
 3.30 p.m.—Winifred Lavis:
 Songs at the piano.

3.37 p.m.—James Glennon, violinist:
 Selected violin solos.
 3.44 p.m.—Joe Brennan and Ida Newton:
 Fifteen minutes of mirth and harmony.
 4 p.m.—G.P.O. Chimes.
 4.1 p.m.—Len Maurice, Whispering baritone:
 "It is gonna be long" (Whiting).
 "Evening Star" (Donaldson).
 4.8 p.m.—James Glennon, violinist:
 Selected violin solos.
 4.15 p.m.—Winifred Lavis:
 Songs at the piano.
 4.22 p.m.—Studio "Recreator."
 Recital of Columbia recordings.
 4.57 p.m.—S. C. Ward and Co's Stock Exchange information.
 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 Happy Moments:
 Birthday Greetings, Correspondence, Songs and Stories by "Miss Wireless."
 6.30 p.m.—Dinner Music:
 Recital of Columbia Recordings on the Studio "Recreator."
 7 p.m.—G.P.O. Chimes.
 7.1 p.m.—S. C. Ward and Co's Stock Exchange information.
 7.8 p.m.—5CL's Sporting service by "Silvius."
 Including a special late review of the Caulfield Cup and Gawler races.
 7.20 p.m.—Cricket Talk by "Willow."

NIGHT SESSION.

7.30 p.m.—Malcolm Reid's Orchestra:
 Overture and selections.
 7.40 p.m.—Fred Williamson, tenor:
 "O Sole Mio" (Di Capua).
 "On wings of song" (Mendelssohn).
 7.47 p.m.—Helena Fischer, violiniste:
 "Liebesfreud" (Kreisler).
 "Schon Rosmarin" (Kreisler).
 7.54 p.m.—Len Maurice, Whispering baritone:
 "Bungalow and you" (O'Hagan).
 "Rosetime" (O'Hagan).
 8 p.m.—Malcolm Reid's Orchestra:
 Orchestral selections.
 8.10 p.m.—Joe Brennan:
 "The gas inspector."
 8.14 p.m.—Helena Fischer, violiniste:
 "Gavotte" (Gossec).
 "Rondino" (Kreisler).
 8.21 p.m.—Malcolm Reid's Orchestra:
 Orchestral selections.
 8.31 p.m.—Fred Williamson, tenor:
 "Life and death" (Taylor).
 "Hawaiian Love Song."
 8.38 p.m.—Glenelg Municipal Band:
 Selection.
 8.48 p.m.—Joe Brennan and Ida Newton:
 Twelve minutes fun and frivolity.
 9 p.m.—G.P.O. Chimes.
 9.1 p.m.—Meteorological information.
 9.2 p.m.—Overseas Grain report.
 9.3 p.m.—Glenelg Municipal Band:
 Novelty, "Turkish Patrol" (Rimmer).
 Septette, "Lovely" (Hume).
 9.13 p.m.—Len Maurice, Whispering baritone:
 "Dream Kisses" (Jerome).
 "Romona" (Wayne).
 9.20 p.m.—Seth Smith, banjoist:
 Selected Banjo solos.
 9.27 p.m.—Glenelg Municipal Band:
 Selection, "Lilac Time" (Schubert).
 9.37 p.m.—Ida Newton:
 "The song is ended" (Berlin).
 9.42 p.m.—Seth Smith, banjoist:
 Selected Banjo solos.
 9.49 p.m.—Glenelg Municipal Band:
 Selection.
 10 p.m.—G.P.O. Chimes.
 10.1 p.m.—"The Advertiser" general news service.
 10.10 p.m.—International News.
 10.15 p.m.—5CL's Sporting Service by "Silvius."
 Including a special late review of the Caulfield Cup and Gawler races.
 10.27 p.m.—The Maison Dance Band:
 Transmitted from Glenelg. Dance numbers.
 10.57 p.m.—Meteorological information, and programme announcements.
 11 p.m.—God Save the King.

6WF, PERTH

Westralian Farmer's.

Wave Length, 1250 Metres.

FRIDAY, 19th OCTOBER, 1928.

MIDDAY SESSION.

12.30 p.m.—Tune in.
 12.55 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.—Luncheon Music:
 The Studio Quintette, conducted by Mr. Val Smith, will play selections from their repertoire.
 2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
 3.35 p.m.—Afternoon Tea Concert relayed from the Rosebud Cafe, Perth.
 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.
 6.48 p.m.—Musical session for the Kiddies by Uncles Henry, Percy and Duffy and Aunties Amy and Mollie.
 7.5 p.m.—Items by the Studio Trio.
 7.30 p.m.—Stocks, 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 from the studio, including vocal and instrumental artists.
 A Relay:
 Vaudeville items by Paul Daly's "Supremes" Co., relayed from the Luxor Theatre, by courtesy of the management.
 9 p.m.—Late news items by courtesy of "The Daily News" newspaper Co.
 Ships within range announcement.
 Weather report and forecast.
 Station announcements.
 9.10 p.m.—Talk: "Various Phases of Vegetable and Herb Culture" by Mr. James Conarty.
 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, 19th OCTOBER, 1928.

MIDDAY SESSION.

11.30 a.m.—Selections on the Studio Recreator.
 11.34 a.m.—Special Midland Weather Forecast.
 11.55 a.m.—Tasmanian Stations 9 a.m. Weather Report.
 12 noon.—G.P.O. Clock Chimes the Hour.
 12.1 p.m.—Shipping Information; Ships Within Wireless Range; Mail Notices; Housewives' Guide.
 12.8 p.m.—Selections on the Studio Recreator.
 12.11 p.m.—British Official Wireless News.
 12.20 p.m.—Selections on the Studio Recreator.
 12.29 p.m.—Announcements.
 12.33 p.m.—Selections on the Studio Recreator.
 12.55 p.m.—"Mercury" News Service; Produce Sales held at Railway.
 1.10 p.m.—Selections on the Studio Recreator.
 1.30 p.m.—Close Down.

AFTERNOON SESSION.

- 8.0 p.m.—G.P.O. Clock Chimes the Hour.
 8.1 p.m.—Selections on the Studio Recreator.
 8.11 p.m.—Weather Information.
 8.15 p.m.—A Concert on the Studio Recreator.
 Memories of the Motherland Programme.
 Trio—Violin, Flute and Harp:
 Serenade, "To My Mother" (Volgt).
 "The Herd Girl's Dream" (Labitsky).
 Alfred O'Shea, Tenor:
 "The Low-backed Car" (Lover).
 "Molly Brannigan" (Stanford).
 The London Flute Quartette:
 Variations, "Scotch and Irish Airs"
 (Stainer).
 Alfred O'Shea, Tenor:
 "Mother Machree" (Young).
 The Silver Stars Band:
 "Unfinished Symphony"—Parts 1 and 2
 (Schubert).
 Rena Male Quartette:
 "Church Scenes from the Old Homestead."
 "The Old Folks at Home."
 Kenneth Walters, Baritone:
 "The Village Blacksmith" (Long).
 "The Floral Dance" (Moss).
 William Thomas and Quartette:
 "Eileen Alannah."
 "Love's Old Sweet Song."
 Eddie Thomas' Collegians:
 Waltz, "Till We Meet Again" (Whiting).
 Waltz, "Missouri" (Logan).
 Muriel Brunskill, Contralto:
 "Kathleen Mavourneen" (Crawford).
 "O Lovely Night" (Teschemacher).
 Handbells, played by the Famous Barnardi
 Musical Boys:
 "Chiming Bells of Long Ago."
 "The Legend of the Bells," from Les
 Cloches de Corneville.
 The Taylor Trio—Violin, 'Cello and Piano:
 "Silver Threads Among the Gold."
 Columbia Artists' Ensemble:
 "'Tis the Last Rose of Summer" (Moore).
 Guiseppe Di Silva, 'Cello Solo:
 "The Broken Melody" (Van Blene).
 Violin, Flute and Harp Trio:
 "Oft in the Stilly Night" (Moore).
 4.15 p.m.—Good-Bye Memories—We Must be
 up and Doing—The Whole Colour of Our
 Lives Depend on this Important Now.
 Personalities; Readings from the "Courier."
 4.30 p.m.—Close Down.

EARLY EVENING SESSION.

- 6.15 p.m.—Answers to Letters and Birthday
 Greetings by "Uncle David."
 6.20 p.m.—Musical Selections on the Studio
 Recreator.
 6.30 p.m.—The Story Lady: A Story and
 Verses for the Children:
 "Surprise Story and Verses."
 6.45 p.m.—Selections on the Studio Recreator.
 7.15 p.m.—J. Scott, Professional Coach of the
 Royal Golf Club, will speak on:
 "Golf News and How to Improve Your
 Game."

EVENING SESSION.

A CONCERT FROM THE STUDIO.

- 7.50 p.m.—Ray Edwards, Pianist:
 "Leibestraume" (Liszt).
 7.34 p.m.—Daisy Walters, Soprano:
 "Daffodil Gold" (Hodgson).
 "Morning" (Speaks).
 7.41 p.m.—Ed. Bailey, Baritone:
 "Salaam" (Lang).
 "Admiral's Broom."
 7.47 p.m.—Jean Allen, Contralto:
 "When Song is Sweet" (Sans Souci).
 "Absent" (Metcalf).
 7.54 p.m.—Ray Edwards, Pianist:
 "Adagio Cantabile" (Beethoven).
 7.58 p.m.—Daisy Walters, Soprano:
 "Villanelle" (Del'Acqua).
 "Singing Joyous Bird" (Phillips).
 8.5 p.m.—Ed. Bailey, Baritone:
 "Ship Mates O'Mine" (Sanderson).
 "Because" (D'Hardelot).
 8.12 p.m.—Jean Allen, Contralto:
 "Oh Western Wind" (Brahe).
 "In An Old Fashion Town" (Squire).
 8.19 p.m.—Ray Edwards, Pianist:
 "Military Polonaise" (Chopin).
 "By the Waters of Minnetonka" (Leirance).

- 8.25 p.m.—Ed. Brooker, Producer:
 A Sketch, "Tony."
 Specially written by him for 7ZL Hobart.
 CAST:
 Coster Ed Brooker
 Wife Joan Allport
 Doctor Jack Broadbent
 8.45 p.m.—J. M. Counsel:
 "A Musical Half Hour With the Old Masters"
 The History and Development of Music."
 9.30 p.m.—British Official Wireless News;
 Readings from "Weekly Courier"; "Mer-
 cury" Special Tasmanian News Service;
 Railway Auction Produce Sales; Weather
 Information; Hobart Stock Exchange Quota-
 tions; Royal Auto-car Club of Tasmania;
 Road Guide for the Week-end; Cycling Notes
 by the Hobart Amateur Cycling Association.
 Athletic News by the Amateur Athletic Asso-
 ciation of Tasmania; Market Reports from
 Messrs. Wise and Stirling; Messrs. Roberts
 and Co. and Messrs. A. G. Webster and
 Sons.
 10.0 p.m.—G.P.O. Clock Chimes the Hour.
 10.2 p.m.—Our Tasmanian Good-Night
 Thought.
 Close Down.
 God Save the King.

Saturday, October 20

New South Wales Broadcasting
Company, Limited.

2FC, SERVICE.

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, astronomi-
 cal memoranda, shipping intelligence, mail
 services, river reports.
 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.
 10.2 a.m.—Studio music.
 10.10 a.m.—"Sydney Morning Herald" news
 service.
 10.25 a.m.—Studio music.
 10.30 a.m.—Last minute racing information
 by the 2FC Commissioner.
 10.40 a.m.—Studio music.
 10.45 a.m.—Mr. G. J. Lockley ("Redgum"):
 Hints on Gardening.
 11 a.m.—"Big Ben."
 A.P.A. and Reuter's Cable Services.
 11.5 a.m.—Studio music.

MIDDAY AND AFTERNOON SESSIONS.

- 12 noon—"Big Ben" and announcements.
 12.2 p.m.—Stock Exchange information.
 12.4 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 ser-
 vice.
 1.20 p.m.—Studio music.
 Note: Racing—Full description of the Can-
 terbury Park Races will be given by the
 2FC Racing Commissioner.
 Race results from Ascot will be transmitted
 as received.
 Cricket—During the day progress scores of
 the International Cricket Match, England
 versus Western Australia, played at Perth,
 W.A.

Progress scores for the Match, Australia
 versus "The Rest," played at Melbourne.

- 2 p.m.—"Big Ben."
 During Racing and Sporting intervals the
 following musical items will be given:
 The "Tuneful Three," instrumentalists.
 Carlos Fakola, novelty pianist.
 Richard Parry, basso.
 Florence Page, songs at the piano.
 The Ambassadors' Dance Orchestra, con-
 ducted by Manuel Hyman.
 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.—Children's Session, conducted by
 the "Hello Man."
 Stories and letters.
 6.15 p.m.—Music and entertainment.
 6.30 p.m.—Weather intelligence, shipping,
 Stock Exchange.
 6.35 p.m.—Late news service.
 6.40 p.m.—Rugby wireless news.
 6.45 p.m.—Late sporting news.
 7 p.m.—"Big Ben." Studio item.
 7.10 p.m.—The 2FC Dinner Quartet, conducted
 by Horace Keats:
 (a) "Ice Cream" (Johnson).
 (b) "Spring Song" (Mendelssohn).
 (c) "My Melancholy Baby" (Burnett).
 (d) "O Star of Eve" (Wagner).
 (e) "Tschalkowsky Gems."
 (f) "A Song Remembered" (Coates).

NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
 7.45 p.m.—Pianoforte selection.
 7.57 p.m.—To-night's Anniversary, by Captain
 Fred. Aarons.
 8 p.m.—"Big Ben." The "Two Old Cronies."
 8.10 p.m.—Crosby Browne, Clarinet solos.
 8.15 p.m.—From St. James' Hall, Phillip-
 street, Sydney: Madame Ada Baker presents
 her students in Arthur A. Penn's Light
 Comic Opera, "In Old Havana."
 (By arrangement with Witmark and Sons,
 New York).
 Producer: Eric Howell.
 Characters:
 Don Cubeb de Cigarro (A Spanish Grandee)
 Audley Land
 Donna Isabella (his wife) Nellie Burt
 Theresa (their daughter) ... Dorothy Stacey
 Eleanor (an American Heiress) .. May Croft
 Miss Pelling (the Governess), Doris Rowland
 Richard Stoneybroke (an American Planter),
 Richard Parry
 Captain Bombastio (Capt. of the Police),
 Norman Mann
 Anthony Law (the Legal Adviser),
 Harry Jackson
 Bill Pilgrim (a retired Pugilist).
 Harry Perfect
 Kitty (the Postmistress) Eunice Webb
 Don Capstan de Cigaretto (nephew of
 Don Cubeb) Winnie Longbottom
 Zim (The Police Force) Grae Buist
 Zam (The Police Force) ... Claude Pickford
 Musical Numbers: Act One.
 Prelude and Legand (Theresa):
 "Long Ago in old Havana."
 Trio (Theresa, Eleanor and Miss Pelling):
 "Love is a definite Article."
 Song (Theresa):
 "O, for the Wings of a White Seagull."
 Chorus: "Blue, Blue is the Caribbean."
 Spanish Tango Ballet:
 Ballad (Donna Isabella):
 "I once was young myself."
 Duet (Richard and Bill Pilgrim):
 "Treat Him Kindly."
 Housemaids' Dance: Trio (Don Cubeb, Capt.
 Bombastio and Theresa):
 "In a Tropical Creek."
 Solo (Richard) "Ramona"
 Song (Eleanor) "Someday, Somehow"
 Chorus: "The Sky and the Pretty Flowers"
 9.15 p.m. (approx.)—From the Studio:
 Late Weather forecast.
 Wally Baynes, comedian.
 9.22 p.m.—Crosby Browne, Clarinet solos.
 9.28 p.m.—Joe Cahill, Entertainer.
 9.38 p.m.—Wendling and Molloy, the Radio
 Melody-Makers:
 (a) "Blue Danube Blues" (Kern).

- (b) "Last Night I Dreamed I Kissed You" (Lombardo).
 (c) "When You Played the Organ" (Gilbert).
 9.48 p.m.—Willie Shine, comedian.
 9.56 p.m.—The Ambassadors' Dance Orchestra, (conducted by Manuel Hyman).
 10.10 p.m.—From the Studio:
 Joe Cahill, Entertainer.
 10.18 p.m.—Wendling and Molloy, the Radio Melody Makers:
 (a) "Is it gonna be long" (Cowan).
 (b) "From Saturday night till Monday Morning" (Duban).
 (c) "Constantinople" (Carlton).
 10.28 p.m.—Late Weather forecast.
 The Ambassadors' Dance Orchestra.
 10.57 p.m.—To-morrow's programme and late news—from the Studio.
 11 p.m.—"Big Ben."
 The Ambassadors' Dance Orchestra.
 11.30 p.m.—National Anthem.
 Close down.

2BL, SERVICE.

SATURDAY, 20th OCTOBER, 1928.

MORNING SESSION.

- 8.0 a.m.—G.P.O. Clock and Chimes.
 Metropolitan Weather Report.
 8.1 a.m.—State Weather Report.
 8.2 a.m.—Musical Programme from the Studio.
 8.15 a.m.—G.P.O. Clock and Chimes.
 News from the "Daily Telegraph Pictorial."
 8.25 a.m.—Musical Programme from the Studio.
 8.35 a.m.—Information, Mails, Shipping, Arrivals, Departures and Sailings.
 8.38 a.m.—News from the "Daily Telegraph Pictorial."
 8.45 a.m.—G.P.O. Clock and Chimes.
 Musical Programme from the Studio.
 9 a.m.—G.P.O. Clock and Chimes.
 Musical Programme from the Studio.
 9.30 a.m.—A Reading.
 9.40 a.m.—Musical Programme from the Studio.
 10.0 a.m.—G.P.O. Clock and Chimes.
 Close Down.

MIDDAY SESSION.

- 11.0 a.m.—G.P.O. Clock and Chimes.
 Women's Session.
 11.30 a.m.—Talk on "Gardening," by Mr. Cooper, Park Superintendent, City Council.
 12.0 noon.—G.P.O. Clock and Chimes.
 Special Ocean Forecast and Weather Report.
 12.3 p.m.—Musical Programme from the Studio.
 12.30 a.m.—"Sun" News Service.
 12.40 a.m.—What's on at the Pictures and Theatres.
 12.45 a.m.—Pianoforte Recital from the Studio.
 1.0 p.m.—G.P.O. Clock and Chimes.
 Musical Programme from the Studio.
 1.30 p.m.—"Sun" News Service.
 1.40 p.m.—Musical Programme from the Studio.
 2.0 p.m.—G.P.O. Clock and Chimes.
 Close Down.

NOTE.—Canterbury Park and Ascot Ponies will be broadcast by courtesy of the "Sun" Newspapers.

AFTERNOON SESSION.

Note During the afternoon progress scores of the International Cricket Match, England versus Western Australia, at Perth, W.A. Also Australia versus "The Rest" at Melbourne will be given.

Race results from Canterbury Park and Ascot Races will be given during the afternoon by courtesy of the "Sun" Newspapers.

- 3.45 p.m.—G.P.O. Clock and chimes.
 From the Crystal Palace Theatre: Harry Cross and the Crystal Palace Orchestra.
 4 p.m.—Miss Edna Lister, contralto:
 (a) "Peace" (Fogg).
 (b) "Melisande in the Wood" (Goetz).
 4.7 p.m.—The Hawaiian Guitar Trio:
 (a) "Hawaiian March" (Traditional).
 (b) "He-Lie-Na-Kaulani" (Edwards).
 (c) "Hawaiian Twilight" (Vandersloot).

- 4.17 p.m.—"Sun" news service.
 4.27 p.m.—Harry Cross and the Crystal Palace Orchestra.
 4.42 p.m.—Miss Edna Lister:
 (a) "Break, Break, Break" (Carey).
 (b) "Cradle me low" (Brahe).
 4.49 p.m.—Harry Cross and the Crystal Palace Orchestra.
 5 p.m.—Musical programme from the studio.
 5.15 p.m.—The Hawaiian Guitar Trio:
 (a) "Palakiki Blues" (Balakiki).
 (b) "Honolulu Songbird" (Stone).
 (c) "A song to Hawaii" (Redding).
 5.25 p.m.—Musical Programme from the Studio.
 5.35 p.m.—Racing resume.

EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and chimes.
 Children's Music and entertainment.
 6 p.m.—Children's Letters and stories.
 6.30 p.m.—"Sun" news and late sporting.
 6.40 p.m.—2BL Dinner Orchestra.
 (a) "Summer Showers" (Knight-Logan).
 (b) "Bolero" (Moskowski).
 (c) "Together" (Henderson).
 (d) "Poet and Peasant Overture" (Suppe).
 (e) "Moment Musicales" (Schubert).
 (f) "After my Laughter" (Turk).
 7.10 p.m.—Complete sporting and racing resume.
 7.30 p.m.—Advertising Talks and studio items.
 7.45 p.m.—Talk on the Aborigines by Bringa.

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and Chimes.
 2BL Topical Chorus.
 8.3 p.m.—King's Mandolin Orchestra.
 8.10 p.m.—Miss Dorrie Ward (Soprano).
 (a) "Star of the East" (Lohr).
 (b) "Piper June" (Carew).
 8.17 p.m.—Humorous Sketch by Mr. Ellis Price
 an Mrs. Dobrinski, entitled:
 "The Toreador" (Ellis Price).
 Humorous Monologue: "My Word" (Eden).
 Ellis Price.
 8.35 p.m.—Mr. W. E. Lewis (Baritone).
 8.42 p.m.—Foster and Finlay, in Musical Memories:
 (a) "Sunshine" (Berlin).
 (b) "Salut D'Amour" (Elgar).
 (c) "After my Laughter came tears" (Turk).
 8.52 p.m.—Mr. Charles Lawrence (Entertainer at the Piano).
 9.2 p.m.—King's Mandolin Orchestra.
 9.9 p.m.—Mr. H. C. Gilson (Tenor):
 "The Flower of Memory" (Spross).
 9.16 p.m.—The New South Wales Broadcasting Company's Orchestra, conducted by Mr. Willie Redstone.
 9.30 p.m.—Miss Dorrie Ward:
 (a) "Eyes of Blue" (Speaks).
 (b) "Maytime" (Speaks).
 9.37 p.m.—Foster and Finlay:
 (a) "Without You, Sweetheart" (Henderson).
 (b) "Lolita" (Stoneham).
 (c) "Beautiful" (Shay).
 9.47 p.m.—Mr. W. E. Lewis.
 9.54 p.m.—The New South Wales Broadcasting Company's Orchestra.
 10.9 p.m.—Mr. Charles Lawrence.
 10.19 p.m.—The New South Wales Broadcasting Company's Orchestra.
 10.34 p.m.—Mr. H. C. Gilson.
 10.41 p.m.—Resume of following day's programme.
 10.45 p.m.—The Wentworth Cafe Dance Orchestra, under the direction of Mr. Jimmy Elkins, broadcast from the Wentworth. During intervals between dances, "Sun" news will be broadcast.
 11.30 p.m.—National Anthem.

3LO, MELBOURNE.

SATURDAY, 20th OCTOBER, 1928.

EARLY MORNING SESSION.

- 7.15 a.m.—Morning Melodies.
 7.20 a.m.—Morning exercises to music.
 7.30 a.m.—Stock reports. Market reports. General news. Shipping. Sporting information.
 8 a.m.—Times signal. Express train information.
 8.1 a.m.—Morning Melodies.
 8.15 a.m.—Close down.

MORNING SESSION.

- 11 a.m.—THE STATION ORCHESTRA:
 Selection, "Manon Lescaut" (Puccini).
 "Chanson Paroles" (Tschalkowsky).
 11.15 a.m.—MARIE MAGAN, Soprano:
 "Diapheria" (Samuel).
 "Armido's Garden" (Parry).
 11.22 a.m.—TASMA TIERNAN, Cello:
 "Kol Nidrei" (Bruch).
 11.29 a.m.—THE STATION ORCHESTRA:
 "Characteristic Numbers" (Hadley).
 11.36 a.m.—ERIC WELCH will speak on today's races at Caulfield.
 11.45 a.m.—THE STATION ORCHESTRA:
 "American Indian Songs" (Cadman).
 Valse Suite, "Three Fours" (Coleridge-Taylor).

MIDDAY SESSION.

- 12 p.m.—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. Reuters and the Australian Press Association cables. Argus news service.
 12.20 p.m.—THE STATION ORCHESTRA:
 Suite, "Dream of Egypt" (Finden).
 12.30 p.m.—MARIE MAGNAN, Soprano.
 "The Island."
 "Silent Moon."
 12.37 p.m.—Stock Exchange information.
 12.38 p.m.—DOROTHY ROXBURGH, Viola:
 "Romane—the Shepherd" (Paul Yuon).
 12.44 p.m.—THE STATION ORCHESTRA:
 "Petite Suite" (Tschalkowsky).
 12.54 p.m.—ALAN MITCHELL, Tenor:
 "In Late September" (Lois Barker).
 "Madelina" (Wm. James).
 12 noon.—Melbourne Observatory Time Signal.
 12.1 p.m.—THE STATION ORCHESTRA:
 Selection, "Girl from Brazil" (Romberg).
 1.10 p.m.—Meteorological information.
 Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecasts. River reports.
 1.17 p.m.—ALAN MITCHELL, Tenor:
 "Ah, Love if I Were King" (Barber).
 "O, Mistress Mine" (Quilter).
 1.25 p.m.—Description of the Oby Hurdle, 2 miles 1 furlong 65 yards, V.A.T.C. RACES at CAULFIELD by Eric Welch.
 1.30 p.m.—THE STATION ORCHESTRA:
 "L'Oracolo Suite" (Leoni).
 2 p.m.—Close down.

AFTERNOON SESSION.

- 2.15 p.m.—Description of the Gwyn Nursery, 5 furlongs, V.A.T.C. RACES, at CAULFIELD, by Eric Welch.
 2.25 p.m.—SONORA RECITAL.
 2.40 p.m.—Description of the Trial Test CRICKET MATCH, Australia v. The Rest, at M.C.G., by Rod McGregor.
 2.55 p.m.—Description of the Wyuna Steeplechase, 2 miles and 3 furlongs, V.A.T.C. RACES, at CAULFIELD, by ERIC WELCH.
 3.5 p.m.—SONORA RECITAL.
 3.15 p.m.—Description of the Trial Test CRICKET MATCH, Australia v. The Rest, at M.C.G., by Rod McGregor.
 3.28 p.m.—Description of the CAULFIELD CUP, V.A.T.C. RACES, at Caulfield, by Eric Welch.
 3.45 p.m.—SONORA RECITAL.
 3.55 p.m.—Description of the Trial Test CRICKET MATCH, Australia v. The Rest, at M.C.G., by Rod McGregor.
 4.5 p.m.—Description of the Burwood Handicap, 9 furlongs, V.A.T.C. RACES, at CAULFIELD, by Eric Welch.
 4.15 p.m.—SONORA RECITAL.
 4.25 p.m.—Description of the Trial Test CRICKET MATCH, Australia v. The Rest, at M.C.G., by Rod McGregor.
 4.40 p.m.—Description of the Windsor Handicap, 6 furlongs, V.A.T.C. RACES, at CAULFIELD, by Eric Welch.
 4.50 p.m.—Description of the Trial Test CRICKET MATCH, Australia v. The Rest, at M.C.G., by Rod McGregor.
 5 p.m.—"Herald" news service.
 Stock Exchange information.
 5.10 p.m.—SONORA RECITAL.

5.15 p.m.—Description of the Trial Test CRICKET MATCH, Australia v. The Rest, at M.C.G., by Rod McGregor.
5.30 p.m.—Close down.

EVENING SESSION.

5.50 p.m.—Sporting results.
6 p.m.—Answers to Letters and Birthday Greetings by "LITTLE MISS KOOKABURRA."
6.25 p.m.—Musical interlude.
6.30 p.m.—"LITTLE MISS KOOKABURRA" will tell the Tiny Ones about: "What the Eight Day Clock Says." And for the Older Ones—Second instalment of "Marooned on the Island of Eileann-a-sidhe."

NIGHT SESSION.

7.5 p.m.—Stock Exchange information.
7.15 p.m.—Official report of the Newmarket Stock sales by the Associated Stock and Station Agents, Bourke-street, Melbourne.
Fish Market reports by J. R. Borrett, Ltd.
Rabbit prices. River reports. Market reports by the Victorian Producers' Co-operative Company, Ltd. Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruitgrowers' Association. Wholesale prices of Fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.
7.43 p.m.—Birthday Greetings.
7.45 p.m.—Out of the Past.
7.46 p.m.—DR. J. A. LEACH: "Fantails."
7.50 p.m.—A MAKER OF HISTORY. Programme Announcements.
8 p.m.—AGNES FORTUNE, Piano: "Prelude and Fugue in A Minor" (Bach). Selected.
8.10 p.m.—ELSY TREWEEK, Soprano: "Vale" (Russell).
8.17 p.m.—IMPERIAL RUSSIAN TRIO: "Melodie" (Rubinstein). "Serenade" (Toselli). "Charmaine" (Rappe and Pollack). "Breeze" (Hanley).
8.32 p.m.—RICHARD WEICHARD, Tenor: "Prelude" (Ronald). "Star Eyes" (Speaks).
8.40 p.m.—Record Song Feature of the Week.
8.45 p.m.—Eric Welch will describe tonight's event at the Stadium.
10.15 p.m.—ELSY TREWEEK, Soprano: "The Old Clock" (Drummond). "You've Got Your Mammy's Eyes." "Give Me Youth and a Day."
10.22 p.m.—CHAS. McFEE, Saxophones: Selected.
10.30 p.m.—RICHARD WEICHARD, Tenor: "God Touched the Rose." "The Little Hills" (Gleeson).
10.37 p.m.—FRED BLUETT, Comedian (by permission of Tivoli Theatres, Ltd.), will now do "His Daily Dozen."
10.44 p.m.—Late Sporting Results.
10.50 p.m.—OUR GREAT THOUGHT: "The man with a grievance never seems to have an impediment in his speech."
10.51 p.m.—THE RADIO-ACES.
11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

SATURDAY, 20th OCTOBER, 1928.

MORNING NEWS SESSION.

10 a.m.—G.P.O. clock says Ten.
10.1 a.m.—"Age" Stock Exchange reports. London metal market.
10.10 a.m.—"Age" market reports, farm and station produce, fruit, fish, vegetables, etc.
10.25 a.m.—"Age" shipping reports. Ocean forecast.
10.30 a.m.—Mail notices, express train information.
10.35 a.m.—"Age" news service, exclusive to 3AR.
10.58 a.m.—Weather forecast.

MORNING MUSICAL SESSION.

11 a.m.—Radio-ACES.
11.15 a.m.—Marcelle Berardi, soprano: "Sovra il sen" (Bellini). "Romance" (Debussy).
11.22 a.m.—Radio-ACES.
11.37 a.m.—Marcelle Berardi, soprano: "The Laughing Song" from Manon Lescaut (Auber). "Ay, ay, ay" (Freire).
11.44 a.m.—Radio-ACES.
12 noon.—Close down.

AFTERNOON SESSION.

3 p.m.—Station Orchestra: Suite, "Hiawatha" (Coleridge-Taylor).
3.15 p.m.—Tom Semple, tenor: "Prima-Vera" (Tirindelli). "Sailing Westward" (Elgar).
3.22 p.m.—Russian Imperial Trio (Arved Norit, violin; John Berzinsky, 'cello; Win Ilster, piano): "Melodie" (Rubinstein). "Serenade" (Roselli). "Charmaine" (Rappe and Pollack). "Breeze" (Hanley).
3.32 p.m.—Jean Lewis, contralto: "Beloved, I Shall Wait" (d'Hardelot). "Sunday" (Molly Carew).
3.39 p.m.—Station Orchestra: Selection, "Manon Lescaut" (Puccini).
3.49 p.m.—Estelle Mark Trio (Estelle Mark, soprano; Margot Sheridan, piano; Cecilia Kilduff, violin): Violin, "Hejre Kati" (Hubay). Song, "Bird Songs at Eventide." Piano, "Valse Capricieuse" (Frank Bridge).
4.12 p.m.—Station Orchestra: "Ballet Suite" (Delibes).
4.22 p.m.—Tom Semple, tenor: "Tommy Lad" (Margeson). "Two Brown Eyes" (Margeson).
4.29 p.m.—Station Orchestra: Suite, "Pastorale" (Ansell).
4.39 p.m.—Jean Lewis, contralto: "When All Was Young" (Gounod). "All Thro' the Night" (Old Welsh Air).
4.44 p.m.—Station Orchestra: Ballet Suite, "Coppelia" (Delibes).

EVENING SESSION.

5 p.m.—Recital of artists from all countries.

NIGHT SESSION.

7.50 p.m.—"Health Week" Talk, under the auspices of the Health Association of Australasia—Mons. B. Slaweski, "Dance and Keep Fit."
8.15 p.m.—E. E. Pescott, "Australian Plants—Casuarina."
8 p.m.—Land Slides and Their Causes, by Frederick Chapman, A.L.S., F.G.S., Palaeontologist, National Museum, Melbourne.
8.30 p.m.—Prahra City Band: March, "Gethsemane Commandery" (Fulton). Intermezzo, "Hypatia" (Hume).
8.40 p.m.—John D. Fraser, baritone: "Il Balen" (Verdi). "The Burning Hours" (Coningsby-Clarke).
8.47 p.m.—Prahra City Band: Overture, "La Coquette" (Laurent).
8.57 p.m.—Marcelle Berardi, soprano: "Polacca" from "Puritani" (Bellini). "Pierrot" (Homers).
9.4 p.m.—A. G. Monteath, F.R.C.O., organ recital, transmitted from St. Peter's Church: "Fugue in F Sharp Minor" (Handel). "Andante Cantabile from Trio No. 13" (Haydn). "Moment Musical in F Minor" (Schubert). "Cradle Song" (Kjerulf). "Imperial March" (Elgar).
9.30 p.m.—Estelle Mark Trio: Estelle Mark, soprano; Cecilia Kilduff, violin; Margot Sheridan, piano: "Recital of 18th Century Music."
9.45 p.m.—Prahra City Band: March, "Old Comrades" (Telke).

9.50 p.m.—One-act Play, "The Resemblance," presented by the Victorian Railways' Institute Dramatic Society and produced by Miss Winifred Moverley.
Characters.

