

# 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 5



Friday, May 25, 1928

Price Threepence



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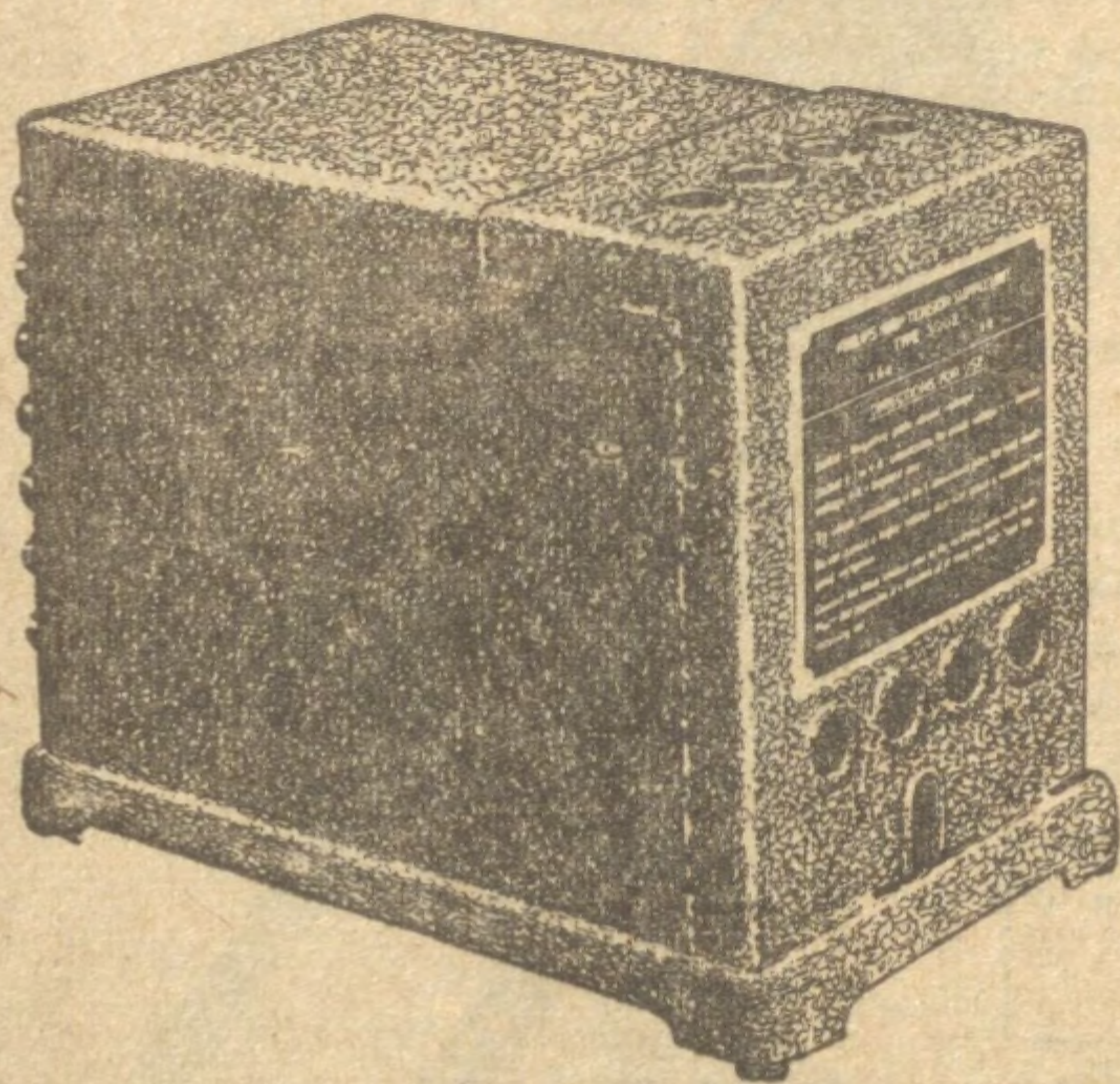


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# WIRELESS WEEKLY

VOL 12. No. 5.

FRIDAY, 25th MAY, 1928.

## *Broadcasting Troubles Still Serious In U.S.A.*

CRITICS of broadcasting conditions in Australia have shown impatience because the negotiations concerning co-ordination of the services of the various companies have been protracted. They seem to think that the control and management of such services are comparatively simple and devoid of intricacy, that the negotiations should have been completed and improvements in the services made over night.

To anyone even remotely acquainted with the activities of a broadcasting company, the idea of making changes hurriedly is almost ludicrous. The immense and diversified volume of everyday work is more than sufficient to occupy fully the time of the main executives, and when it becomes a matter of negotiating with other companies, perhaps equally preoccupied with the responsibilities of providing a different kind of service everyday. The opportunities of early settlement of questions necessarily debatable are so few that the decisions must be reached only after unavoidable delays.

And the critics seldom lift their vision from the conditions in Australia. If they did they would find that the settlement of problems arising out of the extraordinary rapid development of the broadcasting industry are reproduced in some form or other in all the countries in the forefront of progress in radio.

In the United States, for instance, the problem of the control of radio was one of first-class controversy in 1926. Ultimately the agitation that had arisen finished up in Congress. The necessity for vital amendments and additions to the Radio Act of 1912 was forced on Congress by a decision of one of the State Courts, which decided that the Government had no power to effect the essential control and supervision.

Congress passed a new Act placing the control in the hands of a Radio Commission of five members, one from each of five "zones" comprising various States of the Union. The Commission was appointed for one year from January 1st, 1927, at the end of the year the executive control to go to

the Department of Commerce, and the Commission to act as an appellate body. The Commission started out to solve numerous problems, including the "clearing of the ether" of the chaps caused by over 650 broadcasting stations in the States. In New York State alone there were over 60 stations, and the difficulties of tuning out an unwanted station can be imagined.

After taking public evidence from interested parties, technical experts and official observers, the Commission altered some of the stations' wavelengths. These changes were tentative, but were beneficial to listeners, who were thus enabled to listen to a selected station without much interference from other stations. The altering of the wavelengths caused considerable complaints from broadcasters who were shifted off a favourite wavelength.

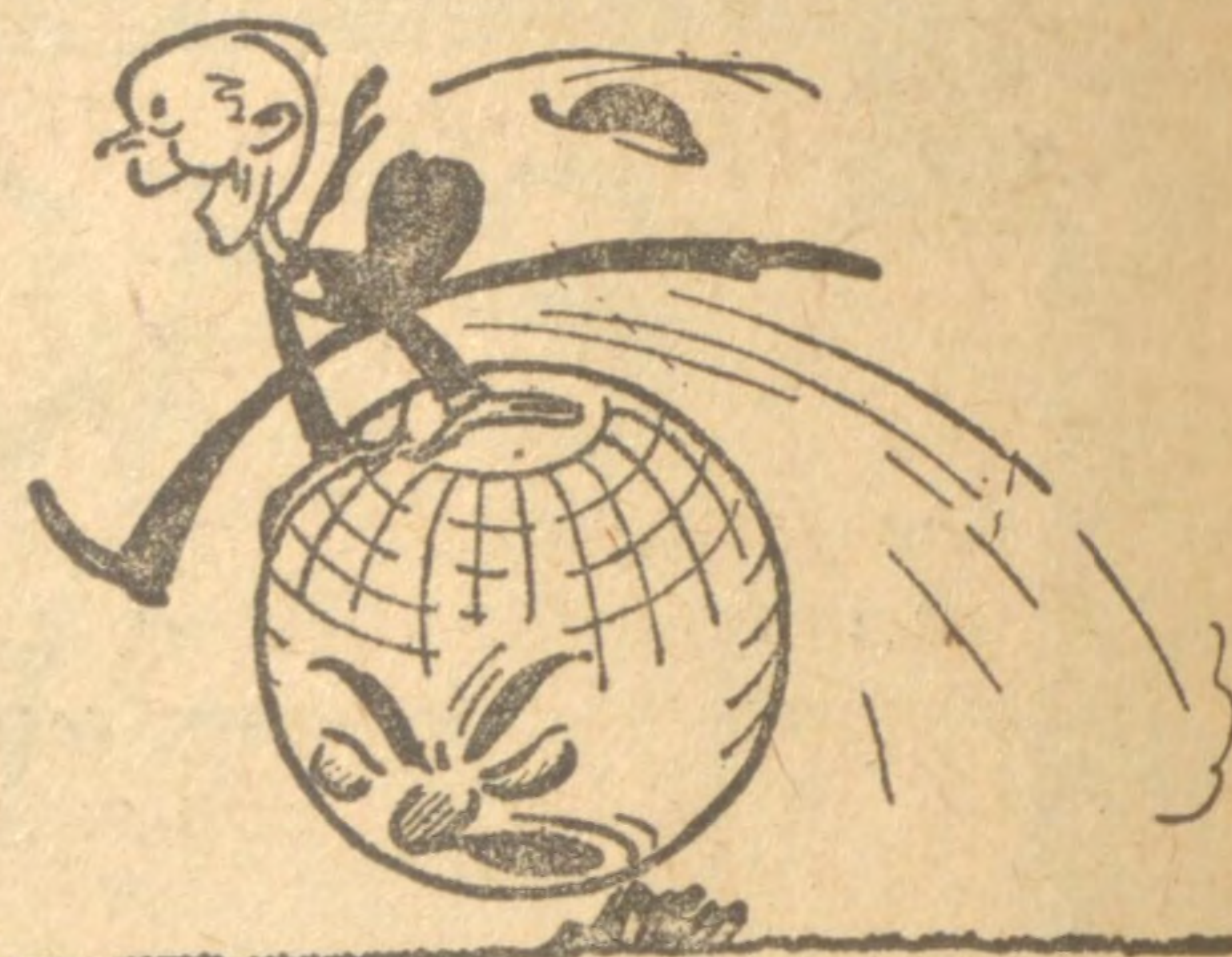
The next proposal of the Commission was to reduce the number of stations, a wholesale "slaughter" was proposed. Of the 650 stations it was proposed to cancel the licences of three hundred. In many quarters this proposal was hailed with joy, but many of the broadcasters saw prospects of extinction, and soon got up the usual agitations and propaganda in political circles. It was then decided that no station licences would be cancelled, as was contemplated in the 300 station scheme, and the Commission was to be relieved of its powers which were to revert to the Department of Commerce. The Commission would continue for a while as an appellate body only.

A novel scheme of redistribution of stations was proposed. Each zone of States was to have a definite proportion of the stations, wavelengths and power allotted. This so-called "equitable distribution" has caused another storm, as it is expected to result in several of the high-power stations being reduced in power, and the Eastern States having a severe reduction in the total numbers of stations. A final decision does not appear to have been reached, but altogether it seems that the difficulties of the situation are much greater than was at first expected.



# Catching Up with the Wireless World.

By R. E. CORDER.



A LISTENER to 2FC, who writes to congratulate the management on the occasion of the official opening of the new studios by the Governor-General, says: "The whole of the proceedings (except the coffee) came through distinctly."

A REPORT on transmission has just been received by 2BL from an ardent radio fan in America, who regrets that the report "will be rather out of date when it reaches you, as we have been snowed out here for several months, and cannot get any mail away."

"THE HELLO MAN" put up a record for calls to his comprehensive radio family, on Saturday night last. So formidable was the pile of letters, as a matter of interest he counted them. When they were all answered, little nephew Errol telephoned excitedly: "How many do you think, Uncle? 129. I counted them!" "And 129 it is," laughed his Radio Uncle, "because I counted them myself."

FOR THE HUNDREDTH time 2FC relayed 2LO on May 15th, from 7 till 8 a.m., corresponding to 9-10 p.m., London time. Reception was fairly good, though uneven at times. At 8 a.m. 2FC relayed the American station WGY. Reception was perfect from this station, and the announcer was remarkably clear. This relay took place from 8 till 9 a.m., corresponding to 5-6 p.m. the previous day in New York.

IN RECENT WEEKS many visitors at the 3LO studios have made reference to the fact that two microphones are now placed in the positions where previously there was only one. 3LO Melbourne had adopted that practice as an additional precaution against the failure of the microphone which is in use. Should the microphone which is in use fail, it would take less than two seconds for the control room engineer to switch on the spare "Mike." The cost of the microphone varies from £80 to £100, but the question of expense does not enter into the calculations when it is necessary to see that the entertainment suffers no interruptions.

THE WIRELESS OPERATOR of the s.s. "Kairanga" has written to 2FC commenting on their programme, which he received on an ordinary crystal set whilst 1120 miles from the transmitting station.

"LOST.—A fox terrier dog, with short legs!" Perhaps the owner thought this human little touch would soften the heart of 2FC into making the desired announcement. They were very sorry for the doggie with curtailed appendages—but they couldn't tell the world about him, all the same.

SO WIDESPREAD is the agitation in South Australia for 3LO to take over the broadcasting services there, that "The Adelaide Register" is conducting a plebiscite to ascertain the strength of public opinion. The questions asked are in the following form:—(1) Are you satisfied with the broadcasting programmes and transmission of 5CL? (2) Would you prefer 3LO to take over A class broadcasting in South Australia. As an indication of the proportion of voters in favor of 3LO, we quote the following figures, which were for the first four days of the plebiscite up to May 11 only:—For 3LO, 220; for 5CL, 38.

2BL RECENTLY called up over the air a number of their regular listeners in America and Canada. Many of the calls were received, some of them travelling 9600 miles direct air line.

THAT BROADCASTING is injurious is an entirely exploded fallacy. No stauncher advocate of this means of keeping in touch is there than Rev. Hugh Paton, who wrote to Mr. Oswald Anderson, manager of 2FC: "We shall be very glad to have you broadcast us on June 3rd, at 11 a.m. You cannot come too often. We find nothing but good results from broadcasting."

AN INTERESTING feature of the work of 3LO Melbourne is its participation in the scientific experiment instituted by "The Herald" and designed to measure the volume of city noises. This test is being made by the Natural Physics Laboratory of the University of Melbourne, which borrowed the instruments necessary for its work from 3LO Melbourne. Only a very few of the sensitive microphones required for a test so delicate and so accurate are available in this country, and these were in the possession of 3LO. During the course of the tests, the city noises under measurement were broadcast by 3LO.

THIS EPISODE DIRECTS attention to the function of a big station as regards research, apart from that of merely entertaining listeners. Before this occasion, 3LO Melbourne experts had worked in conjunction with Professor Laby, and his laboratory assistants at the University in an exhaustive inquiry to determine the strength of signals from the station in various parts of Victoria. This has an important bearing on the relay system one day to be installed. It will be remembered, too, that 3LO has given the sum of £500 a year to the University for the promotion of wireless research. Science marches hand in hand with entertainment, and the scientific personnel of 3LO Melbourne is ever on the watch for opportunities to give service to the community in ways widely different from broadcasting programmes.

## BRUNI BAY

By Bertha Southey Bramwell.

Lying awake I listen  
To melodies glad and gay,  
While stars in the still skies glisten,  
On sheltered Bruni Bay.

Like ghosts the white tents glimmer  
Below the sandy dune,  
And a golden boat in the treetops,  
Saileth the crescent moon.

On the cliffs the gulls are crying:  
And the whisper of the sea,  
With the wind in the she-oaks dying,  
Drifts dreamily in to me.

And on the sands they're dancing  
To your music, 3LO,  
And the crowd is rocking with  
laughter,  
And singing as they go.

While stars in the still skies glisten:  
And the dancers come and go:  
Lying awake I listen,  
To your music, 3LO.



# "Transmission of Thought by Radio"

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

*The following article by the world famous scientist and inventor is made specially interesting in view of the announcement that 3LO will conduct a series of telepathy tests very shortly. Dr. d'Albe discusses here the similar tests conducted at 2LO, London*

HERE is a French saying that the appetite comes with eating." We are already familiar with the broadcasting of music and speech. We are promised practical television in the near future. We shall ask our friends what they are doing and how they are feeling since they left us, and we shall know by their facial expression whether they are telling the truth.

What next? Can anything more be done to tighten the links between man and man? Some say that the last and greatest achievement will be the direct wireless transmission of thought from a master mind to a multitude, an electromagnetic wave of compelling potency and power, requiring not even the medium of speech for preliminary formulation and embodiment, but conveying ideas in flashes, much as a talented actor might convey a whole story by the lifting of an eyebrow.

Is such a thing possible? And if so, is it to be desired?

We all remember the experiments in wireless "telepathy" made by the British Broadcasting Corporation some time ago, and the similar attempts made in Germany. Several persons acted as "transmitters," and concentrated their thoughts on an object shown to them. Simultaneously, listeners were requested to note any impressions crossing their minds, and communicate them to the broadcasting station. Among the objects attempted were a playing card, a skull, and a Japanese drawing.

The results were disappointing. Nothing but chance coincidence could be disentangled from the thousands of answers received. Indeed, if it had been otherwise, it would have been difficult to account for any success on any accepted theory either of wireless action or the process of thought.

If some hundreds of listeners within range of the station had simultaneously received an impression of the ace of hearts, and it turned out that just at that moment the "transmitters" had been gazing at that card and thinking of it, it would have been assumed that the brain was capable of emitting "thought-waves" which other brains in a receptive state might pick up and interpret correctly. Such waves would no doubt, like other

waves, fall off in strength the farther they got away from the source, and there would be a limiting distance beyond which no thought-wave could be transmitted. On the other hand, there would be tremendous power in the immediate neighbourhood of the "transmitter," and no ordinary mortal should be capable of thinking of anything but aces of hearts within a few yards of the source of those powerful brain waves. It would be dangerous, in fact, to enter the room, for anyone doing so would be hypnotised and rendered irresponsible for his actions.

Such a direct transmission of thought from brain to brain would add a new terror to life. Our mental integrity is none too safe as it is. In the towns we suffer from excessive and continuous noise, and the pace at which events and experiences succeed each other is such as to make people nervous and irritable. If, in addition to all this, we have to suffer the impertinence of other people's thoughts in our head, the only thing to do is to retire to a desert island and lead the simple life of Robinson Crusoe.

But, fortunately for our peace of mind, there is not the slightest evidence that such a "telepathological" faculty exists in any ordinary human being. We can, if we choose, keep our thoughts from oozing out and spreading abroad to the possible annoyance of our fellows by simply refraining from giving expression to them. We may, like Hiawatha and his friend, "Speak with naked hearts together," but there is no way of conveying naked thoughts from brain to brain. They must be clothed in appropriate language, gestures, facial expressions, or any of that highly complex system of signals by which the gulf is bridged between one individual and another.

Had it been otherwise, we can imagine some ingenious inventor discovering the rhythms and frequencies characteristic of the various kinds of thoughts. He would then enter them upon something like a gramophone record, and "play" them when required. This would offer a novel solution of the problem of teaching the young, by pouring knowledge into them as through a funnel!

What an opportunity for the broadcasting organisations to mould things closer to their hearts' desire. "Let who will make the nation's laws, but we will make the nation's thoughts." But such more-than-regal power is not for any human organisation. There is a watcher on the threshold of our consciousness who sifts and winnows, ignores and acknowledges, accepts and rejects. You may call it the individuality, or, if you prefer it, the soul. Nothing can enter the sanctum except by a call from within, some response from the vast array of memories, individual and ancestral, which go to make up our personality.

We can only appeal to those memories through the channels by which they were formed. The great orator sways a multitude by evoking images in their minds. He will call up two ideas, incongruous in themselves, and will enable his audience to bring them into harmony along a new and unexpected path. He can do this by word, a gesture, or even an eloquent silence. The nervous tension of the audience is suddenly relaxed, and it dissolves in joyous laughter. He is just as capable of exciting fear, compassion, hatred, or enthusiasm, but he must appeal to the heart of his audience in a language they can understand.

Perhaps the most direct appeal to the emotions is the appeal made by music. A musician can control the feelings of his hearers by suitably selecting the pitch and rhythm, the combination and succession of his notes. You might call his action, in a sense, the wireless broadcasting of thought, or the wireless controlling of emotions. But the effect is never the same in any two persons. Their reactions are too different.

It is not impossible that on special occasions and in the case of specially fitted persons thought is directly transmitted from one mind to another. But the faculty is abnormal, and not under human control. It is one of the many unsolved mysteries of our soul life. But we may take it that the barrier which guards the individual soul is well defended. How else could it exist among the welter of passions, both human and animal, perpetually stirring up the world around us?





# 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.*

## SPORT UNSUITABLE.

Dear Sir,—Being a regular reader of your paper I am writing to you with reference to the Saturday programmes given by the two Sydney "A" Class stations. Take April 28th, for instance, hardly an item during the afternoon that was not sport, and then in the evening mostly dancing and sport, but, of course, after 8 p.m. we were lucky enough to be able to listen in to 2GB, and if they had been on the air in the afternoon I need not have written.

Sometime ago the "A" Class stations were calling for donations to install wireless sets in hospitals, and it is mostly these folk that I am thinking of. Only those that have been ill can know what a blessing wireless is to the sick, but not when an unsuitable programme is on time and again. This only irritates one. It would be different if there were no evening papers, and these as you know, tell all the sporting news and all for one penny.

Yours, etc.,  
FAIR GO.

Balgowlah.

## TIME IT CLOSED.

Dear Sir,—Re Sunday programmes, I quite agree with Mr. E. J. Kennedy ("W.W.," 20/4/28) that it is time this discussion closed. Apparently the B.C. companies are not taking the slightest notice of the large number of complaints which have appeared in your journal. It is about time some other action was taken. Personally, I would like to kidnap Gibson, the Postmaster-General, and make him listen to a Sunday's programme. If my memory serves me, he said in the Federal House, the amalgamation of the two A stations would result in better programmes.