Nan, Minnie Thornton.
Bess, Addie Strain.
Scene, Drawingroom in Nan's Flat.
10.2 p.m.—Prahra City Band: Valse, "Senta" (Raymond).
10.10 p.m.—John D. Fraser, baritone: "Sometimes When Night is Nigh" (Phillips). "Go, Lovely Rose" (Quilter).
10.17 p.m.—Prahra City Band: Selection, "The Mikado" (Sullivan). "There Must Be a Silver Lining" (Donaldson).
Entr'acte, "Love in a Mist" (Rimmer).
10.37 p.m.—Marcelle Berardi, soprano: "Caro Nome" from "Rigolette" (Verdi). "Down in the Forest" (Landon Ronald).
10.44 p.m.—Prahra City Band: Intermezzo, "My Syrian Maid" (Rimmer). March, "Silver Badge" (Rimmer).
10.54 p.m.—"Age" news service, exclusive to 3AR.
10.58 p.m.—Weather forecast.
11 p.m.—God Save the King.

4QG, BRISBANE

SATURDAY, 20th OCTOBER, 1928.

EARLY MORNING SESSION.

8 a.m.—From the Studio: This morning's news, supplied by courtesy of the Brisbane Metropolitan Daily Newspapers.
8.30 a.m.—Close down.

NO MORNING SESSION.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

The Queensland Turf Club's race meeting will be described direct from the Ascot Racecourse. Transmission will commence with the start of the first race.
Music from the Studio between races.
5 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—Mail train running times. Special "Queenslander" bi-weekly news service for distant listeners.
6.30 p.m.—Bedtime Stories conducted by Uncles Ben and Pete.
7.15 p.m.—To-day's race results in brief.
7.20 p.m.—General Sporting notes.
7.30 p.m.—Sailing notes.
7.40 p.m.—Announcements.
7.43 p.m.—Standard time signals.

NIGHT SESSION.

The State banquet tendered to the visiting members of the British Economic Mission (Sir Arthur Duerham, Sir Ernest Clark, Sir Huga Hirst, and Mr. Dougal Orme) will be relayed from Parliament House, Brisbane. The various speeches will be broadcast, and during the evening the following musical programme will be provided.
8 p.m.—Dinner Music by the 4QG Orchestra.
Dick Pyke (basso): "The Bosun's Story" (Molloy). "A Chip off the Old Block" (Squire).
The 4QG Studio Orchestra: Overture—"Polchinello" (Gruenwald).
Vera Parker (Contralto): "I Heard You Go By" (Wood). "Sincerity" (Clarke).
Eric Hayne (violinist): "Siciliano and Rigaudon" (Francour-Kreisler). "Berceuse" (Goddard).
J. Land (Tenor)—Selected.
The 4QG Studio Orchestra: Valse—"Golden Sunset" (Hall).

Pat McOnigly (Soprano):
 "Rackety-Coo" from "Katinka".
 "Wondering Why" (Clarke).
 The 4QG Studio Orchestra:
 Selection—"Maid of the Mountains"
 (Simpson).
 Should the function conclude before 10
 p.m., descriptions of the motor-cycle races
 will be relayed from Davies Park Speedway.
 10 p.m.—Late news, weather news.
 Close down.

5CL, ADELAIDE

SATURDAY, 20th OCTOBER, 1928.

MORNING SESSION.

11 a.m.—G.P.O. Chimes.
 11.1 a.m.—Special late selections for Caulfield
 races by Mr. Eric Welch, Sporting Com-
 missioner for 3LO.
 11.4 a.m.—"The Advertiser" general news ser-
 vice.
 11.15 a.m.—British Official Wireless news.
 11.20 a.m.—Studio "Recreator":
 Recital of Parlophone recordings.
 11.45 a.m.—Special late selections for Caulfield
 races by Mr. Eric Welch, Sporting Com-
 missioner for 3LO.
 11.48 a.m.—Studio "Recreator":
 Recital of Parlophone recordings.
 11.55 a.m.—5CL's Sporting Calander.
 12 noon.—G.P.O. Chimes, and close down.

AFTERNOON SESSION.

1 p.m.—From Gawler Racecourse. Running
 description of events by Mr. Arnold Treloar,
 interspersed with progress cricket scores,
 and resume of play, and Regent Wurlitzer
 Organ.
 5 p.m.—Sporting results.
 5.15 p.m.—Close down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
 6.1 p.m.—Resume of sporting results.
 6.10 p.m.—Children's Happy Moments:
 Birthday Greetings, Correspondence, Songs
 and Stories by "The Wattle Lady."
 6.30 p.m.—Dinner Music:
 Recital of parlophone recordings on the
 Studio "Recreator."
 7 p.m.—G.P.O. Chimes.
 7.1 p.m.—S. C. Ward and Co.'s Stock Ex-
 change information.
 7.10 p.m.—Rev. G. E. Hale, B.A.:
 Will talk on "The Problem of pronuncia-
 tion."
 7.25 p.m.—Talk on afternoon's sporting events.
 7.35 p.m.—C. G. Riley:
 Will speak on "Items of Interest."
 7.45 p.m.—5CL's Sporting Service by "Silvius."

NIGHT SESSION.

8 p.m.—G.P.O. Chimes.
 8.1 p.m.—Margery Walsh, soprano:
 "Madame Butterfly" (Buccini).
 "Advice" (Carew).
 8.5 p.m.—Angelo Demodena, banjoist:
 Selected Banjo solos.
 9.15 p.m.—Description of events at the Charity
 Carnival, transmitted from the Wayville
 Oval.
 9.30 p.m.—Len Maurice, Whispering baritone:
 "Sailors Sweetheart."
 "I miss my Swiss."
 9.37 p.m.—Joe Brennan and Ida Newton:
 Seven minutes mirth and melody.
 9.44 p.m.—Description of events at Charity
 Carnival from Wayville Oval.
 9 p.m.—G.P.O. Chimes.
 9.1 p.m.—Meteorological information.
 9.2 p.m.—Margery Walsh, soprano:
 "Pale Moon" (Logan).
 "Rose Marie" (Friml).
 9.9 p.m.—Angelo Demodena, banjoist:
 Selected Banjo solos.
 9.16 p.m.—Len Maurice, Whispering Baritone:
 "Wide open spaces."
 "Chloe" (Moret).

9.23 p.m.—Mr. Chas. Court, The West Aus-
 tralian Boy Cornetist:
 Selected Cornet solos.
 9.30 p.m.—Description of Events at Charity
 Carnival transmitted from the Wayville Oval.
 9.45 p.m.—Ida Newton:
 "Here am I."
 9.50 p.m.—Mr. Chas. Court, cornetist:
 Selected Cornet solos.
 10 p.m.—G.P.O. Chimes.
 10.1 p.m.—5CL's Sporting service by "Silvius."
 On With The Dance.
 10.12 p.m.—The Maison Dance Band, trans-
 mitted from Glenelg:
 Dance numbers.
 10.57 p.m.—Meteorological information, and
 Programme announcements.
 11 p.m.—God Save The King.

6WF, PERTH

SATURDAY, 20th OCTOBER, 1928.

MIDDAY SESSION.

12 noon.—Tune in.
 12.5 p.m.—Musical programme, including
 pianoforte selections by Miss Audrey Dean.
 12.47 p.m.—Markets, News and cables.
 1 p.m.—Time signal.
 1.1 p.m.—Weather notes supplied by the Me-
 teorological Bureau of Western Australia.
 1.2 p.m.—Close down.

AFTERNOON SESSION.

3.15 p.m.—Tune in.
 3.20 p.m.—Sporting Session:
 Racing results and general sporting news,
 Cricket scores.
 Musical programme from the studio, includ-
 ing 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.
 6.48 p.m.—Stories for the Kiddies by Uncle
 Duffy and the Radio Bird.
 Fairy Stories for the Tiny Tots by Auntie
 Amy.
 7.5 p.m.—Sports results.
 7.30 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 Me-
 teorological Bureau of Western Australia.
 Station announcements such as alterations to
 programmes, etc.
 8.3 p.m.—Music and Song:
 Musical programme from the studio, includ-
 ing vocal and instrumental artists.
 Motor cycling events described in detail, re-
 layed from the Claremont Speedway.
 9 p.m.—Late news items by courtesy of "The
 Daily News" newspaper Co.
 Ships within range announcements.
 Weather report and forecast.
 Station announcements.
 Sports results.
 10.30 p.m.—Close down.
 104.5 METRE TRANSMISSION.
 Simultaneous broadcast on 104.5 metres of
 programme given on 1250 metres, commen-
 cing at 6.45 p.m.

7ZL, HOBART

SATURDAY, 20th OCTOBER, 1928.

MIDDAY SESSION.

11.30 a.m.—Selections on the Studio Recreator.
 11.34 a.m.—Special Midlands Weather Fore-
 cast.
 11.35 a.m.—Selections on the Studio Recreator.
 11.55 a.m.—Tasmanian Stations 9 a.m. Weather
 Report.
 12.0 noon.—G.P.O. Clock Chimes the Hour.
 12.1 p.m.—Shipping Information; Ships
 within Wireless Range; Mail Notices; Com-
 mercial News; Housewives' Guide.

12.8 p.m.—Selections on the Studio Recreator.
 12.11 p.m.—British Official Wireless News.
 12.20 p.m.—Selections on the Studio Recreator.
 12.29 p.m.—Anticipations: 3LO Sporting Com-
 missioner; Last Minute Selections for Mel-
 bourne Races.
 12.33 p.m.—Selections on the Studio Recreator.
 12.55 p.m.—"Mercury" News Service; Produce
 Sales Held at Railway.
 1.5 p.m.—Selections on the Studio Recreator.
 1.30 p.m.—Running Description of Oby Hurdle
 Race, 2 miles 1 furlong 65 yards. Run at
 Caulfield, Victoria.
 1.35 p.m.—Close Down.

AFTERNOON SESSION.

2.25 p.m.—Running Description of Gwyn Nur-
 sery, 5 furlongs, Run at Caulfield, Mel-
 bourne.
 2.30 p.m.—Close Down.
 3.0 p.m.—G.P.O. Clock Chimes the Hour.
 3.1 p.m.—Announcements.
 3.5 p.m.—Running Description of Wyuna
 Steeplechase, 2 mile 3 furlongs. Run at Caul-
 field, Melbourne, Victoria.
 3.10 p.m.—Selections on the Studio Recreator.
 3.40 p.m.—Running Description of Caulfield
 Cup, 1½ miles. Run at Caulfield, Mel-
 bourne.
 3.45 p.m.—Selections on the Studio Recreator.
 4.15 p.m.—Running Description of Burwood
 Handicap, 9 furlongs. Run at Caulfield,
 Melbourne.
 4.20 p.m.—Selections on the Studio Recreator.
 4.50 p.m.—Running Description of Windsor
 Handicap, 6 furlongs. Run at Caulfield,
 Melbourne.
 4.55 p.m.—Repeat all Sporting Results to
 Hand.
 5.0 p.m.—Close Down.

EARLY EVENING SESSION.

6.0 p.m.—All Sporting Results to hand; Child-
 ren, we have some special Records for you
 —so let us know whether you like them.
 6.15 p.m.—Selections on the Studio Recreator:
 Handbells, "Chiming Bells of Long Ago."
 Medley, "The Steamboat," with effects.
 Medley, "Farmyard Medley."
 Nursery Rhymes, "Mother Goose Melodie"
 (by Gilbert Girard). (Parts 1 and 2.)
 6.45 p.m.—"Uncle David" will entertain the
 wee folk.
 7.0 p.m.—Answers to Letters and Birthday
 Greetings by "Uncle David."
 7.5 p.m.—Selections on the Studio Recreator.
 7.15 p.m.—"Mercury" Special Information;
 Hobart Stock Exchange Quotations; To-
 day's Golf, Athletic, Racing; "Mercury" Late
 Sporting; Results of New Town Egg Lay-
 ing Competition.

EVENING SESSION.

7.30 p.m.—W. H. Gray will speak on:
 "Anniversary Embarkment at Hobart for
 Great War."
 7.40 p.m.—Walter Lindrum, Australia's Cham-
 pion Billiardist, will speak on:
 "How to Improve Your Billiards."
 7.50 p.m.—H. A. Curtis, Manager of Hydro
 Electric Department, will speak on:
 "Electrical Advancement in Tasmania."
 8.0 p.m.—G.P.O. Clock Chimes the Hour.
 8.1 p.m.—Fifty Years Ago To-day:
 "All Our Past Proclaims Our Future."
 —Swinburn.
 8.2 p.m.—Selections on the Studio Recreator.
 8.30 p.m.—Transmission from the Continental,
 Macquarie Street, Hobart.
 DANCE MUSIC BY THE CONTINENTAL
 ORCHESTRA.

(Conductor, Theo. Pipkin.)

Interspersed with Items on the Recreator
 from the Studio.

NEWS SESSION.

10.20 p.m.—British Official Wireless News;
 "Mercury" Special Interstate News Service;
 Ships Within Wireless Range; Tasmanian
 District Weather Reports.
 10.24 p.m.—God Save the King.
 Close Down.

Sunday, October 21

New South Wales Broadcasting
Company, Limited.

2FC, SERVICE.

MORNING SESSION.

- 10 a.m.—"Big Ben." Announcements.
10.2 a.m.—Studio music.
10.15 a.m.—News service.
10.30 a.m.—Studio music.
11 a.m.—"Big Ben." From St. Stephen's (Presbyterian), Phillip Street. The morning service, conducted by the Rev. Hugh Paton.
12.15 p.m. approx.—Close down.

AFTERNOON SESSION.

- 2.30 p.m.—Programme announcements.
2.32 p.m.—Children's session, conducted by Mr. Frank Grose.
3 p.m.—"Big Ben." From the Lyceum Hall, Pitt Street, Sydney. Pleasant Sunday Afternoon Service, arranged by the Central Methodist Mission.
All-musical programme by the State Conservatorium of Music Choir.
1. Motet.
(a) "There is an old Belief" (Parry).
(b) "Never weather beaten Sail" (Parry).
2. Chorale.
"Lord, Our God" (Bach).
3. Hebrew Hymn.
"Abon-Olan" set.
4. A Grand Communion Chorale (Vaughan-Williams).
Artists assisting: Raymond Beatty (baritone), Molyneux Phillips (tenor), Ila Turnbull (contralto), Merle Miller (soprano).
4.30 p.m. approx.—From the Studio: Mr. and Mrs. F. H. Faulkner, blind artists.
Organ solo: A selection from the works of Gounod. Mr. F. H. Faulkner.
Contralto Solos:
(a) "The Soul's Awakening" (Haddock).
(b) "The Swallows" (Frederick H. Cowen).
Mrs. F. H. Faulkner.
4.45 p.m.—Studio music.
5 p.m.—"Big Ben."
Close down.

NIGHT SESSION.

- 6 p.m.—"Big Ben" and announcements.
6.2 p.m.—Clyde Thorpe, violinist:
(a) "Chant de Berceau" (Pechotch).
(b) "Paraphrase on Minuet" (Paderewski-Kreisler).
6.10 p.m.—Heather Harding, soprano:
(a) "Rose of my Heart" (Herman Lohr).
(b) "The Dawn" (Guy d'Hardelot).
6.18 p.m.—Horace Keats:
Pianoforte solos.
6.28 p.m.—Heather Harding, soprano:
"Angus MacDonald" (Joseph Roedel).
6.32 p.m.—Clyde Thorpe, violinist:
(a) "Serenata" (D'Ambrosio).
(b) "Dvorak" (Kreisler).
6.40 p.m.—Heather Harding, soprano:
"I wonder if Love is a Dream" (Dorothy Forster).
6.44 p.m.—Horace Keats:
Pianoforte solos.
6.55 p.m.—From the Lyceum Hall, Pitt Street, Sydney. The evening service conducted by Rev. H. C. Foreman.
8.30 p.m. approx.—From the Band Rotunda, Manly Beach: The Manly Municipal Band, conducted by James Pheloung.
9.30 p.m.—From the Studio: Daisy Richards, violinist:
"Suite" (Zimbalist).
1. Prelude.
2. Sicilienne.
2. Menuet.
4. Largo.
5. Finale.

- 9.42 p.m.—Madame Vera Tasma, soprano.
9.50 p.m.—Richard Parry, basso.
9.56 p.m.—Daisy Richards, violinist:
(a) "Scherzo" (Dittersdorf-Kreisler).
(b) "Moment Musical" (Schubert-Kreisler).
10 p.m.—Madame Vera Tasma, soprano:
10.6 p.m.—Richard Parry, basso.
10.12 p.m.—Pianoforte recita.
10.30 p.m.—National Anthem.
Close down.
Accompanist, Horace Keats.

2BL, SERVICE.

SUNDAY, 21st OCTOBER, 1928.

MORNING SESSION.

- 11.0 a.m.—Service Broadcast from Newtown Congregational Church. Minister, Rev. Mearns Massie.
12.15 p.m.—"Sun" News Service.
12.30 p.m.—Musical Programme from the Studio.
2.0 p.m.—G.P.O. Clock and Chimes.
Close Down.

AFTERNOON SESSION.

- 3.0 p.m.—G.P.O. Clock and Chimes.
Musical Programme from the Studio.
3.30 p.m.—The Manly Municipal Military Band. (Conductor, Mr. J. Pheloung). Broadcast from Ocean Beach, Manly:
(a) March, "Kneller Hall" (Greenwood).
(b) Hymn.
(c) Overture, "La Vivandiere" (Le Duc).
(d) Intermezzo, "White Heather" (Phyllan).
(e) Selection, "Rienzi" (Wagner).
Music from the Studio:
(f) Selection, "The Mikado" (Sullivan).
(g) Waltz, "Sylvan Echoes" (Greenwood).
(h) Fox Trot, "Happy Go Lucky Lane" (Burke).
(i) March, "The Call of the Road" (Evans).
5.0 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—Uncle Bas and the Kiddies.
6.30 p.m.—Service Broadcast from Newtown Congregational Church.
8.30 p.m.—From the Studio:
Mr. Clifford Lathlean (Bass):
(a) "Das Wandern" (Schubert).
(b) "Wohin" (Schubert).
(c) "Der Lindenbaum" (Schubert).
(d) "Der Tod und das Mädchen" (Schubert).
(e) "Standchen" (Schubert).
8.45 p.m.—Mr. James Compton (Cornet Solos)
8.52 p.m.—Miss Molly de Gunst (Soprano):
(a) "Le Nil" (Leroux), with cello obligato.
(b) "Se tu m'ami" (Pergolesi).
8.59 p.m.—Weather Report and Forecast by courtesy of Government Meteorologist.
9.0 p.m.—G.P.O. Clock and Chimes.
9.1 p.m.—Mr. Clement Q. Williams (Baritone):
(a) "Chansons de Route" (De Musset).
(b) "Armida's Garden" (Parry).
9.3 p.m.—Mr. Bryce Carter (Cellist):
"Romance" (Campagnoli).
9.15 p.m.—Miss Madge Clague (Contralto):
(a) "Serenade" (Schubert).
(b) "Thou Art My Rest" (Schubert).
9.22 p.m.—Mr. James Compton (Cornet Solos)
9.29 p.m.—Miss Molly de Gunst:
(a) "The Island" (Rachmaninoff).
(b) "Yearning I Wait Now Alone" (Tchaikowsky).
9.37 p.m.—Mr. Bryce Carter.
(a) "Meditation" (Bridge).
(b) "Spring Song" (Bridge).
9.44 p.m.—Mr. Clement Q. Williams:
(a) "The Strange Woman" (Loughborough).
(b) "The Misty Isle" (Loughborough).
9.51 p.m.—Resume of Following Day's Programme.
9.53 p.m.—Miss Madge Clague:
"The Erl King" (Schubert).
10.0 p.m.—National Anthem.

3LO, MELBOURNE

SUNDAY, 21st OCTOBER, 1928.

MORNING SESSION.

- Announcer MAURICE DUDLEY.
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 SCOTS CHURCH, Collins Street, Melbourne:
Psalm (Metrical Version) 121. Prayer.
Prose Psalm 25. Chants 287 and 286. Old Testament Lesson. Hymn 328. Prayer of Intercession. New Testament Lesson. Anthem, "How Lovely are Thy Dwellings Fair." The Lord's Prayer (the congregation standing will unite). Sermon, Rev. Dr. W. BOBLAND. Prayer. Intimations. Offering. Offertory, Trauerei (Schumann). Hymn 191. Benediction.
12.15 p.m.—Close down.

AFTERNOON SESSION.

- Announcer MAURICE DUDLEY.
2 p.m.—SONORA RECITAL of the WORLD'S MOST FAMOUS RECORDS:
1. ORCHESTRAL:
"Symphony D Minor" (Cesar Franck). Philadelphia Symphony Orchestra. Conductor, Leopold Stokowski.
2. ARIA:
"Prince Igor"—How Goes It, Prince? (Borodin). Theodor Chaliapin, bass.
3. PIANO SOLO:
"One Lives But Once" Waltz, Parts 1 and 2 (Strauss-Tausig), Sergei Rachmaninoff.
4. SONG:
"The Erl King" (Schubert). Peter Dawson, bass-baritone.
5. ORCHESTRAL:
"Shepherd Fennel's Dance" (Balfour Gardiner).
"The Sleeping Beauty" (Panorama Garden (Tchaikowsky).
6. ORGAN SOLO:
"Andantino in D Flat" (Lemare). Edwin H. Lemare.
7. SONG:
"Santa Lucia" (Cottrai). Emilio de Gerga, baritone.
8 p.m.—PLEASANT SUNDAY AFTERNOON. Transmission from WESLEY CHURCH, Lonsdale Street, Melbourne.
Chairman, REV. C. IRVING BENSON.
Hymn No. 67, "Sing them over again to me."
Prayer, Rev. C. Irving Benson.
Orchestral selection, Mr. G. M. Williams, conductor.
Hymn No. 22, "How Sweet the Name of Jesus Sounds."
Solo, Miss Madge Agnew.
Orchestra.
Solo, Miss Madge Agnew.
Notices, Offering and Orchestra Address.
National Anthem.
Benediction.
4.30 p.m.—J. HOWLETT ROSS:
"The Post Gordon."
4.45 p.m.—Close down.

EVENING SESSION.

- Announcer MAURICE DUDLEY.
5.45 p.m.—Shipping information.
5.47 p.m.—Answers to letters and birthday greetings by "BILLY BUNNY."
6.25 p.m.—"BILLY BUNNY" has a special Sunday Talk.
6.45 p.m.—Bells from St. Paul's Cathedral, Melbourne.

NIGHT SESSION.

- Announcer MAURICE DUDLEY.
Accompanist MABEL NELSON.
7 p.m.—EVENING SERVICE FROM THE WELSH CHURCH, LATROBE STREET, MELBOURNE:
Voluntary. Call to worship. Hymn 557.

Scripture reading. Hymn 558. Prayer. Solo, Miss Iris Turner. Announcements. Offertory—Welsh Hymn No. 911. Hymn 517. Sermon, REV. D. GLYN JONES, B.A. Solo, W. T. Evans. Hymn 30. Benediction. Vesper.

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

8.52 p.m.—THE STRAD TRIO (Cecil Parkes, violin; May Broderick, piano, and Frank Johnstone, 'cello).

"Trio Op. 11, B Flat" (Beethoven).

Allegro con brio.

Adagio.

Allegretto and Variations.

8.51 p.m.—WILLIAM BOSSENCE, baritone:

"It is Enough"—"Elijah" (Mendelssohn).

8.58 p.m.—MAY BRODERICK, piano:

"Musical Box" (Laidoff).

"Revolutionary Study" (Chopin).

9.4 p.m.—ELSY TREWEEK, soprano:

"With Verdure Clad" (Haydn).

9.11 p.m.—CECIL PARKES, violin:

"On Wings of Song" (Mendelssohn).

"Goblin Dance" (Bazzini).

9.18 p.m.—WILLIAM BOSSENCE, baritone:

"Oh, God, Have Mercy"—"St. Paul" (Mendelssohn).

9.25 p.m.—FRANK JOHNSTONE, 'cello:

Selected.

9.32 p.m.—ELSY TREWEEK, soprano:

"Nearer, My God, to Thee" (Carey).

9.39 p.m.—THE STRAD TRIO:

"Air" (Bach-Parkes).

"Orientale" (Cui-Parkes).

"Menuet from Septet" (Beethoven).

"Ronda alla Turca" (Mozart).

9.50 p.m.—"Argus" News Service. Announcements. Meteorological information. OUR GREAT THOUGHT.

10 p.m.—"GOD SAVE THE KING."

3AR, MELBOURNE

SUNDAY, 21st OCTOBER, 1928.

MORNING SESSION.

10.45 a.m.—Announcements.

11 a.m.—Service from the New Methodist Church, Kyabram.

Te Deum.

Hymn 657, "We Love the Place, O Lord."

Prayer: Rev. G. B. Campbell, L.Th.

Anthem, "The Heavens are Telling."

Responsive Reading. Psalm 95.

Hymn 1, "Oh, for a Thousand Tongues."

Sermon: Rev. W. J. Williams.

Solo, by Miss M. Sutherland.

Announcements.

Offering.

Hymn 297, "All Hail the Power."

Benediction.

MORNING MUSICAL SESSION.

Announcer FRANK HATHERLEY.

12.15 p.m.—A recital of Old Masters.

2 p.m.—Close down.

AFTERNOON SESSION.

Announcer FRANK HATHERLEY.

3 p.m.—A recital of the best and latest recordings.

4.30 p.m.—Close down.

5 p.m.—"Brer Rabbit," in a special Children's Session.

5.30 p.m.—Close down.

EVENING SESSION.

Announcer FRANK HATHERLEY.

7 p.m.—A reproduction of master musicians and their art.

NIGHT SESSION.

Announcer FRANK HATHERLEY.

Accompanist REG. BROWN.

8 p.m.—Brunswick City Band:

Selection, "Lurline" (ar. Wallace).

Serenade, "A Night in June" (Niven),

special request.

8.15 p.m.—Stanley J. Allan, tenor:

"M'Appari tutt 'Amor."

"Go Not Happy Day."

8.22 p.m.—Transmitted from the Auburn Methodist Church. Excerpts from "Woman of Samaria," by Sterndale Bennett, by the Auburn Methodist Choir.

Soloists, Marjorie Robison, Sybil Shaw,

Alan Eddy. Organist and Chairmaster,

J. Sutton Crow.

From the Studio—

8.52 p.m.—Brunswick City Band:

Trombone Solo, "Death of Nelson"

(Braham).

Band, "Mazeppa" (Greenwood).

9.2 p.m.—Stanley J. Allan, tenor:

"Let Me Like a Soldier Fall."

"Death of Nelson."

9.10 p.m.—J. Howlett Ross:

"Trafalgar."

9.25 p.m.—Estelle Mark Trio (Estelle Mark,

soprano; Margot Sheridan, piano; Cecilia

Kilduff, violin):

Violin, "Mazurka" (Mlynarski).

Song, "The Star" (Rogers).

Piano, "Rosemary" (Frank Bridge).

9.40 p.m.—Brunswick City Band:

Air Varie, "Adeste Fidelis" (Round).

March, "Perseverance" (Greenwood).

9.50 p.m.—"Age" news service, exclusive to

3AR.

9.58 p.m.—Weather forecast.

9.59 p.m.—Our Australian Good-night quote.

10 p.m.—God Save the King.

4QG, BRISBANE.

SUNDAY, 21st OCTOBER, 1928.

MORNING SESSION.

The complete Morning Service will be relayed from St. Andrew's Church of England, South Brisbane.

10.50 a.m.—Organ Music (Miss E. Lang, Deputy-Organist).

11 a.m.—Morning Prayer and Holy Communion: Psalms 114 and 115. Hymns: 260, "Hark, My Soul"; 175, "Conquering King"; 317, "My God, is Thy Table Spread"; 322, "And Now, O Father"; 197, "The King of Love." Sermon by the Rector (Rev. L. J. Hobbs).

12.15 p.m.—Close down.

AFTERNOON SESSION.

The concert by the Brisbane Federal Band (Conductor, Mr. W. H. Davies) 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.

7 p.m.—From St. Andrew's:

Children's Service, conducted by the Rector.

7.20 p.m.—Organ Music: Miss E. Lang.

7.30 p.m.—Evensong and Sermon: Psalms 124, 125, 126, 127. Magnificat and Nunc Dimittis (Winchester). Anthem, "The Radiant Morn" (Woodward). Hymns: 193, "Jesus, Lover of My Soul"; 178, "Jesus, the Very Thought"; 215, "The Church's One Foundation." Vesper Pax Dei. Preacher, the Rector (Rev. L. J. Hobbs).

BRISBANE MUNICIPAL CONCERT BAND.

At the conclusion of the Church Service the Concert by the Brisbane Municipal Concert Band will be relayed from Wickham Park.

From Wickham Park: Band Concert.

9.30 p.m.—Conclusion.

THE LONDON TRIO.

At the conclusion of the Band Concert, a programme by the London Trio will be broadcast from the Studio.

Mary L. Spanjer (Contralto) and Basil

Sterling (Baritone):

Duet: "Thro' Valley; Thro' Woodland" (Giangini).

Lucy Baker (pianist):

"Rondo Capriccioso" (Mendelssohn).

Mary L. Spanjer (Contralto):

"Ave Maria" (Kahn).

Basil Stirling (Baritone):

"The Blind Ploughman" (Coningsby

Clarke).

Lucy Baker (Pianiste):

"Peer Gynt Suite" (Grieg).

Mary L. Spanjer (Contralto):

"Melisande in the Wood" (Goetz).

Basil Stirling (Baritone):

"Two Grenadiers" (Schmann).

Lucy Baker (Pianiste):

"Arabesque" (Chaminade).

Mary L. Spanjer (Contralto):

"At Dawning" (Cadman).

Basil Stirling (Baritone):

"Star of Eve" (from "Tannhauser"—

Wagner).

Lucy Baker (Pianiste):

"Valse in E Minor" (Chopin).

Mary L. Spanjer (Contralto) and Basil Stirling (Baritone)—Duet:

"What Wili You do, Love" (Samuel Love

—arr. Moffat).

10.30 p.m.—Close down.

5CL, ADELAIDE.

SUNDAY, 21st OCTOBER, 1928.

BOY WEEK.

MORNING SESSION.

10.45 a.m.—Carillon of Bells from St. Andrew's Church, Walkerville.

11 a.m.—G.P.O. chimes.

11.1 a.m.—Morning service from Archer Street Methodist Church, North Adelaide.

Doxology, prayer, hymn, lesson, announcements, hymn, prayer, hymn, sermon by Rev. A. B. Lloyd, hymn, benediction.

12.15 p.m.—From the Studio:

British official wireless news.

12.20 p.m.—Close down.

AFTERNOON SESSION.

2.50 p.m.—Afternoon gathering of the Federal Conference of Churches of Christ, from the Adelaide Town Hall:

Community singing, leader, A. J. Gard.

Hymn, "O, God, Our Help in Ages Past."

Prayer.

Scripture lesson.

Anthem, "Light in Darkness" (Jenkins).

Grote Street Choir.

Announcements and offering.

Hymn, "Jesus Shall Reign."

Solo, "If With All Your Hearts" (Elijah).

Mr. Norman Morphet.

Address, "The Challenges of our time to Religion." Dr. F. W. Burnham, presi-

dent, United Christian Missionary Society

of America.

Anthem, "Sun of My Soul" (Turner).

Grote Street Choir.

Hymn, "Fight the Good Fight."

Benediction.

President, Hon. W. Morrow, M.L.C.

Conductor, Mr. A. J. Gard.

Pianiste, Miss M. Magarey.

4 p.m.—G.P.O. chimes and close down.

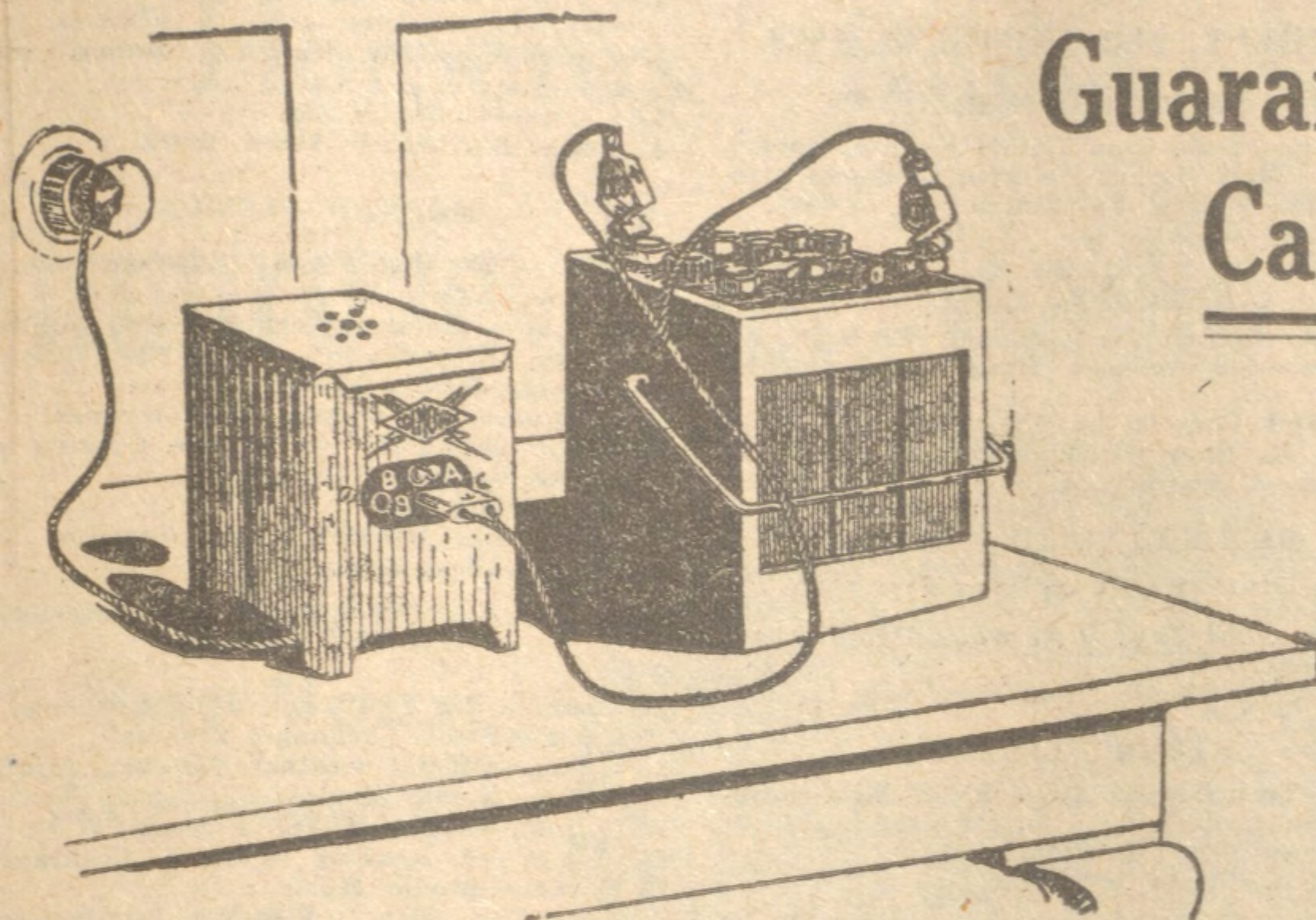
EVENING SESSION.