I quite agree with the letters of "Country Girl" and "M.S." in the same issue. They are absolutely correct. More particularly I wish to endorse "M.B.'s" suggestion that a ballot be taken from the holders of licenses only. This would stop the faking of ballots as mentioned by him. I would suggest that the many listeners who have written to you on this matter should meet with a view to taking steps to have a proper ballot taken, only those persons who

hold radio licenses to vote. If any reader cares to move in this matter, please give them my name and address.

I cannot close without some reference to J. C. H. Waldron's letter. He talks about "shutting out our beautiful teaching of Christ." His family goes to church (the best place to learn the beautiful teaching), but does he go with them? O!! ex. dear, no! He listens in at home, instead of showing them a good example by leading them. Because he shirks his duty we are to have an overdose of these services.

Yours, etc.,  
H.W.

Bondi.

## MORE RECEPTION.

Dear Sir,—Yesterday evening I constructed "The Samson Two Valve" set described in the December issue of "Radio," and feel that I must write and tell you of my results with it.

I was only using 22 volts "B" battery at the time, as this was all I had to put on and here are the stations heard (hold your hat on): 7ZL, 4YA (N.Z.), 3AR, 2FC, 2YA (N.Z.), 5CL, 4QG, JOAK (Japan), JOCK (Japan), 3LO, 2BL, 3UZ, 2GB.

The set would not oscillate on wavelengths lower than 2GB's owing to the low "B" battery voltage used. The set is all that could be desired, so far as volume, clarity and selectivity go.

2BL, 4QG, 2FC, 3LO and 3AR are at moderate speaker strength, while there was no interference from 4QG whilst listening to Japan (4QG is 140 miles away).

This set is the goods alright, and I have no hesitation in recommending it to anyone wanting a cheap, reliable set.

This was the first time I had used a set of this kind, and the stations were all logged within half an hour of the set being made.

I am positive my log would have more if I had more "B" battery.

Trusting this report may interest you.

I am, yours, etc.,  
B. PAYNE.

Iluka, Clarence River.

## WITH THE OPTION.

Dear Sir,—Good radio programmes are so frequently spoiled by man-made static that it is high time the authorities (namely the Federal Government) took steps to govern the various sources of interference, and make it a punishable offence to create interference with radio reception, with, say, a fine of £10 or imprisonment. I also suggest the following ordinance be given effect to to deal with the above-mentioned interference with radio reception.

It shall be unlawful for any person to operate any instrument, device or machine of any kind whatsoever, the operation of which shall cause electrical interference with radio reception between the hours of 6 p.m. and 12 p.m., always providing that all reasonable precautions have been taken to obliterate the said cause or causes of interference with radio reception.

The only exception to the above to be X-ray photographs in cases of physical injuries.

Yours, etc.,  
F. W. EVERETT.

Quirindi.

## IMPOSSIBLE.

Dear Sir,—Being a reader of your valuable paper since September, 1924, I should be pleased if you would allow me a small space in your "Safety Valve" corner.

Re all this nagging about our wireless programmes, especially to those who are for cutting out broadcasting church services. Those kind of cranks never think of the people in the back blocks, who may have to travel perhaps ten or twenty miles to a church service. Especially the children who very seldom see a church.

And I will bet that the majority of those cranks who are for stopping broadcasting of services live within five to ten minutes of a church.

It is an impossibility to satisfy the entire listening public throughout the whole programme. And I think our programmes are second to none. But finally I might say we could have a little more steel guitar music, which is popular with nearly everybody.

Yours, etc.,  
L. L. HAMILTON.

Auburn.



# Race Results from 2FC or 2BL?

INTEREST is centred at present on the subject of the most suitable wave-length for racing broadcasts. The fact that both the "A" class stations in Sydney have lately each had turns at broadcasting these descriptions, has had the effect of stimulating interest in turf broadcasts. It has also encouraged the supporters of each station to write or telephone the respective stations, stating which they prefer for this particular service.

2FC and 2BL's racing commissioner requested (during transmission of the races) that listeners write to the station they favor. As a result, 2FC have to date received over fifteen hundred letters. In many cases, petitions, carrying as many as fifty names, were received. The Studio Manager (Mr. Anderson) estimates that these letters represent the desires of approximately four thousand listeners.

2BL, also, have received several hundred letters, and quite a number of petitions. One listener, who gave his address at Myrtle Street, City, offers to collect 200 signatures.

A lady, who chiefly esteems 2FC, remarks: "I am a nurse, restricted to the rooms of a house all day long, and I think the Racing Commissioner's descriptions, as heard over the air, are beautiful. When he is nearly blown off the stand, and says he will be glad to get home for a hot cup of coffee, how I wish I could send him cup after cup of home-made coffee. I wonder if he can feel all the good wishes that we listeners have for him!"

Another writes to say that her husband is an invalid, and spends a good deal of his time listening in. She states that many friends depend on them for the results of the races, and adds: "I am sure there are more people interested in the races than there are wowsers!"

Another listener, writing to 2FC, says: "We, in this domicile, consider our humble selves no small pumpkins in the role of unbiassed critics. Your man is the Limerick of announcers, and, as for his notes and comments concerning the horses, trainers, owners, and jockeys—well, he knows what he's talking about." The writer states that his family does not know Mr. Ferry (2FC's Racing Commissioner) from a "bar of soap," but adds "We like to include him in our Band of Hope, as we are always hoping to be on a 20 to 1 chance, and land it."

A grazier, at Walmer Downs, Balranald, has informed 2BL that he has no difficulty in picking up this sta-

tion at any hour of the day on the loud-speaker throughout the year, although he is 450 miles from Sydney. "Your Racing Commissioner," he writes, "is to be complimented on his splendid calling of the races. He does not make the mistakes that some others do, of running back through the field when the horses are well in the straight, and giving the positions of horses that have not the proverbial thousand-to-one chance."

Another listener, writing to 2BL, says: "I am decidedly in favor of 2BL; their man gives a good account of all the runners, in their different positions; in fact, his descriptions are better than any newspaper reports," and concludes with: "I know comparisons are odious, but I can't help it."

Sharp and to the point is a letter received from a listener at Woollahra, whose full letter reads: "Dear Sir,—Re your racing Describen, I prefer 2BL, and Oblige."

From Randwick, a prominent man has forwarded his vote in the form of a topical chorus, to which tune 2BL sing the important news items every evening. The verse received reads:—

"Two Racing Commissioners are now in a plight,  
Contesting selection in the 2FC-2BL fight.

As to who shall broadcast the races, you see;

Well, the man named 'Mick Ferry' will always do me.

Tune in; tune in; and do it right away;

You'll hear the snappy racing chat From 2FC to-day!"

Another listener, writing to 2BL from Five Dock, also votes for 2FC. He says: "I think I can reply briefly, and to the point. Let 2FC do it. I

write in this strain because of the wonderful personality of Mr. Basil Kirke, in his intriguing descriptions of the football matches. His brightness and keen knowledge of the game make a dull afternoon bright. Those who like racing can thus listen to 2FC, and those who like other forms of sport to 2BL. Musical items can be interspersed for those who do not care for sport, though I do not think it is asking too much to devote one afternoon a week to sport."

The management of both stations are emphatic on the following point. The present discussion in no way interferes with the good relationship that exists between the two stations. The plebiscite is to be carried out in listeners' interests only, and both stations desire that the station that can manage these broadcasts to better effect shall control them.

It may be remembered that 2BL were the first to approach the A.J.C. for permission to broadcast the racing from inside the grounds, but later an agreement was entered into with 2FC, whereby both stations were able to take these transmissions in turn. According to numerous reports, listeners in Newcastle receive 2BL better than 2FC, whilst exactly opposite is the case with other country or distant districts.

Now, as a bombshell, comes the news that racing broadcasts are to be prohibited, as revenue through the telegraphs has been greatly reduced, owing to the fact that radio supplies requirements in a shorter time than would a telegram, or a newspaper. In the last issue of "Wireless Weekly" a ballot coupon was inserted, and this will be published for two or three weeks, in order that listeners may vote for the station they favor.

*In order to test the opinion of listeners-in regarding the proposed prohibition of Broadcast Race Results, or the restriction of the results to either 2FC or 2BL instead of results by both stations as at present, we invite readers to cast their votes in the following questionnaire:*

- |  |   |
|--|---|
| 1. Are you in favor of racing broadcast descriptions? <input type="checkbox"/> | 4. Or do you like intermediate transmissions from both stations? <input type="checkbox"/>                               |
| 2. If so, do you prefer the descriptions from 2FC? <input type="checkbox"/>    | 5. Are you in favor of leaving racing broadcast descriptions out of the programmes altogether? <input type="checkbox"/> |
| 3. Or do you prefer the descriptions from 2BL? <input type="checkbox"/>        |   |

NOTE: Place a cross opposite your preference and forward coupon to "Racing Ballot," "Wireless Weekly," 51 Castlereagh Street, Sydney.



# 3LO Sporting Notes

## Winter Swimming.

THE ARRIVAL of winter does not mean the cessation of swimming activities in Melbourne this year, for 3LO Melbourne and the Victorian Swimming Association, acting in conjunction, will conduct an extensive swimming campaign throughout the winter months.

The first announcement of details of this interesting new departure will be made by the honorary general secretary of the V.S.A. (Mr. A. W. B. Fawcett) from 3LO Melbourne, on Tuesday night, June 5.

The object of the campaign will be to improve swimming generally, so that with the return of warm weather, Melbourne will be in an enviable position in the swimming world.

That this laudable objective should be reached is indicated by the fact that the noted German swimmer, Gustave Froelich, who is residing in Australia, will be the instructor. Froelich is recognised as one of the greatest authorities on swimming to ever visit the Commonwealth. He has a splendid style, and should be able to do much for swimming in this state.

All swimmers will be interested in this feature, and should be sure to tune in 3LO on Tuesday night to hear further and fuller details of the experiment.

RESULTS of the Victorian Railways Institute Amateur Boxing and Wrestling Tournament will be broadcast at 11 p.m. on May 29 and June 1 from 3LO Melbourne. Considerable interest attaches to these contests, and many listeners are sure to be on the lookout for the results.

THE RESULTS of women's hockey matches played on the Saturday and Monday (King's Birthday) will be broadcast from 3LO Melbourne on Monday night, June 4.

FULL DETAILS of the boxing and wrestling tournament being conducted by the Victorian Railways Institute on Tuesday and Friday, June 5 and 8, will be broadcast from 3LO Melbourne at 11 o'clock on each of those nights.

DESCRIPTIONS of all of the races to be held at Aspendale Park on Wednesday, May 23, will be broadcast by 3LO Melbourne.

WITHIN the next two weeks, descriptions of the following race meetings will be broadcast by 3LO Melbourne:—May 23, Aspendale Park Racing Club; May 26, Moonee Valley Racing Club; June 2, Victoria Racing Club; June 4, Victoria Racing Club; June 6, Ballarat Turf Club; June 9, Moonee Valley Racing Club.

ON SATURDAY, May 26, 3LO Melbourne will broadcast descriptions of the racing at Moonee Valley. In view of the near approach of the jumping season, racegoers will display a great deal of interest in the Federal Hurdle Race and in the Commonwealth Steeplechase. Many good horses have run in those two races, and last year Coybeau presaged his Grand National Hurdle Race victory by running Bernbanks to two lengths in the Federal Hurdle Race. The Moonee Valley Club will give a stake of £400 to the hurdle race and £600 to the steeplechase, so that it is encouraging the best class of jumpers to run at its course.

WITH THE KING'S Birthday meeting to be held at Flemington on June 2 and 4, the jumping season in Melbourne may be said to open. Four jumping races on the two days will interest racegoers greatly in view of the fact that the Nationals will be run on the same course four weeks later. 3LO's sporting commissioner, Eric Welch, will describe all of the races at the meeting over the air, and from his position on the top of the old grand stand, he has such an excellent view of the racing, that racegoers can look forward to some thrilling descriptions of the jumping.

MANY listeners-in will appreciate the latest innovation by 3LO. That is the talk by Eric Welch, 3LO's sporting commissioner, on the morning of each race meeting. The track work of the morning will be considered, and special late selections will be made by Mr. Eric Welch, who will leave immediately after each talk for the races, where each event will be described by him. Racegoers will appreciate this talk, as on many occasions it will be possible to advise racegoers of the best track gallops of the morning, and also of horses who will be unlikely starters. The talk on the morning of the races will be additional to the Friday night talks.

ACCEPTANCES for the Moonee Valley races, to be held on Saturday, May 26, will be declared at 3 o'clock on Thursday, May 24. The horses left in when the acceptances are declared will be broadcast by 3LO as soon as available on the afternoon of May 24. Acceptances for the first day of the V.R.C. King's Birthday Meeting will be declared at 3 o'clock on Thursday, May 31, and they will be broadcast by 3LO Melbourne. For the V.R.C. races barrier positions will be broadcast also.

## Vagabonds All.

By "Mintie."

Why so solemn, why so blue?  
Is the whole world sad, to you?  
Have you had your share of down?  
Cheer up now, and lose your frown,  
Listen-in, and soon you'll know,  
There's Vagabonds at 3LO.

Soon your toes will start to tap,  
Soon you'll be a happy chap:  
Lose your blues, and shake your toes,  
Coax your smile, forget your woes:  
Listen-in, and soon you'll know,  
There's Vagabonds at 3LO.

Vagabonds, they have no care,  
Smiles for all, and some to spare:  
Say, does that appeal to you?  
S'posing you turn Vagabond, too.

Put aside your dismal thought,  
Sobs and sighings pay for naught:  
3LO's the happy call,  
Listen, and be VAGABONDS ALL.

## BOOST FOR BATHURST.

### Local Broadcaster.

Not only do listeners of the Bathurst district enjoy the broadcasts from the local station, 2MK, but reception far afield is periodically reported. Reports come from not only New South Wales, but from listeners in South Australia, Queensland, and Victoria. This is noteworthy, as the input of 2MK is only 30 watts (as compared with 5000 watts used by the Sydney stations, 2FC and 2BL), and the actual output only 15 watts.

Recently, among reports received were those from Moonta, a town south-west of Adelaide, where excellent reception was made. Other reports are to hand from Ipswich (Queensland), Warrnambool, on the south-west coast of Victoria, and Shepparton, Victoria.

One particularly fine report was received from Mr. R. J. Wilson, a radio dealer in Violet Town, Victoria. He states that he listened to the programme broadcast on April 30 last. The items Mr. Wilson heard was a talk on battery charging, "The Warbler's Serenade," "The Whistler and His Dog," and "Hustling Hinkler." These items were received on a five valve receiver at full speaker strength, the modulation being quite equal to any of the "A" class stations; in fact, better than they are sometimes.

MR. J. M. PRENTICE, the original Uncle Jack, of 2BL, has returned to the broadcasting world again to create interest in a number of varied topics which he is discussing from 2UW. Listeners are invited to write him should they desire talks on any particular subject.



# 2FC Notes and News

*"Mr Pim Passes By"—Old Time Night—Henry Penn Recital  
Empire Day Transmission—"E. R. Sterling" Epic.*

RUTH FURST'S cooking talks from 2FC have undergone a slight change in routine. She will be heard on Monday, Wednesday and Friday in future, at 11.15 a.m.

DULCIE CHERRY: Appearing with such success in the Allan Wilkie productions, will sing from 2FC on Sunday night, 27th May, after the church service. Miss Cherry's work is well known to 2FC listeners, although it is some time since they have had an opportunity of hearing her. Her voice is of the clear, sweet quality which broadcasts so well, and her return to the ether will be accorded a warm welcome.

"MR. PIM PASSES BY" is the next production by the H. W. Varna Company, at 2FC Studios. Listeners complain—ever so gently—that Mr. Varna's plays are programmed too late in the evening. 2FC have given serious consideration to the advisability of an alteration, which will probably be effected in the near future.

OLD-TIME MELODIES: Guaranteed probably to make direct appeal only to those of the older generation there is yet a certain fragrance about melodies of a bygone day which will never fade. Under the name of "Lloyd Santley"—and surely there could be no happier choice—a well-known baritone to 2FC listeners has arranged to sing the songs of yesterday. His first group is programmed for Saturday, 26th May.

HENRY PENN: It is with regret we learn Mr. Penn has decided to take up residence in Melbourne permanently. He has been offered an appointment in the "Garden City of the South," which will afford his ability as conductor full scope. Although he will devote most of his time to conducting in future, he will not forsake his pianoforte work altogether. Mr. Penn made a hurried trip to Sydney on Monday last to complete his affairs here, and 2FC were quick to take advantage of the opportunity of arranging a farewell recital, on Thursday, 17th May. His group of solo numbers were well chosen, and Mendelssohn's "Capriccio brillante," which he played with the orchestra, was rendered with masterly interpretation.

MR. MOTLEY AND MR. MEDLEY: No, Mr. Medley and Mr. Motley—as Mr. Medley explained: "We like to be in our proper order!" Their act with judicious handling will prove a veritable gold mine to listeners appreciative of a keen, right up to the mark humor. Quips and drolleries written about topics not merely of the day but of the hour. Quick, sharp witticisms, a running fire of clever patter, and tuneful nonsensicalities which do much to brighten the zero hour for the tired business man.

ROYAL SYDNEY APOLLO CLUB, whose work is always well received over the air, will be broadcast by 2FC from Beale's Concert Salon on Monday evening, 28th May.

SYDNEY MALE CHOIR, whose recent successes in Newcastle have brought this well-balanced combination to the fore, will give a concert in the Conservatorium Hall on Saturday night, 26th May. 2FC have arranged to broadcast two groups of numbers during the evening.

ON EMPIRE DAY 2FC arranged the transmission of a special celebration programme from the Intermediate High School, Kogarah. Addresses were given by Sir Joseph Cook and Sir Charles Rosenthal, and over 2,000 pupils sang stirring patriotic choruses. A unique feature of the programme was the Australian bird calls, given by pupils of the school.

MANON LESCAUT forms the theme of Roland Foster's lecture-recital on Thursday night, 31st May, from 2FC. This is in continuation of the series of grand opera talks which 2FC were able to arrange with Mr. Foster, dealing with the lesser-known opera in view of the forthcoming season.

FRED SCHOLL: On Wednesday, 30th May, 2FC have been privileged to arrange an interview with Fred Scholl, the Wurlitzer organist at the Capitol Theatre, from his dressing room. Mr. Scholl has much to tell listeners of his activities, and the ten minute chat will prove of wide interest.

"LONDON IN 224 DAYS": The memorable journey of the six-masted barquentine, "E. R. Sterling," is still fresh in the minds of listeners. Loaded with wheat for the English market, she left Adelaide anticipating the journey to London would be covered in 80 days, but it took over seven months to accomplish the trip. The story of where she wandered and the thrilling experiences of the crew were told by Wireless Officer Anderson, who signed up on the "E. R. Sterling" looking for adventure on the high seas. How he got more than he bargained for provided ten minutes' excitement for 2FC listeners on Sunday night last. His story will appear in a coming issue of "Radio."

## Coming Features of the Week.

### Talks

FRIDAY, 25th MAY:

3.15 p.m.—Madame Evelyn Grieg: "The Sonata and the Symphony."

7.45 p.m.—W. F. Kay: "Edmund Kean."

SATURDAY, 26th MAY:

11 a.m.—"Redgum": "Gardening."

MONDAY, 28th MAY:

11.15 a.m.—Ruth Furst:

"Cooking Talk."

WEDNESDAY, 30th MAY:

11.15 a.m.—Ruth Furst:

"Cooking Talk."

6.50 p.m.—D. Stewart:

"A People's University."

7.45 p.m.—Interview with Fred Scholl Capitol Theatre.

THURSDAY, 31st MAY:

6.50 p.m.—Dr. Arthur, M.L.A.:

"Health."

### Church Services

SUNDAY, 27th MAY:

11 a.m.—Christ Church St. Laurence.

7 p.m.—Petersham Congregational Church.

### Music — Comedy — Drama

FRIDAY, 25th MAY:

8 p.m.—1st Act of "Princess Charming," by courtesy of J. C. Williamson, Ltd.

SATURDAY, 26th MAY:

8 p.m.—Sydney Male Voice Choir, from Conservatorium of Music.

SUNDAY, 27th MAY:

9.30 p.m.—Dulcie Cherry, soprano:

MONDAY, 28th MAY:

8.10 p.m.—Royal Apollo Club, from Beale's Concert Salon.

TUESDAY, 29th MAY:

8.15 p.m.—Lionel Lunt, baritone, in "Old Comic Opera Memories."

WEDNESDAY, 30th MAY:

8 p.m.—Capitol Theatre: Ted Henkel's Orchestra of thirty members. Fred Scholl at the Wurlitzer Organ.

9 p.m.—H. W. Varna Company:

"Mr. Pim Passes By."

THURSDAY, 31st MAY:

8.15 p.m.—Clifford Lathlean, baritone



# 2BL Features

## Rugby Football Descriptions — Carillon Experiments

THE FIRST match between N.S.W. and the English Rugby team, will be broadcast by 2BL on the 2nd June. 4QG will re-broadcast the transmission in order that Queensland radio fans may follow word for word the exciting descriptions.

THE TALKS given by Uncle Bas of 2BL on the Near East and the Islands have provoked the interest of many schoolmasters and schoolmistresses, who have written, saying how they appreciate this method of teaching history and geography to their pupils, who seem to be able to grasp and to hold better such knowledge when it comes over the radio.

WHILST MR. KIRKE, of 2BL, was describing the Rugby League Football match last Saturday, the officials requested that room be made beside him for an old League player who had lost his sight. So vivid were Mr. Kirke's descriptions that before long the blind man was discussing the qualities of some of the players, and the chances of the game.

ON SUNDAY, May 27th, a special service is to be transmitted by 2BL from the Y.W.C.A., Sydney, to which all women's clubs have been invited. Incidental music of a high order is to be broadcast, and a special talk will be given by Miss Constance Duncan, M.A. Miss Duncan has had wide experience with various young women's clubs in Japan and Australia.