6 p.m.—G.P.O. chimes.

6.1 p.m.—Children's Happy Moments. Birthday greetings, correspondence, songs and stories, by "Auntie Peggy."

6.20 p.m.—"The Bird Lady" and her "Sunshine Songsters."

6.35 p.m.—Brother Bill of 3LO, Melbourne, will speak to boys, under the auspices of the Boy Week Committee, his subject being, "Playing to Win."



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NIGHT SESSION.

- 7 p.m.—G.P.O. Chimes.
 7.1 p.m.—Evening Service from Stow Memorial Church, Flinders Street, Adelaide.
 Anthem, "O Lamb of God" (Gounod).
 Prayer of Invocation.
 Lord's Prayer. (Chanted).
 Hymn 6, "Lord of all being."
 Scripture.
 Psalms (Chanted).
 Extemporary Prayer.
 Anthem, "Evening and Morning" (Oakley).
 Notices and Offertory.
 Hymn 186, "All hail the power."
 Sermon, Rev. Dr. Yates.
 Hymn 610, "The Day Thou gavest."
 Benediction.
 Vesper.
 Solo selected. Mr. Daymond.
 Organ solo:
 "Nocturne" from "Midsummer Night's dream" (Mendelssohn). Mr. Foxhall Robinson.
 8.25 p.m.—From the studio:
 Glenelg Municipal Band, selected.
 8.35 p.m.—Linda Wald, soprano:
 "Suicidio" (Ponchiello).
 "All in the April Evening" (Drach).
 8.42 p.m.—Topsy Doenau, pianoforte recital:
 Selected Pianoforte Classics.
 8.50 p.m.—Glenelg Municipal Band:
 Selection.
 9 p.m.—James Riley, tenor:
 "Now sleeps the Crimson Petal" (Quilter).
 "Down in the Forest" (Ronald).
 9.7 p.m.—Charles Court, cornetist:
 Selected Cornet solos.
 9.14 p.m.—Linda Wald and James Riley, vocal Duetists:
 "Home to our Mountains" (Verdi).
 9.21 p.m.—Glenelg Municipal Band: Selection.
 9.31 p.m.—Linda Wald, and James Riley, vocal duetists:
 "Oh Lovely night" (Ronald).
 9.35 p.m.—Charles Court, cornetist:
 Selected Cornet solos.
 9.45 p.m.—Mr. P. H. Nicholls:
 Will speak on "The Master Power."
 10 p.m.—G.P.O. Chimes.
 10.1 p.m.—International news.
 10.4 p.m.—Meteorological information, and Programme announcements.
 10.6 p.m.—God Save The King.

6WF, PERTH.

SUNDAY, 21st OCTOBER, 1928.

MORNING SESSION.

- 10.25 a.m.—Tune in.
 10.30 a.m.—Special half hour for the enthusiastic listener.
 11 a.m.—Morning service relayed from Museum Street, Baptist Church, Perth.
 12.15 p.m.—Close down.

AFTERNOON SESSION.

- 3.30 p.m.—Tune in.
 3.35 p.m.—Music and song:
 Musical programme from the studio, including vocal and instrumental numbers.
 4.30 p.m.—Close down.

EVENING SESSION.

- 7 p.m.—Tune in.
 7.1 p.m.—Children's bedtime stories by Miss Edna Johnstone.
 7.15 p.m.—Talk: "First Aid" by Dr. Winifred Holloway, of London.
 7.20 p.m.—Evening church service relayed from St. George's Cathedral, Perth.
 8.45 p.m.—A Relay:
 After-church service and concert by the Perth City Band, conducted by Mr. L. M. Price, 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, commencing at 7 p.m.

7ZL, HOBART

SUNDAY, 21st OCTOBER, 1928.

MORNING SESSION.

- 10.45 a.m.—Bells from Trinity Church, Hobart.
 11 a.m.—Morning Service from Chalmers Presbyterian Church, Bathurst Street, Hobart.
 12.25 p.m.—Close down.

AFTERNOON SESSION.

- 3.30 p.m.—G.P.O. Clock chimes the hour.
 3.31 p.m.—Transmission from the Beaumaris Zoo.
 A Band Concert by the Municipal Band.
 (L. M. Barnett, Conductor).
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

CHILDREN'S HOUR.

- 6.30 p.m.—The Fairy Girl will tell a story:
 "A Legend."
 6.45 p.m.—M'elie Columbia broadcasts.

EVENING SESSION.

- 7 p.m.—Transmission from Memorial Congregational Church.
 8.25 p.m.—From the studio:
 M'elie Columbia broadcast.

A SACRED CONCERT.

- Schubert's Unfinished Serenade, Parts, 1 and 2 (Schubert).
 Lewis James, tenor:
 "Hosanna."
 "The Palms."
 Organ solo: "Ave Maria."
 Fugue, "Alla Cigue."
 Carrie Hewrin, contralto:
 "The Messiah" Parts 1 and 2.
 The Late General Booth, An address in Verse:
 "Through Jordan."
 "Please Sir Save Me."
 The B.B.C. Choir:
 "O Day of Rest and Gladness."
 "O Worship the King."
 E. Brown, violin:
 "Song of India."
 "Coq D'Or—Hymn to the Sun."
 F. Breaslan, contralto:
 "Eli Eli."
 Organ solo:
 "Piece Heroique" Parts 1 and 2.
 Clara Butt, contralto:
 "God Shall wipe away all Tears."
 "Abide with me."
 Organ solo by Pattman:
 "Jesus shall reign."
 "Dear Saviour ever at my side."
 F. Breaslan, contralto:
 "Good Night" in Russian.
 C. Hewrin, contralto:
 "The Messiah."

NEWS SESSION.

- 9.44 p.m.—"Mercury" special news service.
 Ships within wireless range.
 Weather information.
 British Official Wireless news.
 God Save The King.
 Close down.

Monday, October 22

New South Wales Broadcasting Company, Limited.

2FC, SERVICE.

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, river reports.

- 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.
 10.2 a.m.—Studio Music.
 10.30 a.m.—"Sydney Morning Herald" news service.
 10.25 a.m.—Studio Music.
 10.30 a.m.—2FC Racing Commissioner.
 10.45 a.m.—A Talk on Home Cooking and Recipes by Miss Ruth Furst.
 11 a.m.—"Big Ben."
 A.P.A. and Reuter's Cable Services
 11.5 a.m.—Close down.

MIDDAY SESSION.

- 12 noon.—"Big Ben" and announcements.
 12.1 p.m.—Stock Exchange, first call.
 12.3 p.m.—Official weather forecast, rainfall.
 12.5 p.m.—Studio Music.
 12.15 p.m.—Rugby Wireless News.
 12.18 p.m.—A Reading by A. S. Cochrane.
 12.30 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.
 2 p.m.—Close down.

AFTERNOON SESSION.

- 2.30 p.m.—Programme announcements.
 2.32 p.m.—Educational Session for the Schools:
 Subject, "Everyday Things of the Past."
 3 p.m.—"Big Ben."
 Dorothy Farmer, pianoforte solos:
 (a) "Nocturne from Miniature Suite" (York Bowen).
 (b) "Prelude No. 17 in A Flat Major" (Chopin).
 Note.—During the afternoon progress scores from the Cricket Match, Australia versus The Rest, played at Melbourne.
 3.10 p.m.—Studio music.
 3.20 p.m.—Dorothy Farmer, pianoforte solos:
 "Preludes No. 4, 6, 7, 9 and 20" (Chopin).
 3.30 p.m.—Studio music.
 3.45 p.m.—A Reading.
 4 p.m.—"Big Ben."
 Alfred Dumbrell, baritone.
 4.8 p.m.—The Ambassadors' Dance Orchestra, conducted by Manuel Hyman.
 4.20 p.m.—Florence Smith and Alma Grinlinton, duets:
 (a) "Just awearyin' for you" (Jacobs-Bond).
 (b) "Where My Caravan has Rested" (Hermann Lohr).
 4.26 p.m.—The Ambassadors' Dance Orchestra.
 4.38 p.m.—Florence Smith and Alma Grinlinton, duets:
 (a) "I Did Not Know" (Trotter).
 (b) "I Love You Truly" (Jacobs-Bond).
 4.45 p.m.—Stock Exchange, third call.
 4.47 p.m.—The Ambassadors' Dance Orchestra.
 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

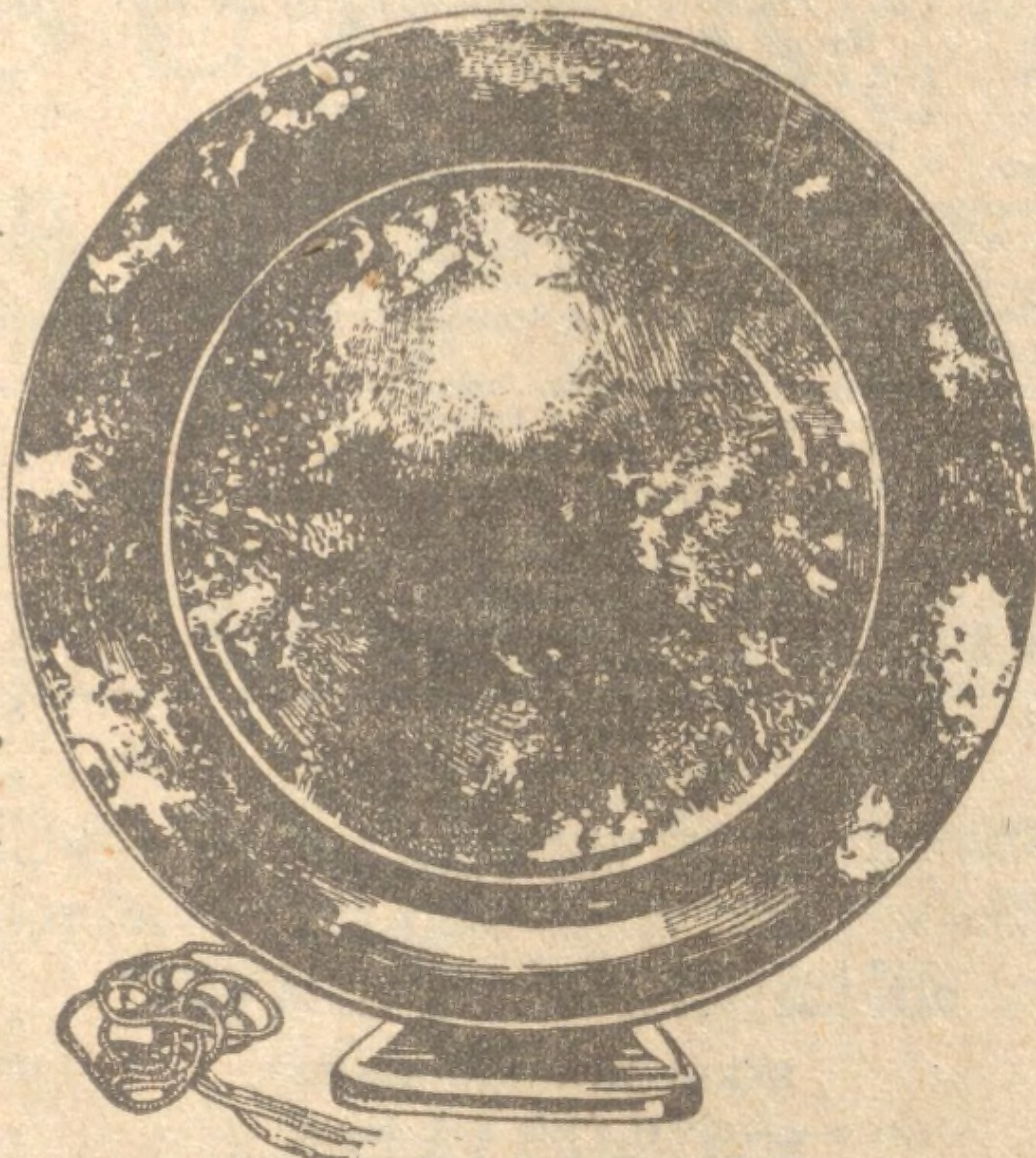
- 5.40 p.m.—The chimes of 2FC.
 5.45 p.m.—The Children's Session, conducted by the "Hello Man."
 Letters and stories.
 6.15 p.m.—Music and entertainment.
 6.30 p.m.—Dalgety's market reports (wool, wheat and stock).
 6.40 p.m.—Fruit and vegetable markets.
 6.43 p.m.—Stock Exchange information.
 6.45 p.m.—Weather and shipping news.
 6.48 p.m.—Rugby wireless news.
 6.50 p.m.—Late sporting information.
 7 p.m.—"Big Ben." Late news service.
 7.10 p.m.—The 2FC Dinner Quartet, conducted by Horace Keats:
 "A Spring Day" (Haines).

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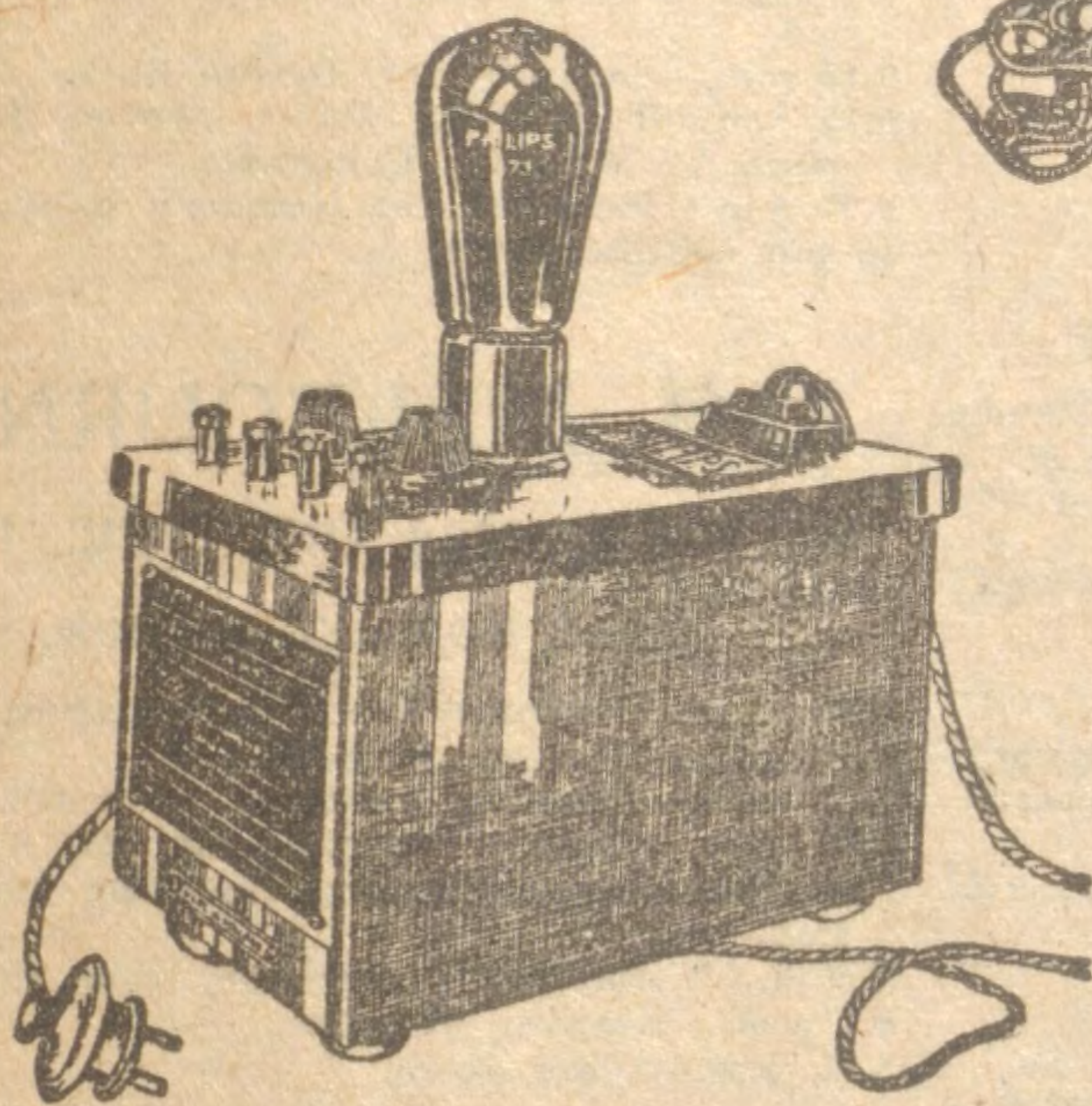
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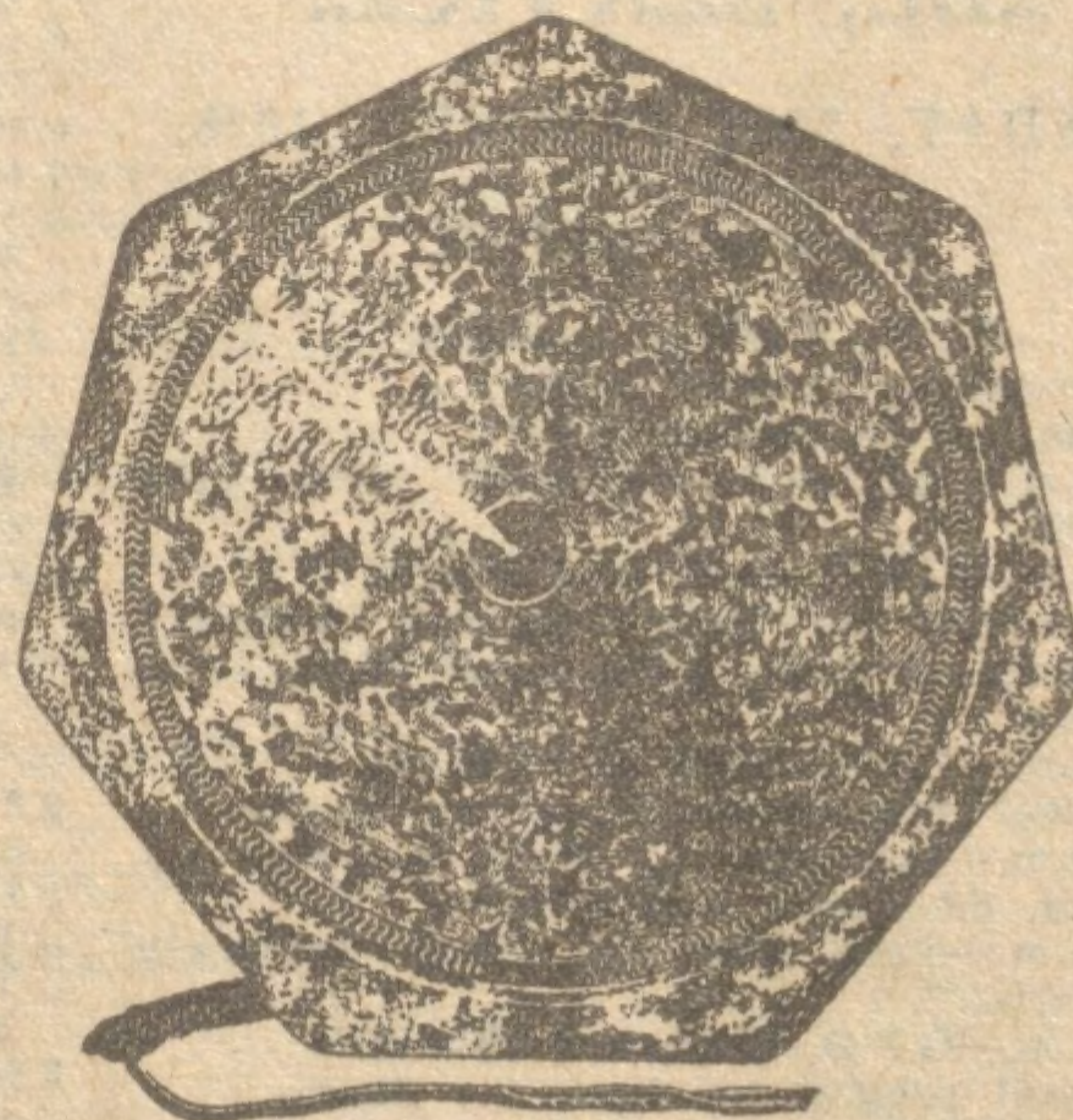
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 "No, No, Nannette" (Youmans).
 "Sun Flakes" (Phillips).
 "My Melancholy Baby" (Burnett).

NIGHT SESSION.

7.40 p.m.—Programme announcements.
 7.45 p.m.—Pianoforte selection.
 7.50 p.m.—From the North Shore Hospital:
 2FC Concert Party arranged by Carlton Fay.
 Assisting artists:
 Wally Baynes, comedian.
 Rae Foster, popular songs.
 Peggy Dunbar, contralto.
 Margaret Grimshaw, mezzo.
 Paul de Rayonne.
 Carlton Fay, pianist.
 9 p.m.—"Big Ben." From the Studio: Late weather forecast. The N.S.W. Broadcasting Company's Orchestra, conducted by Willie Redstone.
 9.15 p.m.—C. R. Hall will continue his series of talks, "Out and about in Iraq and Persia. "Seed time and Harvest."
 9.30 p.m.—The N.S.W. Broadcasting Company's Orchestra.
 9.45 p.m.—Vladimir Elin, Russian baritone:
 (a) "I Love Thee" (Greig).
 (b) Aria from "Rigoletto" (Verdi).
 (With orchestral accompaniment.)
 9.53 p.m.—The N.S.W. Broadcasting Company's Orchestra.
 10.8 p.m.—Vladimir Elin, Russian baritone:
 (a) "Aria" from "Ernani" (Verdi).
 (b) "Call Me Back" (Denza).
 10.16 p.m.—The N.S.W. Broadcasting Company's Orchestra.
 10.27 p.m.—To-morrow's programme and late news.
 10.30 p.m.—National Anthem.
 Close down.

2BL, SERVICE.

MONDAY, 22nd OCTOBER, 1928.

MORNING SESSION.

8 a.m.—G.P.O. clock and chimes.
 Metropolitan weather report.
 8.1 a.m.—State weather report.
 8.2 p.m.—Musical programme from the Studio.
 8.15 a.m.—G.P.O. clock and chimes.
 News from the "Daily Telegraph Pictorial."
 8.25 a.m.—Musical programme from the Studio.
 8.30 a.m.—G.P.O. clock and chimes.
 Musical programme from the Studio.
 8.35 a.m.—Information. Mails, shipping arrivals, departures and sailings.
 8.38 a.m.—News from the "Daily Telegraph Pictorial."
 8.45 a.m.—G.P.O. clock and chimes.
 Musical programme from the Studio.
 9 a.m.—G.P.O. clock and chimes.
 Musical programme from the Studio.
 9.30 a.m.—A reading.
 9.40 a.m.—Musical programme from the Studio.
 10 a.m.—G.P.O. clock and chimes.
 Close down.

MIDDAY SESSION.

11 a.m.—G.P.O. clock and chimes.
 Women's session.
 Sporting talk by Miss Gwen Varley, women's sports authority.
 11.15 a.m.—Talk on Electricity in the Home.
 12 noon.—G.P.O. clock and chimes.
 Special ocean forecast and weather report.
 12.3 p.m.—Musical programme from the Studio.
 12.30 p.m.—Shipping and mails.
 12.35 p.m.—Market reports.
 12.48 p.m.—"Sun" midday news service.
 1 p.m.—Musical programme from the Studio.

1.25 p.m.—From the Civil Service Stores:
 Speeches from the Trafalgar Day Luncheon.
 2 p.m.—G.P.O. clock and chimes.
 Close down.
 Note.—Race results from Epping Trots will be broadcast by courtesy of the "Sun" Newspapers.

AFTERNOON SESSION.

3.45 p.m.—G.P.O. Clock and chimes.
 During the afternoon scores from the match Australia verses The Rest, played at Melbourne, will be given.
 Romano's Restaurant Dance Orchestra under the direction of Mr. Merv. Lyons broadcast from Romano's.
 3.55 p.m.—Miss Grace Blake, mezzo soprano:
 "Happy Song" (Del Riego).
 3.59 p.m.—"Sun" news service.
 4.10 p.m.—Miss Eunice Hurst, violinist:
 (a) "Larghetto" (Weber-Kreisler).
 (b) "Melodie" (Gluck-Kreisler).
 4.17 p.m.—Miss Josie Westaway, soprano:
 (a) "Dear Heart" (Mattei).
 (b) "Carissima" (Penn).
 4.24 p.m.—Romano's Restaurant Dance Orchestra.
 4.30 p.m.—Mr. Roger Jones, baritone:
 (a) "A Song and a Dream" (Cadmen).
 (b) "An Answer" (Cohenreich).
 4.37 p.m.—Romano's Restaurant Dance Orchestra.
 4.45 p.m.—"Sun" news service.
 5.5 p.m.—Miss Grace Blake:
 "Daffodils from my Garden" (Boanas).
 5.8 p.m.—Miss Eunice Hurst:
 "Indian Lament" (Dvorak-Kreisler).
 5.15 p.m.—Mr. Roger Jones:
 (a) "Dearest I Love the morning" (Wood).
 (b) "The Hallowed Hour" (Wood).
 5.22 p.m.—Studio music.
 5.32 p.m.—Miss Josie Westaway:
 (a) "Sometimes in Summer" (Bennett).
 (b) "I live for you" (Thompson).
 5.39 p.m.—Features of evening's programme
 5.41 p.m.—Racing resume of Epping Trots.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
 Children's music and entertainment.
 6 p.m.—Children's letters and stories.
 6.30 p.m.—"Sun" news and late sporting.
 6.40 p.m.—Gulbransen Dinner Music.
 7.10 p.m.—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.
 Grain and Fodder report ("Sun").
 Dairy Produce report ("Sun").
 7.25 p.m.—Advertising Talks and studio items.
 7.57 p.m.—Programme and other announcements.

EVENING SESSION.

8.0 p.m.—G.P.O. Clock and Chimes.
 2BL Topical Chorus.
 8.3 p.m.—From the King's Cross Theatre.
 E. J. Roberts, conducting the King's Cross Theatre Orchestra. At the Wuriltzer Organ, Mr. Joseph Wayne.
 8.20 p.m.—From the Studio:
 Harry Graham and Dorothy Manning (Entertainers):
 (a) Duet, "The Fancy Dress Ball" (Henry).
 (b) "Bring Me a Rose" (Monckton) Dorothy Manning.
 (c) Duet, "In Our Canoe" (Ashdown).
 8.30 p.m.—From the Mosman Town Hall: The Mosman Municipal Band:
 (a) March, "The Mad Major" (Alford).
 (b) Fantasia, "Welsh Beauties" (Greenwood).
 8.45 p.m.—Studio Programme.
 9.45 p.m.—Weather Report and Forecast by courtesy of Government Meteorologist; From the Mosman Town Hall: The Mosman Municipal Band:
 (a) Waltz Intermezzo, "Queen of Dreams" (Lithgow).
 (b) Selection, "Country Life" (Le Duc).
 10.0 p.m.—From the Studio: Harry Graham and Dorothy Manning:
 (a) "Impromptu Duet" (Henry).
 (b) "Something to Practice On" (Lee), Harry Graham.
 (c) Duet, "Talkers and Tea" (Grey).

10.10 p.m.—From the King's Cross Theatre:
 The King's Cross Theatre Orchestra.
 10.25 p.m.—Resume of Following Day's Programme.
 10.30 p.m.—National Anthem.

2GB, SYDNEY.

MONDAY, 22nd OCTOBER, 1928.

MORNING SESSION.

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

AFTERNOON SESSION.

2 p.m.—Music.
 2.5 p.m.—Women's Radio Service by Mrs. Dorothy Jordan.
 2.30 p.m.—Music.
 3 p.m.—Close down.

EVENING SESSION.

5.30 p.m.—Children's Session by Uncle George. Radio Movie Club.
 7 p.m.—Stock and Market reports by New Zealand Loan and Mercantile Agency, Ltd.
 7.15 p.m.—Music.
 8 p.m.—Opening Chorus.
 8.2 p.m.—Songs by Mr. Breffni Rorke.
 8.9 p.m.—Violin solos by Miss Phyllis Campbell.
 8.17 p.m.—Announcements.
 8.22 p.m.—Items by the Newtown Band.
 8.42 p.m.—Resume of Programme.
 8.45 p.m.—Address by Professor E. Wood.
 9 p.m.—Weather report.
 9.2 p.m.—Violin solos by Miss Phyllis Campbell.
 9.10 p.m.—Songs by Mr. Breffni Rorke.
 9.17 p.m.—Talk from Radio Service Department, by Mr. Stan Crittendon.
 9.27 p.m.—Items by the Newtown Band.
 10 p.m.—Close down.

3LO, MELBOURNE

MONDAY, 22nd OCTOBER, 1928.

EARLY MORNING SESSION.

7.15 a.m.—Express train information.
 7.16 a.m.—Morning melodies.
 7.20 a.m.—Morning exercises to music.
 7.30 a.m.—Stock reports, market reports, general news, shipping, sporting information.
 8 a.m.—Melbourne Observatory time signal.
 8.1 a.m.—Morning melodies.
 8.15 a.m.—Close down.

MORNING SESSION.

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

RECIPE.

CONSOMME JULIENNE.—Two quarts clear stock, 1 carrot, 1 turnip, 2 sticks celery, salt and pepper to taste. Scrape carrot, peel turnip thickly and clean celery. Cut vegetables into pieces about the size and shape of matches. Cook these shredded vegetables in a pint of stock will tender. Put stock on to boil. Add cooked vegetables. Pepper and salt to taste. Serve hot with a little chopped parsley.

11.5 a.m.—MISS OLGA PARKER, Stories to tell the Children:
 "The Indian Prince Rama."
 11.20 a.m.—Musical interlude.
 11.25 a.m.—MISS RAY HARRIS:
 "Free Kindergarten Work."
 11.40 a.m.—Musical interlude.
 11.45 a.m.—Under the auspices of the St. John Ambulance Association, MISS EDITH WELLS will speak on "Helpful Hints in Nursing."

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MIDDAY SESSION.

- 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.
 12.15 p.m.—Newmarket Stock Sales. Special Report by John McNamara and Co.
 12.20 p.m.—COMMUNITY SINGING, transmitted from the Assembly Hall, Collins Street, Melbourne.
 Conductor, G. J. MACKAY, assisted by THE GYPSY PLAYERS, FRENCH BROS., banjoists—Mary Ann (Davis), Once Again (Lumsdaine). THE ESTELLE MARK TRIO, Selections from their repertoire.
 1.45 p.m.—Stock Exchange information. Meteorological information. Weather forecast for Victoria, New South Wales, Tasmania, and South Australia. Ocean forecasts. River reports.
 1.55 p.m.—Close down.

AFTERNOON SESSION.

- Announcer C. J. O'CONNOR.
 Accompanist AGNES FORTUNE.
 2.15 p.m.—THE STATION ORCHESTRA:
 Selection, "Samson and Delilah" (Saint-Saens).
 2.25 p.m.—MADAME LAMBERT, soprano:
 "Les Larmes de Werther" (Massenet).
 "L'Enmouree" (Reynaldo Hahn).
 "Mai" (Hahn).
 2.32 p.m.—TASMA TIERNAN, 'cello:
 "Le Cygne" (Saint-Saens).
 2.40 p.m.—STATION ORCHESTRA:
 "Prelude from the Deluge" (Saint-Saens).
 2.50 p.m.—DOLLY BURDETT, contralto:
 "Softly Awakes My Heart" (Saint-Saens).
 "Fair Spring is Returning" (Saint-Saens).
 2.57 p.m.—THE IMPERIAL RUSSIAN TRIO
 (Arved Norit, violin; John Berzinsky, 'cello, and William Ihster, piano).
 Arved Norit, violin:
 "Hymn au Soleil" (Rimsky-Korsakov).
 William Ihster, piano:
 "Fairytale" (Mechtner).
 The Trio:
 "Trio in A Minor" (Tchaikowsky).
 Variations finale e coda.
 3.12 p.m.—ERNEST WILSON, baritone:
 "O Mistress Mine" (Quilter).
 Selected.
 3.19 p.m.—THE STATION ORCHESTRA:
 "The Children's Overture—Part 1" (Quilter).
 3.26 p.m.—VICTOR BAXTER, tenor:
 "Go, Lovely Rose" (Quilter).
 "The Fuchsia Tree" (Quilter).
 3.33 p.m.—THE STATION ORCHESTRA:
 "The Children's Overture—Part 2" (Quilter).
 3.43 p.m.—DOLLY BURDETT, contralto:
 "Over the Mountains" (Quilter).
 "Slumber Song" (Quilter).
 3.50 p.m.—THE STATION ORCHESTRA:
 "Prelude" (Reiser).
 4 p.m.—STEWART AND LORRAINE:
 Humorous Instrumentalists.
 4.7 p.m.—MADAME LAMBERT, soprano:
 "Pensee d'Automne" (Massenet).
 "Valse des Cent Virges" (Lecocq).
 4.14 p.m.—THE STATION ORCHESTRA:
 "Spanish Serenade" (Friml).
 4.20 p.m.—ERNEST WILSON, baritone:
 "Sergeant Major on Parade."
 "When Song is Sweet."
 4.27 p.m.—THE STATION ORCHESTRA:
 "Suite Melodique" (Friml).
 4.37 p.m.—VICTOR BAXTER, tenor:
 Selected.
 4.45 p.m.—STEWART AND LORRAINE:
 Humorous Instrumentalists.
 4.52 p.m.—THE STATION ORCHESTRA:
 "Three Famous Pictures" (Haydn Wood).
 5 p.m.—"Herald" news session. Stock Exchange information.
 5.10 p.m.—Acceptances and barrier positions for the races at Werribee on Wednesday.
 5.15 p.m.—Close down.

EVENING SESSION.

- Announcer MAURICE DUDLEY.
 6 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
 6.25 p.m.—Musical interlude.
 6.30 p.m.—"BILLY BUNNY" has a story to tell.

NIGHT SESSION.