IN AN ENDEAVOR to find the best spot for the microphone during the transmission of the carillon, 2BL experimented last Sunday with four microphones, placed in various positions adjacent to the chimes. Listeners were invited to write to the station, and great interest is being manifested. The result will be announced in "Wireless Weekly" shortly.

BAND AND ORCHESTRAL music is in great demand from the broadcasting stations, and 2BL have been to some trouble to appease listeners' desires. The Rose Bay Wintergarden Symphony Orchestra will broadcast bi-weekly, in addition to the following transmissions: Manly Municipal Band, Tooth's Band, North Sydney Tramway Band, Ashfield Municipal Band, Leichhardt District Band, The Silver Quartette, The Railway and Tramway Orchestra and others.

2BL WILL broadcast descriptions of the Rugby football matches to be played here by the Queensland team. The transmissions will be picked up and relayed by 4QG.

EMPIRE DAY celebrations in Martin Place will be broadcast by 2BL. It is expected that his Excellency the Governor, Sir Dudley de Chair, will speak.

## The Women's Session

(Conducted by Dorothy Jordan, 2BL)

NAMING THE HOME!—"I listened in this morning and was delighted with the name 'Wai-lutu' for our lakeside home. The meaning is very appropriate, as our house faces the east and the sun on the dancing, rippling water is just a picture and worthy of the name. Very many thanks for all your kindness and trouble. Also thanks to the gentleman in the Studio who suggested the name, and who, I think, I have heard many times lecture on the Islands, and who I have rather a strong suspicion is none other than 'Alki,' who was always desirous of 'raising the wind.' I have listened for about three years on a five valve set, and as I live a great deal alone, wireless voices are the only ones I hear some days."

Another Radio fan, who has lately built a home inland, surrounded by trees and bush, asks me to name her new house, so we have sent her another Polynesian name, "Vale-dina," meaning "My beautiful home."

THAT BUGBEAR FAT!—Letters still come in begging for our diet chart, and advice about reducing. Listeners complain of shortness of breath, inability to walk upstairs, and heart troubles, and are willing to try any means, or diet, which will reduce their weight. The diet chart has been a great help to thousands of our listeners in.

DR. HARVEY SUTTON, Chief Medical Officer to the Education Department, says that the adolescent girl must have recreation, if she is expected to make mental progress. Such sport as basket ball, lacrosse, hockey and tennis are all good. Dancing, singing and deep breathing all help to correct defective posture. Sport increases the power of the muscles. Suitable garments should always be worn.

IMPORTANT FACTOR: A most important factor in health is sleep. A girl of fourteen should have ten hours

in bed, from sixteen to nineteen she should be in bed for nine hours.

Allow less starch food for the adolescent and more fruit and vegetables. Green vegetables, fresh fruit, 2½ pints of water daily, exercise one hour daily, out of doors.

HOME WORK: The maximum of home work is: For twelve years of age, one hour per day. For fourteen years of age, two hours per day. For sixteen years of age, two and half hours per day. It is difficult to make people understand that overwork, bad and insufficient sleep take their toll in the end.

JEAN GORDON, foot specialist, says: "To suffer from cold feet is one of the minor ills of life. It is certainly not so bad as neuralgia or toothache, but the trouble will occur with monotonous regularity every winter, and the feet cannot be got rid of as an aching tooth can. Girls who have to spend the whole of the day in a shop, office or factory, should try to walk part of the way to work in the morning. If they can get up a glow of heat all over the body, it will last for a considerable part of the day. In order to do this it is worth while to rise a few minutes earlier in the morning."

PAINFUL JOINTS. A bunion is an inflammation of a little sac over the big toe joint on its outer side. This inflammation may go on to suppuration. It is almost always caused by the big toe being pushed out of its proper position and pressed against the other toes. The first thing to do to relieve the pressure is to get a shoe with a wide comfortable toe to it, so that the big toe can be straightened out a little. The straightening out can be done by putting a piece of cotton wool or lint between the first and second toes. If the bunion is very painful it is well to wear a soft slipper for a few days and apply iodine ointment over the inflamed part. A bunion pad or ring can be procured from any chemist.



# In the 3LO and 3AR Programmes

*Wurzel Flummery—University Symphony Orchestra —“ Paul Jones ”*  
*Jack Lumsdaine—Russian Songs*

MISS ISOBEL BIDDELL, the popular 3LO contralto, will be on the air during the week commencing on May 28.

MRS. CLARENCE WEBER will give an interesting talk on Physical Culture during the Women's Hour on Wednesday, May 30.

THE ONE-ACT COMEDY, "Wurzel Flummery," will be produced by Mr. Terence Crisp, and broadcast from 3LO Melbourne on Friday night, June 1. Listeners should listen in to this amusing farce.

THE STORIES of the operas series will be continued by Mr. William G. James from 3LO Melbourne on Wednesday night, May 30. Incidental music, supplied by the station orchestra, always lends added interest to these discourses.

WHAT SHOULD prove a most interesting talk will be broadcast from 3LO Melbourne by Mr. William Tainsh on Tuesday, May 29. Mr. Tainsh has made a study of Scots and Irish folk lore, and will hold his listeners enthralled.

HOW MANY PEOPLE realise how children of the poor live in winter? Rev. R. G. Nichols, a noted slum worker, of St. Mark's, Fitzroy, will answer that question when he speaks from 3LO Melbourne on the subject on Thursday, May 31, during the Women's Hour.

HOWARD ANDREWS is one of the most popular baritones in Melbourne, and is delighting listeners to 3AR with his singing of classical and light operatic selections, as well as old-time melodies. Mr. Andrews sings with considerable feeling and refinement, and when he is in the programmes, many dials are turned to 3AR's calibrations.

THE UNIVERSITY Symphony Orchestra will broadcast a programme from 3LO on Friday night, June 1. When it is remembered that about 100 instruments go to make up this great orchestra, and that it is conducted by Professor Bernard Heinze, listeners look forward with keen anticipation to the broadcasting of their programmes, which, by the way, include many numbers by leading vocalists from the University Conservatorium.

OF SPECIAL interest to French students will be the talk from 3LO Melbourne, by Madame Seward on Tuesday night, May 29.

AN ORGAN RECITAL from St. Peter's Church will be broadcast by Mr. C. E. Monteith on Wednesday, May 30. Mr. Monteith is well known to 3LO listeners, who are always sure of a most enjoyable programme.

OF 3LO FAME, the Moana Lua Duo are now broadcasting at intervals from 3AR. This steel guitar duo with their lilting melodies of old Spain and the Southern Seas are listened to with very great pleasure.

COMPARATIVELY little is known about Adelaide Ironside, but Mr. J. Howlett Ross will tell women during the Women's Hour on Friday, June 1, that she was an interesting Australian woman and painter.

ON TUESDAY NIGHT, May 29, Miss Mary Campbell, of the Albert Street Conservatorium, and her pupils, in conjunction with the Gypsy Players, will broadcast a special programme from 3LO Melbourne. The works of Haydn and Mozart will be featured.

SENIA CHOSITAKOFF, the noted Don Cossack Choir tenor, will broadcast further items from 3LO Melbourne on Sunday, May 27. He has a delightful voice, and should be heard to advantage in "Amor ti Vieta" (Umberto Giordano) and "The Light Shades" (Zuboff). He may also sing other pieces.

A WELCOME RETURN visit to Studio 3LO is being made by Jack Lumsdaine, who during his previous broadcasting season made a host of friends. Listeners are familiar with the "whispering ballads" which form the greater part of the entertainment provided by this versatile artist, whose perfect enunciation and wonderful powers of expression, together with the happy knack of being able to get his personality over the air, make his contributions to the programme of more than usual interest. Added to this, Mr. Lumsdaine is a pianist of much above average ability, and he is never so happy as when improvising an old-fashioned melody, and showing how an evergreen favourite, like "Annie Laurie," can not only be transformed into a march or waltz, but, with the addition of a little jazz trimming, can be made a most up to date young lady.

THE BRUNSWICK TRAMWAY'S BAND will broadcast a programme from 3LO on Sunday, May 27.

SOMETHING NEW in the way of band music performers is announced for Wednesday night, May 30, when the Victorian Police Band will broadcast a concert from 3LO Melbourne.

THE WESLEY CHURCH CHOIR will broadcast from 3LO Melbourne on Sunday, May 27. Lovers of choral music are assured of an enjoyable programme.

LOVERS of Russian songs will welcome the announcement that the gifted soprano, Madame Mina Heseleva, will again sing from 3LO Melbourne for a season, commencing on Monday, May 28.

REV. WILLIAM BOTTOMLEY will begin a new series of talks entitled "The 19th Century Humanists" from 3LO Melbourne on Thursday afternoon, May 31. The subject of his opening address under this heading will be Dr. Southwood Smith.

TILTON AND WEST, popularly known to 3LO listeners as "The Joy Boys," will continue their season at the Studio during the week beginning Monday, May 28. They have earned many friends with their bright patter and tuneful singing, and a continuation of their broadcasting will be welcomed.

A STUDIO presentation of the musical numbers of "Paul Jones" will be a feature of the programme to be broadcast from 3LO on Monday, May 28. The feature is in the capable hands of Madame Ashton and Mr. Maurice Dudley.

DETAILS of the work of the Travellers' Aid Society will be given in a talk to be broadcast from 3LO Melbourne on Tuesday night, May 29. The information should be of particular interest to country girls who anticipate coming to Melbourne, and to their mothers.

THE FOUNDERING of the "Cut-terthun," and the salvaging of her gold, forms the subject of a fascinating sea story, and when told by Mr. Dickson Gregory from 3LO Melbourne it loses nothing of its punch. Listeners should be sure to tune in for this talk on Wednesday night, May 30.



THAT MUCH of the success of the Melbourne Concert Orchestra and the Ayarz Dansonians at 3AR is due to Ronald Brearley, the popular director of these two bands, goes without saying. Mr. Brearley is untiring in his energies to give listeners the best music possible, whether it be classical or jazz, and he has succeeded in a marked degree in establishing that harmonious team work among the members of his orchestras which is so necessary for successful productions. Mr. Brearley is also heard from 3AR in many delightfully rendered 'cello numbers.

THE BOY SCOUTS' camp fire concert series is proving one of the most popular ever conducted by 3LO Melbourne. Boys all over Victoria are listening in to the concerts with great interest.

On Monday night, May 28, the 1st Kingsville Troop will be on the air, on Tuesday night the 1st Hampton Troop will broadcast, on Wednesday night it will be the 1st Camberwell Troop, on Friday night the 1st City of Brunswick Troop, and on Saturday night the 1st Carlton Troop.

ONCE UPON A TIME a youth with a female voice was looked upon as a freak of nature, but now many boy sopranos and contraltos are world famous. Robert Allan, who broadcasts from 3AR Melbourne, is a male alto with what may be termed a remarkable voice. It is almost flawless, and never shows the slightest sign of breaking even when he takes the top notes of a contralto's range. Young Robert is now a youth, but listeners hope that he will retain his rich voice for some time to come, with which to charm them over the air.

THAT VERY BRIGHT and cheery musical combination, the Tom Katz Band, have been adding considerably to their laurels at 3LO Melbourne, where their tuneful and clever contributions to the programme have been much to the liking of listeners. The band consists of the Six Crooning Bell Boys, who claim to be saxophonists of a somewhat "different type" to those which have gone before, and listeners will agree that their claim is amply justified. Each member of the band is a master of his art, and they go to demonstrate, both individually and collectively, that, in the hands of the artist, the saxophone can really be a thing of beauty and a joy for ever, also, it can be made to live up to the title of their band! The Bell Boys have a most extensive repertoire, including the very latest jazz and "blue" numbers, whilst classical and operatic selections also form part of their well-balanced programme. Their next season begins on May 28.

WITH SO MANY magazines on our bookstalls, this may be said to be the era of the short story, and the novel entertainment provided from 3LO Melbourne by Mr. E. F. Ritter, who is presenting a series of the world's best short stories in tabloid form, is not only vastly entertaining, but highly educational. His selection covers a wide range culled from the best English, French and American writers, and also includes many classical gems. As everyone knows, it is not only the story itself, much lies in the way in which it is told, and in the hands of this versatile artist, the stories gain considerably "in the telling."

SAM COPE, of the Ayarz Dansonians, who, it will be remembered, was one of "The Ten Loonies" of Tivoli fame, is among the most versatile artists broadcasting from 3AR Melbourne. Perhaps he is known best for his remarkable xylophone and marimbaphone performances, but much of his art is lost through the inability of the microphone to transmit his comedy antics and clever manipulations of the sticks with which he plays his many instruments. He is indeed a juggler as well as a musician and, perhaps some day, when television is here, Sam's performances will not only be heard but seen by his many admiring listeners.

## Musical Broadcasting Features

### Bach Preludes and Fugues.

MR. CLAUDE E. MONTEATH, whose organ recitals from 3LO Melbourne, have stimulated a fresh interest in organ music, will, at some of his subsequent recitals, play the well-known set of Eight Short Preludes and Fugues of John Sebastian Bach. These little pieces are of especial interest to students of the organ. They are some of the youthful compositions of the great master who, although he lived two hundred years ago, can be regarded as the father of modern music.

When Bach died, his music appeared to have died with him, and it was not until over half a century had elapsed that his worth began to be recognised, especially by Mendelssohn in Germany, and the Wesleys, father and son, in England. In this connection it is significant that the son, Samuel Sebastian Wesley, bore one of Bach's names. Since the commencement of last century the fame of the glorious master has not looked back, and to-day he is universally regarded with love and veneration by all lovers of music.

The music of Bach needs no introduction to the majority of our listeners, but any who have found difficulty in comprehending the intricacies of his greater works should find in the Short Preludes and Fugues a "Plaine and Easie introduction to the Art of Practicall Musick."

Other pieces of a simple and tuneful nature will continue to find a place in these recitals broadcast from 3LO Melbourne.

#### Chostiakoff with Church Choir.

Musical listeners are promised a great treat on Sunday, the 27th May, from 3LO Melbourne, when the Wesley Church Choir, under the direction

of the distinguished pianist, William G. James (who has just returned from his duties of adjudicator in the West), will render selections from the works of Sir Arthur Sullivan and Mozart, the well-known "Gloria" being included in the programme. Among the soloists for this evening will be Senia Chostiakoff, late principal tenor of the world famous Don Cossacks Choir, and who, by special request, will sing the Russian folksong, "Monotonously Rings the Bell," with a special organ accompaniment.

#### Winner of 3LO Gold Medal.

3LO's gold medal for the vocal aggregate championship at the Comunn Na Feinne competitions, held at Geelong, was won by Miss Marjorie Lawrence, and listeners are to be afforded the opportunity of hearing Miss Lawrence over the air early in June. In addition to winning the 3LO medal, Miss Lawrence was awarded the "Sun Pictorial" prize for an operatic aria, and critics and adjudicators expressed the highest appreciation of her vocal attainments. Miss Lawrence is the third of Mr. Ivor Boustead's pupils to win the coveted "Sun Pictorial" prize, and Mr. Boustead is very confident that his pupil has a wonderful career ahead. Miss Lawrence is a contralto, and at the competitions she gave an excellent rendering of "My Heart is Weary" from "Nadeshda," by Goring Thomas. The adjudicator, Mr. Purcell Webb, said after the competitions that Miss Lawrence "possessed a beautiful contralto voice of rare tone and splendid range." Miss Lawrence intends to continue her studies abroad, and she hopes to go to Paris where she wants to go under the direction of Mr. John Brownlee, another of Mr. Boustead's most successful pupils.



# 3LO on the Short Waves.

THE world-wide tests being made by 3LO, Melbourne, to determine the range of their short wave transmissions have probably drawn more public attention to this new form of sport than any dry scientific discourse could ever have done. The young and enthusiastic amateur, of course, takes his midnight dip into the short waves probably seven times a week, if not oftener, but his is more or less an unregistered course, and there is no official timekeeper to keep tally of his times and distances. With 3LO, Melbourne, the eyes and watches and wireless sets of the world, line the fences from Melbourne to Middlesex and beyond, so that whatever is done must be well and truly done, and no error.

## Speed or Distance?

Of course, with such a maritime race as we of the Lesser and Greater Britains, it comes only natural to think in terms of waves, whether nautical or empyreal. It would have been easier for the lay mind to comprehend some of the mysteries of transmission through space without wires, if we were not so devoted to measurements in terms of wavelengths. After all, to say that 3LO Melbourne transmits every Monday morning at the unearthly hours of from 4.30 to 6.30 (and bitter cold, too, these mornings) on a wavelength of 32 metres, conveys very little to the casual outsider. 32 metres, of course, is 35 yards in English measure, and the expression merely tells us that the wireless waves going through free space measure 35 yards from crest to crest. This is most uninspiring. But let us translate this distance into speed, and remember that such a wave travels at the rate of nearly ten million surges per second, and we begin to be amazed, and to perceive that something out of the ordinary is likely to happen.

## A Little Wave Goes a Long Way.

Something out of the ordinary certainly does happen to these very high frequency transmissions. Although they have nothing like the enormous vibrational qualities of light, yet such wireless waves tend to travel in much straighter lines than the slower ones employed in every-day broadcasting. As they leave the 3LO station at Braybrook, their velocity of up-and-downedness, so to speak, is so high, that they only hit the high spots of the earth's surface and ricochet exactly like a flat stone thrown fast along a surface of ruffled water. They skip, skip, skip, a dozen miles or so at a time, for perhaps a thousand miles, before soberly settling down to

their globe-trotting. Unlike their brothers of the longer wavelength, they travel express, according to popular differentiation between express and ordinary trains, namely, that the one stops at all stations, and the other between them.

## Short and Shading.

That is why short waves when searched for too close to the originating station are subject to what is known as "Fading," which consists in a periodical growing up and dying away of the sound volumes they convey. It is pretty certain, though never, probably, yet put to test, that an aerial sufficiently high, or an aeroplane, would pick up such waves quite free from fading even in close proximity to their source. But, in crowded reception areas especially, the very "punch" and vigor as well as the velocity of these vibrations, causes them, when they strike an obstacle as a hill or a high wall, or some electrical screen such as a charged cloud, or even a column of smoke, to hop over instead of gliding through as the less vivacious broadcasting wavelength obligingly does. 3LO's 371 metre transmission is like the big bold battleship that pounds through every obstacle and tosses an ocean wave aside from her prow, as a terrier tosses a rat, while the high velocity short wave of 32 metres, and thereabout, leaps like a petrol or a hydroplane along the peaks of whatever confronts it.

## Getting Down to Earth!

This, then, is the toughness of the problem confronting 3LO, Melbourne. To reach England is really the least difficult part of the job. In fact, England has been reached right from the beginning, and it only remained for English receivers to let England know about it. But 3LO, Melbourne, wants also to reach Victoria with these Short Waves!

It sounds very paradoxical, but that's how the matter now stands. The very excellent re-broadcast experiment conducted by that admirable amateur 3BY on 3LO Melbourne's last daylight transmission, on 32 metres, was a most valuable contribution to the research that is being made, for it inclined the public ear to the experiment, and gave airy nothings a local habitation and a name. But 3LO, Melbourne, wants the people of Victoria to report fully on direct reception of these waves, both far and near, and by crystal as well as by valve, for, after all, broadcasting, like

charity, begins at home, and the better we can give ourselves, the better we can give the world.

MR. HUGH GODWIN, baritone, vocalist, and pianist, will, on the nights of May 24th and 26th inst., broadcast from 2UW a number of his unpublished songs. He will be assisted by Miss Marie Roberti. Mr. Godwin has had very lengthy experience as a conductor of choirs, operatic societies, etc., in Melbourne, Sydney, and Brisbane. He also appeared as Don Jose in Wallace's "Maritana" at Lismore, and as Lord Mountararat in Sullivan's "Iolanthe" at Her Majesty's Theatre, Brisbane, and as Pish Tush in "The Mikado" and other operas in Melbourne.

ON MAY 23rd a number of principal artists will gather at 2FC's new studios for the dual purpose of celebrating the first "Warming" in the new studios since they were officially opened, and also to wish Raymond Ellis a "Bon Voyage" before he returns to England. Mr. Ellis has endeared himself to all those with whom he has been associated, at 2FC. He is genuinely appreciative of the little courtesies extended to him, and possesses as well a very keen sense of humor, as evidenced in the characteristic telegram received by Mr. Oswald Anderson, Studio Manager: "Fixed satisfactorily with 4QG, thought you would like to know what transpired; thanks your interest; you are good sport; so is H.P. (Williams), in fact, you are all dam fine crowd!"

## IMPROVING THE RELAY SUPER-HET.

In the March issue of "Radio," a short wave Relay Super-heterodyne receiver for International broadcast reception was described by Mr. Ray Allsop, Chief Engineer of 2BL, in collaboration with Mr. D. B. Knock, Technical Editor of "Wireless Weekly" and "Radio." This receiver was built by many, and met with instantaneous success. Mr. Allsop has since further improved the circuit design by the introduction of a radio frequency amplifier, employing the new Philips A442 screen grid valve. This extra R.F. amplifier is so arranged as to feed the grid circuit of the Autodyne detector and the result is outstanding in modern short wave reception. This is made possible by the Philips screen grid valve, which is particularly efficient for use on the higher frequencies. On the conclusion of the initial tests, the modification will be described in "Radio" at an early date.



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If you are one of our customers, we know you are satisfied. But—we are never satisfied. We want more and more radio enthusiasts to know of ourselves, our goods, and our policy.

What we offer is at all times the best in Radio Parts and Accessories at the lowest prices.

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ADVICE regarding your Radio problems is our main service. You cannot do better than write or see us if you contemplate building a radio set or require advice on any radio matter. Only reliable technical advice will be given.

IN THIS ISSUE: "THE SPLIT SECONDARY FOUR" here are dependable parts to build it.

	£	s.	d.
1 Best Luzerne Panel, 21 x 7 x 3-16 .....	0	7	6
2 Quaker Brass Plate Condensers, .0005 .....	0	19	0
2 Pilot Art Vernier Dials, 7/6 .....	0	15	0
2 Formers for Split Secondary Coils, Bakelite, 3in. diam., 4in. long, 1/4 .....	0	2	8
1 lb. Reel, 28 D.S.C. Wire .....	0	4	0
4 Pilot UX Spring Sockets, 3/3 .....	0	13	0
1 New Radiofrequency Choke .....	0	5	6
2 A.W.A. Super Audio Transformers, 18/- .....	1	16	0
4 Brachstats, Code B, at 4/9 .....	0	19	0
1 Advance Midget Condenser .....	0	6	6
1 Advance Neutralising Condenser .....	0	4	6
1 Electrad Resistor, type D .....	0	10	0
3 Wetless Mica Condensers, .0001, .001, .002, 1/6 .....	0	4	6
1 B.M.S. Battery Switch .....	0	1	6
1 B.M.S. Single Circuit Jack .....	0	1	7
1 Wetless .00025 Condenser, with clips .....	0	1	9
1 Philmore 2-meg. Leak .....	0	1	0
10 Engraved Binding Posts, 3d. ....	0	2	6
1 Bakelite Strip .....	0	0	6
1 Coil Spaghetti Covered Wire .....	0	1	3

Total ..... £7 17 3

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### The Rolls Royce of Transformers

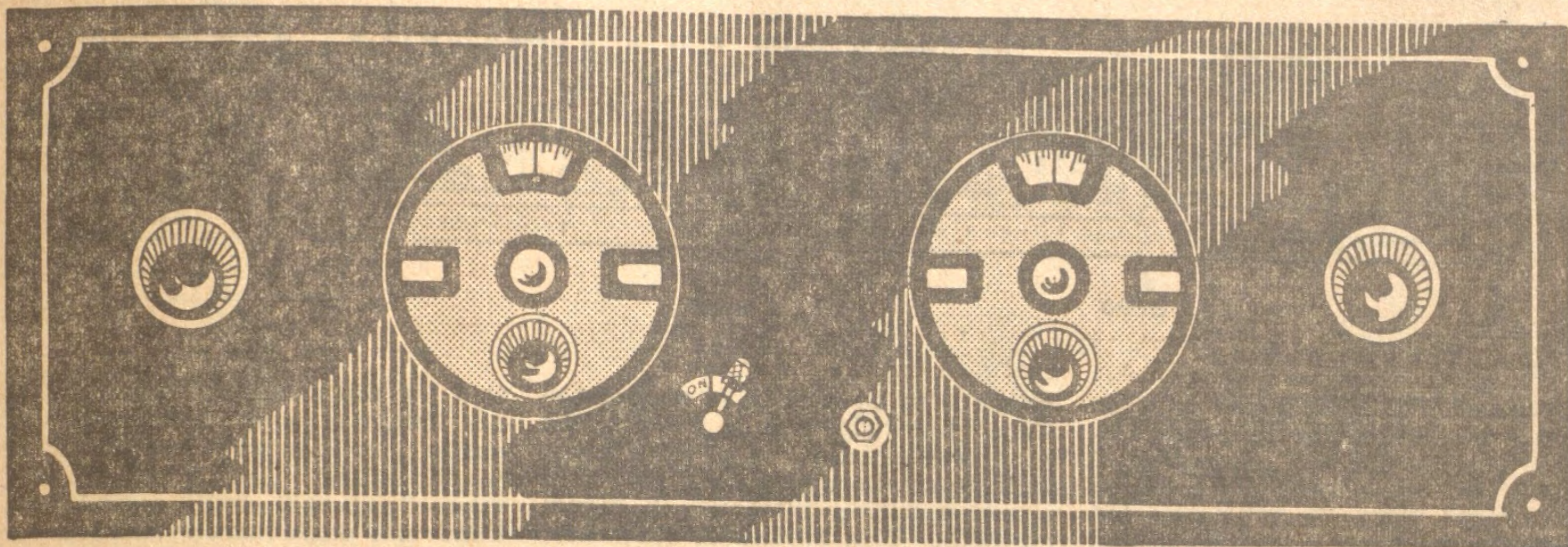


### THE KARAS HARMONIK

All Stage Ratio. .... 34/9

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## The "Split-Secondary" Four

THERE are innumerable methods of putting four valves to work, some far more efficiently than others. Using the three electrode variety, the combination usually includes one stage of RF amplification, with a circuit arrangement which consists of one RF detector and two audio stages. The single RF stage may be correctly designed or haphazardly "included," in which latter case the finished set functions in a manner calculated to make the constructor think that the valve ahead of the detector is merely there for the "look of the thing." Nothing is more detrimental than a "passenger" RF valve, which is a hindrance to tuning and of no material value. It would be better to build the usual old reliable Reinartz type of receiver, which if functioning correctly would certainly be found more useful. On the other hand, a correctly designed RF stage is the heart of reliable long distance reception, as witness the conventional Browning-Drake circuit which may be built up in portable form. This is capable of really astounding performance on quite a small loop aerial by substituting the loop for the RF aerial coil. The secret of such performance lies in high RF amplification together with complete stability with regard to neutralisation. The new screen grid valve provides an immediate solution to this, but as many readers are as yet "lost" on these valves, this article deals with RF amplification by means of the familiar three electrode valve. When reference is made to a stage of RF amplification . . . amplification is meant . . . not oscillation! It should be obvious that an amplifier cannot perform the duty it is there for at radio frequencies and oscillate at the same time. An example may be given by drawing a simile between a receiver using RF amplification and

### LIST OF PARTS

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

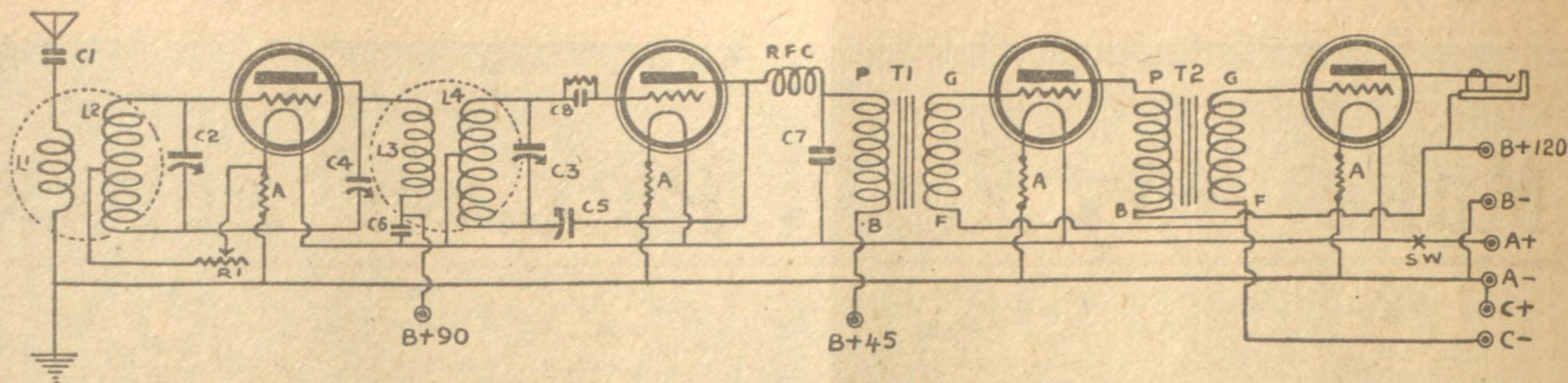
*Other parts of similar quality and technical values should function quite satisfactorily.*

- 1 Dilecto, Formica or Hard Rubber Panel, 21 x 7 x 3-16in.
- 1 Baseboard, 20 x 9 x 1/2in.
- 2 Emmco .0005 S.L.F. Variable Condensers.
- 2 Emmco de Luxe Vernier Dials.
- 2 Radiokes Split Secondary Screened Coils, or 2 Formers 3in diameter, 4in. long, and 1/2-lb. of No. 28 D.S.C. copper Wire.
- 4 Benjamin UX Anti-vibration Valve Sockets.
- 1 Radiokes RF Choke.
- 2 All American Intervalve Transformers, 5-1 and 3-1 ratio, or 2 Rauland Lyric Transformers.
- 4 Amperite or Brachstats (to suit valves used).
- 1 50 mfd Midget Variable Condenser (Advance).
- 1 Midget Variable Neutralising Condenser.
- 1 Royalty Electrad Variable Resistance (Type L).
- 1 .002 T.C.C. Condenser.
- 1 .001 T.C.C. Condenser.
- 1 Filament Switch.
- 1 Single Circuit Jack.
- 1 .0001 Fixed Condenser.
- 1 .00025 Grid Condenser, with Clips.
- 1 2 megohm Grid Leak.
- 10 Terminals for Aerial-Earth, Batteries, etc.
- Glazite or Celatsite Wiring, Solder, Flux, Wood Screws, etc.

a Transmitter of the Master Oscillator type. A transmitter of this designation uses a comparatively low power oscillator, working at the wavelength required (excluding sometimes the crystal controlled type) with the energy to the aerial drawn from an amplifier or series of amplifiers of higher power. If the amplifier portion of the transmitter is unstable (or not neutralised) a great loss in amplification occurs, together with a comparatively unsteady power or "carrier" wave. The object of the amplifiers is thus defeated. Once stability is effected by correct neutralisation, the frequency of the emitted wave becomes constant, which is the very "raison d'être" of the master oscillator. The same principle applies in a reverse way to the receiver. Instability renders the circuit unselective, tuning is difficult to a degree and total amplification is much less than with the stable RF circuit.

Another important point of neutralisation is that interference is greatly reduced, and in some cases entirely minimised. This alone renders the use of a neutralised RF amplifier very desirable, particularly in a congested district. Many City readers have no doubt noticed a great falling off in interference, by oscillating receivers, during the two latter years. Whilst such circuits as the Reinartz and many others, employing a regenerative detector, coupled to the aerial, are very popular; there is a great increase in the number of receivers making use of one or more stages of neutralised RF amplification. By the use of such RF amplification, regeneration in the detector valve circuit may be used to the best advantage. These points have been referred to previously in various articles, but it still seems necessary to do so, as many make use of an





antiquated RF circuit and rely on such procedure as the RF valve filament control, for the prevention of oscillation. The circuit of the "Split Secondary" Four is not new; but generally speaking, has not received the attention worthy of it. The RF valve uses the centre tapped grid coil method of neutralisation, more commonly known as the "Split Secondary" type. This scheme is highly successful and allows maximum possible amplification as obtainable by the neutralisation method. No attempt is made to describe a circuit of doubtful merit, with a large number of fantastic and unnecessary controls. There are many who are always willing to "try anything once," and will expend ready cash and energy on the construction of a much vaunted arrangement which is literally "plastered" with controls, but the discriminating enthusiast is to-day thoroughly aware that in most cases the true value of a circuit is judged by its comparative simplicity. Although this circuit is placed before "Wireless Weekly" readers with independent controls for the RF and detector, single control may be used with a double gang condenser unit, and the necessary compensating condenser for the RF stage. This, of course, applies to any circuit employing a stage of RF amplification. It is for the reason that so many seem to prefer independent control that the receiver is described in this form.

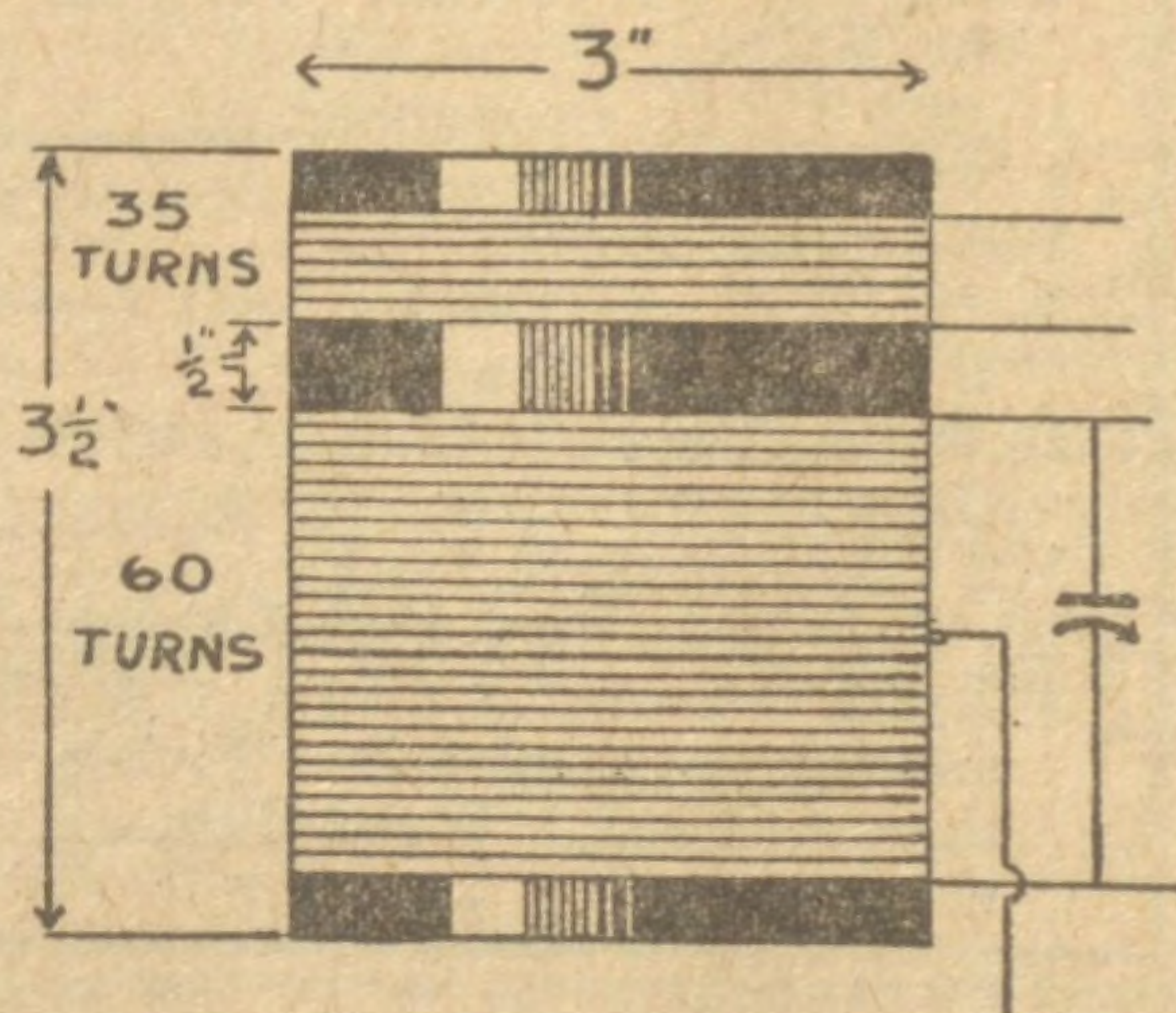
The control of the receiver is simplified further by the use of automatic resistances for obtaining the correct filament temperature of the valves. This not only keeps the panel clear of unnecessary knobs and dials, but ensures that the valves are being run correctly. This is possible for the reason that none of the valves used require critical adjustment, regarding the filament current. Another advantage of filament control in this way is that in the case of critical valves of a low voltage value, the danger of the younger members of the family ruining the valves by playing with variable rheostats is at once avoided. The theoretical circuit diagram of the receiver is shown in Fig. 1 with all necessary values. As usual, in most circuits described in these pages, a .0001 fixed condenser is included in series with the aerial lead. This condenser is always of value, where a re-

ceiver is to be used in or around the City. Not only does it increase the general selectivity, but allows a much tighter aerial coupling to be used with a corresponding increase in signal strength. This applies to the whole of the broadcast band of wavelengths. This small series condenser is usually very effective in relieving the load from the RF valve circuit, and allows the load to be placed on the detector valve with practically any aerial system in use. To preserve stability on the audio frequency side, the usual precaution is taken to prevent the introduction of RF currents. Many readers have no doubt had the unpleasant experience of low frequency oscillation or "howl" in two stages of transformer coupling due to magnetic interaction between the transformers or to the presence of RF currents. A choke is connected in the plate circuit of the detector valve, and is vitally necessary to obtain regeneration, as this is obtained by the Hartley method. As a further protection against the presence of RF current on the transformer side of the choke, a by-pass condenser of .001 mfd. capacity is shunted from the plate side of the transformer to the A positive. The RF coils actually used are the well known Radiokes "split secondary" screened coils, and are highly efficient for the purpose. The carton containing the coil is supplied with a terminal diagram with connections, and a slight modification is necessary to use these coils in the circuit of the "split secondary" Four.

The Radiokes coil has a secondary which is actually "split" and not centre-tapped. These centre connections terminate at terminals marked A and F. It is necessary to join these two together for the centre-tapping to A negative for the RF, and A posi-

tive for the detector. Screened coils are always a great improvement over ordinary coils in any circuit using RF amplification. The screening minimises "pick-up" from near-by stations and consequently sharpens the tuning considerably. Readers may carry out an interesting little test for themselves, which will prove this. If a receiver is using screened coils of the home-made variety, arrange the "cans" or screens so as to be movable. Tune in a distant station such as 3LO and then remove the screens. Immediately the tuning becomes broad, and interference is almost sure to be present if the reader is situated in the shock area of 2BL. Replacing the screens, restores the selectivity and general operation. In fact, a completely shielded receiver will not "pick-up" even a local station very near-by, without aerial and earth connections. It must be understood that this experiment must not be tried with the Radiokes coil kit, as the whole are self-contained, and the screens are immovable.

For the benefit of those who may wish to make their own RF coil units, I will mention that both units are identical. The former for the winding of the coils may be three inches in diameter, with 35 turns of No. 28 D.S.C. copper wire for the primary, and 60 turns of 28 D.S.C. for the secondary. The spacing between these two windings should be approximately half an inch. The secondary is tapped at the centre. The connections for the primary will depend on the exact method of winding employed and they need to be reversed after the unit is completed. It will not be possible to neutralise the set correctly, if the primary is wrongly connected. A diagram is shown illustrating a home-made RF coil unit. As mentioned before, regeneration in this receiver is controlled by a variable capacity. This method does not greatly affect the tuning of the receiver, and will be found to remain set over a fairly wide band of wavelengths. This is not the case with inductive regeneration by means of a variable "Tickler" coil. Looking at the circuit diagram, it will be noticed that a variable resistance is connected from the centre tapping of the first coil unit to the A negative filament supply. This resistance has a total value of 500,000 ohms, and is a Royalty Electrad type L. The in-





# Make Any Good Receiver Better



AX

(201-A)

"CeCo" type "AX" corresponds to UX-201-A and is the Standard Storage battery tube of Radio.

Excellent detector and amplifier for any circuit and noted for uniformity, low operating cost and marked efficiency.

Fil. Volts ..... 5.  
Fil. Amp. .... .25  
Plate Volts ..... 45-135

Standard Base—Long Prongs.

LIST PRICE ..... 8/-



J-71

(171)

"CeCo" type "J-71" output tube, similar to the UX-171, will handle the largest loud speaker at full volume. At ninety volts it will handle twelve times the undistorted volume of the ordinary "A" type.

Fil. Volts ..... 5.  
Fil. Amp. .... .5  
Plate Volts ..... 90-180

UX Base—Long Prongs.

LIST PRICE ..... 21/-



F

(112)

"CeCo" type "F" corresponds to UX-112 and is a power amplifier tube for the last stage of audio frequency. For use with storage battery, or A.C.

Fil. Volts ..... 5.  
Fil. Amp. .... .5  
Plate Volts ..... 90-180

UX Base—Long Prongs.

LIST PRICE ..... 20/-



G

"CeCo" type "G" is a high mu-tube intended for impedance and resistance coupling. Will give clearer reproduction and increased volume in all audio frequency sockets except last or output socket.

Fil. Volts ..... 5.  
Fil. Amp. .... .25  
Plate Volts ..... 90-180

UX Base—Long Prongs.

LIST PRICE ..... 13/-



Detector  
Type N-27.

(227)

Heater Volts ..... 2.5  
Heater Amps. .... 1.75

Plate Volts:

As Detector ..... 4E  
As Amplifier ..... 90-135

Not to Exceed ..... 180

LIST PRICE ..... 40/-



Amplifier

Type M-26

(226)

Fil. Volts ..... 1.5  
Fil. Amp. .... 1.05

Plate Volts ..... 90-135

Not to Exceed ..... 180

LIST PRICE ..... 20/-



H

"CeCo" type "H" is a special Detector non-critical as to filament or plate potential and also non-microphonic.

For use with Storage Battery and especially recommended for weak signals and distance reception.

Fil. Volts ..... 5.  
Fil. Amp. .... .25

Plate Volts ..... 67-90

UX Base—Long Prongs.

LIST PRICE ..... 13/-



DG

Gas Filled Rectifier

(NO FILAMENT)

Makes a good

"B" Eliminator Better

Easy Filtration—Less strain on Filter condensers and smoother output with less Hum or Ripple.

Rating:

Max. Volts ..... 300

Max. Cur. .... 85 M.A.

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E

(120)

"CeCo" type "E" corresponds to UX-120 and is a power amplifier tube for the last stage of audio frequency. For use with dry cells.

Fil. Volts ..... 3.  
Fil. Amp. .... .125

Plate Volts ..... 90-180

UX Base—Long Prongs.

LIST PRICE ..... 13/-



BX

(199)

"CeCo" type "BX" corresponds to UX-199 and is intended for Dry Cell use. Good detector and amplifier, and can be used in any receiver for which this type is specified. Low filament consumption.