- Announcer MAURICE DUDLEY.
 Accompanist AGNES FORTUNE.
 7.5 p.m.—Stock Exchange information.
 7.15 p.m.—Results of Cricket Match, Australia v. The Rest, played at M.C.G.
 7.17 p.m.—Official report of the Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke Street, Melbourne. Fish market reports by J. R. Borrett, Ltd. Rabbit prices. River reports. Market reports by the Victoria Producers' Co-operative Company, Ltd. Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruiterers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.
 7.30 p.m.—News Session.
 7.43 p.m.—BIRTHDAY GREETINGS.
 7.45 p.m.—OUT OF THE PAST.
 7.46 p.m.—Under the auspices of the Department of Agriculture, F. DE CASTELLA, Viticulturist, will speak on:
 "Viticulture—Seasonal Hints."
 8 p.m.—A MAKER OF HISTORY.
 8.1 p.m.—THE STATION ORCHESTRA:
 "Fantasia" (Beethoven).
 8.10 p.m.—ELSY TREWEEK, soprano:
 "Micaela's Song"—"Carmen" (Bizet).
 8.17 p.m.—IMPERIAL RUSSIAN TRIO:
 John Berzinsky, 'cello.
 "Minuetto" (Becker).
 The Trio:
 "Berceuse" (Jarnefeldt).
 Arved Norit, violin:
 "Mazurka" (Chopin).
 The Trio:
 "Scherzo" (Goens).
 8.32 p.m.—MARY MACK, contralto:
 Two Little Australian Songs:
 "The Lucky White Horse" (Gibson Smythe).
 "Imp o' Dreams" (McBurney).
 8.39 p.m.—THE STATION ORCHESTRA:
 "Minuet in G" (Beethoven).
 THE ROYAL VICTORIAN LIEDERTAFEL.
 8.46 p.m.—Soloists:
 ANNIE CADDELL, soprano:
 COLIN THOMPSON, tenor.
 Accompanist, W. BURRELL.
 Conductor, MANSLEY GREER.
 Chorus, with Soprano Solo, "Great is Jehovah the Lord."
 Part Song, "Night in the Forest."
 Part Song, "Gondolier's Serenade."
 Chorus, with Tenor Solo, "The Night is Cloudless and Serene."
 9.16 p.m.—PROFESSOR R. J. A. BERRY, M.D., F.R.C.S., F.R.S., University of Melbourne, will speak on:
 "The Little Island Home of New York City."
 9.31 p.m.—THE STATION STRING QUARTET:
 "Quartet" (Beethoven).
 9.41 p.m.—ELSY TREWEEK, soprano:
 "In the Silver Moonbeams" (Cyril Scott).
 "The Unforeseen" (Scott).
 9.48 p.m.—JOSEPH BARILLE, flute:
 "Serenade" (Titl).
 9.54 p.m.—MARY MACK, contralto:
 "Soft-Footed Snow" (Figurd Lie).
 "The Leaves and the Wind" (Leoni).
 10 p.m.—"Argus" News Service. Meteorological information. British Official Wireless News from Rugby. Announcements.
 10.10 p.m.—THE ESTELLE MARK TRIO:
 Cecil a Kilduff, violin:
 "Allegretto from Sonata in D" (Rubinstein).
 Estelle Mark, soprano:
 "Night" (Rachmaninoff).
 Margot Sheridan, piano:
 "Papillons" (Schumann).
 10.25 p.m.—STEWART AND LORRAINE:
 Humorous Instrumentalists.
 10.32 p.m.—PAT McLEAN, soubrette:
 "Child Impersonations."
 10.39 p.m.—THE STATION ORCHESTRA:
 "Monsieur Tricotrin" (Rawlinson).
 10.46 p.m.—PAT McLEAN, soubrette:
 "Child Impersonations."
 10.55 p.m.—THE RADIO-ACES.
 11.40 p.m.—"God Save the King."

3AR, MELBOURNE

MONDAY, 22nd OCTOBER, 1928.

MORNING NEWS SESSION.

- 10 a.m.—G.P.O. Clock says "Ten."
 10.1 a.m.—"Age" Stock Exchange reports. London Metal Market.
 10.10 a.m.—"Age" Market reports—farm and station produce, fruit, fish, vegetables, etc.
 10.25 a.m.—"Age" Shipping reports.
 Ocean forecast.
 10.30 a.m.—Mail notices.
 Express Train information.
 10.35 a.m.—"Age" news service, exclusive to 3AR.
 10.59 a.m.—Weather forecast.

MORNING MUSICAL SESSION.

- Announcer FRANK HATHERLEY.
 Accompanist REG. BROWN.
 11 a.m.—Radi-o-Aces:
 "Down in Old Havanna Town" (Cadser).
 "Hugs and Kisses" (Alter).
 "Egypt" (Seamon).
 11.15 a.m.—Marcelle Berardi, soprano:
 "Air e Variations" (Proch).
 "Home, Sweet Home" (Bishop).
 11.22 a.m.—Radi-o-Aces:
 "All Day Long" (Cross).
 "Got a Big Date" (Tobias).
 "Sunshine" (Berlin).
 11.37 a.m.—Stanley J. Allan, tenor:
 "A Prayer to Our Lady."
 "My Song of Love."
 11.44 a.m.—Radi-o-Aces:
 "Guatemala Melody" (Wenirch).
 "Lauretta" (Lewis).
 "Adoree" (Silver).
 12 noon.—Winifred Greer, contralto:
 "I Know a Lovely Garden" (d'Hardest).
 "My Dear Soul" (Sanderson).
 12.7 p.m.—Radi-o-Aces:
 "You've Got to Learn to Smile" (O'Hagan).
 "Dear, On a Night Like This" (Conrad).
 "Never Before, Never Again" (Chik).
 12.22 p.m.—Marcelle Berardi, soprano:
 "The Bell Song" (Delibes).
 "Chanson Arabe" (Bemberg).
 12.30 p.m.—British Official Wireless news. Announcements.
 12.40 p.m.—Radi-o-Aces:
 "Laugh, Clown, Laugh" (Young).
 "There's Something About a Rose" (Kahal).
 "Loved Me" (Wilson).
 12.55 p.m.—Stanley J. Allan, tenor:
 "Flower Song" from "Carmen" (Bizet).
 "Bonnie Mary of Agyle."
 1.7 p.m.—Radi-o-Aces:
 "Fascinating Vamp" (Nussebaum).
 "That's My Weakness Now" (Stept).
 "What a Baby" (Whiting).
 1.17 p.m.—Winifred Greer, contralto:
 "Angel's Serenade" (Braga).
 "Salaam" (Lang).
 1.24 p.m.—Radi-o-Aces:
 "The Whisper Song" (Friend).
 "Keep Sweeping the Cobwebs" (Trent).
 "Shanghai Dream Man" (Davis).
 1.30 p.m.—Close down.

EVENING SESSION.

- Announcer FRANK HATHERLEY.
 5 p.m.—A Recital of the World's Greatest Masters.

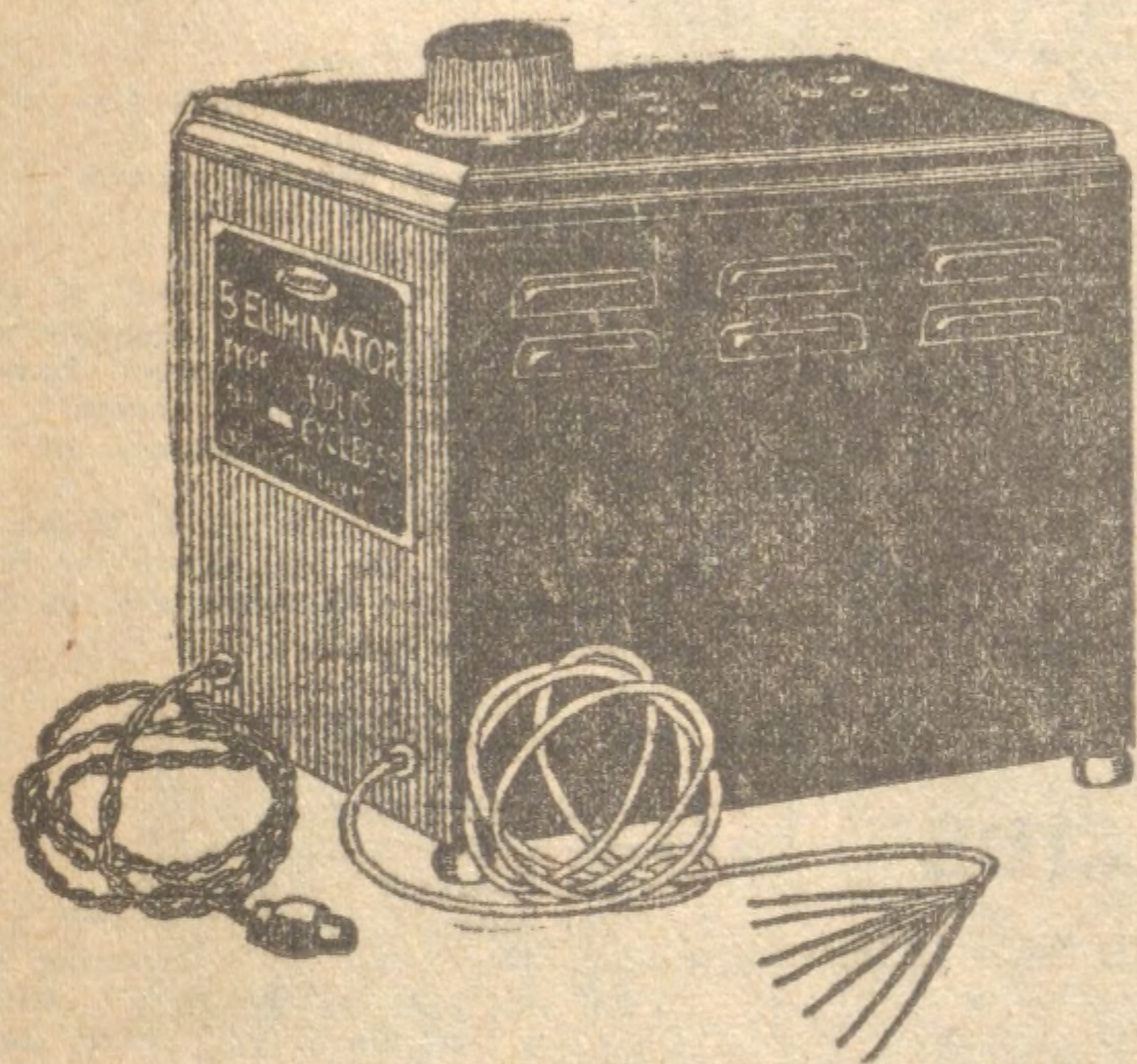
NIGHT SESSION.

- Announcer J. STUART.
 Accompanist REG. BROWN.
 8 p.m.—E. C. H. Taylor:
 "School Life and School Sport."
 8.15 p.m.—Under the auspices of the League of Nations. Professor D. B. Copland:
 "German Reparation."
 8.30 p.m.—Under the auspices of the Advance Bendigo and the North League, Moulamein and Balranald Districts.
 8.40 p.m.—Radi-o-Aces:
 "Dance of the Dolls" (Kahn).
 "Last Night I Dreamed You Kissed Me" (Kahn).
 "That's Mammy" (Lumsdaine).

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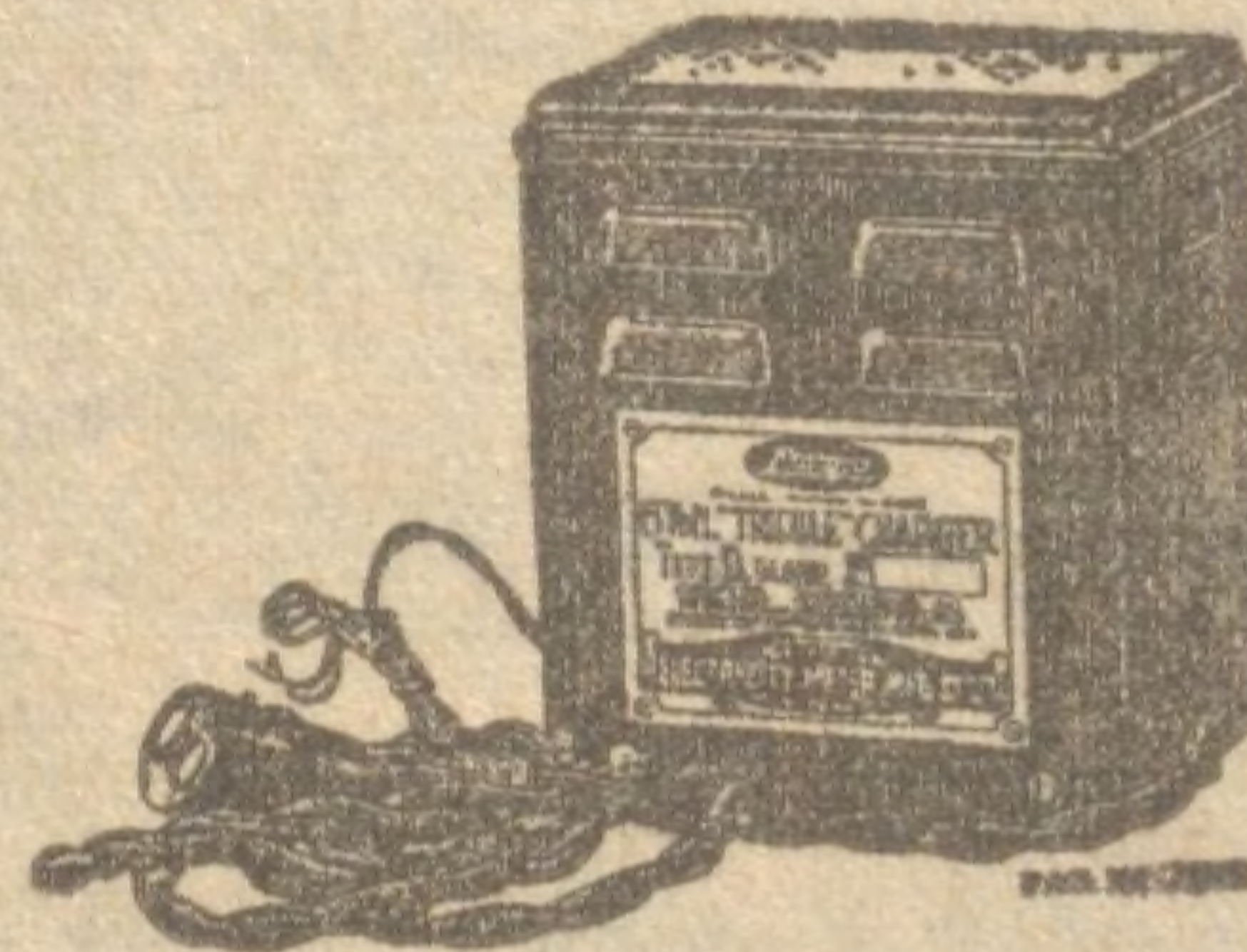
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8.50 p.m.—Marcelle Berardi, soprano:
"Romance" (Debussy).
8.53 p.m.—Radi-o-Aces:
"Honeymoon Cottage" (Lumsdaine).
"I'm Wingin' Home" (Russell).
"Evening Star" (Turk).
9.3 p.m.—Alex. Wotherspoon, bass:
"Nothin' but Love" (Carrie-Bond).
9.6 p.m.—Radi-o-Aces:
"Russian Rag" (Stutzel).
"Henry's Made a Lady Out of Lizzie"
(O'Keefe).
"We'll Have a New Home in the Morning"
(Buck).
9.16 p.m.—J. Harcourt-Bailey, entertainers:
"The Caretaker."
9.19 p.m.—Radi-o-Aces:
"Oriental Moonlight" (Seamon).
"Bid All Your Troubles Good-bye" (Leslie).
"My Melancholy Baby" (Norton).
9.29 p.m.—Alex. Wotherspoon, bass:
"There's a Friend in Every Milestone"
(Powell).
9.32 p.m.—Radi-o-Aces:
"Ice Cream."
"I Know that You Know" (Youmans).
"Love Affairs" (Robinson).
9.42 p.m.—Marcelle Berardi, soprano:
"The Last Rose of Summer."
9.45 p.m.—Radi-o-Aces:
Piano Solo, "Rag Doll" (Brown).
"Sweet Ella May" (Robinson).
"Cry Baby" (Smith).
9.55 p.m.—J. Harcourt-Bailey, entertainer:
"The Hero" (Hanray).
9.58 p.m.—Radi-o-Aces:
"Rose of Monterey" (Guy).
"Red Head" (Ermbey).
"The Man I Love" (Gershwin).
10.3 p.m.—Alex. Wotherspoon, bass:
"Rose of My Life."
10.11 p.m.—Radi-o-Aces:
"Was It a Dream" (Brett).
"Together" (Brown).
"Mary Ann" (Davis).
10.21 p.m.—Marcelle Berardi, soprano:
"A Little Birdie" (Puccini).
10.24 p.m.—Radi-o-Aces:
"Tell Me To-night" (Little).
"Oh, Doris, Where Do You Live" (Kahn).
"There's One Little Girl Who Loves Me"
(Kahn).
10.34 p.m.—J. Harcourt-Bailey, entertainer:
"The Girl on the Stairs" (Hanray).
10.37 p.m.—Radi-o-Aces:
"Polly" (Zamecnik).
"Felix the Cat" (Naustraum).
"Delirium" (Schutt).
"Blue Berry Land" (Bryan).
10.50 p.m.—"Age" news service, exclusive to
3AR.
10.57 p.m.—Acceptances for Wednesday's
races.
10.58 p.m.—Weather forecast.
10.59 p.m.—Our Australian Good-night quote.
11 p.m.—God Save the King.

4QG, BRISBANE.

MONDAY, 22nd OCTOBER, 1928.

EARLY MORNING SESSION.

8.0 a.m.—From the Studio:
This Morning's News, supplied by courtesy
of the Brisbane Metropolitan Daily News-
papers.
8.30 a.m.—Close Down.

MORNING SESSION.

11.0 a.m. to 12 noon.

MIDDAY SESSION.

1.0 p.m.—Market Reports and Weather In-
formation.
1.15 p.m.—Lunch-hour Music.
1.58 p.m.—Time Signals.
2.0 p.m.—Close Down.

AFTERNOON SESSION.

3.0 p.m.—Music by the Tivoli Operatic
Orchestra, under the baton of Mr. C.
Groves.

3.31 p.m.—Mail Train Running Times.
3.35 p.m.—Enithe Clarke (pianiste):
"Prelude" (Pachulski).
Berenice Berg (contralto):
"I Love You Truly."
"Just a-Wearin' for You" (Jacobs Bond).
Enithe Clarke (pianiste):
"The Lake" (Sterndale-Bennett).
3.50 p.m.—A Programme of Electrically Re-
produced Records.
4.15 p.m.—Afternoon News.
4.30 p.m.—Close Down.

EARLY EVENING SESSION.

6.0 p.m.—Mail Train Running Times; Mail
Information; Shipping News.
6.5 p.m.—Dinner Music.
6.25 p.m.—Commercial Announcements.

THE CHILDREN'S HOUR.

6.30 p.m.—Bedtime Stories conducted by "The
Sandman."

LATE COMMERCIAL NEWS.

7.0 p.m.—News in Brief.
7.5 p.m.—Stock Exchange News.
7.6 p.m.—Metal Quotations.
7.7 p.m.—Market Reports.
7.25 p.m.—Fenwick's Stock Report.
7.30 p.m.—Weather Information.
7.40 p.m.—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.

8.0 p.m.—Election Speech by Mr. J. H.
Scullin.
At the conclusion of the speech a pro-
gramme of electrically reproduced records
will be broadcast from the Studio.
Mr. Inigo Jones will deliver a science
talk: "The First Signs of Man."
10.0 p.m.—Late News; Weather News; Close
Down.

5CL, ADELAIDE

MONDAY, 22nd OCTOBER, 1928.

MORNING SESSION.

11 a.m.—G.P.O. Chimes.
11.1 a.m.—Studio "Recreator."
Recital of H.M.V. Recordings.
11.40 a.m.—"Economist":
Kitchen Craft and Menu talk.

MIDDAY SESSION.

12 noon.—G.P.O. Chimes.
12.1 p.m.—"The Advertiser" general news
service.
12.15 p.m.—British Official Wireless news.
12.20 p.m.—Boy Week Celebrations.
Music and Speeches from Victoria Hall.
12.50 p.m.—From the studio:
S. C. Ward and Co.'s Stock Exchange Infor-
mation.
12.57 p.m.—Meteorological information.
1 p.m.—G.P.O. Chimes.
1.1 p.m.—P. M. Perriam, Mouth Organist:
Selected Mouth Organ solos.
1.8 p.m.—Winifred Lavis:
Songs at the piano.
1.15 p.m.—Boy Week Celebrations:
Music and special speeches from Victoria
Hall.
1.50 p.m.—From the studio:
Winifred Lavis, Songs at the piano.
1.57 p.m.—Meteorological information.
2 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Regent Symphony Orchestra:
Symphonic Selections.
3.20 p.m.—Len Maurice, Whispering Baritone:
"Was it a dream" (Spier).
"Say yes to-day" (Donaldson).
3.27 p.m.—Regent Symphony Orchestra:
Orchestral selections.
3.42 p.m.—Joe Brennan and Ida Newton:
Eight minutes fun and harmony.

3.50 p.m.—Regent Wurlitzer Organ:
Selections.
4 p.m.—G.P.O. Chimes.
4.1 p.m.—Molly Mackay, soprano.
Selections from her repertoire.
4.8 p.m.—Regent Symphony Orchestra:
Symphonic Selections.
4.28 p.m.—Len Maurice, Whispering baritone:
"Chloe" (Moret).
"Side by Side" (Wood).
4.30 p.m.—Regent Wurlitzer Organ:
Selections.
4.45 p.m.—Molly Mackay, soprano:
Selections from her repertoire.
4.50 p.m.—Regent Symphony Orchestra:
Orchestral selections.
4.57 p.m.—S. C. Ward and Co.'s Stock Ex-
change Information.
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 Happy moments:
Birthday Greetings, Correspondence, Songs
and Stories by "Miss Wireless."
6.30 p.m.—Dinner Music.
Recital of H.M.V. Recordings on the Studio
"Recreator."
7 p.m.—G.P.O. Chimes.
7.1 p.m.—S. C. Ward and Co.'s Stock Ex-
change information.
7.4 p.m.—General Market reports.
7.6 p.m.—Mr. B. V. Crewe:
Will give a motoring talk.
7.15 p.m.—Under the auspices of the South
Australian Agricultural Department Mr. R.
Fowler (Manager, Blackwood Experimental
Orchard) will address Listeners.
7.30 p.m.—Under the auspices of the Boy
Week Committee.
"The Twinkler" (Mr. F. J. Mills).
Will entertain the 5CL Twinkler Boys Club,
and will introduce Brother Bill of 3LO Mel-
bourne to the boys.

NIGHT SESSION.

8 p.m.—G.P.O. Chimes.
8.1 p.m.—Station Orchestra:
"In the Cloisters" (Torrance).
"At the summit of St. Bernard" (Lotter).
8.10 p.m.—Len Maurice, Whispering baritone:
"When you played the organ" (Gilbert).
"Oh Boy couldn't you care for that"
(Sneider).
8.17 p.m.—Station Orchestra:
"Phi Phi" (Christine).
"Vive La Dance" (Finck).
8.27 p.m.—Joe Brennan and Ida Newton:
Ten minutes music and frivolity.
8.37 p.m.—Molly Mackay, soprano:
Selections from her repertoire.
8.44 p.m.—Station Orchestra:
"Aida" (Verdi).
8.54 p.m.—Len Maurice, Whispering baritone:
"Down where the sun goes down."
"Romona" (Wayne).
9 p.m.—G.P.O. Chimes.
9.1 p.m.—Meteorological information.
9.2 p.m.—Overseas Grain report.
9.3 p.m.—Station Orchestra:
"Sanctuary of the heart" (Ketelby).
"Birds and Butterflies" (Vely).
9.13 p.m.—Lizette Foglia, violiniste:
Selected Violin solo.
9.20 p.m.—Molly Mackay, soprano:
Selections from her repertoire.
9.27 p.m.—Charles Court, cornetist:
Selected Cornet solos.
9.37 p.m.—Joe Brennan:
"Nobody noticed me."
9.41 p.m.—Station Orchestra:
"In cherry blossom garden" (Edwards).
"Marianette" (Alexander).
9.51 p.m.—Ida Newton, soprano:
"Mistress Biddy."
9.55 p.m.—Tom King, pianist:
"Gipsy Love Song" (Herbert).
10 p.m.—G.P.O. Chimes.
10.1 p.m.—"The Advertiser" general news
service.
10.15 p.m.—International news.
And Murray Bridge Acceptances.
10.20 p.m.—The Maison Dance Band:
Transmitted from Glenelg, Dance numbers.
10.57 p.m.—Meteorological information and
programme announcements.
11 p.m.—God Save The King.

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6WF, PERTH.

MONDAY, 22nd OCTOBER, 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.
 Station announcements.
 1.2 p.m.—Lunch Hour Music:
 Brunswick Panatrophe hour relayed from Messrs. Musgrove's Limited Concert Hall, Perth.
 2 p.m.—Close down.

AFTERNOON SESSION.

- 3.30 p.m.—Tune in.
 3.35 p.m.—Afternoon Tea Concert relayed from the Carlton Cafe, Perth.
 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.
 6.48 p.m.—Stories for the Kiddies by Uncle Henry and Duffy.
 Uncle Henry will talk to the Boys.
 7.5 p.m.—Items by the Studio Trio.
 7.30 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.—Concert Night:
 Musical programme from the studio, including vocal and instrumental artists.
 9 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.
 Ships within range announcement.
 Weather report and forecast.
 Station announcements.
 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, 22nd OCTOBER, 1928.

MIDDAY SESSION.

- 11.30 a.m.—Special Midlands Weather forecast.
 11.31 a.m.—H.M. Voice in Moments, Merry, and Musical.
 11.55 a.m.—Tasmanian stations 9 a.m. weather report.
 12 noon.—G.P.O. Clock chimes the hour.
 12.1 p.m.—Shipping information.
 Ships within wireless range.
 Mail notices.
 Commercial news.
 12.8 p.m.—His Masters Voice in Moments, Merry, and Musical.
 12.29 p.m.—Announcements.
 12.33 p.m.—His Masters Voice in Moments, Merry, and Musical.
 12.55 p.m.—"Mercury" news service.
 Produce sales held at Railway.
 1.10 p.m.—His Masters Voice in Moments, Merry and Musical.
 1.30 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Clock chimes the hour.
 3.1 p.m.—Weather information.
 3.5 p.m.—H.M. Voice in Moments, Merry and Musical.
 An All Star Programme.
 Johann Strauss and Symphony Orchestra:
 Waltz, "Tales from the Vienna Woods" (Johann Strauss).

- Waltz, "Artist's Life" (Johann Strauss).
 Madames Birse, and Ershova, with piano:
 "Chauve Souris"—Grief (Chopin). In Russian.
 "Chauve Souris"—The Songs of the Black Hussars (Chopin).
 Stewart Gardner, baritone:
 "The Devout Lover."
 "So we'll go no more a-roving" (W. V. White).
 Organ Solo, G. T. Pattman:
 "Piece Heroique" Parts 1 and 2 (Cesar Franck).
 Edgar Coyle, baritone:
 "My Heart still clings to you" (Ketelney).
 "Until" (Sanderson).
 New Queen's Hall Light Orchestra:
 "Peer Gynt Suite" Nos. 1 and 2 (Grieg).
 Associated Glee Clubs of America, 850 Male Voices:
 "John Peel" (Andrews).
 "Adeste Fideles"—O come all ye Faithful (Andrews).
 Fraser Gange, baritone:
 "On the road to Mandalay" (Speakes).
 "The Two Grenadiers" (Schumann).
 The Silver Stars Band:
 Serenade, "Les Millions D'Arlequin" (Drigo).
 "Valse Triste" (Sibelius).
 Charles Hackett, tenor:
 "In a Persian Garden" (Lehmann).
 "Beloved it is morn" (Aylward).
 Jean Lensen and his Orchestra:
 "Chanson Hindou" (Rimsky Korsakov).
 Song of India.
 "Second Serenade" (Toselli).
 Pianoforte solo by Edward Isaacs:
 "Moment Musical F. Minor" (Schubert).
 "Waltz in D Flat" (Chopin).
 4.15 p.m.—Fashion Talk:
 "The world must be getting old, I think; It dresses so very soberly now."
 "Aunt Edna" will speak on: Silk for all occasions.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

CHILDREN'S HOUR.

- 6.15 p.m.—M'elie Columbia broadcasts.
 6.45 p.m.—Ena Jolley (14 years of age, Pupil of Madame Viola Pearce.) Piano recital:
 "Rosary" (Nevin).
 "Waltz" (Chopin).
 7 p.m.—Answers to Letters and Birthday Greetings by "Uncle David."
 7.5 p.m.—M'elie Columbia broadcasts.
 7.15 p.m.—"Mercury" special Tasmanian news service.
 Railway auction produce sales.
 Weather information.
 Hobart Stock Exchange.

EVENING SESSION.

- 7.30 p.m.—George Collis, Tasmania's Champion Wrestler will speak on:
 "Physical Training."
 7.45 p.m.—Roy Johnson will give a talk on Manual training.
 8 p.m.—G.P.O. Clock chimes the hour.
 8.1 p.m.—Under the auspices of the 7ZL and "Mercury" Hospital Appeal for Wireless Equipment for the Hobart General Hospital: Alderman J. Wignall, Mayor of Hobart, will speak on:
 "What happiness means to the Suffering."
 A Studio Concert:
 Artists: Miss Nita Wood, Fred Heraud, Misses Trotter and Meyne, Daisy Walters, David Fierclough, Chas. Hackett, Harold Walters, Frank Webster, Monsieur Sonora.
 Announcer JACK BROADBENT.
 8.6 p.m.—Nita Wood:
 Musical Monologue, "Lesson of the Water-mill."
 "Tit for Tat."
 8.13 p.m.—Fred Heraud, baritone:
 "Speed the Plough" (Coates).
 8.17 p.m.—The Misses Trotter, piano duet:
 "Les Sylphes" (Buechmann).
 8.24 p.m.—Monsieur Sonora, Harold Walters, Baritone:
 "The Village Blacksmith."
 8.27 p.m.—Daisy Walters, soprano:
 "Winds in the South" (Scott).
 8.31 p.m.—David Fierclough, violin:
 "Second Romance" (Kriesler).
 "Andantino" (Kriesler).

- 8.38 p.m.—Monsieur Sonora, Frank Webster, tenor:
 "Onaway Awake Beloved" (Coleridge Taylor).
 8.42 p.m.—Fred Heraud, baritone:
 "Harlequin" (Sanderson).
 8.46 p.m.—Nita Wood, piano:
 "Nocturne" (Chopin).
 8.53 p.m.—Monsieur Sonora, Charles Hackett, tenor:
 "The Sunshine of your Smile."
 8.57 p.m.—Daisy Walters, soprano:
 "The Piper of Love" (Molly Carew).
 9.10 p.m.—Misses Trotter and Mayne, piano trio:
 "Tambour Evant" (Durand).
 9.6 p.m.—Monsieur Sonora:
 Waltz, "Call of Aloha."
 9.10 p.m.—Fred Heraud:
 Baritone, "Lifeless and Grey the sea lies" (Lohr).
 9.14 p.m.—Nita Wood:
 Recitation, "Rosa."
 9.20 p.m.—Monsieur Sonora:
 Violin, Cello, and Piano, "Scherzo" by the Cherniavsky Trio.
 9.24 p.m.—Daisy Walters, soprano:
 "The Swallows" (Cowen).
 9.28 p.m.—David Fierclough, violin:
 "Cradle Song" (Pechotsch).
 "Menuet" (Burmester).
 9.31 p.m.—Monsieur Sonora:
 Organ, "The Swan."
 9.34 p.m.—Fred Heraud, baritone:
 "Trees" (Rasbach).
 9.41 p.m.—Monsieur Sonora:
 Medley, "The Steamboat"—with effects.
 "Farmyard Medley."
 9.44 p.m.—Daisy Walters, soprano:
 "April Morn" (Batten).
 9.47 p.m.—Monsieur Sonora:
 Princes Orchestra, "La Paloma."

NEWS SESSION.

- 9.50 p.m.—British Official Wireless news service.
 Ships within wireless range.
 Tasmanian District Weather reports.
 Examiner news service.
 10 p.m.—G.P.O. Clock chimes the hour.
 10.3 p.m.—God Save The King.
 Close down.

Tuesday, October 23

New South Wales Broadcasting Company, Limited.

2FC, SERVICE.

EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and programme announcements.
 7.5 a.m.—Studio Music.
 7.20 a.m.—Country Session: Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services, river reports.
 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.
 10.2 a.m.—Studio Music.
 10.10 a.m.—"Sydney Morning Herald" news service.
 10.25 a.m.—Studio Music.
 10.30 a.m.—Last minute sporting information 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.—Close down.



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Sydney, N. S. W.

MIDDAY SESSION.

- 12 noon.—"Big Ben" and announcements.
 12.1 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 news: "Sydney Morning Herald."
 12.15 p.m.—Rugby Wireless News.
 12.18 p.m.—A Reading by A. S. Cochrane.
 12.30 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.
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 2.30 p.m.—Programme announcements.
 2.32 p.m.—Educational Session for the Schools: Subject, "How Things Grow."
 3 p.m.—"Big Ben." Pianoforte selections.
 Note.—During the afternoon progress scores of the Cricket Match, Australia versus The Rest, played at Melbourne.
 Race results from Gosford will be transmitted as received.
 3.25 p.m.—Studio Music.
 3.45 p.m.—A Reading.
 4 p.m.—"Big Ben."
 Irene Kennedy, contralto:
 (a) "The String of Pearls" (Phillips).
 (b) "The Rosary" (Nevin).
 4.8 p.m.—The Ambassadors' Dance Orchestra, conducted by Manuel Hyman.
 4.20 p.m.—John Fitzer, baritone:
 (a) "Little Brown Cottage" (Dickson).
 (b) "Souvenirs" (Franck).
 4.28 p.m.—The Ambassadors' Dance Orchestra.
 4.39 p.m.—Winifred Batchelor, soprano:
 (a) "Woodpigeon" (Liza Lehmann).
 (b) "The Yellow Hammer" (Liza Lehmann).
 4.45 p.m.—Stock Exchange, third call.
 4.47 p.m.—John Fitzer, baritone:
 (a) "The Silent Watcher" (Grant).
 (b) "One Hour" (Longstaff).
 4.55 p.m.—The Ambassadors' Dance Orchestra.
 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
 5.45 p.m.—Children's Session, conducted by the "Hello Man."
 Letters and stories.
 6.15 p.m.—Music and entertainment.
 6.30 p.m.—Dalgety's market reports (wheat, wheat and stock).
 6.40 p.m.—Fruit and vegetable markets.
 6.43 p.m.—Stock Exchange information.
 6.45 p.m.—Weather and shipping news.
 6.48 p.m.—Rugby wireless news.
 6.50 p.m.—Late sporting news.
 7 p.m.—"Big Ben." Late news service.
 7.10 p.m.—The 2FC Dinner Quartet, conducted by Horace Keats:
 "Moonlight in Rio" (Wertheimer).
 "Three-Fours Waltz" (Taylor).
 "Suite Bohemian" (Ord Hume).
 "Bird Songs at Eventide" (Coates).
 "Prelude in C Sharp Minor" (Rachmaninoff).
 "March of the Toys" (Herbert).

NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
 7.45 p.m.—Pianoforte selection.
 8 p.m.—"Big Ben." The N.S.W. Tramway Band.
 8.15 p.m.—Details of the Eisteddfod.
 8.18 p.m.—R. A. Bartleman, baritone:
 (a) "The Golfers' Toast" (Lehr).
 (b) "The Mountains of Glamorgan" (Hulbert).
 8.25 p.m.—The N.S.W. Tramway Band.
 8.40 p.m.—Ruby Leslie, soprano:
 (a) "Butterfly Wings" (Montague Phillips).
 (b) "My curly-headed Baby" (Clutsam).
 8.47 p.m.—Madame Evelyn Grieg, pianoforte, and Rene Rich, violinist:
 (a) "Andante from Symphony Espagnole" (Lalo).
 (b) "Ronde de Lutins" (Bazzini).

8.57 p.m.—Captain Fred Aarons:

- To-night's Anniversary.
 9 p.m.—"Big Ben."
 Late weather forecast.
 The N.S.W. Tramway Band.
 9.15 p.m.—Freda Sternberg will continue her series of Travel Talks.
 9.30 p.m.—The N.S.W. Tramway Band.
 9.45 p.m.—R. A. Bartleman, baritone:
 (a) "Tramping" (Lehmann).
 (b) "Had a Horse" (Korbay).
 9.52 p.m.—Madame Evelyn Grieg, pianoforte solos:
 (a) "The Music Box" (Liadoff).
 (b) "Fontaine Lumineuse" (Bortkiewicz).
 9.58 p.m.—Ruby Leslie, soprano:
 (a) "The Amorous Goldfish" (Harry Greenbank).
 (b) "Sing, Sing, Blackbird" (Montague Phillips).
 10.4 p.m.—Rene Rich, violinist:
 (a) "A Country Dance" (Beethoven-Seis).
 (b) "Clog Dance."
 10.10 p.m.—The Ambassadors' Dance Orchestra, conducted by Manuel Hyman.
 10.22 p.m.—Peggy Shaw:
 Popular songs at the piano.
 10.30 p.m.—Late weather forecast.
 The Ambassadors' Dance Orchestra.
 10.40 p.m.—Peggy Shaw:
 Songs at the piano.
 10.47 p.m.—The Ambassadors' Dance Orchestra.
 10.57 p.m.—To-morrow's programme and late news.
 11 p.m.—"Big Ben."
 The Ambassadors' Dance Orchestra.
 11.30 p.m.—National Anthem.
 Close down.
 Accompanist, Ewart Chapple.

2BL, SERVICE.

TUESDAY, 23rd OCTOBER, 1928.

MORNING SESSION.

- 8 a.m.—G.P.O. clock and chimes.
 Metropolitan weather report.
 8.1 a.m.—State weather report.
 8.2 a.m.—Musical programme from the Studio.
 8.15 a.m.—G.P.O. clock and chimes.
 News service from the "Daily Telegraph Pictorial."
 8.25 a.m.—Musical programme from the Studio.
 8.30 a.m.—G.P.O. clock and chimes.
 Musical programme from the Studio.
 8.35 a.m.—Information. Mails shipping arrivals departures and sailings.
 8.38 a.m.—News from the "Daily Telegraph Pictorial."
 8.45 a.m.—G.P.O. clock and chimes.
 Musical programme from the Studio.
 9 a.m.—G.P.O. clock and chimes.
 Musical programme from the Studio.
 9.30 a.m.—A reading.
 9.40 a.m.—Musical programme from the Studio.
 10 a.m.—G.P.O. clock and chimes.
 Close down.

MIDDAY SESSION.

- 11 a.m.—G.P.O. clock and chimes.
 Talk on Kindergartens by Miss Chase secretary Kindergarten Union of N.S.W.
 11.30 a.m.—Women's session.
 Talk by Dr. Sanderson Morgan on "Mothercraft."
 12 noon.—G.P.O. clock and chimes.
 Special ocean forecast and weather report.
 12.3 p.m.—Musical programme from the Studio.
 12.30 p.m.—Shipping and mails.
 12.35 p.m.—Market reports.
 12.48 p.m.—"Sun" midday news service.
 1 p.m.—Musical programme from the Studio.
 1.30 p.m.—Talk to children and special entertainment for children in hospital.
 2 p.m.—G.P.O. clock and chimes.
 Note.—Results from Gosford Races will be broadcast by courtesy of the "Sun" Newspapers.

AFTERNOON SESSION.

- During the afternoon, scores from the match Australia verses The Rest at Melbourne will be given.
 Race results from Gosford Races will be broadcast as received by courtesy of the "Sun" newspapers.
 3.45 p.m.—G.P.O. Clock and chimes.
 Musical programme from the studio.
 4 p.m.—From the Lyric Wintergarden theatre: The Lyric Wintergarden Orchestra under the direction of Mr. Horace Watts.
 4.15 p.m.—Miss Dorrie Davenport, mezzo soprano:
 "Mignon" (D'Hardelot).
 4.18 p.m.—"Sun" News service.
 4.25 p.m.—The Lyric Winter Garden Theatre Orchestra.
 4.40 p.m.—Miss Edna Fenner, elocutionist:
 "Mrs. Brown at the Play" (Sketchley).
 4.47 p.m.—Musical programme from the studio.
 5 p.m.—"Sun" news service.
 5.10 p.m.—Miss Essie Neal, violinist:
 "Paradise" (Kreisler).
 5.14 p.m.—Miss Ruby Dent, songs at the piano.
 5.21 p.m.—Miss Edna Fenner:
 "Ze Aftairnoon Tea" (Simmis).
 5.28 p.m.—Miss Essie Neal:
 "Waters of Minnetonka" (Lieurance).
 5.31 p.m.—Miss Dorrie Davenport:
 "Ma Curly-headed Babby" (Clutsam).
 5.34 p.m.—Features of evening's programme.
 5.35 p.m.—Miss Ruby Dent.
 5.42 p.m.—Producers Distributing Society's Poultry Report.
 5.43 p.m.—Racing resume.

EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and chimes.
 Children's Music and entertainment.
 6 p.m.—Children's Letters and stories.
 6.30 p.m.—"Sun" news and late sporting.
 6.40 p.m.—2BL Dinner Quartette:
 (a) "Sunshine" (Berlin).
 (b) "The Kingdom of Flowers" (Ringleben).
 (c) "Chanson-Indoue" (Rimsky-Korsakov).
 (d) "Merrie England" (German).
 (e) "Love Everlasting" (Friml).
 (f) "In the garden of my heart" (Ball).
 7.10 p.m.—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.
 Grain and Fodder report ("Sun").
 Dairy Produce report ("Sun").
 7.25 p.m.—Advertising Talks and Studio items.
 7.57 p.m.—Programme and other announcements.

EVENING SESSION.

- 8.0 p.m.—G.P.O. Clock and Chimes.
 2BL Topical Chorus.
 8.3 p.m.—Mr. Norman Janson (Baritone).
 8.10 p.m.—Professor Athos Georgio Martelli (Cellist):
 "Sonata 3a" (Boeccherini).
 8.17 p.m.—Talk on Cricket by Mr. Hyam Marks.
 8.32 p.m.—Mr. Charles Lawrence (Entertainer at the Piano).
 8.42 p.m.—Miss Camille Alder (Soprano).
 8.49 p.m.—Professor Athos Georgio Martelli:
 "Le Desir" (Schubert).
 8.56 p.m.—Details of Radio Eisteddfod.
 8.59 p.m.—Weather Report and Forecast by courtesy of Government Meteorologist.
 9.0 p.m.—G.P.O. Clock and Chimes.
 Miss Linda Hartge (Contralto):
 (a) "So We'll Go No More a-roaming" (White).
 (b) "As in Old Gardens" (Risher).
 9.7 p.m.—The New South Wales Broadcasting Company's Orchestra. Conducted by Mr. Willie Redstone.
 9.22 p.m.—Mr. Norman Janson.
 9.29 p.m.—The New South Wales Broadcasting Company's Orchestra.
 9.44 p.m.—Mr. Charles Lawrence.
 9.54 p.m.—Miss Camille Alder.
 10.1 p.m.—The New South Wales Broadcasting Company's Orchestra.
 10.20 p.m.—Miss Linda Hartge:
 (a) "Meadowsweet" (Brahe).
 (b) "The Way Home" (Liddle).
 10.27 p.m.—Resume of Following Day's Programme.
 10.50 p.m.—National Anthem.

2GB, SYDNEY.

TUESDAY, 23rd OCTOBER, 1928.

Special Concert by the Straube Piano Company.

3LO, MELBOURNE.

TUESDAY, 23rd OCTOBER, 1928.

EARLY MORNING SESSION.

- 7.15 a.m.—Morning Melodies.
 7.20 a.m.—Morning exercises to music.
 7.30 a.m.—Stock reports. Market reports.
 General news. Shipping. Sporting information. Express train information.
 8 a.m.—Melbourne Observatory Time Signal.
 8.1 a.m.—Morning melodies.
 8.15 a.m.—Close down.

MORNING SESSION.

- Announcer C. J. O'CONNOR.
 11 a.m.—3LO'S CULINARY COUNSELS, or How to Create Creatur Comforts with a Minimum of Cash.

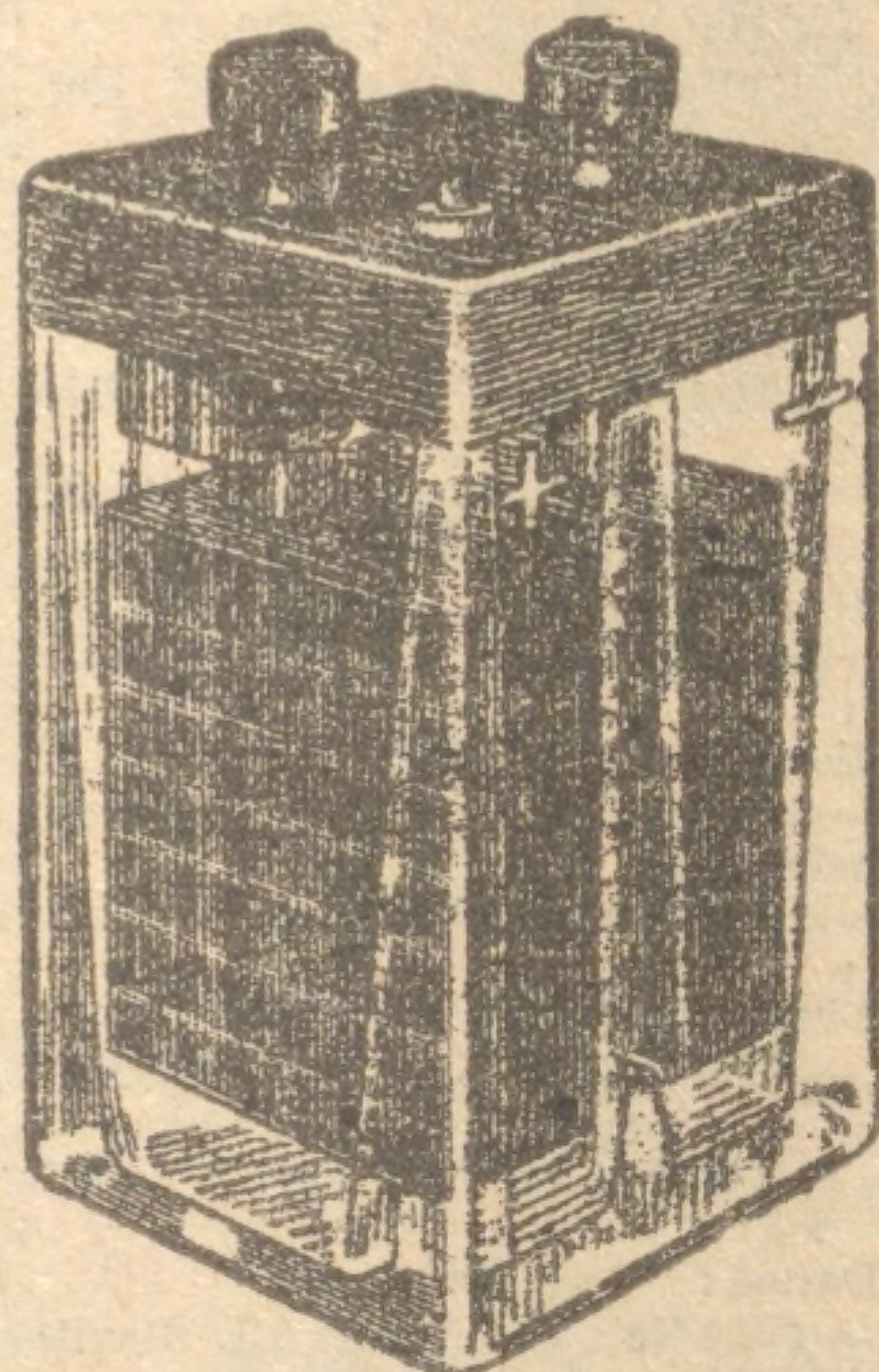
RECIPE.**CONSOMME PRINCESS.**

- Two quarts clear stock, 2-oz. pearl barley, 1 cup asparagus points. Salt and pepper to taste. Wash barley and cook it in a little stock till tender. Cook asparagus points till tender. Put barley and asparagus points into soup tureen. Pour boiling stock over.
 11.5 a.m.—Miss E. NOBLE:
 "Gas Cookery."
 11.20 a.m.—Musical interlude.
 11.25 a.m.—Mrs. DOROTHY SILK will speak on "Homecrafts."
 11.40 a.m.—Musical interlude.
 11.45 a.m.—Under the auspices of the New Settlers' League, RICHARD LINTON, M.L.A., will speak on
 "The Big Brother Movement."

MIDDAY SESSION.

- Announcer C. J. O'CONNOR.
 Accompanist AGNES FORTUNE.
 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.
 12.15 p.m.—Newmarket stock sales. Special report by John McNamara and Co.
 12.20 p.m.—THE STATION ORCHESTRA:
 Suite, "St. Agnes' Eve" (Coleridge-Taylor).
 12.30 p.m.—MILLIE McCORMICK, mezzo-soprano:
 "I Wonder if Life is a Dream" (Forster).
 "Happy Song" (Del Riego).
 12.37 p.m.—Stock Exchange information.
 12.40 p.m.—THE STATION ORCHESTRA:
 "Invitation to the Waltz" (Weber).
 12.48 p.m.—THE ESTELLE MARK TRIO:
 Estelle Mark, soprano:
 "Pearls" (Herbert Olive).
 Cecilia Kilduff, violin:
 "Allegretto" (Boccherini).
 Margot Sheridan, piano:
 "Forest Lullaby" (Quilter).
 "Pipe and Tabor" (Quilter).
 1.5 p.m.—Meteorological information.
 Weather forecast for Victoria, Tasmania, South Australia, and New South Wales.
 Ocean forecasts. River reports.
 1.12 p.m.—THE STATION ORCHESTRA:
 "In a Persian Garden" (Lehmann).
 1.20 p.m.—MILLIE McCORMICK, mezzo-soprano:
 "The Four Leaf Clover" (White).
 "The Robin's Song" (Brownell).
 1.27 p.m.—WALTER SMITH, cornet:
 "Confidence and Contemplation" (Mendelssohn).
 1.34 p.m.—THE STATION ORCHESTRA:
 "In a Persian Garden" (Part II.).
 1.45 p.m.—Close down.

Exide



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"B" Current

Type WH, 24 Volts.
5,000 milliamp. hours.
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Type WJ, 20 Volts.
2,500 milliamp. hours.
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For superfine quality reception with modern high power valves demanding a heavy anode current they are essential. Neither dry batteries nor battery eliminators can satisfactorily pass the heavy anode currents required.

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The WH will give rather more than twice the working hours per charge of the WJ and is suitable for the most powerful sets. Whenever the discharge current exceeds 10 milli-amperes the WH is recommended, to reduce the frequency at which recharging would become necessary.

SERVICE STATION

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AFTERNOON SESSION.

- Announcer C. J. O'CONNOR.
Accompanist AGNES FORTUNE.
- 2.15 p.m.—THE RADI-O-ACES:
"Dance of the Dolls."
"Last ight I Dream't You Kissed Me" (Kahn).
"That's My Mammy" (Donaldson).
- 2.25 p.m.—THOMAS BRODERICK, Tenor (of the Gilbert and Sullivan Opera Co.):
Selected.
- 2.32 p.m.—THE RADI-O-ACES:
"Honeymoon Cottage" (Lumsdaine).
"I'm Wingin' Home" (Russell).
"Evening Star" (Turk).
- 2.41 p.m.—STEWART and LORRAINE:
"Humorous Instrumentalists."
- 2.48 p.m.—THE RADI-O-ACES:
"Russian Rag" (Stilzel).
"Lolita" (Stoneham).
"Henry's Made a Lady Out of Lizzie" (O'Keefe).
- 2.57 p.m.—VALDA ST. NICOLAY, Contralto:
"Hindoo Song" (Bemberg).
"Sognai" (Schira).
- 3.4 p.m.—THE RADI-O-ACES:
"We'll Have a New Home in the Morning" (Buet).
"Oriental Moonlight" (Seamon).
"Bid All Your Troubles Good-bye" (Leslie).
- 3.13 p.m.—JULIA RUSSELL, Soprano:
"Depuis le Jour" (Charpentier).
"Bercuse" (Gretchaninov).
- 3.20 p.m.—THE RADI-O-ACES:
"What Will You Do" (Muller).
"My Melancholy Baby" (Noston).
"Ice Cream" (Jones).
- 3.29 p.m.—THOMAS BRODERICK, Tenor:
"Pale Moon" (Logan).
"On the Road to Mandalay" (Speaks).
- 3.36 p.m.—THE RADI-O-ACES:
"I Know that You Know" (Youmans).
"Love Affairs" (Robinson).
"Sunshine" (Berlin).
- 3.45 p.m.—THE ESTELLE MARK TRIO:
Margot Sheridan, Piano:
"Humoresque" (Percy Pitt).
Estelle Mark, Soprano:
"As I Went a-Roaming" (Brahe).
Cecilia Kilduff, Violin:
"Traumerei" (Schumann).
"Abendlied" (Schumann).
- 4 p.m.—STEWART and LORRAINE:
Humorous Instrumentalists.
- 4.7 p.m.—RADI-O-ACES:
"Rag Doll" Piano Solo (Brown).
"Sweet Ella May" (Robinson).
"Cry Baby" (Smith).
- 4.16 p.m.—VALDA ST. NICOLAY, Contralto:
"Fat L'll Fellow Wid His Mammy's Eyes" (Gordon).
"Mah Lindy Lou" (Strickland).
- 4.23 p.m.—RADI-O-ACES:
"Rose of Monterey" (Guy).
"Red Head" (Embury).
"The Man I Love" (Gershwin).
- 4.32 p.m.—JULIA RUSSELL, Soprano:
Selected.
"A Birthday" (Gowen).
- 4.40 p.m.—RADI-O-ACES:
"Was it a Dream" (Britt).
"Together" (Brown).
"Mary Ann" (Davis).
- 4.49 p.m.—HENRY WALTERS, Steel Guitar:
Selected.
- 4.54 p.m.—THE RADI-O-ACES:
"Tell Me To-night" (Little).
"Oh, Doris, Where Do You Live" (Kahn).
"There's One Little Girl Who Loves Me" (Kahn).
- 5 p.m.—"Herald" news service.
Stock Exchange information.
- 5.10 p.m.—Close down.

EVENING SESSION.

- Announcer MAURICE DUDLEY
- 6 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
- 6.25 p.m.—Musical Interlude.
- 6.30 p.m.—"LITTLE MISS KOOKABURRA'S" story for the Wee Ones is "The Silent Parrot," and for the Bigger Ones, third instalment of "Marooned on Island of Ealann-a-gha."
- 6.50 p.m.—"BILLY UNNY" has also a story to tell.

NIGHT SESSION.

- 7.5 p.m.—Stock Exchange information.
- 7.15 p.m.—Results of Cricket Match—Australia v. The Rest played at M.C.G.
- 7.17 p.m.—Special Report by John McNamara and Co. Official Report of the Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke-street, Melbourne.
- Fish Market Reports by J. R. Borrett, Ltd.
- Market Reports by the Victorian Producers' Co-operative Co., Ltd. Poultry, grain, hay, straw, jute, dairy produce, and onions.
- Market Reports of Fruit by the Victorian Fruitgrowers' Association. Retail prices.
- Wholesale prices of Fruits by the Wholesale Fruit Merchants' Association. Citrus fruits.
- 7.30 p.m.—News Session.
- 7.43 p.m.—Birthday Greetings.
- 7.45 p.m.—OUT OF THE PAST.
- 7.46 p.m.—Under the Auspices of the UNIVERSITY EXTENSION BOARD, C. R. LONG, M.A., Lecturer in Australian Literature, will speak on:
"Australia's First Great Poem."
- 8 p.m.—A MAKER OF HISTORY.
- 8.1 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
Waltz, "Tales of Hoffman" (Offenbach).
- 8.7 p.m.—ELSY TREWEEK, Soprano:
"My Mother bids me Bind my Hair."
- 8.10 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
Quadrille: "Miss Gibbs."
- 8.28 p.m.—FRANK THOMAS, Baritone:
"Marcheta."
- 8.31 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
Polka: "Sandpaper."
- 8.37 p.m.—STEWART and LORRAINE:
"Humorous Instrumentalists."
- 8.40 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
Barn Dance: "Day Dreams."
- 8.46 p.m.—FRANK R. THOMAS, Baritone:
"Garden of Happiness" (Wood).
- 8.49 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
Alberts, Selected.
- 9.5 p.m.—OLD TIME CHORUSES, Graham Burgin and the Boys of the Village, introduced by Maurice Dudley—Mrs. Campbell at the Piano:
"When Johnny Comes Marching Home."
"What are the Wild Waves Saying?"
"Tramp, Tramp."
"Dolly Gray."
"My Irish Molly O."
- 9.11 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
Schottische, "Honeybee."
- 9.16 p.m.—ELSY TREWEEK, soprano:
"Annie Laurie" (Old Scotch).
- 9.19 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
Waltz, "Donauwellen."
- 9.27 p.m.—STEWART AND LORRAINE:
"Humorous Instrumentalists."
- 9.30 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
Lancers: "Gypsy Love."
- 9.47 p.m.—ELSY TREWEEK, Soprano:
"The Last Rose of Summer" (Irish).
- 9.50 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
"Polka Mazurka—Sunny."
- 9.56 p.m.—OLD-TIME CHORUSES, sung by the Boys of the Village, and led by Graham Burgin, with Mrs. Campbell at the Piano:
"Ta-Ra-Ra-Boom-De-Ay."
"Mill Wheel."
"Red Wing."
"Maggie, the Cows are in the Clover."
"Teasing."
- 10.2 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
Barn Dance: "Jack in the Box."
- 10.8 p.m.—STEWART AND LORRAINE:
"Humorous Instrumentalists."
- 10.11 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
Valette: "Little Grey Home."
- 10.17 p.m.—FRANK R. THOMAS, Baritone:
Selected.
- 10.20 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
"Highland Scottische."

- 14.25 p.m.—OLD-TIME CHORUSES: We want you all to Join Mrs. Campbell and Mr. Burgin:
"Ring the Bell, Watchman."
"Carry me Back to Old Virginnie."
"Climb, Boys, Climb."
"I'll be Your Sweetheart."
"Say Au Revoir."
- 10.31 p.m.—HOFFMAN'S DANCE ORCHES-TRA:
"The Royal Irish."
- 10.50 p.m.—"Argus" News Service.
Meteorological information.
British Official Wireless news.
Announcements.
Sporting Notes by "Olympus."
Selections by ERIC WELCH for the Werribee Races.
- 11 p.m.—OUR GREAT THOUGHT.
- 11.1 p.m.—THE RADI-O-ACES.
- 11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE.

TUESDAY, 23rd OCTOBER, 1928.

MORNING NEWS SESSION.

- 10 a.m.—G.P.O. Clock says "Ten."
- 10.1 a.m.—"Age" Stock Exchange reports.
London Metal Market.
- 10.10 a.m.—"Age" Market reports—farm and station produce, fruit, fish, vegetables, etc.
- 10.25 a.m.—"Age" Shipping reports.
Ocean forecast.
- 10.30 a.m.—Mail notices.
Express train information.
- 10.35 a.m.—"Age" news service, exclusive to 3AR.
- 10.59 a.m.—Weather forecast.

MORNING MUSICAL SESSION.

- Announcer FRANK HATHERLEY.
Accompanist REG. BROWN.
- 11 a.m.—A Recital of some of the Musical Masters of the World.
- 12 noon.—Marcelle Berardi, soprano:
"Gavotte" from Manon (Massenet).
"Crepuscule" (Massenet).
- 12.7 p.m.—Imperial Russian Trio (Arved Norit, violin; John Berzinsky, 'cello; William Ibster, piano).
Violin: "Hymne au Soleil" (Rimsky-Korsakov).
Piano: "Fairytale" (Medtner).
Trio: "Trio A Minor—Variacious finale e coda" (Tchaikowsky).
- 12.22 p.m.—Marcelle Berardi, soprano:
"Cascum lo dice" from "The Daughter of the Regiment" (Donizetti).
Serenata" (Tosti).
- 12.30 p.m.—British Official Wireless.
- 12.35 p.m.—An hour with some of the World's most wonderful recordings.
- 1.30 p.m.—Close down.

EVENING SESSION.

- Announcer FRANK HATHERLEY.
- 5 p.m.—A Recital by Absent Artists.
- NIGHT SESSION.
- Announcer J. STUART.
Accompanist REG. BROWN.
- 8 p.m.—Under the auspices of the Numismatic Society of Victoria. A. S. Kenyon:
The Token Issues—(1) "Great Britain and Ireland."
- 8.15 p.m.—H. Webb, Tasmanian Government Tourist Bureau:
"Derwent Valley, Bruny Island, and the East Coast."
- 8.30 p.m.—Station Orchestra:
"Pagliacci" (Puccini).
"Serenade Norwegienne" (Sandre).
- 8.45 p.m.—The De Riske Four:
"Holy Night" (Beethoven).
"Close Harmony."
- Scots Church Choir—
- 8.52 p.m.—Transmission from Scots Church, Collins Street, Melbourne. Organist and Director: Mansley Greer. Choir Principals, Annie Caddell, soprano; Madame Gregor

Wood, contralto; Colin Thomson, tenor; Leslie Paull bass.
 "The Song of Miriam" (Schubert).
 (for Soprano Solo and Chorus.)
 Allegro giusto: "Strike Your Timbrels, Hebrew Maidens."
 Allegretto: "Out of Egypt, as a Shepherd."
 Allegra agitato: "As We Pass the Sky Grows Darker."
 Allegro moderato: "It is the Lord in all His Fury."
 Andantino: "Egypt's King! As Lead Sinks He Down."
 Tempo primo: "Strike Your Timbrels, Hebrew Maidens."
 From the Studio—
 Motet: "The Lord is My Shepherd" (Schubert).
 9.22 p.m.—The Imperial Russian Trio (Arved Norit, violin; John Berzinsky, 'cello; William Ibster, piano):
 'Cello, "Minuetto" (Becker).
 Trio, "Berceuse" (Jarnefeldt).
 Violin, "Mazourka" (Chopin).
 Trio, "Scherzo" (Goens).
 9.37 p.m.—Marcelle Berardi, soprano:
 "Mimi's Song" from "La Boheme" (Puccini).
 "When Chloris Sleeps" (Homer).
 9.44 p.m.—Station Orchestra:
 "Manon Lescaut" (Puccini).
 "Three Famous Pictures" (Haydn Wood).
 10 p.m.—The De Reske Four:
 "Neckens Polska."
 "Mosquitoes" (Bliss).
 10.7 p.m.—C. Wheatland, trombone:
 "Drake Goes West" (Sanderson).
 10.14 p.m.—Marcelle Berardi, soprano:
 "Pretty Mocking Bird" (Bishop).
 "Chanson de Solveig" (Grieg).
 10.21 p.m.—Station Orchestra:
 "Sylvan Scenes" (Fletcher).
 10.31 p.m.—The De Reske Four:
 "Good-night, Beloved" (Shattock).
 "Southern Memories" (MacArthur).
 10.38 p.m.—Station Orchestra:
 "Dem Andenken" (Beethoven).
 10.53 p.m.—"Age" news service, exclusive to 3AR.
 10.58 p.m.—Wather forecast.
 10.59 p.m.—Our Australian Good-night quote.
 11 p.m.—God Save the King.

4QG, BRISBANE.

TUESDAY, 23rd OCTOBER, 1928.

EARLY MORNING SESSION.

8 a.m.—This morning's news, supplied by courtesy of the Brisbane Metropolitan Daily Newspapers.
 8.30 a.m.—Close down.

MORNING SESSION.

11 a.m. to 12 noon.

MIDDAY SESSION.

1 p.m.—Market reports and weather information.
 1.15 p.m.—Lunch-hour music.
 1.53 p.m.—Time signals.
 2 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—A programme of electrically reproduced records.
 3.30 p.m.—Mail train running times.
 4.15 p.m.—This afternoon's news.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—Mail train running times; mail information; shipping news.
 6.5 p.m.—Dinner music.
 6.25 p.m.—Commercial announcements.
 The Children's Hour.
 6.30 p.m.—Bedtime stories conducted by "Uncles" Ben and Pete.
 7 p.m.—News in brief.
 7.5 p.m.—Stock Exchange news.
 7.6 p.m.—Metal quotations.
 7.7 p.m.—Market reports.
 7.25 p.m.—Fenwick's stock report.
 7.30 p.m.—Weather information.

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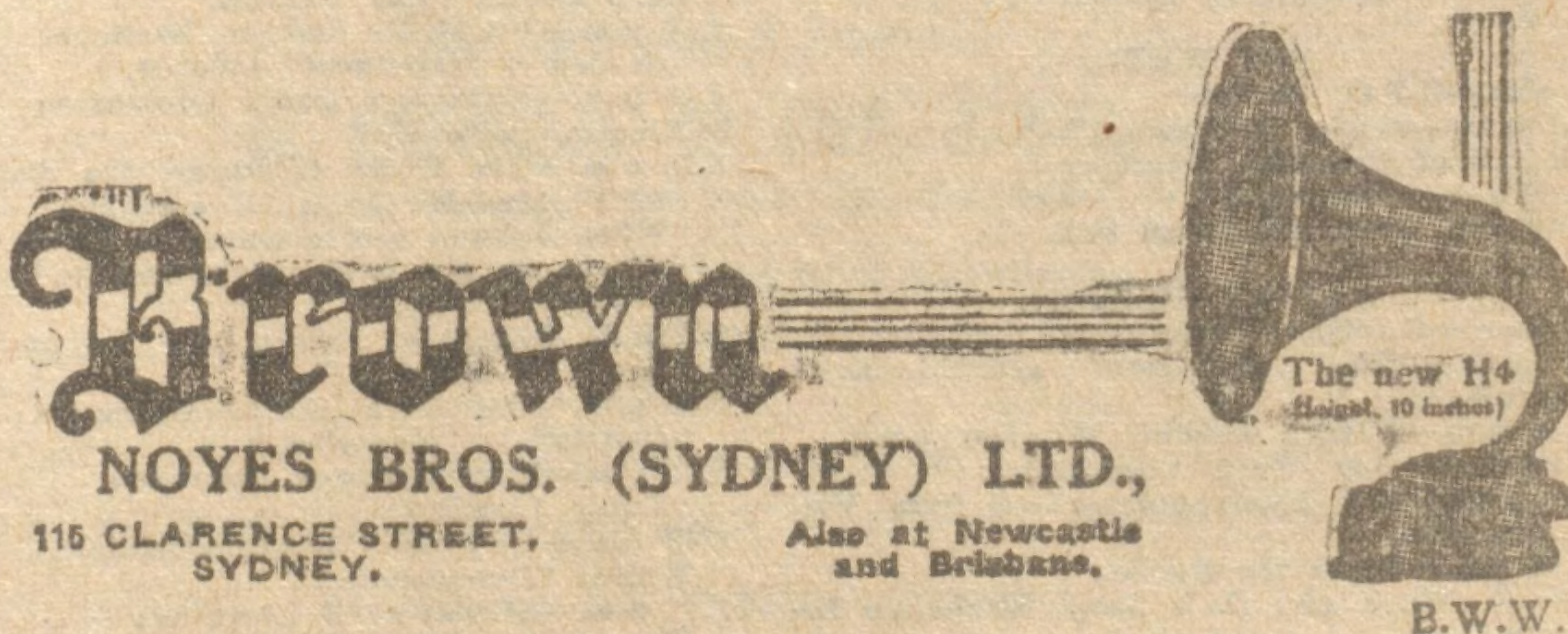
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B.W.W.

7.40 p.m.—Announcements.
 7.43 p.m.—Standard time signals.
 7.45 p.m.—Lecture: "Marketing of Dairy Produce"—by Mr. M. L. Cameron (Department of Agriculture and Stock).

NIGHT SESSION.