Fil. Volts ..... 3.  
Fil. Amp. .... .06

Plate Volts ..... 45-90

UX Base—Long Prongs.

LIST PRICE ..... 12/-

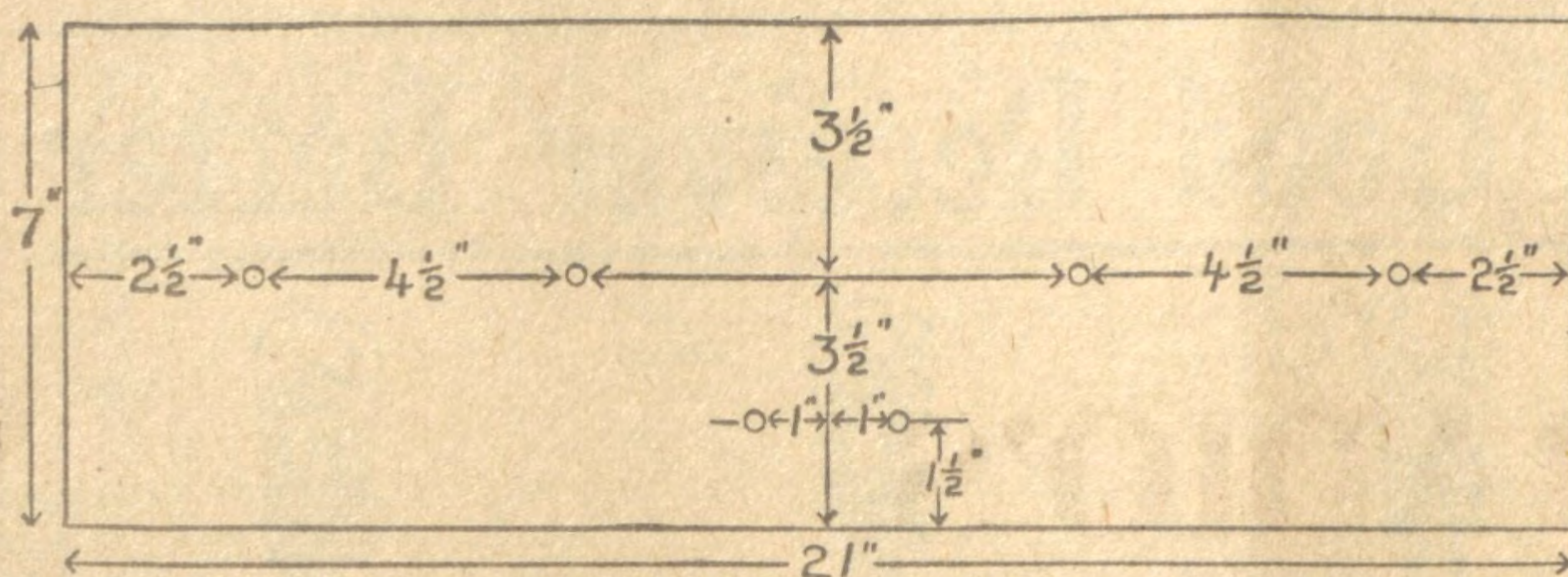
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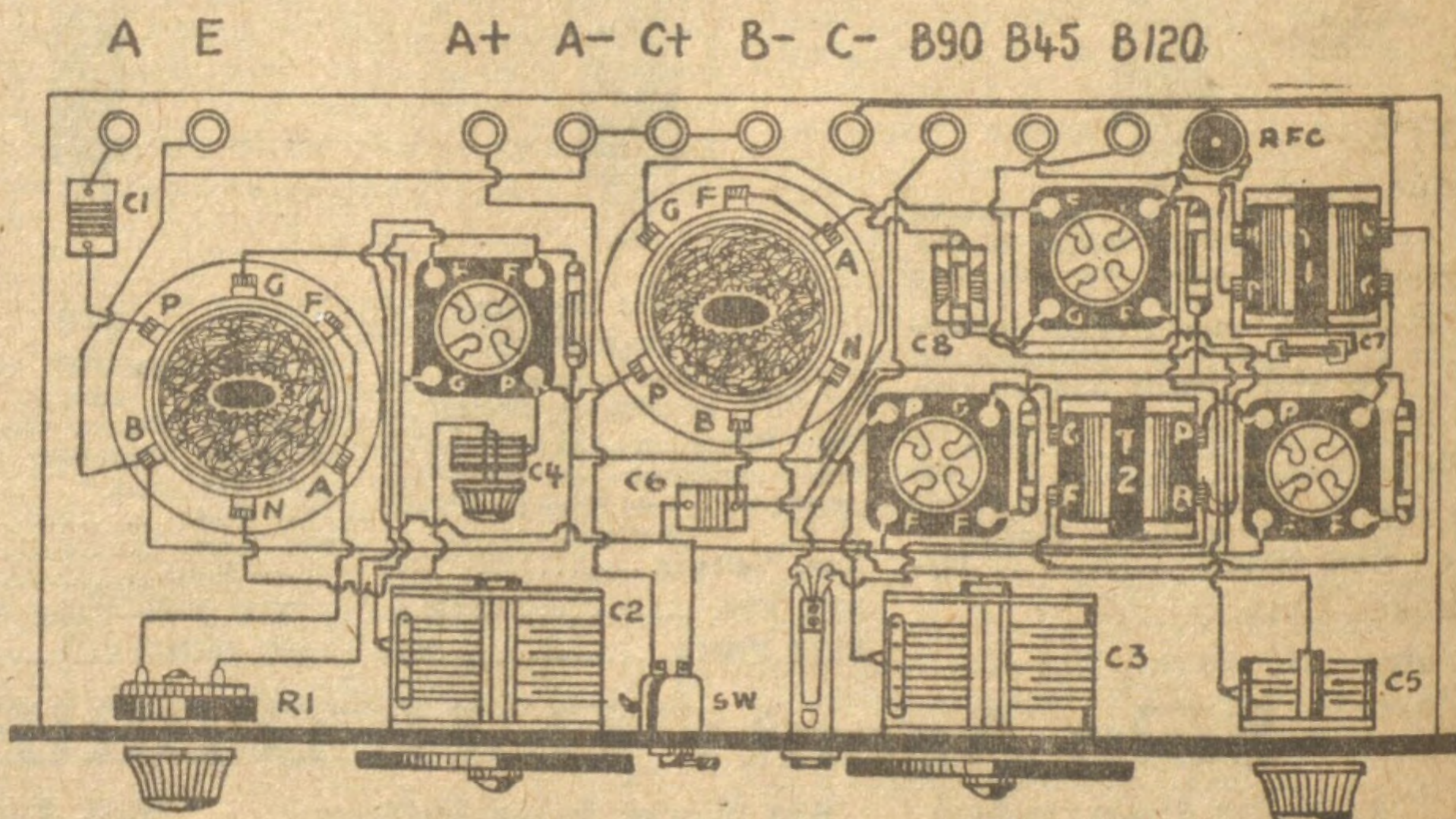


clusion of this resistance is very important, and enables a wide latitude of adjustment to suit any make or type of valve which may be used in the RF stage. The selectivity of the RF circuit is considerably improved by the use of the variation, and may be adjusted to suit the user's requirements according to the locality. Note that the resistance is connected to the negative filament terminal of the valve socket and not directly to the earth. The centre tap from the detector valve circuit on the secondary of the second coil unit is connected to the A positive filament supply. Apart from these details, there is nothing which varies theoretically from the usual application in the layout of a four valve receiver employing RF amplification except that the detector circuit obtains its regeneration by means of the controlling variable condenser in series with the plate and the rotor plates of the tuning condenser. The construction of the set is purely straightforward and involves only the usual care to mount the RF coils in such a position as to avoid coupling if these are of the unscreened home-made variety. Unscreened coils are not by any means advised, and if the constructor makes his own, it is imperative that some form of effective screening is provided. For instance, instead of enclosing the coil units in a circular "can," the entire set may be shielded by making the panel and base panel of metal, such as aluminium, with a dividing compartment for the complete RF stage of amplification. The construction is described for use with the Radiokes coil kit. A panel is required measuring 21 x 7 x 3-16 in., together with a baseboard, 20 x 9 x 1/2 in. Attach the panel to the board in the usual manner, by drilling four holes to take countersunk nickel headed wood screws. When this is done, the marking off and drilling will be much easier than drilling the panel itself, by allowing the baseboard to project down over the front edge of the work bench. This method is more satisfactory than gripping the panel itself in the jaws of a steel vice, and thereby making it unsightly by scratches. With the baseboard attached, the panel cannot spin as the drill breaks through the other side. The template

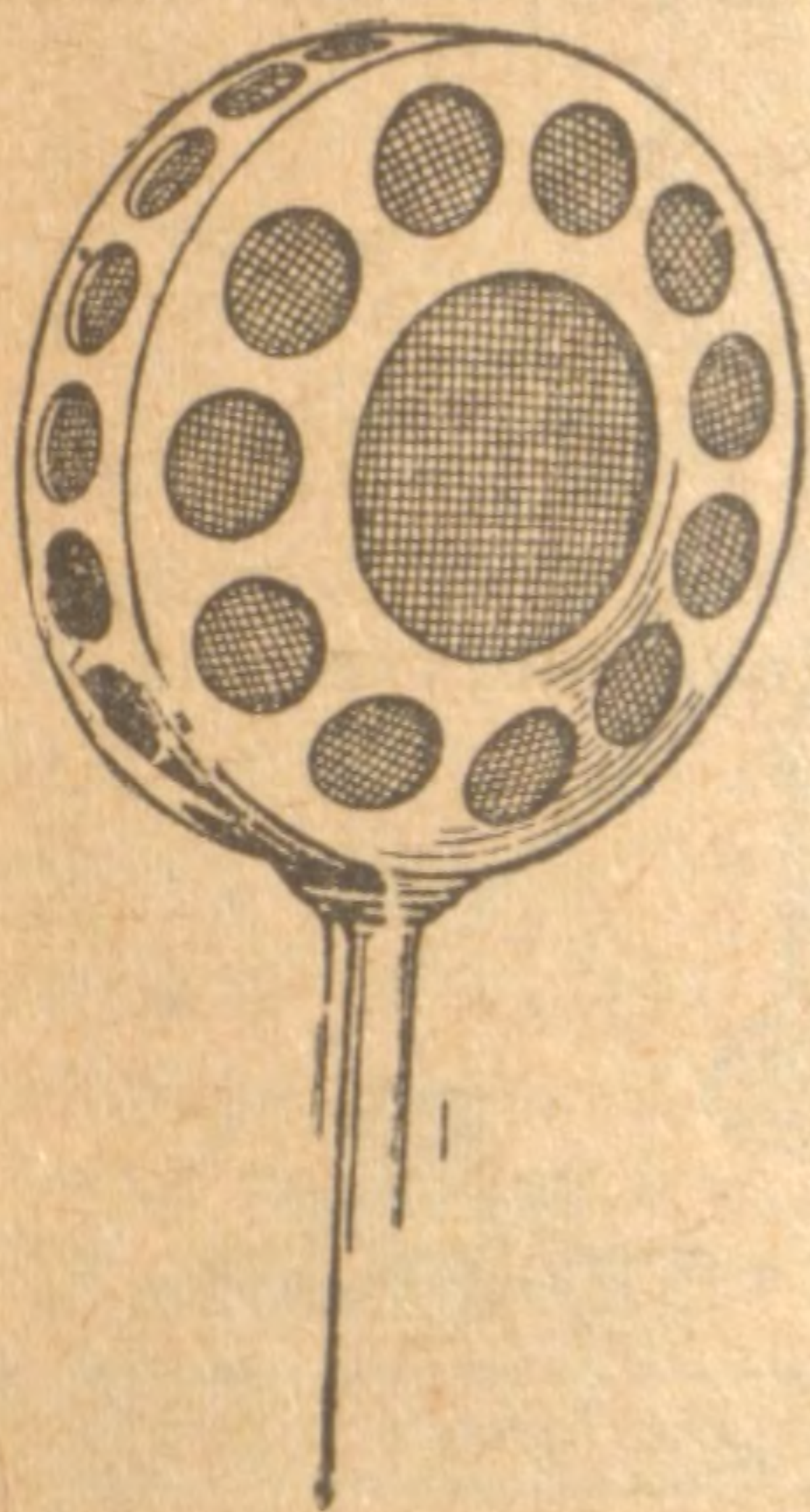
drilling diagram shows the positions for the various controls. The two tuning condensers are placed centrally with the jack and filament switch below. On the right hand side is the knob controlling the regeneration condenser and on the left, the control for the variable resistance.

The positions of the baseboard components are shown in both the back of panel view and the schematic wiring diagram. Behind the variable resistance RI is the first RF coupler unit, with the first valve socket and neutralising condenser to the right. Behind the filament switch and jack in the centre of the panel is the second or detector RF coupler unit, together with the by-pass condenser C6. The rest of the baseboard carries the audio amplifier valve sockets, RF choke, intervalve transformers, grid condenser and leak, and the by-pass condenser C7. Each valve socket has its attendant ballasting resistance placed alongside. There are ten terminals for aerial-earth and battery connections and these are mounted on Dilecto strips along the back edge of the baseboard in the order shown. The wiring should be done throughout by insulated wire, such as Glazite or Celatsite or No. 16's tinned copper with "spaghetti" sleeving. Glazite is tinned copper wire of No. 16's gauge with a permanent insulating covering which is quite easy to remove by

the aid of a sharp pocket-knife. Celatsite is also provided with insulation, but the wire itself consists of a fine cable of stranded tinned copper wire. Both these makes greatly simplify wiring for the novice and help to avoid any accidents, to valves by wiring shorting where not intended. When wiring up a set, do not progress by soldering one end of a wire first and then bending it to reach its termination, as this will invariably result in a "straggly" job. Bend the wire into position first and then solder it at both ends. If using No. 16's, make sure that you first stretch the wire in order to remove any unsightly bends or kinks. It is quite an easy matter to wire up a set in "any old way," but how much better does the finished article look when it is done properly? There is a difference in the way a careful and workmanlike constructor shows his friend his latest acquisition, and the half ashamed way the man who "botches" the job evades prying eyes. The wiring is commenced with the filament circuits first. Starting from the A positive terminal a connection is made to one side of the filament switch and through this to the positive filament terminals of all four valve sockets. Next link together the A negative, C positive, and B negative. From these combined terminals, connection is made to one side of each of the filament ballasting resistances. The other side of each resistance in turn is connected to the negative filament terminal of the valve sockets, and also to the earth terminal. Join the aerial terminal to one side of the .0001 fixed condenser and the other side of this condenser to terminal P of the first RF coupler. Terminal B is connected to the earth terminal. From G of this coupler a lead is taken to the grid of the first or RF valve, and to the stator plates of the .0005 variable condenser C2 tuning the RF circuit. From N connection is made to the rotor plates and also to the rotor plate of the neutralising condenser C4. Connect the centre tap







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**ANNOUNCEMENT**

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Should it for any reason prove defective or become damaged we will be pleased to repair and test same free of charge. The complete faulty instrument must be returned to our factory, 130 Sussex St., Sydney, together with any broken parts thereof, carriage paid and return postage included.

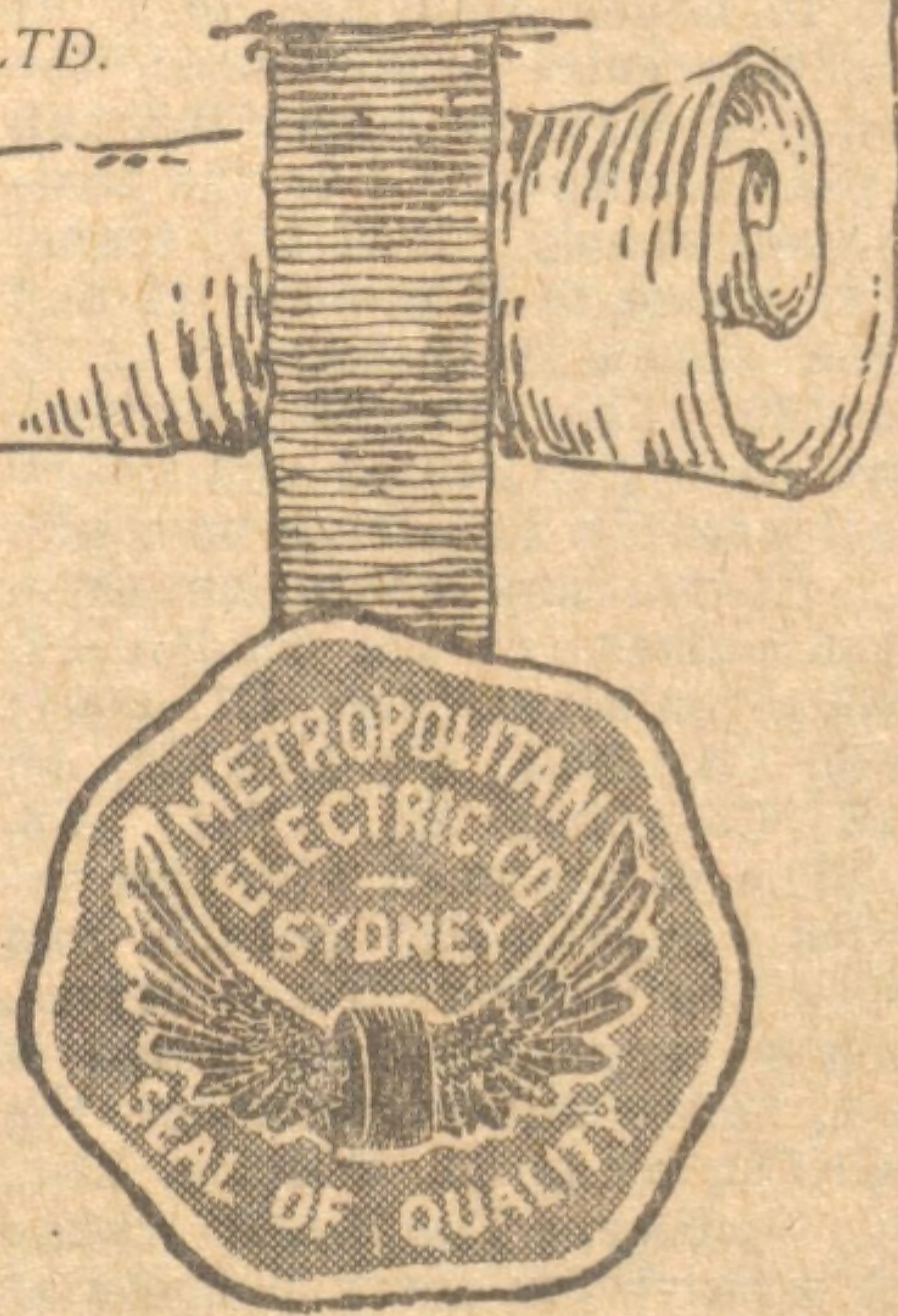
This Guarantee of Perpetual Service is made between the user and the Metropolitan Electric Co., Ltd., and in no way obligates the dealer through whom this apparatus was purchased.

METROPOLITAN ELECTRIC CO., LTD.

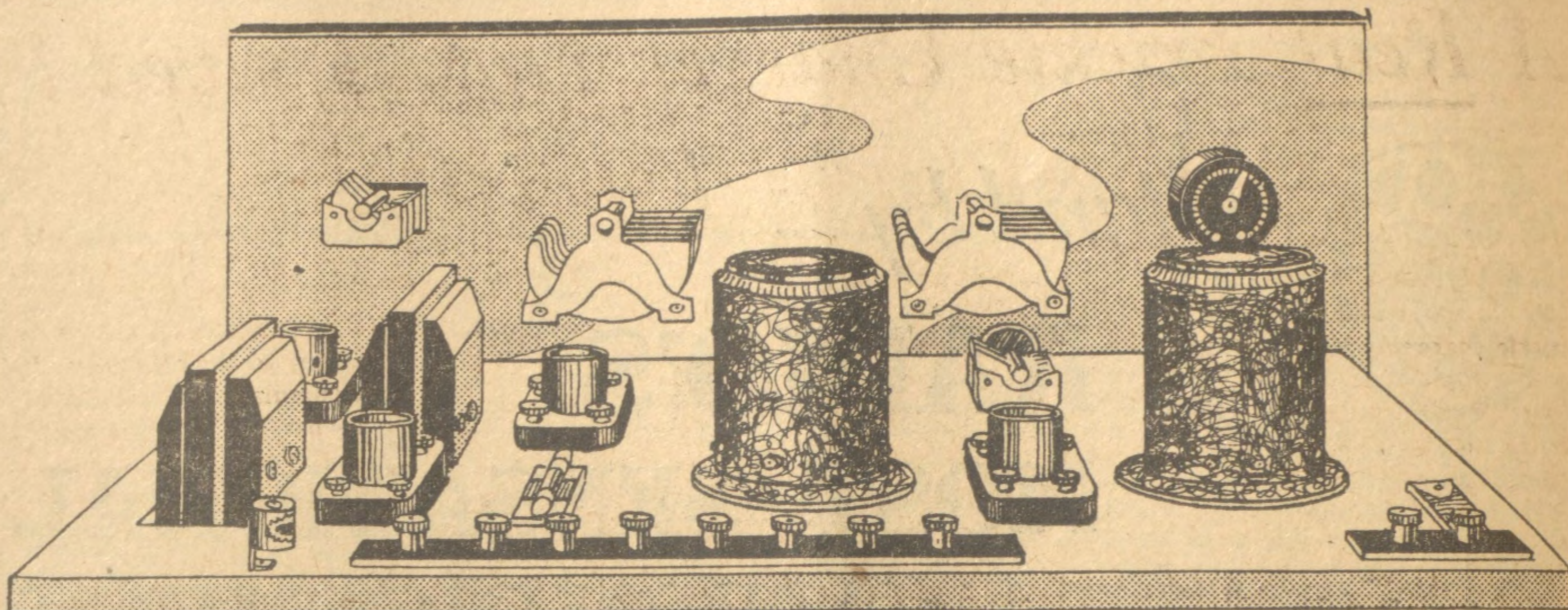
**NOTE.**—In effect the above Guarantee means that any Radiokes Products (excluding valves) you may have in your possession will be kept in working order, so long as you choose to avail yourself of this liberal offer. There is no excuse whatsoever for any Radiokes apparatus to be out of commission. Whatever be your breakage or wear Radiokes will make it good free of charge and without quibble. This agreement is between you and our factory.