8 p.m.—Studio Instrumental Quartette, conductor, Fred C. Smith.
 Fantasia, "A Life on the Ocean" (Binding).
 Ernest Barry, elocutionist:
 "Christmas at Sea" (Robt. Louis Stevenson).
 A Foc'sle Song:
 J. Tyson (accordeon) supported by "The Orpheans."
 Radio Interlude:
 The Divine Spark—Episode No. 4: "The Story of 'The Eastern Moon.'"
 The Studio Orpheans (conductor, Tom Muller):
 Hymns: "Fierce Raged the Tempest."
 "Eternal Father."
 The Studio Instrumental Quartette:
 Overture, "Plymouth Hoe" (Ansell).
 J. P. Cornwell, bass:
 "Hats Off to the Stoker."
 "They All Love Jack" (Stephen Adams).
 Ernest Barry, elocutionist:
 "The Coastwise Lights" (Kipling).
 Jean MacDougall, soprano:
 "The Glory of the Sea" (Sanderson).
 "Where the Great Ships Ride" (Sanderson).
 9 p.m.—Result of the letter competition. A reading of the winning and other efforts.
 Another Foc'sle Sing-Song:
 J. Tyson, assisted by "The Orpheans."
 George Williamson, tenor:
 "Pals."
 "When My Ships Come Sailing Home" (Dorel).
 The Studio Instrumental Quartette:
 Ballad, "Bells of the Sea" (Zamecnik).
 March, "The Old Salt" (Hildreth).
 Tom Muller, elocutionist:
 "R.N." (by request).
 "Coasters" (O. Farrel).
 Mrs. Robt. Bell, soprano:
 "Jack's the Boy" (from "The Geisha—Monckton").
 Selected.
 Ernest Harper, baritone:
 "Asleep in the Deep" (assisted by "The Orpheans").
 George Williamson (tenor) and J. P. Cornwell (bass):
 Vocal duet, "Larboard Watch."
 Studio Orpheans:
 Choruses, "A Life on the Ocean Wave."
 "Star of Peace."
 H. Jackson, cornetist:
 "Down to the Sea in Ships" (accompanied by The Studio Orchestra).
 10 pm.—"Queenslander" bi-weekly news service; late news, weather news.
 Close down.

5CL, ADELAIDE.

TUESDAY, 23rd OCTOBER, 1928.

MORNING SESSION.

BOY WEEK.

11 a.m.—G.P.O. Chimes.
 11.1 a.m.—Studio "Recreator":
 Recital of Columbia recordings.
 11.40 a.m.—"Economist":
 Kitchen Craft and Menu talk.

MIDDAY SESSION.

12 noon.—G.P.O. Chimes.
 12.1 p.m.—"The Advertiser" general news service.
 12.15 p.m.—British Official Wireless news.
 12.20 p.m.—Boy Week Celebrations:
 Speeches and Music transmitted from Victoria Hall.
 12.50 p.m.—From the Studio:
 S. C. Ward and Co.'s Stock Exchange Information.
 12.57 p.m.—Meteorological information.
 1 p.m.—G.P.O. Chimes.

1.1 p.m.—Winifred Lavis:
 Songs at the piano.
 1.8 p.m.—The Radio Trumps:
 In songs and stories.
 1.15 p.m.—Boy Week Celebrations:
 Music and Speeches transmitted from Victoria Hall.
 1.50 p.m.—From the studio:
 Winifred Lavis:
 Songs at the piano.
 1.55 p.m.—The Radio Trumps:
 In songs and stories.
 1.59 p.m.—Meteorological information.
 2 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
 3.1 p.m.—Studio "Recreator":
 Recital of Columbia Recordings.
 3.20 p.m.—Len Maurice, Whispering baritone:
 "That's my mammy" (Baer).
 "Adoree" (West).
 3.27 p.m.—William Davies, xylophonist:
 Popular song hits.
 3.34 p.m.—Joe Brennan and Ida Newton:
 Ten minutes fun and harmony.
 3.44 p.m.—Studio "Recreator":
 Recital of Columbia recordings.
 3.53 p.m.—Molly Mackay, soprano:
 Selections from her repertoire.
 4 p.m.—G.P.O. Chimes.
 4.1 p.m.—William Davies, xylophonist:
 Popular song hits.
 4.8 p.m.—Len Maurice, Whispering baritone:
 "You're a real sweetheart" (Friend).
 "Last night I dreamed" (Lombardo).
 4.15 p.m.—Studio "Recreator":
 Recital of Columbia recordings.
 4.25 p.m.—Molly Mackay, soprano:
 Selection from her repertoire.
 4.32 p.m.—Studio "Recreator":
 Recital of Parlophone recordings.
 4.57 p.m.—S. C. Ward and Co.'s Stock Exchange Information.
 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 Happy moments:
 Birthday Greetings, Correspondence, Songs and stories by "The Wattle Lady."
 6.30 p.m.—Dinner Music:
 Recital of Columbia Recordings on the studio "Recreator."
 7 p.m.—G.P.O. Chimes.
 7.1 p.m.—S. C. Ward and Co.'s Stock Exchange Information.
 7.5 p.m.—General Market Reports.
 7.8 p.m.—Sporting Service by "Silvius."
 7.20 p.m.—Miss Laurie McLeod:
 Talk on, "The art of dancing" specially for boys.
 7.30 p.m.—Gardening Talk:
 Supplied by Lasscock's Nurseries, Henley Beach Road, Lockleys.
 7.40 p.m.—Dr. Herbert Basedow, M.P.:
 Will give a talk on: "Our Great Continent."

NIGHT SESSION.

8 p.m.—G.P.O. Chimes.
 8.1 p.m.—Hoffman's Dance Orchestra:
 Polka, "Sandpaper."
 8.7 p.m.—Stewart and Lorraine:
 "Humorous Instrumentalists."
 8.10 p.m.—Hoffman's Dance Orchestra:
 Barn Dance, "Day Dreams."
 8.16 p.m.—Frank R. Thomas, baritone:
 "Garden of Happiness" (Wood).
 8.19 p.m.—Hoffman's Dance Orchestra:
 Alberts. Selected.
 8.35 p.m.—Old Time Choruses—the Boys of the Village—led by G. J. Mackay:
 "When Johnny comes marching Home."
 "What are the wild waves saying."
 "Tramp. Tramp."
 "Dolly Gray."
 "My Irish Molly O."
 8.41 p.m.—Hoffman's Dance Orchestra:
 Schottische, "Honeybee."
 8.46 p.m.—Elsy Treweek, soprano:
 "Annie Laurie."
 8.49 p.m.—Hoffman's Dance Orchestra:
 Waltz, "Donauwellen."
 8.57 p.m.—Stewart and Lorraine:
 Humorous instrumentalists.
 9 p.m.—Hoffman's Dance Orchestra:
 Lancers, "Gypsy Love."

9.17 p.m.—Elsy Treweek, soprano:
 "The Last rose of summer."
 9.20 p.m.—Hoffman's Dance Orchestra:
 Polka Mazurka, "Sunny."
 9.26 p.m.—Old Time Choruses—led by G. J. Mackay, and sung by the Boys of the Village.
 "Ta-Ra-Ra-Boom-De-Ay."
 "Mill Wheel."
 "Red Wing."
 "Maggie the cows are in the Clover."
 "Teasing."
 9.32 p.m.—Hoffman's Dance Orchestra:
 Barn Dance, "Jack in the box."
 9.38 p.m.—Stewart and Lorraine:
 Humorous instrumentalists.
 9.41 p.m.—Hoffman's Dance Orchestra:
 Valletta, "Little Grey Home."
 9.47 p.m.—Frank R. Thomas, baritone:
 Selected.
 9.50 p.m.—Hoffman's Dance Orchestra:
 "Highland Schottische."
 9.55 p.m.—Old Time Choruses—The Boys of the village led by G. J. Mackay:
 "Ring the bell, Watchman."
 "Carry me back to Old Virginnie."
 "Climb Boys, Climb."
 "I'll be your sweetheart."
 "Say Au Revoir."
 10.1 p.m.—Hoffman's Dance Orchestra:
 "The Royal Irish."
 News Session from 5CL Studio.
 10.20 p.m.—"The Advertiser" general news service.
 Meteorological information.
 British Official Wireless news.
 10.30 p.m.—From 3LO Melbourne:
 The Radi-o-aces.
 11.10 p.m.—God Save The King.

6WF, PERTH

TUESDAY, 23rd OCTOBER, 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, conducted by Mr. Val Smith.
 1.30 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
 3.35 p.m.—Pianoforte selections by Miss Audrey Dean.
 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.
 6.48 p.m.—Stories for the Kiddies and Birthday greetings by Uncle Percy.
 7.5 p.m.—Items by the Studio Trio.
 7.30 p.m.—Stocks, Markets, News.
 7.45 p.m.—Talk by Dr. J. S. Battye, B.A., LL.B.
 8 p.m.—Time signal.
 8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
 Station announcements such as alterations to programmes, etc.
 8.5 p.m.—Orchestral Night:
 Concert by 6WF's Station Orchestra, conducted by Mr. Ronald E. Moyle, A.T.C.L.
 Vocal assisting artist.
 9 p.m.—Late News items by courtesy of "The Daily News" Newspaper Co.
 Ships within range announcement.
 Weather report and forecast.
 Station announcements.
 10.30 p.m.—Close down.
 104.5 METRE TRANSMISSION.
 Simultaneous broadcast on 104.5 metres of programme given on 1250 metres, commencing at 6.45 p.m.

7ZL, HOBART

TUESDAY, 23rd OCTOBER, 1928.

MIDDAY SESSION.

- 11.30 a.m.—His Masters Voice in moments, merry and musical.
 11.34 p.m.—Special Midlands Weather forecast.
 11.35 a.m.—His Masters Voice in moments, merry, and musical.
 11.55 a.m.—Tasmanian Stations 9 a.m. weather report.
 12 noon.—G.P.O. Clock chimes the hour.
 12.1 p.m.—Shipping information.
 Ships within wireless range.
 Mail notices.
 Housewives Guide.
 12.3 p.m.—His Masters Voice in moments, merry, and musical.
 12.11 p.m.—British Official wireless news.
 12.20 p.m.—His Masters Voice in moments, merry, and musical.
 12.29 p.m.—Announcements.
 12.33 p.m.—His Masters Voice in moments, merry, and musical.
 12.55 p.m.—"Mercury" news service.
 Produce sales held at Railway.
 1.10 p.m.—His Masters Voice in moments, merry, and musical.
 1.30 p.m.—Close down.

AFTERNOON SESSION.

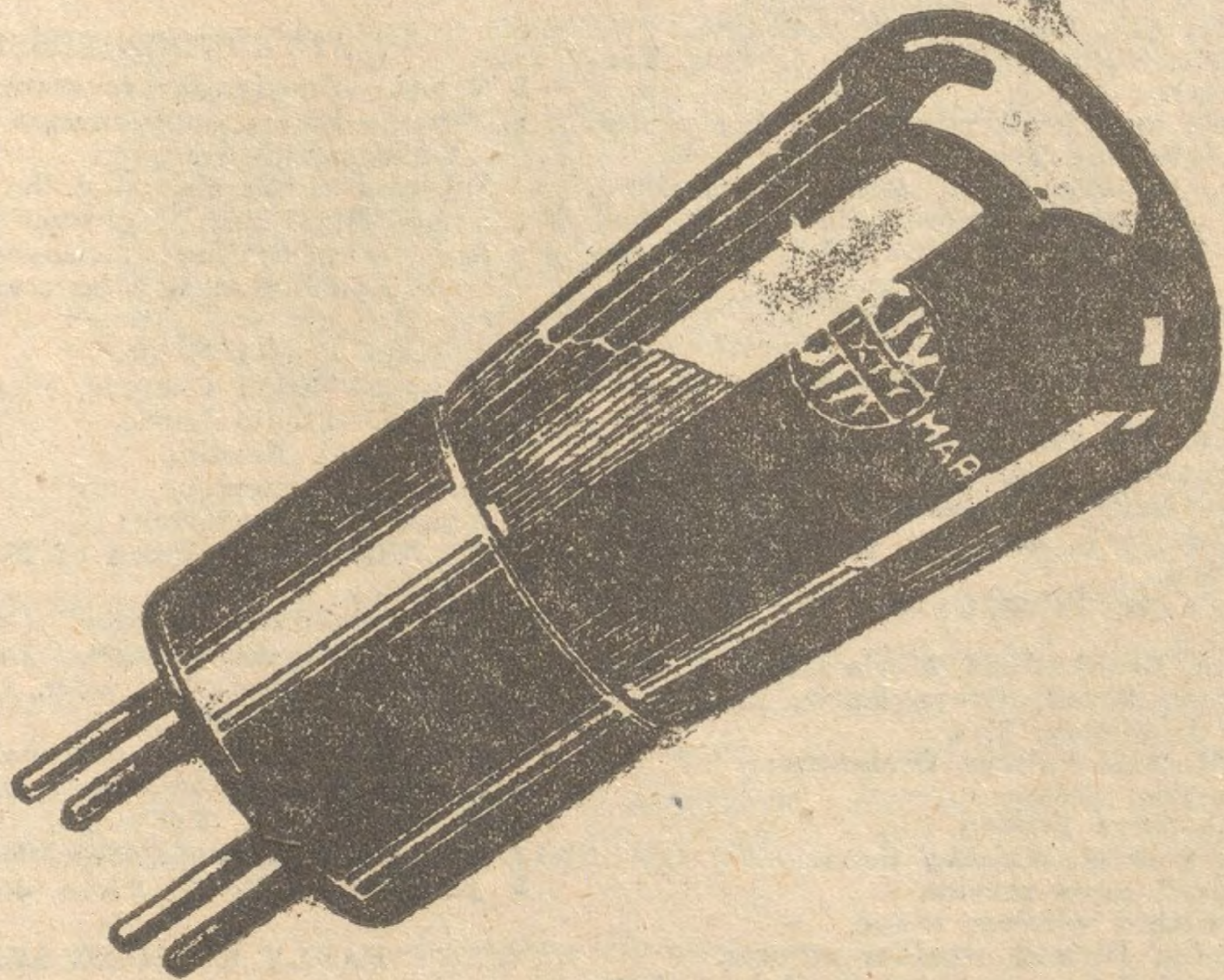
- 3 p.m.—G.P.O. Clock chimes the hour.
 3.1 p.m.—Weather information.
 H.M. Voice in moments, merry, and musical.
 3.5 p.m.—An All Star Vocal and Instrumental Concert.
 Jean Lenson and his Orchestra:
 "Chanson Hindou" Song of India (Rimsky-Korsakov).
 "Second Serenade" (Toselli).
 Clara Butt and Kennerley Rumford:
 Duet, "The Keys of Heaven" (Traditional).
 Duet, "Friendship" (Philip Sydney).
 Edward Isaac, piano solo:
 "Moment Musical, F. Minor" (Schubert).
 "Humoreske" (Tschaiakowsky).
 "Waltz in D. Flat" (Chopin).
 Charles Hackett, tenor:
 "In a Persian Garden—Ah Moon of my delight" (Lehmann).
 "Beloved it is morn" (Lehmann).
 Classic Symphony Orchestra:
 "Stradella Overture" (Flotow).
 Parts 1 and 2.
 Muriel Brunskill, contralto:
 "Kathleen Mavourneen" (Crawford).
 "O Lovely Night" (Teschemacher).
 Leo Cherniavsky, violin solo:
 "Caprice Viennois" (Kreisler).
 "La Borrachita"—American Song.
 Alfred O'Shea, tenor:
 "An Evening Song" (Butler).
 "Where'er you walk" (Pope).
 Leo Cherniavsky, violin solo:
 "From the Canebrake" (Gardner).
 "Waltz in A. Major" (Hochstein).
 Classic Symphony Orchestra:
 "Rachmaninoff Prelude" (Rachmaninoff).
 "Barcorolle—from The Tales of Hoffman" (Offenback).
 4.15 p.m.—Educational Talk:
 "Education is a possession which cannot be taken away from men." (Epictetus).
 4.30 p.m.—During the afternoon Transmission from Royal Agricultural Show Grounds, Hobart. Results of Sheep and Dairy Cattle awards—Description of Ring Events.
 Close down.

EARLY EVENING SESSION.

CHILDREN'S HOUR.

- 6.15 p.m.—His Masters Voice in moments, merry, and musical.
 6.45 p.m.—The Storey Lady—A Story for the Children.
 "Atalanta's Race."
 7 p.m.—Answers to Letters and Birthday Greetings by "Uncle David."
 7.5 p.m.—His Masters Voice in moments, merry, and musical.
 7.15 p.m.—"Mercury" special Tasmanian news service.
 Railway auction produce sales.
 Weather information.
 Hobart Stock Exchange Quotations.

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EVENING SESSION.

- 7.30 p.m.—Under the Auspices of the Agricultural and Stock Department of Tasmania Br. Bevin will speak on: "Crop Rotation and Soil Fertility."
- 7.45 p.m.—E. H. Reid will speak under the auspices of the 7ZL and Mercury Hospital Wireless Equipment appeal on: "Pleasure for the Sick."
- 8 p.m.—G.P.O. Clock chimes the hour.
- 8.1 p.m.—Fifty Years ago To-day.
First through telegram to Hobart in 1872.
7ZL OLD TIME DANCE NIGHT.
Transmission from "Continental."
The 7ZL Alla Polacca Orchestra:
Waltz, "Old Sweet Story" (Arthur Clifford).
The 7ZL Alla Polacca Orchestra:
Lancers, "Popularity" (Ganz).
Mrs. Ken Dyer, and Mrs. J. Green, duet: Selected.
The 7ZL Alla Polacca Orchestra:
Two Step, "Denham" (Will Conway).
His Masters Voice in moments, merry, and musical.
The 7ZL Alla Polacca Orchestra:
Valeta, Selected.
Mrs. Ken Dyer, and Mrs. J. Green, duet: Selected.
The 7ZL Alla Polacca Orchestra:
Barn Dance, "Rinking" (Edgar Poole).
Mrs. Ken Dyer, contralto: Selected.
The 7ZL Alla Polacca Orchestra:
Alberts, "Happy Darkies" (Frank Kennedy).
Cheerio's to Friends who are having parties at the following Towns:
Gretna, Battery Point, Ouse, Rosegarland, Houn, Barchurst Street, Hobart Risdon Ferry, Taroon, Middleton, Penguin, Launceston, Northdown, Triabunna.
The 7ZL Alla Polacca Orchestra:
Waltz, "The Merry Widow" (Franz Lehar).
His Masters Voice in moments, merry, and musical.
The 7ZL Alla Polacca Orchestra:
Schottische, "Dance of the Honey Bees" (Benjamin Richmond).
Mrs. Ken Dyer, and Mrs. J. Green, duet: Selected.
Cheerio's to Friends, from the following Towns:
Swansea, Brunl Island, Maria Island, Cygnet, Geeveston, Sorell, Grove Huon, Mr. James Searle, Middleton, Tas.
The 7ZL Alla Polacca Orchestra:
Leap Year Waltz.
8.50 p.m.—News Session.
British Official Wireless news.
"Mercury" news service.
Ships within wireless range.
Tasmanian District weather reports.
Results of Prizes awarded at Hobart Agricultural Show.
10 p.m.—G.P.O. Clock chimes the hour.
10.3 p.m.—God Save The King.
10.4 p.m.—Close down.

Wednesday, October 24

New South Wales Broadcasting Company, Limited.

2FC, SERVICE.

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, river reports.
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" news service.
7.50 a.m.—Studio Music.
8 a.m.—"Big Ben." Close down.

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
10.2 a.m.—Studio Music.
10.10 a.m.—"Sydney Morning Herald" news service.
10.25 a.m.—Studio Music.
10.45 a.m.—A Talk on Home Cooking and Recipes by Miss Ruth Furst.
11 a.m.—"Big Ben."
A.P.A. and Reuter's Cable Services.
11.5 a.m.—Close down.

MIDDAY SESSION.

- 12 noon—"Big Ben" and announcements.
12.1 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Musical items.
12.10 p.m.—Summary of news: "Sydney Morning Herald."
12.15 p.m.—Rugby Wireless News.
12.18 p.m.—A Reading by A. S. Cochrane.
12.30 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.—Popular Studio Music.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION

- 2.30 p.m.—Programme announcements.
2.32 p.m.—Educational Session for the Children:
Subject: "Let's go round the world."
3 p.m.—"Big Ben." Pianoforte selections.
Note.—During the afternoon race results from Kensington will be transmitted as received.
3.10 p.m.—Studio Music.
3.20 p.m.—Ewart Chapple, pianoforte solos.
3.35 p.m.—Studio Music.
3.45 p.m.—A Reading.
4 p.m.—"Big Ben."
Annie Sedger, mezzo:
(a) "Had I the Voice of Morven" (Campbell).
(b) "Columbine's Garden" (Maurice Besley).
4.8 p.m.—The Ambassadors' Dance Orchestra.
Conductor, Manuel Hyman.
4.18 p.m.—W. Batt, tenor.
4.25 p.m.—Ivy Green, soprano.
4.32 p.m.—The Ambassadors' Dance Orchestra.
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—The Ambassadors' Dance Orchestra.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
5.45 p.m.—Children's Session, conducted by the "Hello Man," assisted by Uncle Ted and "Sandy."
Letters and stories.
Music and entertainment.
6.30 p.m.—Dalgety's market reports (wheat, wheat and stock).
6.40 p.m.—Fruit and vegetable markets.
6.43 p.m.—Stock Exchange information.
6.47 p.m.—Weather and shipping news.
6.48 p.m.—Rugby wireless news.
6.50 p.m.—Late sporting information.
7 p.m.—"Big Ben." Late news service.
7.10 p.m.—The 2FC Dinner Quartet, conducted by Horace Keats:
"Serenade" (Moskowski).
"The Dansant" (Fletcher).
"The Southern Maid" (Fraser Simson).
"Rouge et Noir" (Lotter).
"Last Night" (Lombardo).
"Viennese Melody" (Kreisler).

NIGHT SESSION.

- 7.40 p.m.—Programme Announcements.
7.42 p.m.—Carl Budden Morris, Pianoforte Solos:
(a) "Staccato Caprice" (Max Vogrich).
(b) "Ancient Dance" (Chaminade).
(c) "The Wind" (Alkan).
(d) "Rhapsody Eleven" (Liszt).
8.0 p.m.—"Big Ben." H. W. Varna and Company will present the Play, "Trilby" (by the late Du Maurier) and by permission of J. C. Williamson).

Cast in Order of Appearance.

- Talbot Wynne (Taffy) Foster Dean
Alex MacAlister (Sandy) .. William Hume
William Bagot (Little Billee) ... Fisher
Trilby O'Farrell Meg Service
Gecko C. Curran
Svengali H. W. Varna
Madame Vinard (Conceirge) .. Felix Clark
Duc Rochmartel (Zouzon) ... D. Foster
Theodore La Farce (Dodor). D. A. Sharp
Mrs. Bagot (Billie's Mother), Muriel Conner
Rev. Thomas Bagot (her brother),
H. J. Salier
Colonel Kaw (Theatre Manager), S. Horace
Act I.: Studio of the Musketeers of the Brush. (Winter in Paris.)
8.20 p.m.—Incidental Music.
8.23 p.m.—Act II.: Studio of the Musketeers of the Brush. (Midnight Christmas Eve.)
8.43 p.m.—Incidental Music.
8.45 p.m.—Act III.: Foyer of the Theatre, "Cirque de Bashibazonk"—5 years later.
During the presentation of Act III., Peggy Dunbar, contralto, will introduce the song "Ben Bolt."
9.5 p.m.—Late Weather Forecast, Peggy Dunbar, Contralto:
(a) "Sunday" (Carew).
(b) "Sapphic Ode" (Brahms).
9.12 p.m.—Details of the Radio Eisteddfod.
9.15 p.m.—The N.S.W. Broadcasting Company's Orchestra.
9.25 p.m.—Howard McKenzie, Baritone.
9.52 p.m.—The N.S.W. Broadcasting Company's Orchestra.
9.45 p.m.—To-night's Anniversary by Captain Fred Aarons.
9.48 p.m.—Peggy Dunbar, contralto:
"Softly Awakes My Heart" (Saint Saens).
9.53 p.m.—The N.S.W. Broadcasting Company's Orchestra.
10.10 p.m.—Howard McKenzie, Baritone.
10.16 p.m.—The N.S.W. Broadcasting Company's Orchestra.
10.27 p.m.—To-morrow's Programme and Late News.
10.30 p.m.—National Anthem. Close Down.
At the Piano: Ewart Chapple.

2BL, SERVICE.

WEDNESDAY, 24th OCT. 1928.

MORNING SESSION.

- 8 a.m.—G.P.O. clock and chimes.
Metropolitan weather report.
8.1 a.m.—State weather report.
8.2 a.m.—Studio music.
8.15 a.m.—G.P.O. clock and chimes.
News from the "Daily Telegraph Pictorial."
8.25 a.m.—Studio music.
8.30 a.m.—G.P.O. clock and chimes.
Studio music.
8.35 a.m.—Information. Mails, shipping arrivals, departures and sailings.
8.38 a.m.—News from the "Daily Telegraph Pictorial."
8.45 a.m.—G.P.O. clock and chimes.
Studio music.
9 a.m.—G.P.O. clock and chimes.
Studio music.
9.30 a.m.—A reading.
9.40 a.m.—Studio music.
10 a.m.—G.P.O. clock and chimes.
Close down.

MIDDAY SESSION.

- 11 a.m.—G.P.O. clock and chimes.
Women's session.
Sporting talk by Miss Gwen Varley, women's sports authority.
11.15 a.m.—Talk on Electricity in the Home.
12 noon.—G.P.O. clock and chimes.
Special ocean forecast and weather report.
12.3 p.m.—Studio music.
12.30 p.m.—Shipping and mails.
12.35 p.m.—Market reports.
12.48 p.m.—"Sun" midday news service.
1 p.m.—Studio music.
1.30 p.m.—Talk to children and special entertainment for children in hospital.
2 p.m.—G.P.O. clock and chimes.
Close down.
Results from Kensington Ponies will be broadcast by courtesy of the "Sun."

AFTERNOON SESSION.

Note: During the afternoon race results from Kensington Ponies will be broadcast as received by courtesy of the "Sun" Newspapers.

- 3.45 p.m.—G.P.O. Clock and chimes.
Romano's Restaurant Dance Orchestra under the direction of Mr. Merv. Lyons broadcast from Romano's.
3.55 p.m.—Miss Phyllis Atkinson, mezzo soprano:
(a) "Lilies of Lorraine" (Connor).
(b) "A Thousand Nights" (Temple).
4.2 p.m.—"Sun" News Service.
4.10 p.m.—Mr. Maynard Wilkinson, piano solos:
(a) "Cradle Song" (Schubert-Godowski).
(b) "Hedge Rose" (Schubert-Godowski).
4.17 p.m.—Miss Florence Day, contralto:
"Ships of Arcady" (Micheal Head).
4.22 p.m.—Romano's Restaurant Dance Orchestra.
4.30 p.m.—Miss May Nancarrow, elocutionist:
"The Dentist" (Leacock).
4.38 p.m.—Romano's Restaurant Dance Orchestra.
4.45 p.m.—"Sun" New service.
4.55 p.m.—Romano's Restaurant Dance Orchestra.
5.5 p.m.—Miss Phyllis Atkinson:
(a) "The Bird with a broken wing" (Golson).
(b) "With all my heart" (Seymour).
5.12 p.m.—Mr. Maynard Wilkinson:
(a) "Melodie" (Stojowski).
(b) "Shepherds Hey" (Grainger).
5.19 p.m.—Miss May Nancarrow:
"Spoonendyke's Burglars" (Anon).
5.26 p.m.—Miss Florence Day:
"Birds in the Nest" (Choveaux).
5.29 p.m.—Musical programme from the studio.
5.33 p.m.—Features of evening's programme.
5.35 p.m.—Racing resume.

EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and Chimes.
Children's Music and entertainment.
6 p.m.—Children's letters and stories.
6.30 p.m.—"Sun" news and late sporting.
6.40 p.m.—Gulbransen Dinner Music.
7.10 p.m.—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.
Grain and Fodder report ("Sun.")
Dairy Produce report ("Sun.")
7.25 p.m.—Advertising Talks and studio items.
7.57 p.m.—Programme and other announcements.

EVENING SESSION.

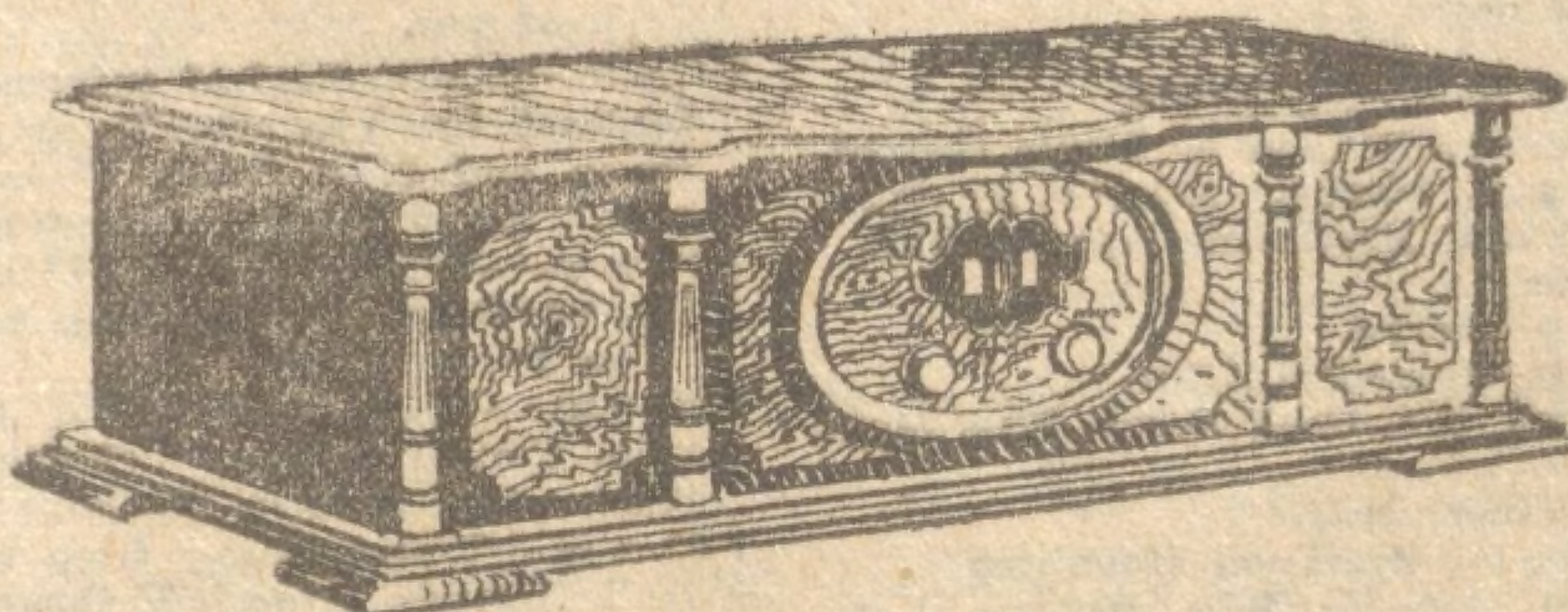
- 8 p.m.—G.P.O. clock and chimes.
2BL Topical Chorus.
8.3 p.m.—The Rose Bay Winter Garden Theatre Symphony Orchestra under the direction of Mr. Lionel Hart, broadcast from Rose Bay Theatre.
8.15 p.m.—Miss Dulcie Starkey, soprano:
(a) "To a Nightingale" (Brahms).
(b) "The Vain Suit" (Brahms).
8.22 p.m.—Mr. Josef Kaartinen, saxophone solos:
(a) "Zardas" (Monti).
(b) "Sax Pasms" (Gurewieh).
8.29 p.m.—Mr. Alfred Wilmore, tenor:
(a) "Auy Flugeln Des Gesanges" (Mendelssohn).
(b) "Afton Water" (Hume).
8.36 p.m.—Mr. Frank Ryan, entertainer.
8.43 p.m.—Miss Grace Saville, contralto.
8.50 p.m.—The Rose Bay Winter Garden Theatre Symphony Orchestra.
9 p.m.—Talk on general sporting by Mr. Claude Corbett.
9.15 p.m.—From the Sydney University: Carillon recital.
9.30 p.m.—Details of Radio Eisteddfod.
9.33 p.m.—Miss Dulcie Starkey:
(a) "Cradle Song" (Cobb).
(b) "My Violet" (Thompson).
9.40 p.m.—The Rose Bay Winter Garden Theatre Symphony Orchestra.
9.50 p.m.—Mr. Jack Barnett and Miss Dorothy Dewar, entertainers.
10.10 p.m.—Mr. Josef Kaartinen:
(a) "The Dream of Love" (Liszt).
(b) "Gloria" (Wiedoeft).

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F A R M E R ' S

Pitt, Market and George Streets.

10.17 p.m.—Mr. Alfred Wilmore:
(a) "Ben Bolt" (Traditional).
10.24 p.m.—Mr. Frank Ryan, entertainer.
10.31 p.m.—Miss Grace Saville, contralto.
10.38 p.m.—Resume of following day's programme.
10.40 p.m.—Romano's Restaurant Dance Orchestra, under the direction of Mr. Merv. Lyons, broadcast from Romano's. During intervals between dances, "Sun" news will be broadcast.
11.30 p.m.—National Anthem.

2GB, SYDNEY.

WEDNESDAY, 24th OCT. 1928.

MORNING SESSION.

10 a.m.—Music.
10.10 a.m.—Happiness Talk by A. E. Bennett.
10.20 a.m.—Music.
10.30 a.m.—Women's Session.
11.30 a.m.—Close down.

AFTERNOON SESSION.

2 p.m.—Music.
2.5 p.m.—Women's Radio Service Dept.
2.30 p.m.—Music.
2.45 p.m.—Address.
3.15 p.m.—Close down.

EVENING SESSION.

5.30 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.
8 p.m.—Opening Chorus.
8.2 p.m.—2GB Instrumental Trio:
Miss Ada Brook, Mr. Cecil Berry, Miss Marjorie Kennedy.
8.15 p.m.—Announcements.
8.20 p.m.—Songs by Mr. Cecil Houghton.
8.27 p.m.—Cello solo by Miss Marjorie Kennedy.
8.35 p.m.—Mr. Stuart Peters, Scottish Entertainer.
8.42 p.m.—Resume of Programme.
8.55 p.m.—Address by Professor E. Wood.
9 p.m.—Weather report, u
9.2 p.m.—Songs by Miss Florence Gordon.
9.9 p.m.—Violin solos by Mr. Cecil Berry.
9.17 p.m.—Songs by Mr. Cecil Houghton.
9.24 p.m.—Mr. Stuart Peters, Scottish entertainer.
9.31 p.m.—2BG Instrumental Trio.
9.46 p.m.—Songs by Miss Florence Gordon.
9.55 p.m.—Pianoforte solos by Miss Ada Brook.
10 p.m.—Close down.

3LO, MELBOURNE.

WEDNESDAY, 24th OCT. 1928.

EARLY MORNING SESSION.