The famous Radiokes Products are obtainable from all high-class radio dealers. They realise the satisfaction of merchandising Radiokes Quality Products.

We urge you to buy with discrimination. You pay no more for Radiokes: so you owe it to yourself to refuse unknown and inferior imitations, No others are "Just as Good."







through RI to the negative filament terminal of the first valve socket. The plate is connected to P of the second coupler and the stator plate of C4. Dealing now with the second coupler and detector valve, take a lead from the B positive 90 terminal to B of the coupler and to one side of the by-pass condenser C6, the other side of this fixed condenser being connected to the positive filament supply. The centre tap, which in both cases is F and A linked together, is also wired to the positive filament supply. G is connected through the grid condenser and leak C8, to the grid of the second or detector valve and to the stator plates of the tuning condenser C3. Connect N to the rotor plates of this condenser, and also to the rotor plates of the regeneration condenser C5. The stator plates of C5 connect directly to the plate of the detector valve and to one side of the RF choke RFC. In addition to being connected to P of the first intervalve transformer, the other side of RFC is joined through the by-pass condenser C7 to the positive filament supply. B of this transformer is joined to B positive 45 and B of the second transformer to B positive 120. The remaining connections are clearly indicated and follow the usual practice in wiring up audio stages. Should any confusion arise as to the values of the condensers, these are given separately. C1, .0001; C2, .0005; C3, .0005; C4, NC; C5, .50 MMFDS; C6, .002; C7, .001; C8, .00025. The valves used with this receiver are exceptionally suitable and gave very fine results. These valves, of which a very complete range is available, are marketed under the name CECO, by O. H. O'Brien, Ltd., Pitt St., Sydney. The CECO range includes a valve for every purpose at an attractive price. The types suitable for the "split secondary" four are respectively: RF, CECO type K. Detector, CECO type H. 1st audio, CECO type AX. 2nd audio, CECO type F or J71. The valves are all of

the 5 volt type, and were found an ideal combination for this circuit. Adjust the battery voltages and place the valves in their sockets. Plug in the loud speaker and rotate condenser C3 until a local station is heard. Increase the capacity of the regeneration condenser C5 until maximum volume without oscillation is obtained. The RF condenser C2 is next turned until resonance with the detector circuit is reached, when the signal strength will increase enormously. Oscillation in this RF circuit is almost sure to be present, so that it is necessary to neutralise before going further. This is done by tuning in a station by means of C3 and then removing the filament resistance for the first valve from its clips. Rotate the neutralising condenser C4 until the signals

disappear entirely. This indicates that the RF circuit is correctly neutralised. Replace the filament resistance and the set is ready for long distance reception. It will be necessary also to find the best setting for the variable resistance RI in conjunction with C4, which will be found quite an easy matter. Interstate reception is "the order of the day" with this "split secondary" four and the feature of almost "constant reaction" will be found a valuable asset for ease of tuning. The aerial may be almost any length, although must not be too long in the direct vicinity of a Broadcasting station. The selectivity leaves nothing to be desired and altogether the "Split Secondary" Four is well worthy of "Wireless Weekly" readers.

### Common Faults with Transmitting Amateurs

A common fault in amateur work is too short calling and not frequent enough short CQ's indicating the country or place desired. The directional CQ or QST should be used more frequently when trying to place traffic in the proper direction. Don't forget to intersperse your call at frequent intervals in accordance with standard practice.

In working foreign countries and DX stations you should be able to hear ten or a dozen stations from the spot you want to QSO while trying to find one who can also hear you.

In general, just hearing an occasional DX'er will never enable you to work them.

It is not generally known that oil or vaseline has a puncturing voltage of 6,000-8,000 volts, and that the sparking distance between two deposits of this material is 2.4 mm. Mica has a puncturing voltage of 10,000, with a sparking distance of

3 mm. Sparking distance means the greatest distance possible between two deposits of the material that will cause a spark to jump from one to the other at the rated voltage.

For perfect reception, keep the aerial away from trees and roofs of houses, keeping it as high as possible, not too long (about 70 feet is admirable). Do not solder a lead-in to the aerial wire, but take one wire for the aerial, and continue it straight to the set. Keep both lead-in and earth lead insulated and as short as possible. In dry weather, if the earth is buried below the ground, pour several buckets of water over the spot. Keep dust away from the set, by keeping the lid of the cabinet closed, and absorb all moisture by keeping a small piece of chloride in a corner of the cabinet. Keep all leads in the set as short as possible, particularly those of the grid and battery, and, above all, don't try to work off an exhausted "B" battery.

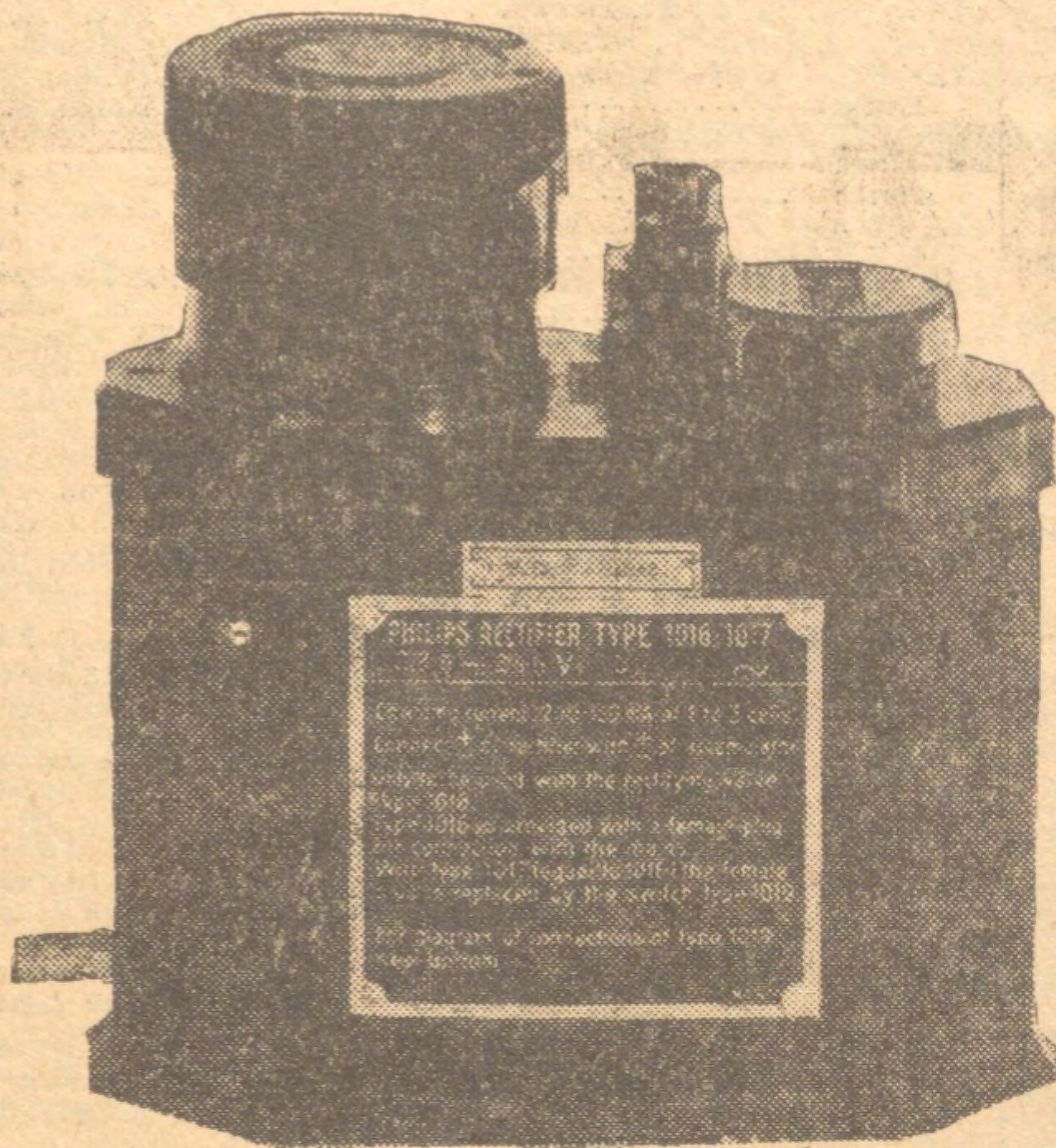


# A Real Trickle Charger Has Arrived !!

## The Philips Type 1017

The Trickle-charger type 1017 is a combination of trickle-charger type 1016, with switch type 1019. The switch replaces the plug for connection to the mains of trickle-charger type 1016. With the aid of switch 1019 all operations which are necessary when using the Philips trickle-charger type 1016, as, e.g., switching out the filaments of the valves in the receiving set, interruption of the eliminator supply, and putting into service the trickle-charger, are completed with one movement of the hand. The switch must be provided with cords, which should be connected as is indicated in the sketch.

The charging rate for a 4-v. accumulator is about 170 m.a. As the intention is to keep the accumulator continually in a fully charged condition, it is obvious that the supply during charge should equal the consumption during operation. Charging current required, therefore, depends firstly upon the mean time of listening and secondly upon the total filament current consumption of the receiving apparatus. The maximum charging current of 170 m.a. is chosen because it is sufficient for all cases, moreover charging at this rate can under no circumstances damage the accumulator. The most favourable charging current will be that at which slightly more is supplied than is consumed during operation. This charging cur-



The Trickle Charger is shown above with Switch Type 1016 on the left. The two plugs on right are for connection to the "A" Battery.

rent can be adjusted by inserting a variable resistance of say, a maximum of 30 ohms, between the rectifier and the accumulator, as illustrated. For this purpose an ordinary filament rheostat can be used.

The charging current rate for a 4 volt accumulator is as follows:—  
With a resistance of 10 ohms., approx. 130 mA.  
With a resistance of 20 ohms. approx. 105 mA.

With a resistance of 30 ohms. approx. 85 mA.

The adjustment, roughly, is as follows:

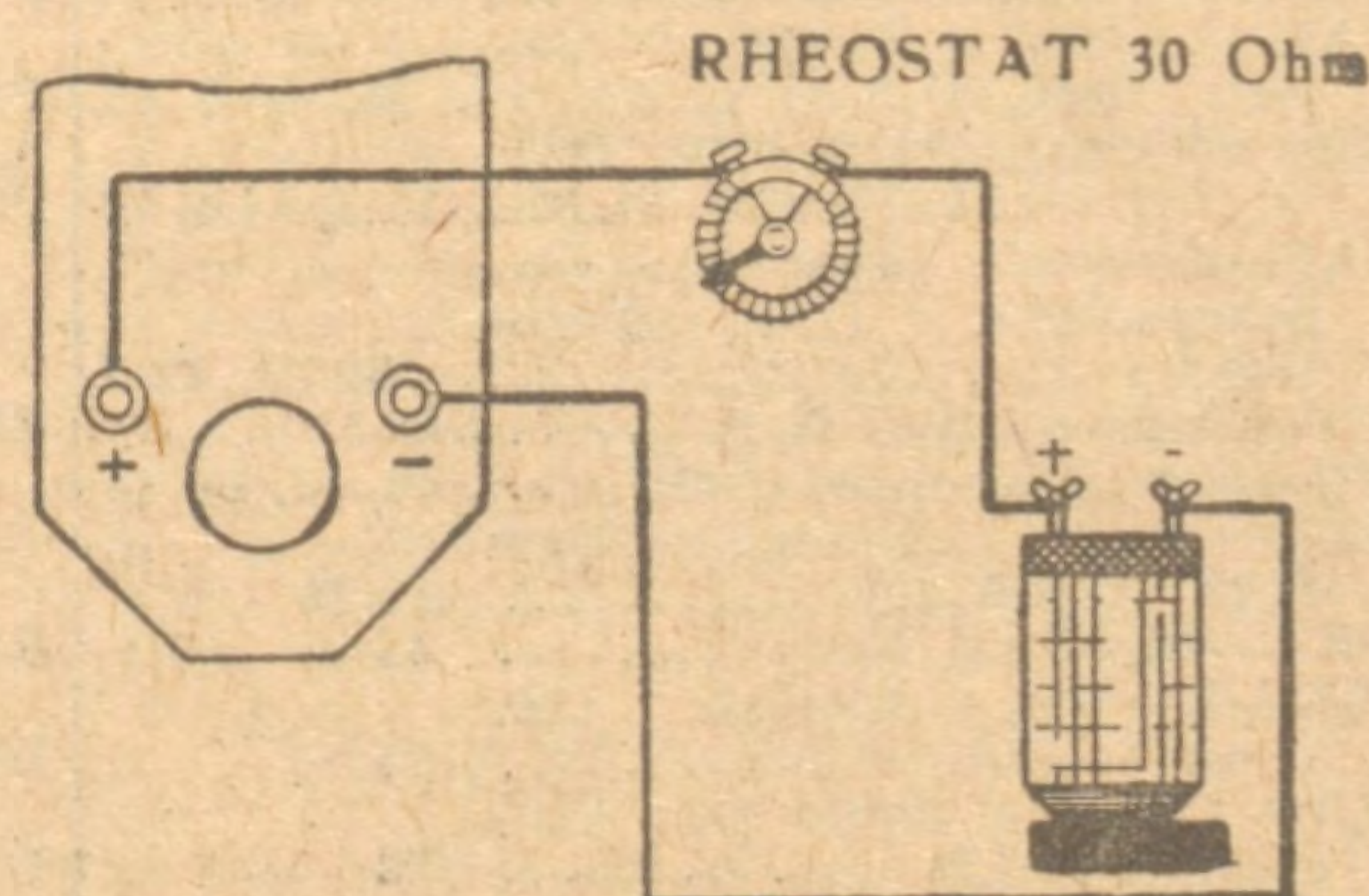
Example: Suppose a receiving apparatus is provided with four valves, having a total filament consumption of 0.37 A, the mean listening time being 4 hours per day. During 4 hours the consumption will be  $4 \times 0.37$ , equals 1.48 AH. To charge the accumulator with 1.48 AH during the remaining 20 hours, the charging

rate must be 1.48: 20 equals 0.074 A equals 74 mA. If, with a view to the efficiency of the accumulator, 20 per cent. to 30 per cent. is added, the charging current rate will amount to about 90 mA. The series resistance should then have a value of 25 ohms. If the charging rate is too low the accumulator will slowly discharge itself.

For new installations, or if the accumulator has to be replaced, an accumulator of very low capacity of, say, 3 to 4 AH, will be sufficient, as it will only have to furnish current during the max. listening time in the space of 24 hours.

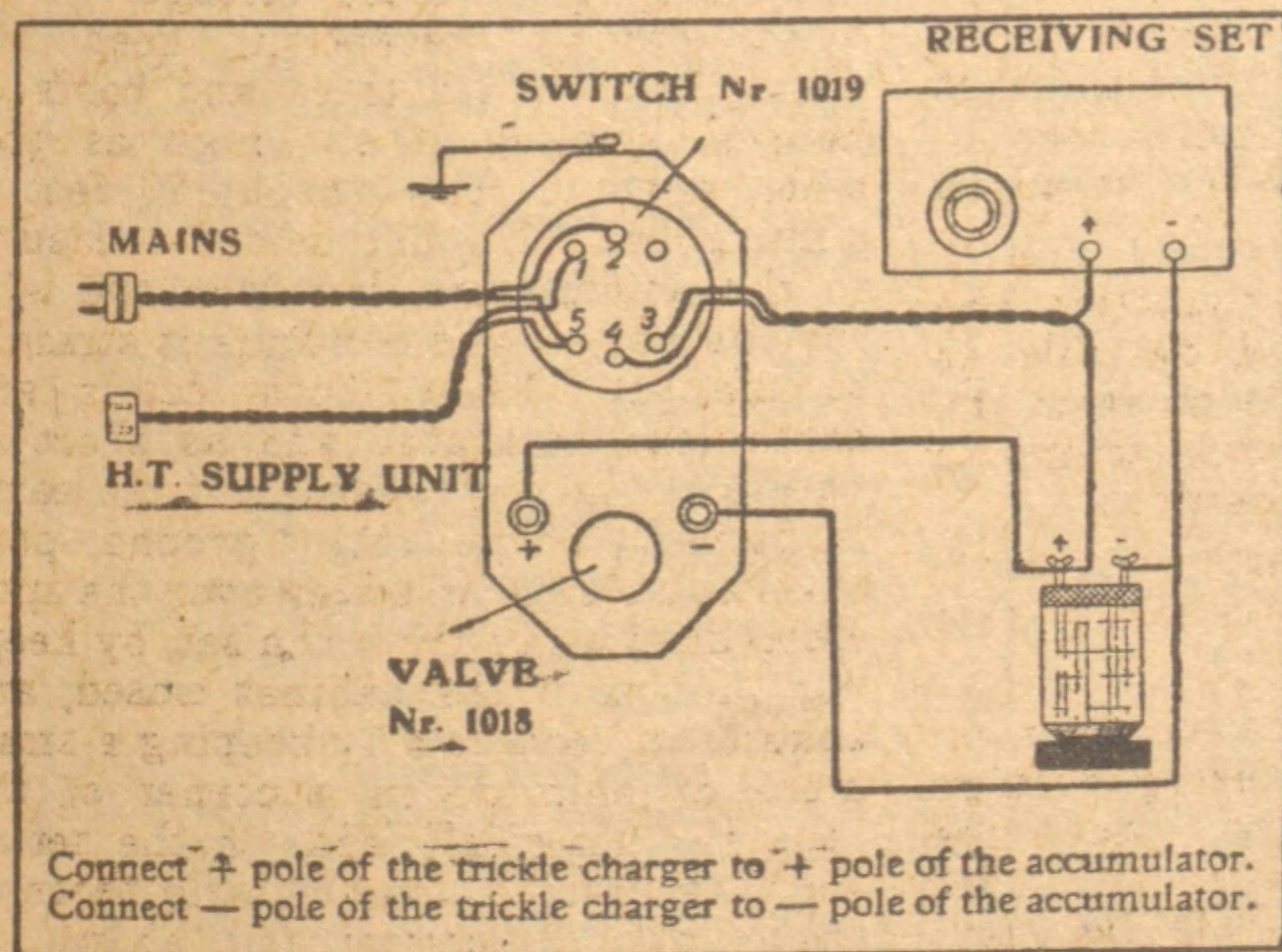
### THE RECTIFYING VALVE.

The rectifying-resistance lamp, type 1018, is mounted on a base of insulating material, and fits into an opening in the bakelite cover plate of the rectifier. At the side of this base are 3 copper contacts which are placed in such a way that the valve can only be inserted in the right manner, i.e., the bakelite base of the lamp covering the opening. The



Rheostat Control

valve is thus inserted into the trickle charger cover in a hanging position. In this way the advantage of good protection is ensured. Care should be taken to insert the valve 1018 in the correct manner.



The Switching Arrangement



# Broadcasting Stations

AUSTRALIA.			NEW ZEALAND.			EUROPE.		
New South Wales.			Metres. Watts.			Metres. Watts.		
2FC—2FC Limited, Market St., Sydney .....	442	5000	1YA—Radio B'casting Co. of N.Z., 419 Queen St., Auck.,	333	500	FL—Eiffel Tower, Paris, France	2650 & 32	5000
2BL—Broadcasters, Ltd., Bligh St., Sydney .....	353	5000	1ZB—La Gloria Gramophone Co., Auckland .....	275	50	<b>SOUTH AMERICA.</b>		
2GB—Theosophical B'casting, 29 Bligh St., Sydney .....	316	3000	1ZQ—L. R. Leith, Auckland ...	330	50	LOS—Municipality of Buenos Aires, Buenos Aires, Argentine .....	291.2	
2KY—Trades and Labour Council, Goulburn St., Sydney .....	280	1500	1ZY—N. C. Shepherd, Whangarei,	250	15	SQIA—Radio Sociedade de Rio de Janeiro, Rio de Janeiro, Brazil .....	400	
2UW—2UW Radio Ltd., 213 Elizabeth St., Sydney .....	267	500	2YA—Radio B'casting Co., Wellington .....	420	5000	<b>HAWAII.</b>		
2UE—Electrical Utilities, Ltd., 619 George St., Sydney .....	293	250	2YK—2YK Limited, Wellington .	292	120	KGM—"Honolulu Advertiser," Honolulu .....	270	500
2MK—Mockler Bros., Hawick St., Bathurst .....	275	250	2YF—Radio Club, Palmerston North .....	200	5	<b>JAPAN.</b>		
2HD—H. A. Douglas, King St., Newcastle .....	288	100	3YA—Radio B'casting Co. of N.Z., Christchurch .....	306	500	JOAK—Tokyo Central B'casting Co., Tokyo, Japan .....	375	1000
2BE—Burgin Electric Co., Ltd., 340 Kent St., Sydney .....	316	100	4YA—Radio B'casting Co. of N.Z., Dunedin .....	463	750	JOBK—Osaka Central B'casting Co., Osaka, Japan .....	385	1000
<b>Victoria.</b>			4ZB—Otago Radio Association, Dunedin .....	300	50	JOCK—Nagoya Central B'casting Co., Nagoya, Japan .....	360	1000
3LO—B'casting Co. of Aust., Ltd., 120a Russell St., Melb. ....	371	5000	<b>GREAT BRITAIN.</b>			JODK—Keijo B'casting Co., Keijo, Japan .....	345	1000
3AR—Associated Radio of Aust., Ltd., 44-46 Elizabeth St., Melb. ....	484	1600	2LO—British B'casting Co., Savoy Hill, London .....	361.4	3000	<b>DUTCH EAST INDIES.</b>		
3UZ—O. J. Nilson & Co., Bourke St., Melb. ....	319	100	2RN—Government Radio Station, Dublin, Ireland .....	319.1	1500	JFC—Bataviasche Radio, Jereen- inging, Batavia .....	220	40
3DB—Druleigh Business College, Melb. ....	255	500	5XX—British Broadcasting Co., Daventry .....	1604.3	5000	<b>PHILIPPINE ISLANDS.</b>		
<b>Queensland.</b>			<b>UNITED STATES OF AMERICA.</b>			KZRM—Radio Corp. of The Philippines, Manila, Philippine Islands .....	413	1000
4QG—Queensland Govt. Radio Service, Brisbane .....	385	5000	KDKA—Westinghouse Elec. and Mfg. Co., East Pittsburg, Pa. ....	315.6	50000	KZRQ—Radio Corp. of the Philippines, Manila, Philippine Islands .....	400	1000
4GR—Gold Radio Service, Margaret St., Toowoomba .....	294	100	KFI—Earle C. Anthony Inc., 1000 So., Hope St., Los Angeles .....	468.5	5000	KZKZ—Radio Corp. of the Philippines, Manila, Philippine Islands .....	270	500
<b>South Australia.</b>			KGO—General Electric Co., Oakland, California .....	384.4	5000	KZIB—Radio Corp. of the Philippines, Manila, Philippine Islands .....	260	500
5CL—Central B'casters, Ltd., 59 Franklin St., Adelaide .....	395	5000	KOA—General Electric Co., 1370 Krameria St., Denver, Colo. ....	325.9	5000	<b>INDIA.</b>		
5DN—5DN Pty., Ltd., 2-4 Mont- perier St., Parkside .....	313	500	WBZ—Westinghouse Elec. Co., Hotel Kimball, Springfield, Mass. ....	333.1	15000	5AF—Indian States and Eastern Agency, Calcutta, India ....	425	1500
5KA—Sport Radio Ltd., 51 Kin- tore Ave., Prospect .....	250	1000	WEAF—National B'casting Co., 195 Broadway, New York ..	491.5	50000	<b>SOUTH AFRICA.</b>		
<b>Western Australia.</b>			WGY—General Electric Co., So. Schenectady, N.Y. ....	379.5	50000	WAMG—African B'casting Assn., Cape Town, South Africa ..	375	1500
6WF—Westralian Farmers Ltd., 569 Wellington St., Perth ..	1250	5000	WJZ—National B'casting Co., 195 Broadway, New York ..	454.3	30000	JB—African B'casting Co., Johannesburg, South Africa, ..	450	500
<b>Tasmania.</b>			WGN—WGN Radio, Chicago, Ill. ....	305.9	15000			
7ZL—Tasmanian B'casters Ltd., 95 Elizabeth St., Hobart ...	535	3000	WLIB—WLIB Radio, Chicago, Ill. ....	305.9	15000			

## Short Wave Stations

GREAT BRITAIN. Wavelengths		HOLLAND. Wavelengths.		SAMOA. Wavelengths	
5SW—Marconi Company, Chelms- ford, England .....	24	PCJJ—Phillips' Experimental Station, Hilversum, Holland ..	30.2	VMC—Samoa .....	33
2YT—Poldhu, England, .....	25, 32, 92, 94	PCLL—Phillips Lamps, Ltd., Kootwijk, Holland .....	32.5, 46	<b>JAVA.</b>	
2NM—Gerald Marcuse, Queen's Park, Caterham, Surrey, England .....	32.5 and 28 metres	PCTT—Phillips' Lamps, Ltd., Kootwijk, Holland .....	21	ANF—Malabar, Java .....	56
<b>UNITED STATES.</b>		PCMM—Phillips' Lamps Ltd., The Hague, Holland .....	25	JFC—Bataviasche Radio Vereen- inging, Batavia, Java .....	220
2XAG—General Electric Co., New York, U.S.A. ....	14, 16, and 42	PCPP—Phillips' Lamps Ltd., Kootwijk, Holland .....	27	ANDIR—Bandoeng, Java .....	38.5
NXF—Bellevue, Annacosta D.C., ..	16, 17, 20.8, 84, 81.5, 71.3, 54.4, 50	PCUU—Phillips' Lamps Ltd., The Hague, Holland .....	42	ANE—ANE Radio, Malabar, Java .....	32, 31.26
2XAF—General Electric Co., Schenectady, New York, U.S.A. ....	32.77, 32.0	<b>UNION OF SOVIET SOCIALIST REPUBLICS.</b>		<b>COMMERCIAL STATIONS.</b>	
WCY—Schenectady, N.Y. ....	32.79	RFN—U.S.S.R., Moscow .....	29	VIA—Amalgamated Wireless (A/sia, Ltd.), Adelaide ...	21, 32, 50
NPG—San Francisco, Calif. ...	40, 43, 81	RFM—U.S.S.R., Khabarovsk, Siberia .....	60 and 30	VIB—Amalgamated Wireless (A/sia, Ltd.), Brisbane ...	21, 32, 50
2XAL—"Radio News," New York, U.S.A. ....	30.91	RFL—		VIT—Amalgamated Wireless (A/sia, Ltd.), Townsville ..	32
KFKX—Hastings, Nebr. ....	56	<b>ITALY.</b>		VJZ—Amalgamated Wireless (A/sia, Ltd.), Rabaul .....	17, 21, 32
WGN—Western Electric Co., Long Island, N.Y. ....	75	IMI—Unione Radiofonica Italiana, Milan .....	45 metres	VIM—Amalgamated Wireless (A/sia, Ltd.), Melbourne, ..	20, 21, 31.8, 49
WLW—Crossley Radio Co., Cin- cinatti, U.S.A. ....	52	IDO—Ido Radio, Italy .....	33.5	VIS—Amalgamated Wireless (A/sia, Ltd.), Sydney .....	20, 32, 50, 51
KDKA—Westinghouse Elec. and Mfg. Co., East Pittsburg, U.S.A. ....	63.5, 42 and 14 (8XK and 8XP).	<b>SOUTH AFRICA.</b>		VIP—Amalgamated Wireless (A/sia, Ltd.), Perth .....	21, 32, 50
WJZ, WJZ Radio, Bound Brook, N.J., U.S.A. ....	Various wavelengths	JB—Johannesburg Broadcasting Co., Cape Town, South Africa .....	20 and 25	VIY—Amalgamated Wireless (A/sia, Ltd.), Melbourne ...	25
WGY, WGY Radio, Schenectady, N.Y., U.S.A. ....	15 to 100 metres	<b>JAPAN.</b>		VIZ—Amalgamated Wireless (A/sia, Ltd.), Melbourne ...	25.72
2XAC, 2XAD, 2XAF (as above) for WGY.		JIPP—JIPP, Tokio, Japan .....	20	2ME—Amalgamated Wireless (A/sia, Ltd.), Sydney .....	28.5
WHAM and 8XAC, WHAM, Radio, Rochester, N.Y., U.S.A. ....	Various wavelengths	JKZB—JKZB, Tokio Electric Co., Tokio, Japan .....	20	3ME—Amalgamated Wireless (A/sia, Ltd.), Melbourne ...	31.5
2XG—Western Electric Co., New York, U.S.A. ....	16 and 23.	<b>GERMANY.</b>		<b>SHIP STATIONS.</b>	
<b>INDO CHINA.</b>		POX—POX, Nauen, Germany ..	70	GBE—S.S. "Niagara" .....	37, 23
HVA—Hanoi, Indo China .....	31.5	POZ—POZ Radio, Nauen, Ger- many .....	19 metres	GDZV—S.S. "Makura" .....	23, 37
		<b>SUVA.</b>		MTN—S.S. "Tahiti" .....	37, 23
		VPD—Suva Radio, Amalgamated Wireless (A/sia), Ltd. ....	37.5	GDVB—S.S. "Aorangi" .....	37, 23
				VZDK—S.S. "Jervis Bay" .....	37
				PMZ—S.S. "Tasman" .....	29, 51
				ARCX—S.S. "Nielsen Alonso" ..	30.4



# BROADCASTING PROGRAMMES

For the COMING WEEK

## Friday, May 25

Farmer's Broadcasting Service  
Wave Length, 442 Metres.

### 2FC, SYDNEY

#### EARLY MORNING SESSION.

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

#### MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.  
10.5 a.m.—Studio music.  
10.15 a.m.—"Sydney Morning Herald" news service.  
10.30 a.m.—Studio music.  
10.35 a.m.—A Reading.  
10.45 a.m.—Studio music.  
11 a.m.—"Big Ben." Studio music.  
11.5 a.m.—A.P.A. and Reuter's Cable Services.  
11.10 a.m.—Studio music.  
11.15 a.m.—A Talk on Home Cooking and Recipes by Miss Ruth Furst.

#### MIDDAY SESSION.

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

#### AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.  
3.3 p.m.—Sydney Calland, baritone.  
3.11 p.m.—Hilda Nelson, mezzo.  
3.15 p.m.—Madame Evelyn Grieg, in continuation of her talks on "The Art of Listening to Music," will deal this afternoon with "The Sonata and the Symphony."  
3.30 p.m.—Margaret Hunt, soprano: "Spring's Awakening" (Sanderson).  
3.35 p.m.—Studio music.  
3.42 p.m.—Helen Morris, soprano: "The Winds are Calling" (Landon Ronald).  
3.46 p.m.—Sydney Calland, baritone.  
3.54 p.m.—A Reading.  
4.5 p.m.—Hilda Nelson, mezzo.  
4.10 p.m.—Olga Krasnik (pupil of Henry Penn):  
Pianoforte solos:  
(a) "Idyll Gavotte" (Balfour Gardiner).  
(b) "Impromptu B Flat" (Schubert).

- 4.22 p.m.—Margaret Hunt, soprano: "An Open Secret" (Woodman).  
4.26 p.m.—Studio music.  
4.35 p.m.—Olga Krasnik (pupil of Henry Penn):  
Pianoforte solos:  
(a) "Finale from Sonata in A Flat" (Beethoven).  
(b) "Whims" (Schumann).  
4.41 p.m.—Helen Morris, soprano: "Devotion" (Schumann).  
4.45 p.m.—Stock Exchange, third call.  
4.47 p.m.—Olga Krasnik (pupil of Henry Penn):  
Pianoforte solo:  
"Rhapsody No. 5" (Liszt).  
4.54 p.m.—Studio music.

#### EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.  
5.45 p.m.—The "Hello Man" talks to the children.  
6.10 p.m.—A programme for the Children by Juvenile Pupils of Madame Ada Baker:  
(a) "Duet, "Mother" (Hosmer).  
Bruce and Leslie Penman.  
(b) Solo, "Mandy and the Spider" (Tombo).  
Mary Wilson.  
(c) Recitations by Joan Punch.  
(c) Solo, "The Gift" (Behrend).  
Roma Larrer.  
(d) Violin Ensemble, "Primrose Dance" (Krogmann).  
(e) Solo, "Open the Gates of the Temple." Bruce Penman.  
6.30 p.m.—Late sporting news, told by the 2FC Racing Commissioner.  
6.35 p.m.—Dalgety's market reports (wool, wheat and stock).  
6.45 p.m.—Fruit and vegetable markets.  
6.50 p.m.—A talk in connection with Empire Shopping Week.  
7 p.m.—"Big Ben." Dinner music.  
7.30 p.m.—"Evening News" late news service.

#### EVENING SESSION.

#### A THEATRICAL NIGHT.

- 7.40 p.m.—Programme announcements.  
7.45 p.m.—From the Studio:  
W. F. Kay will continue his series of theatrical talks dealing this evening with Edmund Kean.  
8.0 p.m.—From Her Majesty's Theatre, Sydney. A theatrical transmission.  
9.10 p.m.—From the Studio:  
Eileen Boyd, Contralto.  
9.18 p.m.—The Sydney Instrumental Trio:  
Lionel Lawson, Violinist.  
Gladstone Bell, 'cellist.  
Lindley Evans, Pianist.  
9.28 p.m.—John Dellore, Tenor.  
9.36 p.m.—Lindley Evans, Piano Solos.  
9.45 p.m.—Eileen Boyd, Contralto.  
9.52 p.m.—Gladstone Bell, 'Cello Solos.  
10.0 p.m.—"Big Ben." Mr. Medley and Mr. Motley.  
10.10 p.m.—John Dellore, Tenor.  
10.18 p.m.—Lionel Lawson, Violin Solos.  
10.25 p.m.—Sydney Instrumental Trio.  
10.36 p.m.—From the Ambassadors:  
The Ambassadors' Dance Orchestra. Conductor, Al Hammet.  
10.44 p.m.—Studio Items.  
10.50 p.m.—Ambassadors.  
10.57 p.m.—From the Studio. Late news and to-morrow's programme.  
11.0 p.m.—"Big Ben." The Ambassadors' Dance Orchestra in popular numbers until 11.45 p.m.

## 2BL, SYDNEY

Broadcaster's, Ltd.

Wave Length 353 Metres.

FRIDAY, 25th MAY, 1928.

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

#### MORNING SESSION.

- 10.30 a.m.—G.P.O. Clock and chimes.  
Musical programme from studio.  
11 a.m.—G.P.O. Clock and chimes.  
Talk on "Hockey" by Miss Gwen Varley, Broadcasters Womens Sports Authority.  
Talk on "Feeding the Family" by Mrs. Jordan.  
12 noon.—G.P.O. Clock and chimes.  
Special Ocean forecast and weather report.  
12.3 p.m.—Musical programme from the studio.  
12.12 p.m.—Information, Mails, Shipping, and port directory.  
12.15 p.m.—Boats in call by wireless.  
12.17 p.m.—Fruit Market report.  
12.19 p.m.—Vegetable Market report.  
12.21 p.m.—London Metal Market report.  
12.23 p.m.—Dairy Farm and Produce Market report.  
12.26 p.m.—Fish Market report.  
12.28 p.m.—Rabbit Market report.  
12.30 p.m.—H.M.V. Gramophone recital.  
1.30 p.m.—G.P.O. Clock and chimes.  
Talk to children and special entertainment for children in hospital.  
2 p.m.—G.P.O. Clock and chimes.  
Close down

#### AFTERNOON SESSION.

- Racing information broadcast immediately after each race by courtesy of the "Sun."  
3 p.m.—G.P.O. Clock and chimes.  
Talk by Miss Constance Duncan, Secretary Y.W.C.A., Kyoto of Japan.  
3.15 p.m.—Civil Service Stores Trio—direction Miss de Courcey Bremer.  
3.30 p.m.—G.P.O. Clock and chimes.  
Talk on "Sweets" by Miss Kathleen Jordan.  
4 p.m.—G.P.O. Clock and chimes.  
Civil Service Stores Trio.  
4.15 p.m.—News Session.  
4.35 p.m.—Musical programme from studio.  
4.50 p.m.—News from the "Sun."  
4.57 p.m.—Features of evenings programme.  
4.59 p.m.—Racing resume.  
5 p.m.—G.P.O. Clock and chimes.  
Close down.

#### EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and chimes.  
Children's Session.  
6.30 p.m.—Gulbransen Dinner Music.

#### SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. Clock and chimes.  
Racing resume.  
Australian Mercantile Land and Finance Co.'s report.  
Weather report and forecast by courtesy of Govt. Meteorologist.  
Producers Distributing Society's Fruit and Vegetable Market report.  
Stock Exchange report.  
Grain and Fodder report ("Sun.")  
Dairy Produce report ("Sun.")  
N.R.M.A. Report.  
7.15 p.m.—Country News from the "Sun."



- 7.50 p.m.—Talk on "Gardening Science" by Mr. Cooper, Park Superintendent, City Council.
- 8 p.m.—G.P.O. Clock and chimes. Broadcasters Topical Chorus.
- 8.3 p.m.—Variety Hour. King's Mandolin Orchestra.
- 8.10 p.m.—Miss Nan Kain, soprano.
- 8.17 p.m.—Mr. Thomas King, novelty pianist.
- 8.24 p.m.—Mr. Bobby Watson, comedian.
- 8.31 p.m.—King's Mandolin Orchestra.
- 8.38 p.m.—Miss Nan Kain.
- 8.45 p.m.—Mr. Thomas King.
- 8.52 p.m.—Mr. Bobby Watson.
- 8.59 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist.
- 9 p.m.—G.P.O. Clock and chimes.
- 9.1 p.m.—Mr. C. Dexter, Turf expert of the "Sun" newspapers will talk on the prospects of Saturday's racing.
- 9.15 p.m.—Miscellaneous hour. Miss Hilda Boyle, soprano.
- 9.22 p.m.—Miss C. L. Robertson, elocutionist.
- 9.29 p.m.—Mr. Clement Q. Williams, baritone.
- 9.36 p.m.—Broadcasters Instrumental Trio.
- 9.43 p.m.—Miss Hilda Boyle.
- 9.50 p.m.—Miss C. L. Robertson.
- 9.57 p.m.—Mr. Clement Q. Williams.
- 10.4 p.m.—Broadcasters Instrumental Trio.
- 10.11 p.m.—Resume of following day's programme.
- 10.15 p.m.—Romano's Restaurant Dance Orchestra under the direction of Mr. Merv. Lyons. During intervals between dances "Sun" news will be broadcast.
- 11.30 p.m.—G.P.O. Clock and chimes. National Anthem.

## 2GB, SYDNEY

Theosophical Broadcasting Service.  
Wave Length, 316 Metres.

FRIDAY, 25th MAY, 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 a.m.—Close down.

### AFTERNOON SESSION.

- 2 p.m.—Music.
- 2.20 p.m.—Talk.
- 2.35 p.m.—Music.
- 3 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.
- 7.30 p.m.—Talk.
- 8 p.m.—Opening Chorus.
- 8.2 p.m.—Violin Solos by Mr. Dan Scully.
- 8.9 p.m.—Songs by Mr. Will Stelzer.
- 8.15 p.m.—Address by Dr. P. K. Roest and A. E. Bennett.
- 8.30 p.m.—Cornet Solos by Mr. Phil Couchman.
- 8.37 p.m.—Songs by Miss Billie Kirkham.
- 8.45 p.m.—Music by the Orchestra from Hoyt's de Luxe Theatre.
- 9 p.m.—Humorous Recital by Mr. Heath Burdock.
- 9.20 p.m.—Violin solos by Mr. Dan Scully.
- 9.28 p.m.—Songs by Mr. Will Stelzer.
- 9.35 p.m.—Songs by Mr. Phil Couchman.
- 9.42 p.m.—A Humorous Reading.
- 9.50 p.m.—Songs by Miss Billie Kirkham.
- 10 p.m.—Close down.

## 2 UW, SYDNEY

Sandel Radio, Ltd.

Wave Length, 267 Metres.

FRIDAY, 25th MAY, 1928.

### EVENING SESSION.

- 7 p.m.—Studio items.
- 7.10 p.m.—Where to go session.
- 7.15 p.m.—Dinner music.
- 7.50 p.m.—Dance music.
- 8.10 p.m.—News, Mails and shipping.
- 8.25 p.m.—Vocal and instrumental items.
- 8.50 p.m.—Weather report.
- 8.53 p.m.—Request numbers.
- 9.10 p.m.—Orchestral and dance music.
- 10 p.m.—Close down.

## 3LO, MELBOURNE.

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

FRIDAY, 25th MAY, 1928.

### EARLY MORNING SESSION.

- 7.15 a.m.—Morning melodies.
- 7.20 a.m.—PHYSICAL CULTURE EXERCISES (to music).
- 7.27 a.m.—Morning melodies.
- 7.33 a.m.—FORECAST FOR ALL STATES. Mails.
- 7.40 a.m.—NEWS.
- 8 a.m.—Melbourne Observatory time signal.
- 8.1 p.m.—Morning melodies.
- 8.5 a.m.—NEWS. Sporting information. Shipping. Stock Exchange fluctuations.
- 8.13 a.m.—Morning melodies.

### MORNING SESSION.

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

### CHARLOTTE RUSSE.

- $\frac{1}{2}$  pint of cream.
- 1oz. castor sugar.
- $\frac{1}{2}$  jelly packet or 1 gill lemon jelly.
- 6 drops essence of vanilla.
- $\frac{1}{4}$ oz. gelatine.
- 1 gill milk.
- 12 finger biscuits.

Dissolve jelly and pour into a plain mould. Allow to set. Cut edges off biscuits and line the mould with them, fitting tightly together. Soak gelatine in milk, then dissolve in saucepan. Whip the cream stiffly and flavor with sugar and vanilla, pour in the gelatine, not too hot or the cream will curdle. Stir lightly and pour into prepared mould. Allow to set. Turn out in the usual way and decorate with the remainder of the jelly.

Note.—Vanilla cream may be used instead of cream in the above.

HAVE YOU ENTERED FOR THE FREE HOLIDAY TRIP TO BUFFALO?

- 11.5 a.m.—MATRON BARTLETT will speak on:  
"Vegetarian Cookery."
- 11.20 a.m.—Musical interlude.
- 11.25 a.m.—"Au Fait"—  
"Shopping at Home."
- 11.40 a.m.—Musical interlude.
- 11.45 a.m.—Under the auspices of the Department of Public Health, DR. PAUL ROWAN, District Health Officer, will speak on:  
"Effectual Control of Infectious Diseases."