7.15 a.m.—Morning melodies.
7.20 a.m.—Morning Exercises to music.
7.30 a.m.—Stock reports. Market reports.
General news. Shipping. Sporting information. Express train information.
8 a.m.—Melbourne Observatory time signal.
8.1 a.m.—Morning melodies.
8.15 a.m.—Close down.

MORNING SESSION.

10.50 a.m.—ERIC WELCH will speak on Today's Races at Werribee.
11 a.m.—3LO'S CULINARY COUNSELS, or How to Create Creature Comforts with a Minimum of Cash.

RECIPE—TUSSORE SOUP.

Three pints white stock, 2oz. cheese, 1 onion, 2 yolks eggs, 2oz. macaroni, 2oz. rice, ½ gill cream, 2 slices bacon, salt and cayenne to taste, croutons. Peel and slice onion. Remove rind from bacon and put into a saucepan with stock and well washed rice. Cook till onion and rice are tender. Rub all through sieve. Beat eggs and cream well. Add the hot soup gradually. Add salt and return all to the saucepan. Do not allow it to boil or it will curdle. Have macaroni nicely boiled till tender, and cut in inch lengths. Serve in soup with grated cheese and a few croutons.

11.5 a.m.—MISS I. D. BEAVAN:
"Home Made Confectionery."
11.20 a.m.—Musical interlude.
11.25 a.m.—MRS. M. CALLAWAY MAHOOD:
"The Art of Decoration."
11.40 a.m.—Musical interlude.
11.45 a.m.—MRS. CLARENCE WEBER.

MIDDAY SESSION.

12 noon.—Melbourne Observatory Time Signal.
12.1 p.m.—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.
12.15 p.m.—Newmarket Stock sales. Special report by John McNamara and Co.
12.20 p.m.—JOHNSTON'S STUDIO BOYS:
March, "National Honor."
Overture, "The Golden Sceptre."
12.30 p.m.—JESSIE SHMITH, Contralto:
"Prelude" (Landon Ronald).
"The Winds are Calling" (Landon Ronald).
12.3 p.m.—Stock Exchange information.
12.40 p.m.—JOHNSTON'S STUDIO BOYS:
Selection, "Bohemian Girl."
12.50 p.m.—THE IMPERIAL RUSSIAN TRIO.
The Trio: "Trio A Minor."
Thema con variazioni.
Arved Norit, violin: "Tambourin Chinois" (Kreisler).
1.5 p.m.—Metereological information. Weather forecast for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports. Rainfall.
1.12 p.m.—JOHNSTON'S STUDIO BOYS:
Cornet Solos, "Come Sing to Me."
"The Perfect Day."
1.22 p.m.—JESSIE SHMITH, Contralto:
"Oh, that it were so" (Bridge).
"Ships that pass in the Night" (Stephenson).
1.30 p.m.—Transmission from the Freemasons' Hall, Collins street, Melbourne. Speeches from the ROTARY CLUB LUNCHEON.

AFTERNOON SESSION.

2.13 p.m.—Description of the Three-year-old Handicap, six furlongs, Werribee Races, by ERIC WELCH.
2.20 p.m.—ESTELLE MARK TRIO:
Cecilia Kilduff, Violin:
"Two Old English Dances."
Estelle Mark, Soprano:
"The Star" (Rogers).
Margot Sheridan, Piano:
"Sonata in B Flat" (Arne).
2.35 p.m.—THE STATION ORCHESTRA:
Selected.
2.42 p.m.—Description of the Jumpers' Flat Race, 1¼ miles, Werribee Races, by ERIC WELCH.
2.50 p.m.—THE STATION ORCHESTRA:
"Reve Angelique" (Rubinstein).
"Sleeping Beauty" (Tchaikowsky).
2.57 p.m.—OLIVER PEACOCK, Baritone:
"Beauty's Eyes" (Tosti).
"My Dreams" (Tosti).
3.2 p.m.—STEWART AND LORRAINE:
"Humorous Instrumentalists."
3.6 p.m.—ELLA RIDDELL, Contralto:
John Anderson, My Jo" (Old Scotch)—by special request.
3.13 p.m.—Description of the Welter Handicap, 7 furlongs, 65 yards, Werribee Races, by ERIC WELCH.
3.20 p.m.—THE STATION ORCHESTRA:
"Two Dances" (German).
3.30 p.m.—VICTOR BAXTER, Tenor:
"Parted"—Violin obligato (Tosti).
3.33 p.m.—THE STATION ORCHESTRA:
"Dance of the Hours" (Giacca).
3.43 p.m.—Description of the Werribee Cup, Werribee Races, 9 furlongs, by ERIC WELCH.
3.50 p.m.—OLIVER PEACOCK, Baritone:
"Valley of Roses" (Haydn Wood).
"O, Heart of Mine" (Leigher).
3.57 p.m.—STEWART AND LORRAINE:
"Humorous Instrumentalists."
4.5 p.m.—THE STATION ORCHESTRA:
"The Merchant of Venice" (Rosse).
4.12 p.m.—Description of the Manor Plate, 5 furlongs, at Werribee Races, by ERIC WELCH.
4.20 p.m.—C. WHEATLAND, Trombone:
"Drake Goes West" (Sanderson).

4.26 p.m.—VICTOR BAXTER, Tenor:
4.33 p.m.—THE STATION ORCHESTRA:
"The Atonement of Pan" (Hadley).
4.43 p.m.—Description of the Manor Purse, 7 furlongs, 65 yards, at Werribee Races, by ERIC WELCH.
4.50 p.m.—ELLA RIDDELL, Contralto:
"Be Kind to Auld Grannie" (Gleadson).
"The Auld Hoose"—by request.
4.57 p.m.—"Herald" news service.
Stock Exchange information.
5.7 p.m.—Close down.
During the afternoon results of the Watchem Races will be given as they come to hand.

EVENING SESSION.

6 p.m.—Answers to Letters and Birthday Greetings by "MARY, MARY."
6.25 p.m.—Musical interlude.
6.30 p.m.—"MARY, MARY" will tell you about "Don Quixote"—The Knight of the Rueful Countenance.

NIGHT SESSION.

7.5 p.m.—Stock Exchange Information.
7.15 p.m.—Special report by John McNamara and Co. Official report of the Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke Street, Melbourne. Fish Market reports by J. R. Borrett, Ltd. Market reports by the Victorian Producers' Co-operative Ltd. Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruiterers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.
7.30 p.m.—News Session.
7.43 p.m.—Birthday Greetings.
7.45 p.m.—OUT OF THE PAST.
7.46 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE, J. M. WARD, Superintendent of Horticulture, will speak on "Fruit Growing—a Talk on the Coming Season's Fruit Crop."
8 p.m.—A MAKER OF HISTORY.
Programme Announcements.
8.1 p.m.—SPECIAL PROGRAMME arranged by MARY CAMPBELL from the Works of BEETHOVEN and WOLF.
GERTRUDE HEALY AND IDA SCOTT, Violin and Piano:
"Sonata in C minor, Op. 30, No. 2" (Beethoven). 1st Movement—Allegro con brio.
MILICENT OSMOND, Mezzo-Soprano:
"Bright Shines the Moon."
"The Coming of Spring" (Wolf).
IDA SCOTT, Piano:
"Bee Variations in F" (Beethoven).
DAWN HARDING, Mezzo-Soprano:
"Lord, What Doth the Soil Here Bear?" (Wolf).
"Secrecy" (Wolf).
GERTRUDE HEALY AND IDA SCOTT, Violin and Piano:
"2nd Movement Sonata" C Minor Adagio Contabile (Beethoven).
MILICENT OSMOND, Soprano:
"Silent Love" (Wolf).
"Damon with His Flute" (Wolf).
GERTRUDE HEALY AND IDA SCOTT, Violin and Piano:
"3rd Movement Sonata C Minor" (Beethoven).
Scherzo.
DAWN HARDING, Mezzo-Soprano:
"Tell me Where?" (Wolf).
"The Gardener" (Wolf).
IDA SCOTT, Piano:
"Für Elise" (Beethoven).
"Minuet in E Flat" (Beethoven).
"Valse Allemande" (Beethoven).
MILICENT OSMOND, Mezzo-Soprano:
"An Hour Before the Dawn" (Wolf).
"The Elf."
GERTRUDE HEALY AND IDA SCOTT, Piano and Violin:
4th Movement Sonata in C Minor" (Beethoven).
Finale—Allegro.
Accompanist: IDA SCOTT.
9.15 p.m.—PROFESSOR R. J. A. PERRY, M.D., F.R.C.S., F.R.S., University of Melbourne:
A "Rubber Neck Tour of New York City."
9.30 p.m.—Transmission from the VICTORY THEATRE, St. Kilda, Orchestra, under the direction of Henri Penn.

- 10.40 p.m.—ELSY TREWEEK, Soprano:
 "Tell me, my Heart" (Bishop).
 "Should he upbraid?"
- 10.4 p.m.—"Argus" News Service. British
 Official Wireless News from Rugby.
 Meteorological information.
- 11 p.m.—OUR GREAT THOUGHT.
- 11.1 p.m.—THE RADIO-ACES.
- 11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE.

WEDNESDAY, 24th OCT. 1928.

MORNING NEWS SESSION.

- 10 a.m.—G.P.O. Clock says "Ten."
- 10.1 a.m.—"Age" Stock Exchange reports.
 London Metal Market.
- 10.10 a.m.—"Age" Market reports—farm and
 station produce, fruit, fish, vegetables, etc.
- 10.25 a.m.—"Age" Shipping reports.
 Ocean forecast.
- 10.30 a.m.—Mail notices.
 Express train information.
- 10.35 a.m.—"Age" news service, exclusive to
 3AR.
- 10.59 a.m.—Weather forecast.

MORNING MUSICAL SESSION.

- Announcer FRANK HATHERLEY.
 Accompanist REG. BROWN.
- 11 a.m.—Radi-o-Aces:
 "Just a Memory" (Henderson).
 "Lonesome in the Moonlight" (Baer).
 "Hallelujah" (Youmans).
- 11.15 a.m.—Rita Hilton, entertainer:
 "I Don't Want to Get Married."
 "It must be Love."
- 11.22 a.m.—Radi-o-Aces:
 "Sometimes I'm Happy" (Youmans).
 "Varsity Drag" (Henderson).
 "Chloe" (Kahn).
- 11.37 a.m.—Marcelle Berardi, soprano:
 "Polonaise" from "Mignon" (Thomas).
 "Request."
- 11.44 a.m.—Radi-o-Aces:
 "Lonely in a Crowd" (Greer).
 "Louisiana" (Schafer).
 "Nestling Time" (Nussbaum).
- 12 noon.—Rita Hilton, entertainer:
 "Would You Mind?"
 "Ramble Along" (Connolly).
- 12.7 p.m.—Radi-o-Aces:
 "Just a Year Ago To-night" (Rose).
 "Golden Gate" (Jolson).
 "Harvest Moon" (Baye).
- 12.22 p.m.—John D. Fraser, baritone:
 "A Castilian Lament" (Del Riego).
 "Evening Song" (Blumenthal).
- 12.30 p.m.—British Official Wireless.
- 12.40 p.m.—Radio-O-Aces:
 "Rain" (Ford).
 "Mine, All Mine" (Raby).
 "The Wedding Waltz" (Gilbert).
- 12.50 p.m.—Marcelle Berardi, soprano:
 "Non so piu cosa son," from "The Marriage
 of Figaro" (Mozart).
 "Enough" (Homers).
- 12.57 p.m.—Radi-O-Aces:
 "Jackass Blues" (Karcell).
 "D'own where the Sun goes goes down"
 (Jones).
 "Don't keep me in the dark, Bright Eyes"
 (Bryan).
- 1.7 p.m.—John D. Fraser, baritone:
 "Kathleen Mavourneen."
 "Danny Boy."
- 1.14 p.m.—Radi-O-Aces:
 "Brown" (Darbney).
 "Lo Nah" (Stept).
 "Happy-go-lucky Lane" (Lewis).
- 1.30 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—Opening of the Rose Show, transmitted
 from the Town Hall, Melbourne.
 The Show will be opened by his Excellency
 Lord Somers. Speeches will be given by Mr.
 T. A. Stewart, secretary of the Rose Show,
 and the Lord Mayor, Sir Stephen Morell.
- 4 p.m.—Close down.

EVENING SESSION.

- Announcer FRANK HATHERLEY.
- 5 p.m.—A Selection of Recordings by World-
 famous Artists.

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NIGHT SESSION.

- Announcer J. STUART.
 Accompanist REG. BROWN.
 8 p.m.—Kathleen Lescelles:
 "The Art of Dancing."
 8.15 p.m.—Capt. C. H. Peters:
 Books—Wire and Otherwise.
 8.30 p.m.—Studio Presentation of "The
 Geisha," presented by Maurice Dudley.
 Musical Directress, Madame Ethel Ashton.
 Cast:
 O Mimosa San, Florence Blitz.
 Juliette Diamant, Ivy Carlile.
 Geishas:
 Nami, Merie Griffin.
 O Kikio San, Jean Kelly.
 O Hana San, Jean McIver.
 O Kingoto San, Maud MacGowan.
 Miss Molly Seamour, Rose Clayden.
 Reginald Fairfax, John Donovan.
 Dick Cunningham, Stuart Olsson.
 Arthur Cuddy, Frank Conrad.
 Captain Catana, Takamine, T. James Lloyd.
 Wun-hi, Allan Bell.
 The Marquis Imari, F. Thomas.
 Assisted by The Station Orchestra.
 10 p.m.—Under the auspices of the Advance
 Bendigo and the North League, "Wyche-
 proof."
 10.10 p.m.—Station Orchestra:
 Suite, "Melodique" (Friml).
 10.20 p.m.—Estelle Mark Trio: Estelle Mark,
 soprano; Margot Sheridan, piano; Cecilia
 Kilduff, violin:
 Violin: "Czardas" (Monti).
 Song, "Two Songs by Schumann."
 Piano, "Liebeslied" (Schulhoff).
 10.35 p.m.—Station Orchestra:
 "The Atonement of Pan" (Hadley).
 "Paraphrase of Melody in F" (Rubenstein).
 10.50 p.m.—"Age" News Service, exclusive to
 3AR.
 10.58 p.m.—Weather forecast.
 10.59 p.m.—Our Australian Good-night Quote.
 11 p.m.—"God Save the King."

4QG, BRISBANE

WEDNESDAY, 24th OCT. 1928.

EARLY MORNING SESSION.

- 8 a.m.—This morning's news supplied by
 courtesy of the Brisbane Metropolitan Daily
 Newspapers.
 8.30 a.m.—Close down.

MORNING SESSION.

11 a.m. to 12 noon.

MIDDAY SESSION.

- 1 p.m.—Market reports and weather informa-
 tion.
 1.15 p.m.—The Postal Institute Orchestra.
 1.58 p.m.—Time signals.
 2 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—Music by the Tivoli Orchestra, under
 the baton of Mr. C. Groves.
 3.21 p.m.—Mail train running times.
 3.35 p.m.—Orchestral music.
 4 p.m.—A programme of electrically repre-
 duced records.
 4.15 p.m.—This afternoon's news.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

- 6 p.m.—Mail train running times; mail in-
 formation; shipping news.
 6.5 p.m.—Dinner music.
 6.25 p.m.—Commercial announcements.
 The Children's Hour.
 6.30 p.m.—Bedtime stories conducted by
 "Little Miss Brisbane."
 Late commercial news.
 7 p.m.—News in brief.
 7.5 p.m.—Stock Exchange news.
 7.6 p.m.—Metal quotations.
 7.7 p.m.—Market reports.
 7.25 p.m.—Fenwick's stock report.
 7.30 p.m.—Weather information.
 7.40 p.m.—Announcements.
 7.43 p.m.—Standard time signals.
 7.45 p.m.—Lecture: "An Orchard Topic"—
 by Mr. J. Howie (Queensland Agricultural
 High School and College).

NIGHT SESSION.

- 8 p.m.—From the Exhibition Hall—
 Brisbane Apollo Club:
 Part-song, "Sleep, Dear One, Sleep"
 (Torrance).
 Jack Land, tenor:
 "The Willow" (Goring Thomas).
 Mary Jefferies, cellist:
 "Cantabile" (Cesar Cui).
 "Serenade" (Victor Herbert).
 Brisbane Apollo Club:
 Part-song, "Lorraine, Lorraine, Loree"
 (P. Fletcher).
 Beatrice Pugh and Mrs. Hugh Campbell:
 Vocal duet, "Serbami Ognor" (Rossini).
 Brisbane Apollo Club (soloist, Jack Land):
 Part-song, "Italian Salad."
 Interval.
 Brisbane Apollo Club:
 Chorus, "Crossing the Plain."
 Mary Jefferies, cellist:
 "Traumerei" (Becker).
 "Rondo" (Boccherini).
 Jack Land, tenor:
 "The Message" (Blumenthal).
 Brisbane Apollo Club:
 Part-song, "Irish Folk Song" (A. Foote).
 Beatrice Pugh and Mrs. Hugh Campbell:
 Vocal duet, "Spring is in the air" (Grace
 H. Wood).
 Brisbane Apollo Club:
 Part-song, "O, Peaceful Night" (Ed.
 German).
 10 p.m.—From the Studio:
 "Tecoma" will deliver another talk in con-
 nection with 4QG's Home Garden Schem-
 His subject will be "Transplanting Sede-
 lings."
 10.15 p.m.—Late news; weather news.
 Close down.

6WF, PERTH.

WEDNESDAY, 24th OCT. 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 Me-
 teorological Bureau of Western Australia.
 1.2 p.m.—Studio Quintette, conducted by Mr.
 Val Smith, will play selections from their
 repertoire.
 2 p.m.—Close down.

AFTERNOON SESSION.

- 3.30 p.m.—Tune in.
 3.35 p.m.—Afternoon Tea Concert relayed from
 the Rosebud Cafe, Perth.
 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 wave length.
 6.48 p.m.—Uncle Duffy's evening with the
 Kiddies.
 7.5 p.m.—Items by the Studio Trio.
 7.30 p.m.—Stocks, Markets, News.
 7.45 p.m.—Talk by Lieut. Col. Le Souef, Direc-
 tor of the Zoological Gardens, South Perth.
 8 p.m.—Time signal.
 8.1 p.m.—Weather notes supplied by the Me-
 teorological Bureau of Western Australia.
 Station announcements such as alterations to
 programmes, etc.
 8.3 p.m.—Variety Night:
 Musical programme from the studio, includ-
 ing vocal and instrumental artists.
 8 p.m.—Late news items by courtesy of "The
 Daily News" Newspaper Co.
 Ships within range announcement.
 Weather report and forecast.
 Station announcements.
 9.10 p.m.—Talk: "Spain" by Mr. Harold Red-
 cliffe.
 10.30 p.m.—Close down.
 104.5 METRE TRANSMISSION.
 Simultaneous broadcast on 104.5 metres of
 programme given on 1250 metres, commen-
 cing at 6.45 p.m.

7ZL, HOBART

WEDNESDAY, 24th OCT. 1928.

MIDDAY SESSION.

- 11.30 a.m.—Selections by the Melody Master.
 11.34 a.m.—Special Midlands Weather fore-
 cast.
 11.35 a.m.—Tasmanian Stations 9 a.m. weather
 report.
 12 noon.—G.P.O. Chimes the hour.
 12.1 p.m.—Shipping information.
 Ships within wireless range.
 Mail notices.
 Commercial news.
 12.8 p.m.—Selections by the Melody Master.
 12.11 p.m.—British Official Wireless news.
 12.20 p.m.—Selections by the Melody Master.
 12.29 p.m.—Announcements.
 12.33 p.m.—Selections by the Melody Master.
 12.55 p.m.—"Mercury" news service.
 Produce sales held at Railway.
 1.10 p.m.—Selections by the Melody Master.
 1.30 p.m.—Transmission from the Imperial
 Hotel, Collins Street, Hobart. Speeches at
 the Rotary Club Luncheon.
 2 p.m.—Close down.
 2.15 p.m.—Running Description of Three Year
 Old Handicap, Werribee Races, Victoria.
 2.20 p.m.—Close down.
 2.45 p.m.—Running Description of Jumpers
 Flat Race, Werribee Races, Victoria.
 2.50 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—Selections by the Melody Master.
 3.15 p.m.—Running Description of Welter
 Race, Werribee Races, Victoria.
 3.20 p.m.—Weather forecast.
 3.21 p.m.—Selections by the Melody Master.
 3.45 p.m.—Running Description of Werribee
 Cup, Werribee Races, Victoria.
 3.50 p.m.—Selections by the Melody Master.
 4.15 p.m.—Running Description of Manar
 Plate, Werribee Races, Victoria.
 4.20 p.m.—Readings from the Illustrated Tas-
 manian Mail.
 4.30 p.m.—Selections by the Melody Master.
 4.45 p.m.—Running description of Werribee
 Purse, Werribee Races, Victoria.
 4.50 p.m.—Close down.
 During the afternoon a description will be
 broadcast of the Hobart Royal Agricultural
 Show from the Show Ground. Results of
 Awards for Horses, Hacks and other stock.
 Description of Ring Events.

EVENING SESSION.

CHILDREN'S HOUR.

- 6.15 p.m.—Selections by the Melody Master.
 6.30 p.m.—Little Teddy Richardson, (Uncle
 David's Nephew):
 "Someday you'll say O.K."
 "I can't think—I must be in Love."
 6.40 p.m.—Answers to Letters and Birthday
 Greetings.
 6.45 p.m.—Request Items by the Melody
 Master.
 7.15 p.m.—"Mercury" special Tasmanian news
 service.
 Railway Auctions Produce sales.
 Weather information.
 Hobart Stock Exchange quotations.
 Golf results.
 Royal Hobart Show notes.

EVENING SESSION.

- 7.30 p.m.—Geo Nation, will speak on:
 "Gardening."
 7.45 p.m.—Rev. Nelson, of Congregational
 Church, Hobart, will speak under the aus-
 pices of 7ZL and "Mercury" Hospital Wire-
 less Equipment appeal on:
 "Cheering the Sick."
 8 p.m.—Transmission from the Town Hall,
 Hobart. Speech by the Rt Hon. S. M.
 Bruce, P.C., C.H. Prime Minister of Aus-
 tralia.
 From the Studio:
 9.30 p.m.—Selections by the Melody Master.
 9.50 p.m.—News session.
 British Official Wireless news.
 "Mercury" news service.
 Ships within wireless range.
 Tasmanian District report.
 Results of Prizes awarded at Hobart Agri-
 cultural Show.
 10 p.m.—G.P.O. Clock chimes the hour.
 10.3 p.m.—God Save the King.

Thursday, October 25

New South Wales Broadcasting
Company, Limited.

2FC, SERVICE.

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, river reports.
- 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.
- 10.2 a.m.—"Sydney Morning Herald" news service.
- 10.10 a.m.—Country Women's Session, conducted by Miss Doreen Walsh.
- 10.25 a.m.—Studio Music.
- 10.30 a.m.—Last minute sporting information by the 2FC Racing Commissioner.
- 10.40 a.m.—Studio Music.
- 11 a.m.—"Big Ben."
- A.P.A. and Reuter's Cable Services.
- 11.5 a.m.—Close down.

MIDDAY SESSION.

- 12 noon.—"Big Ben" and announcements.
- 12.1 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 news: "Sydney Morning Herald."
- 12.15 p.m.—Rugby Wireless News.
- 12.18 p.m.—A Reading by A. S. Cochrane: "Dickens."
- 12.30 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.
- 1.50 p.m.—Last minute sporting information by the 2FC Racing Commissioner.
- 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 2.30 p.m.—Programme announcements.
- 2.32 p.m.—Continuation of the Lectures on Shakespeare's Plays, arranged by the Shakespeare Society of N.S.W. (the Plays set for the Leaving Certificate and Intermediate Certificate Examinations, November, 1928).
- Dr. C. G. McDonald: A Lecture on "Twelfth Night."
- 3 p.m.—"Big Ben." Pianoforte selections.
- 3.20 p.m.—Studio Music.
- 3.45 p.m.—A Reading.
- 4 p.m.—"Big Ben."
- Mary MacCormack, mezzo.
- 4.8 p.m.—The Ambassadors' Dance Orchestra.
- 4.20 p.m.—Hilda Nelson, mezzo.
- 4.28 p.m.—The Ambassadors' Dance Orchestra.
- 4.38 p.m.—John Reid, baritone.
- 4.45 p.m.—Stock Exchange, third call.
- 4.47 p.m.—Hilda Nelson, mezzo.
- 4.53 p.m.—The Ambassadors' Dance Orchestra.
- 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
- 5.45 p.m.—Children's Session, conducted by the "Hello Man."
- Letters and stories.
- Music and entertainment.

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SOLE AGENTS:

A. G. Webster & Sons Ltd., Hobart Norman Bell & Co. Ltd., Brisbane

6.30 p.m.—Dalgety's market reports (wool, wheat and stock).
 6.40 p.m.—Fruit and vegetable markets.
 6.43 p.m.—Stock Exchange information.
 6.45 p.m.—Weather and shipping news.
 6.48 p.m.—Rugby wireless news.
 6.50 p.m.—Late sporting information.
 7 p.m.—Late news service.
 7.10 p.m.—The 2FC Dinner Quartet, conducted by Horace Keats:
 "Rose of Yesterday" (Lehmann).
 "To the Spring" (Greig).
 "Riviera Scenes" (Brooks).
 "Serenade" (Liebe).
 "Roziska" (Roberts).
 "Is it Gonna be Long?" (Abbott).
 "Trees" (Rasch).

NIGHT SESSION.

7.40 p.m.—Programme Announcements.
 7.45 p.m.—Piano-forte Selection.
 7.58 p.m.—Foreword to the Next Item.
 8.0 p.m.—From the Capitol Theatre:
 Ted Henkel and his Stage Band, with Fred Scholl at the Wurlitzer Organ.
 8.20 p.m.—From the Studio:
 Crosby Browne, Clarinet Solos.
 8.27 p.m.—Details of the Radio Eisteddfod.
 8.30 p.m.—From Paling's Concert Hall:
 Items by the Sydney Madrigal Society's Choir, conducted by Arnold Mote.
 9.0 p.m.—"Big Ben." Late Weather Forecast.
 9.1 p.m.—Leonard Patrickson, Baritone.
 9.8 p.m.—Crosby Browne, Clarinet Solos.
 9.15 p.m.—From the Capitol Theatre:
 Stage Presentation.
 9.40 p.m.—Brunton Gibb, A Talk on Modern Poets:
 "Wanderings with Service."
 9.55 p.m.—Wendling and Molloy, the Radio Melody Makers:
 (a) "Gotta Big Date with a Little Girl" (Tobias).
 (b) "Jean Mine, I Dream of Lilac Time" (Wayne).
 (c) "Fun on the Farm" (Akst).
 10.5 p.m.—Leonard Patrickson, Baritone.
 10.12 p.m.—The Ambassadors' Dance Orchestra. Conductor, Manuel Hyman.
 10.20 p.m.—Wendling and Molloy, the Radio Melody Makers:
 "Constantinople" (Carlton).
 "Lonesome in the Moonlight" (Baer).
 "Chili Pom Pom" (Wendling).
 10.30 p.m.—Late Weather Forecast.
 The Ambassadors' Dance Orchestra.
 10.40 p.m.—Nea Hallett, Songs at the Piano.
 10.47 p.m.—The Ambassadors' Dance Orchestra.
 10.57 p.m.—To-morrow's Programme and Late News.
 11.0 p.m.—"Big Ben." Nea Hallett, Songs at the Piano.
 11.6 p.m.—The Ambassadors' Dance Orchestra.
 11.30 p.m.—National Anthem.
 Close Down.

At the Piano: Ewart Chapple.

NOTE.—Several weeks ago the Tasmanian Government sent an aeroplane from Tasmania to New South Wales and while flying over this State it dropped a number of souvenir folders, each of which contained a number. The successful number has been lying in a sealed envelope in the safe of the N.S.W. Broadcasting Company Limited, Sydney, and will be opened to-day, 25th October. Whoever holds the corresponding number will be given a trip from Sydney to Tasmania. The winning number will be announced several times during this evening's session.

2BL, SERVICE.

THURSDAY, 25th OCTOBER, 1928.

MORNING SESSION.

8 a.m.—G.P.O. Clock and Chimes.
 Metropolitan Weather Report.
 8.1 a.m.—State Weather Report.
 8.2 a.m.—Studio Music.
 8.15 a.m.—G.P.O. Clock and Chimes.
 News from the "Daily Telegraph Pictorial."
 8.25 a.m.—Studio Music.

8.30 a.m.—G.P.O. Clock and Chimes.
 Studio Music.
 8.35 a.m.—Information, Mails, Shipping, Arrivals, Departures and Sailings.
 8.38 a.m.—News from the "Daily Telegraph Pictorial."
 8.45 a.m.—G.P.O. Clock and Chimes.
 Studio Music.
 9.30 a.m.—A Reading.
 9.40 a.m.—Studio Music.
 10.0 a.m.—G.P.O. Clock and Chimes; Close Down.

MIDDAY SESSION.

11.0 a.m.—G.P.O. Clock and Chimes.
 Women's Session.
 Studio Music.
 12.0 noon.—G.P.O. Clock and Chimes.
 Special Ocean Forecast and Weather Report.
 12.3 p.m.—Studio Music.
 12.30 p.m.—Shipping and Mails.
 12.35 p.m.—Market Reports.
 12.48 p.m.—"Sun" Midday News Service.
 1.0 p.m.—Studio Music.
 1.30 p.m.—Talk to Children and Special Entertainment for Children in Hospital.
 2.0 p.m.—G.P.O. Clock and Chimes; Close Down.

AFTERNOON SESSION.

3.45 p.m.—G. P. O. Clock and chimes.
 Romano's Restaurant Dance Orchestra under the direction of Mr. Merv. Lyons broadcast from Romano's.
 3.45 p.m.—Madame Ada Middenway, contralto:
 "Sunshine and Rain" (Blumenthal).
 4 p.m.—Talk on "Radio in the Home."
 4.10 p.m.—Miss Edna Burke, pianist:
 (a) "Moment Musical" (Schubert).
 (b) "Waltz in a Flat" (Chopin).
 (c) "Arabesque" (Debussy).
 4.17 p.m.—Miss Ella Goodman, soprano:
 (a) "April Morn" (Batten).
 (b) "Beaucase" (Korsakov).
 4.22 p.m.—Romano's Restaurant Dance Orchestra.
 4.30 p.m.—Miss Winifred Birch Johnston:
 Humorous item, "Since our family got into society" (Weston and Lee).
 4.37 p.m.—Romano's Restaurant Dance Orchestra.
 4.45 p.m.—"Sun" news service.
 4.55 p.m.—Romano's Restaurant Dance Orchestra.
 5.5 p.m.—Madame Ada Middenway:
 (a) "The Herb Forgetfulness" (Von Fielitz).
 (b) "A Maiden's Wish" (Chopin).
 5.10 p.m.—Miss Edna Burke:
 (a) "Tango" (Albeniz-Godowsky).
 (b) "Danse Creole" (Chaminade).
 (c) "Pierrot" (Boyle).
 5.17 p.m.—Miss Ella Goodman:
 (a) "Were I some star" (Forster).
 (b) "My Message" (D'Hardelot).
 5.42 p.m.—Miss Winifred Birch Johnston:
 Whistling solo, "Rosebuds" (Arditi).
 5.31 p.m.—"Sun" News service.
 5.38 p.m.—Producers Distributing Society's Poultry report.
 5.40 p.m.—Features of evening's programme.
 5.42 p.m.—Racing resume.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
 Children's Music and entertainment.
 6 p.m.—Children's Letters and stories.
 6.30 p.m.—"Sun" news and late sporting.
 6.40 p.m.—2BL Dinner Quartette:
 (a) "The Tiger's Tail March" (Thurban).
 (b) "Gondoliera" (Saar).
 (c) Entracte, "Mamselle Modiste" (Herbert).
 (d) "In a Persian Garden" (Lehmann).
 (e) "Tell me again" (Wenrich).
 (f) "One Hour" (Longstaffe).
 7.10 p.m.—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.
 Grain and Fodder report ("Sun").
 Dairy Produce report ("Sun").
 Weekly Traffic Bulletin.
 7.25 p.m.—Advertising Talks and studio items.
 7.57 p.m.—Programme and other announcements.

EVENING SESSION.

8 p.m.—G.P.O. clock and chimes.
 2BL Topical Chorus.
 8.3 p.m.—Carlton and Shaw, musical entertainers.
 8.13 p.m.—Talk on "The motor car and its Idiosyncrasies," by Mr. Hill.
 8.28 p.m.—The New South Wales Broadcasting Company's Orchestra, conducted by Mr. Willie Redstone.
 8.45 p.m.—Carlton and Shaw.
 8.55 p.m.—Details of Radio Eisteddfod.
 Weather report and forecast by courtesy of Government Meteorologist.
 9 p.m.—G.P.O. clock and chimes.
 From the Studio: The Sydney Operatic Society by arrangement with J. C. Williamson, Limited, present the fantastic musical play, "The Arcadians" (Mark Ambient), Lyrics by Arthur Winperis, Music by Lionel Monckton and Howard Talbot.
 Cast of Characters:
 James Smith (of Smith and Co., caterers), Will Challander
 Simplicitas Will Challander
 Peter Doody (a jockey), Percy Benison.
 Jack Meadows, Richard Parry.
 Bobby, Dick Hahn.
 Sir George Paddock, Jack L. Westwood.
 Percy Marsh, T. A. Treawheeler.
 Reggie, E. H. Tayles.
 Time, Harold Schwartzkoff.
 Mrs. Smith, Florence Page.
 Lady Barclay, Clare Rigney.
 Eileen Cavanagh, Pop Battenbury.
 Arcadians.
 Amaryllis, Kath Griffin.
 Daphne, Marie Benjamin.
 Dryope, Huia Saunders.
 Chrysea, Sally Whitehurst.
 Astrophel, T. A. Treawheeler.
 Damoetas, Charles Thompson.
 and
 Sombra, Nita MacFarland.

Synopsis of Scenes.

Act 1.
 Scene 1.—Arcadia.
 Act 3.
 Scene 3.—The Arcadian Restaurant.
 Musical numbers.
 Act 1.
 Opening chorus with solos, by Kath Griffin and Nita MacFarland.
 Quartette, "The Joy of Life," Nita MacFarland, Sally Whitehurst.
 Chorus of Fear.
 Song, "Pipes of Pan," Nita MacFarland.
 Chorus, "All a Lie."
 Song, "Sweet Simplicitas," Will Challander
 Finale.
 Act 3.
 Opening chorus.
 Wattle Ballet, Music by Rex Shaw.
 Song, "Bring me a Rose," Pop Battenbury and chorus.
 Song, "All down Piccadilly," Will Challander and chorus.
 Ballet.
 Specialty Dance, Lois Melville and Jack Grant.
 Trio, "Truth is so Beautiful," Dick Parry, Will Challander, and Dick Hahn.
 Song, "Light of my Heart," Nita MacFarland.
 Song, "I've Gotter Motter," Percy Benison.
 Finale.
 Producer, Percy Benison.
 Musical director, Rex Shaw.
 Chorus Mistress, Miss Trixie Lovejoy.

10.30 p.m.—National Anthem.

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2GB, SYDNEY

THURSDAY, 25th OCTOBER, 1928.

MORNING SESSION.

- 10 a.m.—Music.
 10.10 a.m.—Happiness Talk by A. E. Bennett.
 10.20 a.m.—Music.
 10.30 a.m.—Women's Session.
 11.30 a.m.—Close down.

AFTERNOON SESSION.

- 2 p.m.—Music.
 2.5 p.m.—Women's Radio Service Dept.
 2.30 p.m.—Music.
 2.45 p.m.—Address.
 3.15 p.m.—Close down.

EVENING SESSION.

- 5.30 p.m.—Children's Session by Uncle George.
 7 p.m.—Stock and Market reports.
 7.15 p.m.—Music.
 8 p.m.—Opening Chorus.
 8.2 p.m.—Violin solos by Mr. Leslie Herford.
 8.17 p.m.—Announcements.
 8.22 p.m.—Frank Lua and his Steel Guitar.
 8.30 p.m.—Humorous Items by Mr. Reg Harrison.
 8.37 p.m.—Pianoforte Solos by Miss Belle Young.
 8.45 p.m.—Address by Professor E. Wood.
 9 p.m.—Weather report.
 9.2 p.m.—Songs by Madame Bennett North.
 9.9 p.m.—Violin solos by Mr. Cecil Berry.
 9.17 p.m.—Songs by Mr. Leslie Herford.
 9.24 p.m.—Resume of Programme.
 9.29 p.m.—Frank Lua and his Steel Guitar.
 9.36 p.m.—Humorous Items by Mr. Reg Harrison.
 9.43 p.m.—Songs by Madame Bennett North.
 9.50 p.m.—Pianoforte solos by Miss Belle Young.
 10 p.m.—Close down.

3LO, MELBOURNE.

THURSDAY, 25th OCTOBER, 1928.

EARLY MORNING SESSION.

- 7.15 a.m.—Morning melodies.
 7.20 a.m.—Morning exercises to music.
 7.30 a.m.—Stock reports, market reports, general news, shipping, sporting information.
 8 a.m.—Time signal. Express train information.
 8.1 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.

RECIPE.

VERMICELLI CREAM.

3 pints white stock, small head celery, 4 tablespoons cream, 3oz. vermicelli, 1 onion, croutons and seasoning.

Peel and wash onions. Scrape the celery, and cut it up roughly. Put into saucepan with the stock. Simmer till tender. Rub through sieve, and return to saucepan. Add the cream, and cook ten minutes without boiling. Add cooked vermicelli cut small. Season to taste. Serve with croutons.

- 11.5 a.m.—In response to repeated requests from listeners, "DOMINA" will speak on "Journalism as a Career for Women."
 11.20 a.m.—Musical interlude.
 11.25 a.m.—SISTER PURCELL will speak on "Mothercraft."
 11.40 a.m.—Musical interlude.
 11.45 a.m.—MRS. HENRIETTA C. WALKER:
 "Country Libraries and Reading Circles."

MIDDAY SESSION.

- 12 noon.—Melbourne Observatory time signal.
 12.1 p.m.—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.

- 12.15 p.m.—Newmarket stock sales. Special report by John McNamara and Co.
 12.20 p.m.—Under the auspices of the Community Singers and Concertgoers' Association—COMMUNITY SINGING.
 1.45 p.m.—Stock Exchange information. Meteorological information. Weather forecast for Victoria, Tasmania, New South Wales, South Australia. Ocean forecasts. River reports.
 1.55 p.m.—Close down.

AFTERNOON SESSION.

- 2.15 p.m.—THE STRAD TRIO:
 "Trio in G Major"—Gipsy rondo trio (Haydn).
 Andante.
 Poco Adagio Cantabile.
 Gipsy Rondo.
 2.27 p.m.—GLADYS LAMPE, contralto:
 "The Asra" (Rubinstein).
 "Persian Song of Spring" (McBurney).
 2.34 p.m.—MAY BRODERICK, piano:
 "Etude, Op. 10, No. 2, F Major" (Chopin).
 "Etude"—Revolutionary.
 2.40 p.m.—FRANK JOHNSTONE, 'cello:
 "Adagio" (Popper).
 "Menuett" (Squires).
 2.48 p.m.—GLADYS LAMPE, contralto:
 "A Heart That's Free" (Roland).
 "When Song is Sweet."
 2.55 p.m.—CECIL PARKES and MAY BRODERICK, violin and piano:
 "Sonata from Violin and Piano" (Beethoven). Op. 12, No. 3 in E Flat.
 Adagio. Rondo.
 3.4 p.m.—THE STRAD TRIO:
 "Serenade" (Widor).
 "Gavotte" (Martini-Parkes).
 "Scherzo" (Reissiger).
 3.12 p.m.—DR. LOFTUS HILLS:
 "Topics of the Week."
 3.27 p.m.—SOTATION QUARTET:
 "Slow movement from quarter for piano and strings" (Brahms).
 TASMA TIERNAN, 'cello:
 "Slow movement" (Lalo).
 3.42 p.m.—REV. WILLIAM BOTTOMLEY.
 Some Great Stories:
 "Tess of the d'Aubevilles" (Thomas Hardy).
 3.57 p.m.—THE STATION ORCHESTRA:
 Overture, "May Day" (Haydn Wood).
 4.7 p.m.—ESTELEE MARK TRIO:
 Margot Sheridan, piano:
 "Valse Capricieuse."
 "Rosemary" (Frank Bridge).
 Estelle Mark, soprano:
 "Little Northern Window" (Anthony Dare).
 "Who" (Tosti).
 4.17 p.m.—THE STATION ORCHESTRA:
 Overture, "Rosamunde" (Schubert).
 4.24 p.m.—STEWART and LORRAINE:
 "Humorous Instrumentalists."
 4.30 p.m.—"Herald" news service. Stock Exchange information.
 4.45 p.m.—EVENSONG, transmitted from St. Paul's Cathedral, Melbourne.
 5.30 p.m.—Acceptances and barrier positions for the Moonee Valley Cup Meeting.
 During the afternoon results of the Bur-rumbeet and Windermere Park Races will be given as they come to hand.
 5.35 p.m.—A. A. ROSENBLAUM will speak on: "The Philatelic Exhibition."
 5.50 p.m.—Close down.

EVENING SESSION.

- 6 p.m.—Answers to letters and birthday greetings by "BOBBY BLUEGUM."
 6.25 p.m.—Musical interlude.
 6.30 p.m.—"BOBBY BLUEGUM" and his little Passengers take an interesting trip.
 6.45 p.m.—"BOBBY BLUEGUM":
 "Little Songs for Little Singers."

NIGHT SESSION.

- 7.5 p.m.—Stock Exchange information.
 7.15 p.m.—Special reports by John McNamara and Co. Pig market report by McPhail, Anderson and Co. Official report of the Newmarket stock sales by the Associated Stock and Station Agents, Bourke Street, Melbourne. Weather synopsis. Fish



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, cowering 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, 230 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!

market reports by J. R. Borrett, Ltd. Rabbit prices. River reports. Market reports by the Victorian Producers' Co-operative Company, Ltd. Poultry, grain, hay, straw, dairy produce, potato and onions. Market reports of fruit by the Victorian Fruiterers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.

- 7.30 p.m.—News session.
 7.43 p.m.—Birthday greetings.
 7.45 p.m.—OUT OF THE PAST.
 7.46 p.m.—LORNA HELMS, now appearing in "The Desert Song," will speak from her dressing room at His Majesty's Theatre (by permission J. C. Williamson, Ltd.).
 8 p.m.—A MAKER OF HISTORY.
 PROGRAMME ANNOUNCEMENTS.
 8.1 p.m.—ROD MCGREGOR will speak on "Cricket."
 8.15 p.m.—THE RADI-O-ACES:
 "Chloe" (Moret).
 "I'm Wingin' Home" (Donaldson).
 "Wabaly Walk" (Green).
 8.24 p.m.—ESTELLE MARK, soprano:
 "Come Back" (Quilter).
 8.27 p.m.—THE RADI-O-ACES:
 "If You Want to Please a Portuguese" (Butter).
 "Saxophone Waltz" (Sisk).
 "Alabama Stamp" (Creamer).
 8.36 p.m.—CECILIA KILDUFF, violin:
 "Valse Bluette" (Drigo-Auer).
 8.39 p.m.—THE RADI-O-ACES:
 "Fascinating Vamp" (Naustraum).
 "Only a Rose" (Friml).
 "Sweet Sue, Just You" (Harris).
 8.48 p.m.—STEWART AND LORRAINE:
 Humorous instrumentalists.
 8.51 p.m.—RADI-O-ACES:
 "That's My Weakness Now" (Stept).
 "Lolita" (Stonham).
 8.59 p.m.—Announcement of the winning number of the Listener In FREE TRIP TO TASMANIA.
 9 p.m.—ELSY TREWEEK, soprano:
 "Just a Memory" (Henderson).
 9.3 p.m.—THE RADI-O-ACES:
 "My Melancholy Baby" (Norton).
 "Ice Cream" (Johnson).
 "Is It Gonna Be Long?" (Whiting).
 9.12 p.m.—FRENCH BROS. banjoists:
 "Just Like Darby and Joan" (Gilbert).
 9.15 p.m.—THE RADI-O-ACES:
 "Linger Longer Lane" (Laurence).
 "Borneo" (Donaldson).
 "Beautiful" (Gillespie).
 9.24 p.m.—ESTELLE MARK, soprano:
 "Here in the Quiet Hills" (Carne).
 9.27 p.m.—THE RADI-O-ACES:
 "Henry's Made a Lady Out of Lizzie" (O'Keefe).
 "Pardon the Glove" (Quicksell).
 "Gotta Big Date with a Little Girl" (Tobias).
 9.36 p.m.—CECILIA KILDUFF, violin:
 "The Foggy Dew" (Old Irish).
 9.39 p.m.—THE RADI-O-ACES:
 "Was It a Dream" (Boutt).
 "The Man I Love" (Gershwin).
 "Lonesome in the Moonlight" (Russell).
 9.48 p.m.—STEWART AND LORRAINE:
 Humorous instrumentalists.
 9.51 p.m.—THE RADI-O-ACES:
 "Mine, All Mine" (Ruby).
 "Rain" (Ruby).
 "Sunshine" (Berlin).
 10 p.m.—"Argus" news service. British official wireless news from Rugby. Meteorological information. Sporting notes by "Olympus." Announcements.
 10.15 p.m.—THE RADI-O-ACES:
 "There Ought to be a Law Against That" (Friend).
 "Judy"—Piano Solo (Mayerl).
 "Chiquita" (Wayne).
 10.24 p.m.—FRENCH BROS., banjoists:
 "When You Played the Organ" (Gilbert).
 10.27 p.m.—THE RADI-O-ACES:
 "Sometimes I'm Happy" (Youmans).
 "Hallelujah" (Youmans).
 "Evening Star" (Fink).
 10.36 p.m.—ELSY TREWEEK, soprano:
 "Fairy Voices" (Newton).

- 10.39 p.m.—THE RADI-O-ACES:
 "Afraid" (Barnie).
 "Someone is Losin' Susan" (Myer).
 "Mary Ann" (Davis).
 10.48 p.m.—FRENCH BROS., banjoists:
 "Little Mother" (Rapee and Pollack).
 10.51 p.m.—THE RADI-O-ACES:
 "Lovable" (Holmes).
 "Dusky Stevedore" (Razalf).
 "You're a Real Sweetheart" (Friend).
 11 p.m.—OUR GREAT THOUGHT.
 11.1 p.m.—THE RADI-O-ACES
 11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

THURSDAY, 25th OCTOBER, 1928.

MORNING NEWS SESSION.

- 10 a.m.—G.P.O. Clock says "Ten."
 10.1 a.m.—"Age" Stock Exchange reports. London Metal Market.
 10.10 a.m.—"Age" Market Reports—farm and station produce, fruit, fish, vegetables, etc.
 10.25 a.m.—"Age" shipping reports. Ocean forecast.
 10.30 a.m.—Mail notices. Express train information.
 10.35 a.m.—"Age" News Service, exclusive to 3AR.
 10.59 a.m.—Weather forecast.

MORNING MUSICAL SESSION.

- Announcer FRANK HATHERLEY.
 Accompanist REG. BROWN.
 11 a.m.—Radi-O-Aces:
 "Starlight and Tulips" (Nausbaum).
 "Stampede" (Henderson).
 "Can't You Hear Me Say I Love You" (Brown).
 11.15 a.m.—Mary Thirlwall, contralto:
 "My Ships" (Barrett).
 "Soul of Mine" (Barns).
 11.22 a.m.—Radi-O-Aces:
 "I Told Them all About You" (Yellen).
 "Without You, Sweetheart" (De Silva).
 "Lolita" (Stoneham).
 11.37 a.m.—Marcelle Berardi, soprano:
 "Pleurex mex yeux" (Massenet).
 "Le Rossignol" (Dalcroze).
 11.44 a.m.—Russian Imperial Trio—Arved Norit, violin; John Berzinsky, 'cello; William Ibster, piano.
 Violin, "Vienna Folk Song" (Kreisler).
 Trio, "Liebeslied" (Kreisler).
 "Schon Rosmarin" (Kreisler).
 "Liebesfreud" (Kreisler).
 12 noon.—Mary Thirlwall, contralto:
 "Unmindful of the Roses" (Coleridge Taylor).
 "All the Fun of the Fair" (Easthope Martin).
 12.7 p.m.—Radi-O-Aces:
 "After My Laughter Came Tears" (Tobias).
 "Beautiful" (Sharp).
 "That's My Mammy" (Donaldson).
 12.22 p.m.—Tom Semple, tenor:
 "Faery Song" (R. Boughton).
 "Beauty" (Muriel Herbert).
 12.30 p.m.—British Official Wireless. Announcements.
 12.40 p.m.—Radi-O-Aces:
 "Honeymoon Cottage" (Lumsdaine).
 "Together" (Brown).
 "Mary Ann" (Davis).
 12.50 p.m.—Marcelle Berardi, soprano:
 "Valse Ariette," from "Romeo et Juliet" (Gounod).
 "Chanson de Florian" (Godard).
 12.57 p.m.—Radi-O-Aces:
 "The Riff Song" (Romberg).
 "Chinatown" (Yvain).
 "What Was I to Do?" (Reid).
 1.7 p.m.—Tom Semple, tenor:
 "Hughes Song of the Road" (Vaughan Williams).
 "The Devon Maid" (Frank Bridge).
 1.14 p.m.—Radi-O-Aces:
 "Next to You, I Like Me Next to You" (Bito).
 "Shake It Down" (Williams).
 "Lonely Acres" (Robinson).
 1.30 p.m.—Close down.

EVENING SESSION.

Announcer FRANK HATHERLEY.
 5 p.m.—A Recital of the World's Musicians, past and present.

NIGHT SESSION.

- Announcer J. STUART.
 Accompanist REG. BROWN.
 8 p.m.—H. A. Brown, Gardening Chat.
 8.15 p.m.—Under the auspices of the Royal Life Saving Society, R. P. Rogers:
 "Learning to Swim."
 8.30 p.m.—Coburg City Band:
 Grand March, "Silver Trumpet" (Vivani).
 "Prelude" (Rachmaninoff).
 8.45 p.m.—Victor Harding, bass:
 "The Grenadier" (Coates).
 "Rip Van Winkle" (Carroll).
 8.52 p.m.—Presentation of "Orpheus" (Gluck), 1st Part. Produced by Mr. J. Sutton Crowe, and transmitted from the Auburn Hall.
 Characters:
 Orpheus, Sybil Shaw.
 Eurydice, Marjorie Robison.
 Amor, Stella Dredge.
 Pianist, Mabel Nelson.
 Station Orchestra (Conductor, Fred Hall).
 From the Studio:
 10.10 p.m.—Imperial Russian Trio: Arved Norit, violin; John Berzinsky, 'cello; William Ibster, piano:
 Piano, "Prelude C Minor" (Rachmaninoff).
 'Cello, "Serenade Espagnole" (Glazounov).
 Trio, "Scherzo" (Arensky).
 10.25 p.m.—Victor Harding, bass:
 "Border Ballad" (Cowen).
 "Trade Winds" (Keel).
 10.32 p.m.—Coburg City Band:
 Selection, "Recollections of Carl Rosa" (Wallace).
 Selection, "Lurline."
 10.52 p.m.—"Age" News Service, exclusive to 3AR.
 10.55 p.m.—Acceptances for Saturday's Races.
 10.58 p.m.—Weather forecast.
 10.59 p.m.—Our Australian Good-night Quote.
 11 p.m.—"God Save the King."

4QG, BRISBANE.

THURSDAY, 25th OCTOBER, 1928.

EARLY MORNING SESSION.

- 8 a.m.—This morning's news, supplied by courtesy of the Brisbane Metropolitan Daily Newspapers.
 8.30 a.m.—Close down.

MORNING SESSION.

11 a.m. to 12 noon.

MIDDAY SESSION.

- 1 p.m.—Market reports and weather information.
 1.15 p.m.—A lunch hour address.
 1.58 p.m.—Time signals.
 2 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—A programme of electrically-reproduced records.
 3.30 p.m.—Mail train running times.
 4.15 p.m.—This afternoon's news.
 4.20 p.m.—Close down.

EARLY EVENING SESSION.

- 6 p.m.—Mail train running times; mail information; shipping news.
 6.5 p.m.—Dinner music.
 6.25 p.m.—Commercial announcements.

THE CHILDREN'S HOUR.

- 6.30 p.m.—Bedtime stories conducted by "The Sandman."

LATE COMMERCIAL NEWS.

- 7 p.m.—News in brief.
 7.5 p.m.—Stock Exchange news.
 7.6 p.m.—Metal quotations.
 7.7 p.m.—Market reports.
 7.25 p.m.—Fenwick's Stock report.
 7.30 p.m.—Weather information.
 "Lands"—Mr. J. F. F. Reid (Editor, "Queensland Agricultural Journal").
 7.46 p.m.—Announcements.
 7.43 p.m.—Standard time signals.
 7.45 p.m.—Lecturette: "Rural Life in Other

NIGHT SESSION.
STUDIO PROGRAMME.

- 8 p.m.—Studio Instrumental Quartette (conductor, Fred Smith):
Overture, "Queen of the Nile" (Aletter).
- 8.10 p.m.—Billy Maloney and Co:
A quarter-of-an-hour's music and mirth.
- 8.25 p.m.—Kathleen Kelly, soprano:
"The Dream Canoe" (Squire).
"Prince Charming" (Lehman).
- 8.32 p.m.—Studio Instrumental Quartette:
Overture, "Rhinefels" (Gruenwald).
- 8.40 p.m.—C. B. Astley, baritone:
"The Little Irish Girl" (Lohr).
"Grey Days" (Johnson).
- 8.47 p.m.—Margaret Clunes, contralto:
"Remember Me No More" (Robinson).
"Kathleen Mavourneen."
- 9.53 p.m.—Dulcie Jensen, elocutionist:
"The Trials of a Schoolmistress."
"A Night in June."
- 9 p.m.—Metropolitan weather forecast.
- 9.1 p.m.—The sealed envelope in connection with the "Free Trip to Tasmania" will be opened in the Studio, and the winning number announced.
- 9.10 p.m.—Studio Instrumental Quartette:
March, "Show Boy" (Hoff).
- 9.14 p.m.—Billy Maloney and Co.:
A quarter-of-an-hour's music and mirth.
- 9.30 p.m.—May Jordan, soprano:
"The Heart's Awakening" (Ketelby).
"The Flutes of Arcady" (James).
- 9.38 p.m.—The Studio Instrumental Quartette:
Dance music.
- 10.30 p.m.—Late news, weather news.
Close down.

7ZL, HOBART

THURSDAY, 25th OCTOBER, 1928.

MIDDAY SESSION.

- 11.30 a.m.—M'elie Columbia broadcasts.
- 11.34 a.m.—Special Midlands Weather forecast.
- 11.35 a.m.—M'elie Columbia broadcasts.
- 11.55 a.m.—Tasmanian Stations 9 a.m. weather report.
- 12 noon.—G.P.O. Clock chimes the hour.
- 12.1 p.m.—Shipping information.
Ships within wireless range.
Mail notices.
Commercial news.
Housewives guide.
- 12.3 p.m.—M'elie Columbia broadcasts.
- 12.11 p.m.—British Official Wireless news.
- 12.20 p.m.—M'elie Columbia broadcast.
- 12.29 p.m.—Announcements.
- 12.33 p.m.—M'elie Columbia broadcasts.
- 12.55 p.m.—"Mercury" news service.
Produce Auction Sales held at Railway.
- 1.10 p.m.—M'elie Columbia broadcasts.
- 1.30 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Clock chimes the hour.
- 3.1 p.m.—M'elie Columbia broadcasts.
- 3.5 p.m.—Weather information.
- 3.10 p.m.—M'elie Columbia broadcasts.
- 4.15 p.m.—Talk by Representative Child Welfare Association.
"A Prize Baby."
- 4.30 p.m.—During the afternoon Transmission from Royal Agricultural Show Grounds, Hobart. Description of Ring Events.
Close down.

EARLY EVENING SESSION.
CHILDREN'S HOUR.

- 6.15 p.m.—M'elie Columbia broadcasts.
- 6.45 p.m.—A Story told by "The Storey Lady."
"King Harold."
- 7 p.m.—Answers to Letters and Birthday Greetings by "Uncle David."
- 7.5 p.m.—M'elie Columbia broadcasts.
- 7.15 p.m.—"Mercury" special Tasmanian service.
Railway Auction Produce sales.
Weather information.
Hobart Stock Exchange Quotations.

EVENING SESSION.

COME TO TASMANIA.

- 7.30 p.m.—Under the auspices of the "Come to Tasmania" Association, Geo. Booster will speak on:
"Swimming"—"Tasmania for Tourists."

7.45 p.m.—Alderman H. H. Facy, will speak on, "The South African War" 1899-1902.

8 p.m.—G.P.O. Clock chimes the hour.
Fifty Years Ago To-day.

8.5 p.m.—A Short talk on the "Battle of Balaclava"—1854.

8.10 p.m.—Community Singing:
Transmission from Melville Street Methodist Church Hall. Assisted by the Animato Trio.
All, "Minstrel Boy" (Moore).

Gwen Davidson, soprano:

"Swing low sweet Chariot" (Burleigh).

"Morning" (Speaks).

All, "My Bonnie is over the Ocean" (Allans Community Song Book).

Ena Twibell, violinist:

"Paderewskis Minuet" (Kreisler).

"Chant Hindoue" (Rimsky Korsakoff).

All, "When Irish Eyes are Smiling" (Allans Community Song Book).

Dorothy Newton, contralto:

"Still as the Night" (Carl Bohn).

"When Song is sweet" (Sans Souci).

All, "Mother Macree" (Allans Community Song Book).

Gwen Davidson, soprano:

"Mattinata" (Tosti).

"Cuckoo" (Lehmann).

All, "Barcelona" (Allans Community Song Book).

Ena Twibell, violinist:

"Andantino" (Kreisler).

"Cavatina" (Raff).

All, "Drink to me only" (Allans Community Song Book).

Dorothy Newton, contralto:

"The Barque of Dreams" (Clarke).

"Lost Chord" (Sullivan).

All, "All thro' the night" (Allans Community Song Book).

All, "Auld Lang Syne" (Allans Community Song Book).

9.50 p.m.—British Official Wireless news.

"Mercury" special Tasmanian news service, Tasmanian District Weather information, Results of Prizes awarded at Hobart Agricultural Show.

10 p.m.—G.P.O. Clock chimes the hour.
God Save the King.

Registered Trade Mark.

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THEY BRING IN
DISTANT STATIONS

If it's distant stations you're after, use Mullard P.M. Valves. Only then do you know for certain that the range of your radio set is as great as its circuit will allow. Don't handicap a good circuit—get the best out of it by using Mullard valves.

It's the wonderful Mullard P.M. Filament that makes the difference. Its gigantic emission surface ensures improved results and yet it consumes only 0.075 amps. Remember, too, it's "The long filament with the long life."

Every Radio Dealer
Stocks Mullard P.M.
Valves.

Mullard
THE MASTER VALVE

Readers' Queries Answered

AMPLION (GOOMBURRA).—Test the windings of your transformers, and also see that the aerial is not making contact with the roof, trees, or other earthed objects.

WINTER (KIAMA).—The trouble is caused by the grid leak. It must be changed for that specified. No. 18 tinned copper wire is quite suitable.

F.T.B.R. (NEWCASTLE).—You will still obtain undistorted reception by the substitution of the Philips A-415 valve for the valve you are now using in the first audio stage of your Browning Drake receiver. There is no need to change the transformers. The correct plate voltage and grid bias must be used.

J.D.P. (ALEXANDRA).—If you are using the correct type of valve in the first audio stage of your Residyne, and the bias is adjusted correctly on this valve, the receiver will give far superior results with the carborundum crystal than the condenser-leak arrangement. Omitting the crystal will impair the selectivity owing to the basic principle of the regenerative Interflex circuit around which the Residyne is built. As you are using the gauged condenser unit bridged by fixed condensers and your tuning range is too high, it will be necessary to use fixed condensers of a lower capacity.

ACE (WESTON).—The station you heard was the famous Philips International Short Wave Station relayed by some broadcasting station. PCJJ operates on 31.4 metres on Saturday afternoons—local time—and is very strong at present.



Radio Tube Checker

Pattern 107: Junior Tube Checker for testing tubes at home. Equipped with plug and cord so that necessary voltages may be taken direct from any radio set. Adapters supplied so checker may be used with any set equipped with standard sockets.

Button furnished to charge grid bias on tube, thus giving definite measure of value of tube.

Write for
Radio Instrument Catalogue No. 15.c

STROMBERG CARLSON
Australasia Limited.

76 William Street, Sydney.
Phone: F4184 Telegrams: "Strom"

Queries must be brief, and to the point. Under no circumstances will queries be replied to by mail. Readers are requested, therefore, to refrain from enclosing stamped, addressed envelopes.

CURIOUS (GLADESVILLE).—It is only natural that the power valves in your set are hot to the touch. This is quite in order and you need have no fear if the grid biasing is correct.

ELIMINATOR (ENFIELD).—As you have probed almost every avenue for trouble, it seems that by a process of elimination the centre-tap of your transformer is not electrically correct. Try a potentiometer across the outside of the secondary and connect the moving contact to the filament.

A.V.M. (SOUTHPORT, Q.).—The gauged condenser arrangement is quite suitable for the Residyne as any slight variance of inductance is compensated in the shields. The control is simplified, which is a valuable asset.

J.F. (MELBOURNE).—Copper is more suitable than aluminium from the constructional point of view, as connections may be soldered direct. Its weight is the only disadvantage. The "All Empire" receiver will make a very excellent job made in copper.

H.C.B. (FILTON).—The stations you heard were those run by amateurs in Victoria. Many of the 3rd district amateur stations are running 200 metre telephony programmes at present after the main stations close, and their transmissions, although of low power, are in most cases of good quality and well worth listening to.

ELIMINATOR (DUBBO).—The Philips type "B" eliminator will suit your requirements. No alterations will be necessary to your set. The cost of running is negligible.

E.T. (GRANVILLE).—Your experience bears out the desirability of a short aerial of medium height in and around the city. You get 4QG so well because a lot of the interference from local stations is reduced with the shorter and lower aerial.

W. FURNESS

1st Floor Furness Chambers,
King's Cross, DARLINGHURST
Shields, Coils and all Component Parts as used in the Tested 1928 Solodyne, Coils are guaranteed to proper specification. Shields assembled if desired. Terms may be arranged.

TRANSFORMERS

Built up to a specification and wound, lamination iron cut to any size from stock. Prices and estimates on application.

O'DONNELL, GRIFFIN & CO., LTD.,
53 Druitt Street, SYDNEY.
Phones: M 2951 (3 lines).

W.D. (?)—Your eliminator can be used to charge B accumulators by simply connecting the positive of the eliminator to the positive of the accumulator and negatives similarly. The charging will take a day or two, but will be quite effective.

J.A. (MUNDUBERRA).—I do not advise you to use the Go-Getter on the broadcast band. It is essentially a short wave receiver. It is a strange fact that many readers of "W.W." read up a description of a good short wave receiver and then attempt to ruin it by using it for ordinary broadcast reception. "W.W." caters for both sides of the question from time to time. Coils for the 80 metre band will be 18 for the grid and 7 for the tickler.

A NEW READER (ALBURY).—Your circuit diagram is in order except that trimmed condensers should be placed across the sections of the gang unit controlling the two R.F. amplifier. This layout and circuit should give good interstate reception. See that your valves are not faulty.

IF THE RECEIVER ceases to function, it may be due to a burnt out valve. If the valves employed give out a visible glow—this is ascertained at a glance. However, certain makes of valves, such as the Marconi .1 series, Philips B406, Mullard PM series, etc., should show no glow, and the valves in the receiver should be replaced one at a time by a valve which is known to be in good order.

This Week's Specials at Latimers Radio Bazaars

281 George St., and 151 Castlereagh St.

Rechargeable 45-volt B Batteries 14/9

1½ Volt A Cells 1/9

6-Volt Accumulators, with
Chargers 70/-

S.L.F. .0005 Condensers, 12/6,

Now 10/-

Compact Condensers, all types,

5/11

Midget Transformers, 3½ and

5-1 11/-

Pep Punch Transformers, 3½

and 5-1, 10/6 8/5

Harmonique Valves, UX201A,

3/7

Philips Valves, UX201A, 3/11

Large Nickel Torches, were

16/6. Now 5/6

Cabinets, from 5/-

Congress 3 Valve Sets, complete

..... £8/17/6

Variable Condensers, 12/6.

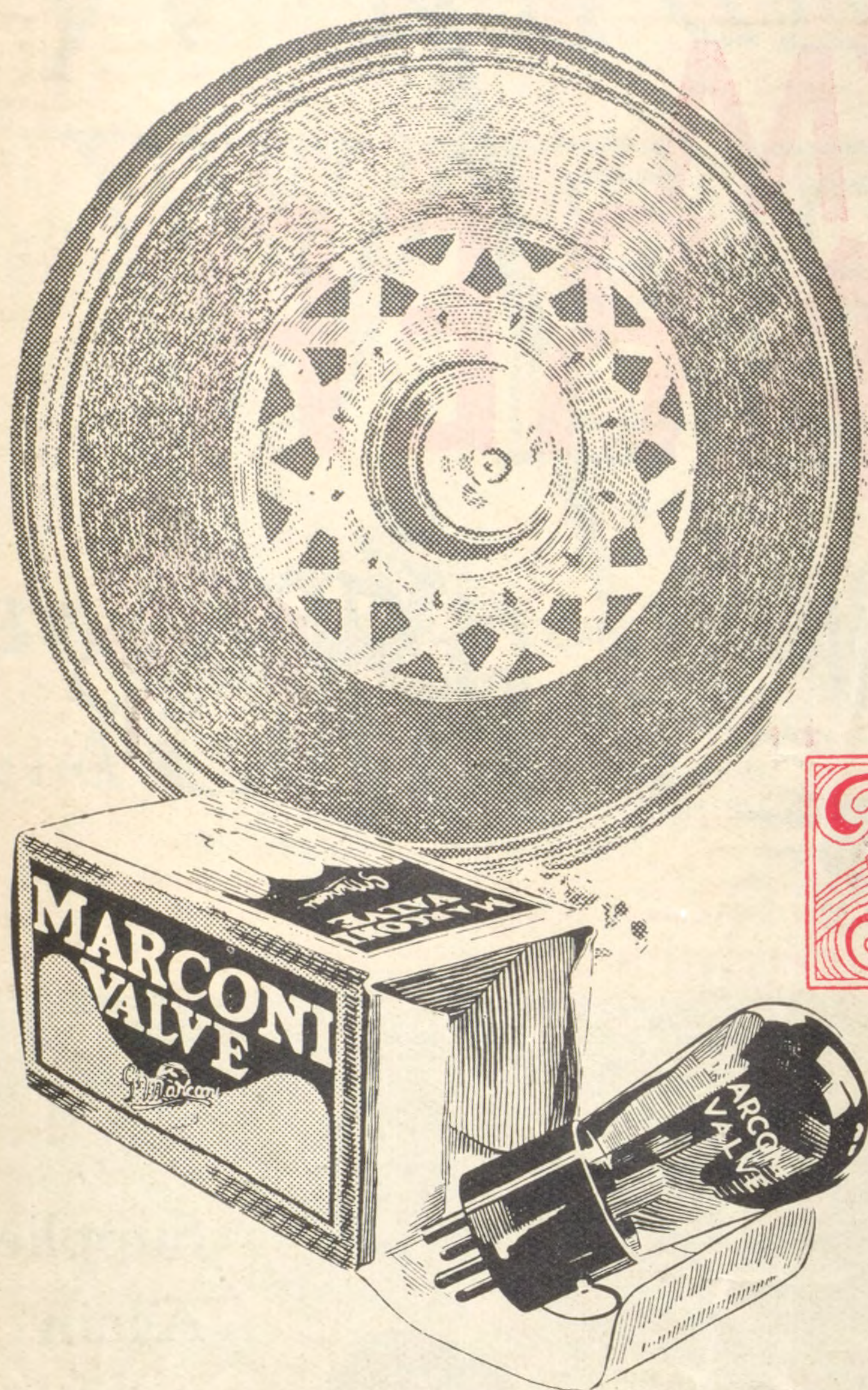
Now 5/6

Trinity 5 Valve Receiver,

£8/10/-

Vernier Dials, 7/6 6/-

For other bargains, call and get one of our Price Lists.



The New Marconi Valves and Speakers

THE proved efficiency of the new Marconi valves and speakers is the result of years of careful research by the engineers of the Marconi Company, England.

Three years intensified research in loud speaker production introduces the ultimate in cone loud speakers—the new Marconi cone—This new loud speaker meets every exacting condition, bringing an entirely new conception of broadcast entertainment.

The new Marconi valves, available in two, four and six volt series, are noted for their economy of operation with regard to both "A" and "B" batteries. They ensure a maximum of undistorted signal strength with a minimum of current.

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