### MIDDAY SESSION.

- 12 noon.—Melbourne Observatory time signal.
- 12.1 p.m.—Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. British

official wireless news from Rugby. Reuter's and the Australian Press Association cables. "Argus" news service.

### LIFE AND LOVE.

#### A PROGRAMME OF MOODS.

- 12.20 p.m.—THE GYPSY PLAYERS:  
"The Strength of Life—The Joy of Life."  
"Three Dances" (Finck).

- 12.30 p.m.—ELLA RIDDELL, contralto, and THE GYPSY PLAYERS:

"We are such stuff as dreams are made of—  
Our little life is rounded with a sleep."  
Poem for contralto voice.

"Dreams" (Wagner).

This is one of a set of five songs which Wagner wrote in 1857. Two of them were later published as "Studies for Tristan and Isolde." While Wagner was working upon this music drama, he found a melody from the song dreams constantly recurring to his mind, and used it in the love music of the drama.

### INTERLUDE.

- 12.35 p.m.—Stock Exchange information.

- 12.38 p.m.—THE GYPSY PLAYERS:

"I will grasp Fate by the throat—it shall not  
utterly crush me."

"Fate" (Ketelby).

"Maestoso" (Ascher).

- 12.48 p.m.—J. ALEXANDER BROWNE, baritone:

"Life—With its Laughter and Sorrow."

Prologue from "Pagliacci" (Leoncavallo).

- 12.55 p.m.—THE GYPSY PLAYERS:

"On her lover's arm she leant,

And round her waist she felt it fold,

And far across the hills they went,

To that new world which is so old."

Bridal music from "Lohengrin" (Wagner).

- 1 p.m.—Melbourne Observatory time signal.

- 1.1 p.m.—ELLA RIDDELL, contralto, songs:

"Thank God for Life, Thank God for Love."

"A Song of Thanksgiving" (Allitsen).

"Thanks be to God."

### INTERLUDE.

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

- 1.15 p.m.—J. ALEXANDER BROWNE, baritone:

"Dust thou are, to dust returnest

Was not spoken of the soul."

Song, "Invictus" (Huhn).

"'Tis better to have loved and lost,

Than never to have loved at all."

Song, "The Lute Player" (Allitsen).

- 1.22 p.m.—BERTHA JORGENSEN, violin:

"In a Lover's Garden" (Ketelby).

- 1.32 p.m.—THE GYPSY PLAYERS:

"What is our life but a series of preludes to that unknown song, the first solemn note of which is sounded by death. The enchanted dawn of every existence is heralded by love."

"Omar Tone Poems" (Hale).

- 1.45 p.m.—Close down.

### AFTERNOON SESSION.

- 2.15 p.m.—THE STATION ORCHESTRA:

"First Movement from—The Unfinished Symphony" (Schubert).

- 2.25 p.m.—ELSIE DAVIES, soprano:

Dance Songs (Montague Phillips).

"The Gavotte."

"The Minuet."

"The Gigue."

- 2.32 p.m.—THE STATION ORCHESTRA:

"Victor Herbert's Favorites."

- 2.40 p.m.—FRANK AND FRANCIS LUIZ:

Steel Guitar, "Kawaihau Waltz."

Songs, "Isles of Paradise."

"Calm Hawaiian Seas."

- 2.52 p.m.—THE STATION ORCHESTRA:

"The Baby's Opera" (Byhng).

- 3 p.m.—Melbourne Observatory time signal.



## 3.1 p.m.—FRANCES FRASER:

"Prologue from Travels with Byron."  
"The Glory that was Greece  
And the Grandeur that was Rome."

## 3.15 p.m.—THE GYPSY PLAYERS:

"Faust" (Gounod).

## 3.25 p.m.—SENIA CHOSTIAKOFF, tenor:

"Evening Bells"—with organ accompaniment by Agnes Fortune (Jaroff).

## 3.32 p.m.—DOROTHY ROXBURGH, viola:

Selected.

## 3.35 p.m.—EILEEN BOYD, contralto:

"To my first love" (Lohr).  
"You'd better ask me" (Lohr).

## 3.42 p.m.—NETTA RODNEY, soubrette:

"I'll be lonely" (Woods).  
"The Girl Friend" (Rodgers).

## 3.49 p.m.—THE STATION ORCHESTRA:

"Witches' Dance" (McDowell).  
"Minuet from E Flat Symphony" (Mozart).

## 3.57 p.m.—TILTON and WEST—the Joy Boys:

"Where'd you Get those Eyes?"  
"Father's Little Short Shirt" (Young).

## 4.4 p.m.—THE GYPSY PLAYERS:

"Bubbles."

## 4.9 p.m.—ELSIE DAVIES, soprano:

"Lullaby" (Cyril Scott).  
"Oh, My Baby" (Clutsam).  
"Crade Song" (Schubert).

## 4.17 p.m.—THE STATION ORCHESTRA:

"The Bing Boys on Broadway" (Ayer).

## 4.24 p.m.—SENIA CHOSTIAKOFF, tenor:

"The Snowflakes" (Varlamoff).  
Aria, "Arioso from Pagliacci" (Leoncavallo).

## 4.31 p.m.—THE GYPSY PLAYERS:

Quartet, "Molte Lento" (Rubenstein).

## 4.37 p.m.—NETTA RODNEY, soubrette:

"Someday Sweetheart" (Speakes).  
"Crazy Words" (Ager).

## 4.45 p.m.—Special weather report from Adelaide for Mildura district. Announcements.

## 4.46 p.m.—EILEEN BOYD, contralto:

"My Ships" (Barratt).  
"Baby Feet Come Pitter Patter" (Kahn).

## 4.53 p.m.—THE STATION ORCHESTRA:

"Turkish Patrol."

## 4.56 p.m.—TILTON and WEST—the Joy Boys:

"Best Looking Girls" (Carlton).  
"You Can't Walk Back From an Aeroplane" (Bibo).

## 5.3 p.m.—"Herald" news service. Stock Exchange information.

## 5.18 p.m.—Close down.

During the afternoon the results will be given of the Ballarat Miners' Turf Club races as they come to hand.

## EVENING SESSION.

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

## 6.20 p.m.—DICKSON GREGORY:

Giant Atlantic Liners—The Berengaria, Leviathan, and Majestic.

## 6.35 p.m.—Musical interlude.

## 6.40 p.m.—"BILLY BUNNY."

Has a story to tell.

## NEWS AND MARKET REPORTS.

## 7 p.m.—Official report of Newmarket stock sales by the Associated Stock and Station Agents, Bourke Street, Melbourne.

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

## 7.12 p.m.—Stock Exchange information.

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

## 7.19 p.m.—River reports.

## 7.21 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd. Poultry, grain, hay, straw, jute, dairy produce. Potatoes and Onions. Market reports of fruit by the Victorian Fruitgrowers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.

## NIGHT SESSION.

## 7.30 p.m.—Under the auspices of the Department of Agriculture, J. M. WARD, Superintendent of Horticulture, will speak on

"Orchard Trees—Seasonal Treatment."

## OUT OF THE PAST.

## 7.45 p.m.—We offer our congratulations to-day to "Lloyds," who were incorporated on the 25th May, 1871.

## 7.46 p.m.—C. J. WILLIAMS will speak on "Tomorrow's Stadium Event."

## A MAKER OF HISTORY.

## 7.55 p.m.—To-day is the anniversary of the birth of EDWARD BULWER, LORD LYTTON, the famous English novelist, playwright, essayist, poet and politician, born in London in 1803.

## 7.56 p.m.—H. K. LOVE:

"Technicalities."

Mr. Love will be glad to attend to your wireless difficulties, and we ask you to write to him for any information you may require.

## 8.6 p.m.—Birthday Greetings and Programme announcements.

## OUR CONCERT PROGRAMME.

## 8.7 p.m.—ELSIE DAVIES, Soprano:

"One Fine Day" (Puccini).  
Aria, "Donna Anna"—Don Giovanni (Mozart).

## 8.14 p.m.—CAPT. KEITH GARDINER will give a talk on

"To-morrow's Aerial Derby."

## 8.24 p.m.—FRANK and FRANCIS LUIZ:

Steel Guitar: "Silver Threads Among the Gold."

Duet, "Naughty Hula Eyes."

Duet, "Maui Girl."

Steel Guitar, "Three O'Clock in the Morning."

## COMMUNITY SINGING FROM GEELONG.

## 8.30 p.m.—COMMUNITY SINGING: Transmission from Guild Hall, Geelong, under the auspices of the Free Kindergarten Council.

Conductor: Will Sampson.

Accompanists:

R. J. Dickson, C. G. England.

Choruses.

"God Bless Australia."

"Tramp, Tramp, Tramp."

"Come, Sing a Song."

Selection:

Geelong's Famous Mouth Organ Band, 22 performers. Conductor, Joe Sanders.

Choruses.

"Rule Britannia."

"I Passed by Your Window."

"Silver Threads Among the Gold."

Greetings by His Worship the Mayor of Geelong, Alderman T. Walls.

Choruses.

"Men of Harlech."

"Mademoiselle from Armentieres."

Contralto Solo, Mrs. Dobson.

Violin Obligato by Mrs. Walter Kernot.

Choruses.

"Eileen Allannah."

"Sweet Genevieve."

Selection.

Geelong Mouth Organ Band.

Choruses.

"All Hail the Power."

"Mr. Wing."

"Evening by the Moonlight."

Violin Solo, Mrs. Walter Kernot.

Choruses.

"When Johnny Comes Marching Home."

"Holy City."

Male Quartette.

Geelong Lyrich Quartette Party.

Selection.

"Lead, Kindly Light," by the Geelong Mouth Organ Band.

Choruses.

"Rubber Dolly."

"Hello, Friend."

"Good-night."

## FROM THE STUDIO.

## NEWS SESSION.

## 10 p.m.—"Argus" news service. Meteorological information. British official wireless

news from Rugby. Road notes supplied by the Royal Automobile Club of Victoria. Announcements.

## THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR

TO-DAY IS: "Do not allow anyone to ride on the running board, rear tyre, or bumper of your car."

## DON'T MISS THIS CHANCE OF VISITING MT. BUFFALO.

## 10.12 p.m.—ERIC WELCH will speak on "To-morrow's Races."

## OUR MUSICAL PROGRAMME.

## 10.19 p.m.—SENIA CHOSTIAKOFF:

"By the Fireside" (Strok).

"The Love" (Wrange).

## 10.26 p.m.—WILL PAGE, Xylophone:

Selected.

## 10.30 p.m.—NETTA RODNEY, Soubrette:

"Stay Out of the South" (Dixon).

"Red Lips" (Wendling).

## 10.38 p.m.—THE STATION ORCHESTRA:

Selection, "Rose Marie" (Friml).

## 10.45 p.m.—GORDON JAMES, Baritone:

"The Admiral's Broom" (F. Bevan).

"The Little Blue Bay" (del Riego).

## 10.52 p.m.—THE STATION ORCHESTRA:

"Andante Cantabile," from the String Quartette" (Tschaikowsky).

## 11 p.m.—Results of the Victorian Railways Institute Amateur Boxing and Wrestling Tournament.

## OUR GREAT THOUGHT:

"Be inspired with the belief that Life is a great and noble calling, not a mean and grovelling thing that we are to shuffle through as we can, but an elevated and lofty destiny."—W. E. Cladstone.

## 11.1 p.m.—GORDON JAMES, Baritone:

"King Charles" (M. V. White).

"In a Little Town Near By" (F. T. Clarke).

## A DANCE PROGRAMME.

## 11.8 p.m.—THE VAGABONDS.

## 11.40 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

Associated Radio Co.

Wave Length, 484 Metres.

FRIDAY, 25th MAY, 1928.

## MORNING NEWS SESSION.

11 a.m. to 12 noon.

## MIDDAY CONCERT SESSION.

12.1 p.m.—Transmitted from Panatope House, 252 Collins street, (by exclusive permission of Wills and Paton Ltd.) on the Brunswick Panatope.

## MATINEE SESSION.

## ORCHESTRAL DANCE CONCERT.

Sport. During the afternoon the results of the Ballarat Miners' Races, together with other information, will be broadcast immediately each race is run.

## 2 p.m.—Ayarz Dansonians:

A half-hour Dance Session by Melbourne's favorite Dance Band. All the latest popular hits, each one announced prior to its presentation.

## 2.30 p.m.—Melbourne Concert Orchestra:

"Scandinavian Suite" (Juel-Frederiksen).

## 2.45 p.m.—Miss Jessie Shmith, contralto:

"Elegie" (Massenet).

"Do not go my love" (Hageman).

## 2.53 p.m.—Melbourne Concert Orchestra:

"Souvenir de Chopin" (Oscar Petras).

## 3.8 p.m.—Miss Jessie Shmith, contralto:

"The Little Old Garden" (Hewitt).

"Baby Coon Good Night" (Cruttenden).

## 3.15 p.m.—Ayarz Dansonians:

3.30 p.m.—Announcements.

## 3.35 p.m.—A talk by Miss Stephanie Taylor on "Everyday Art."



3.45 p.m.—Melbourne Concert Orchestra:  
 "Fantasie Espagnole" (Lucious Hosmer).  
 "Prelude" (Rachmaninoff).  
 4 p.m.—G.P.O. Clock says "Four."  
 4.1 p.m.—Second Weather forecast.  
 4.3 p.m.—Mr. Bernard Thomas, tenor:  
 "Adieu Marie"  
 "The Dream" (Rubenstein).  
 4.11 p.m.—Melbourne Concert Orchestra:  
 "Invitation of the Waltz" (Weber-Berlitz).  
 "French Serenade" (Ed. Grieg).  
 "The Eagle" (MacDowell).  
 "Moonshine" (MacDowell).  
 4.29 p.m.—Mr. Bert Lack, flute:  
 "Papillon" (Kohler).  
 4.33 p.m.—Mr. Bernard Thomas, tenor:  
 "Ave Maria" (Paston Cooper).  
 "Bonny Mary of Argyle" (Nelson).  
 4.41 p.m.—Ayarz Dansonians.  
 4.55 p.m.—To-night's Entertainment.  
 Announcements.  
 5 p.m.—G.P.O. Clock says "Five."  
 God Save the King.  
**CHILDREN'S SESSION.**  
 6.30 p.m.—3AR's Cousin Peter.

**EVENING SESSION.**

**BALL ROOM AND CORNCERT HALL.**  
 7.15 p.m.—Health Session. Mr. George Beattie,  
 Principal of the Beattie College of Physical  
 Culture, on "Physical Fitness."  
 7.30 p.m.—Sport Session. "Harlequin" pre-  
 sents his budget of news and comments on  
 Sport of the Day.  
 7.50 p.m.—Macnamarra's Stock reports.  
 8 p.m.—G.P.O. Clock says "Eight."  
 8.1 p.m.—Melbourne Concert Orchestra:  
 "Ballet Music" from Giocenda (Ponchielli).  
 Suite, "By the Lake of Geneva, Part I."  
 (Bendel).  
 8.16 p.m.—Miss Mae Seaton, soubrette:  
 "Ain't that a grand and glorious feeling"  
 (Yellen).  
 "Forgive Me" (Ager).  
 8.23 p.m.—Ayarz Dansonians:  
 8.39 p.m.—Mr. William Davies, bass:  
 "Trooper Johnny Ludlow" (Temple).  
 "Peg Away" (Bevan).  
 8.46 p.m.—Mr. Herbert Pettifer, violin:  
 "Chant Hindoo" (Rimsky-Korsakov-Kreisler).  
 8.50 p.m.—Announcements.  
 "Ballet Suite" (Gretry-Mottl).  
 "Valse Poudree" (Francis Popy).  
 "Canzonetta" (Benjamin Godard).  
 9.15 p.m.—Miss Mae Seaton, soubrette:  
 "Yesterday" (Wilhite).  
 "Just a Memory" (Sherman).  
 9.21 p.m.—Ayarz Dansonians:  
 Fox trot, "So Long" (Burke).  
 Waltz, "Ramona" (Wayne).  
 Fox trot, "Mister Aeroplane Man" (Sher-  
 man).  
 9.30 p.m.—"Harlequin." Sport Results.  
 9.38 p.m.—Melbourne Concert Orchestra:  
 Selection, "Lilac Time" (Ar. Clutsam).  
 9.50 p.m.—Announcements:  
 10 p.m.—G.P.O. Clock says "Ten."  
 10.1 p.m.—Semi-Final Weather forecast,  
 specially for our Country Listeners.  
 10.3 p.m.—Ayarz Dansonians.  
 10.19 p.m.—Mr. William Davies, bass:  
 "Blow, Blow, thou Winter Wind" (Sargeant).  
 "Tom Brown" (Squire).  
 10.27 p.m.—Mr. Sam Cope, marimbaphone:  
 "Me and my shadow."  
 "Because I love you."  
 10.33 p.m.—Melbourne Concert Orchestra:  
 "Margarethe" from Faust (Ar. Stany).  
 10.50 p.m.—"Age" News Bulletin, exclusive  
 to 3AR.  
 10.58 p.m.—Final Weather forecast.  
 11.09 p.m.—Our Australian Good Night Quote  
 is taken from the poem, "The Lark" by  
 Leslie H. Allen.  
 11 p.m.—G.P.O. Clock says "Eleven."  
 God Save the King.

**4QG, BRISBANE.**

Queensland Radio Service.  
 Wave Length, 385 Metres.

FRIDAY, 25th MAY, 1928.

**MORNING SESSION.**

10.30 a.m. to 11.30 a.m.

**MIDDAY SESSION.**

1 p.m. to 2 p.m.

**AFTERNOON SESSION.**

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

**EARLY EVENING SESSION.**

6 p.m.—Mail train running times.  
 "Daily Standard" news.  
 Weather information announcements.  
 6.15 p.m.—From the Paris Cafe:  
 Dinner music.  
 6.30 p.m.—Bedtime stories by "The Sandman."  
 7 p.m.—Market reports; stock reports.  
 7.30 p.m.—Weather news; "Daily Standard"  
 news; announcements.  
 7.43 p.m.—Standard time signals.  
 7.45 p.m.—To-morrow's racing reviewed.

**NIGHT SESSION.**

Musical evening from the showroom of the  
 Music Warehouse of Messrs. King and King,  
 Ltd., arranged by Mr. Percy Brier.  
 Accompanists: Miss Victoria Blakey, Mr.  
 Arthur Sharman, Mr. James Wallis, Mr.  
 Jack Ellis, Mr. Archie Day, Mr. Percy  
 Brier.  
 8 p.m.—National Anthem.  
 8.1 p.m.—From King and King's, Ltd.:  
 Andante and Presto from Symphonie Con-  
 certante, for violin, viola and piano  
 (Mozart).  
 Miss E. Larwill, Miss G. de Grant and  
 Mr. Jack Ellis.  
 8.10 p.m.—Song:  
 "Nirvana" (Adams).  
 Mr. Les Edye.  
 8.22 p.m.—Song:  
 "Shepherd, Thy Demeanour Way" (arr.  
 Lane Wilson).  
 Miss Marie Knight-Corkran.  
 8.27 p.m.—Duet for two pianos:  
 "Nocturne" (Caesar Cui).  
 Messrs. Percy Brier and Archie Day.  
 8.34 p.m.—Song:  
 "Pale Moon" (Logan).  
 Miss Eunice Cochrane.  
 8.39 p.m.—Song:  
 "Santuzza's Song" from "Cavalleria Rusti-  
 cana" (Mascagni).  
 Miss Ivy Plane.  
 8.44 p.m.—Violin solo:  
 "Romance from the Concerto in D Minor"  
 (Wieniawski).  
 Miss Edith Larwill.  
 8.51 p.m.—Musical monologue:  
 "Just by Laughing" (Anon).  
 Miss Ruby Massey.  
 8.55 p.m.—"Love's Faith" (Brahms).  
 Miss Beatrice Pugh.  
 8.58 p.m.—Quartette for two pianos:  
 "Kaiser March" (Wagner).  
 Messrs. A. Sharman, J. Wallis, A.  
 Day, and J. Ellis.  
 9.5 p.m.—Short address by Mr. Meyers King.

**PART II.**

9.10 p.m.—Vocal duet, "Awake" (Pellissier).  
 Miss M. Knight-Corkran and Mr. Les  
 Edye.  
 9.15 p.m.—Air and Variations and Rondo from  
 Sonata in G Minor, for violin and piano  
 (Percy Brier).  
 Messrs. E. Hayne and P. Brier.  
 9.27 p.m.—Song:  
 "Songs my Mother Taught Me" (Dvorak).  
 Miss Eunice Cochrane.  
 9.31 p.m.—Song:  
 "Sing, Break into Song" (Mallinson).  
 Miss Beatrice Pugh.  
 9.34 p.m.—Viola solo:  
 "Chanson de Nuit" (Elgar).  
 Miss Gwen de Grant.  
 9.39 p.m.—Humorous monologue:  
 "Mrs. Newlywed" (Sayer).  
 Miss Ruby Massey.

9.44 p.m.—Songs:  
 (a) "In the Great Unknown" (d'Hardelet).  
 (b) "London Spring Song" (Oliver).  
 Miss Ivy Plane.  
 9.49 p.m.—Song:  
 "Asia" (Newton).  
 Mr. Les Edye.  
 9.54 p.m.—Violin solo:  
 "Meditation from Thais" (Massenet).  
 Mr. E. Hayne.  
 9.59 p.m.—Song:  
 "Pastorale" (arr. Lane Wilson).  
 Miss Marie Knight-Corkran.  
 10.4 p.m.—Duet for two pianos:  
 "Scherzo" (Saint-Saens).  
 Messrs. P. Brier and A. Day.  
 10.15 p.m.—From the Studio:  
 10.20 p.m.—"Daily Mail" news service.  
 10.24 p.m.—Weather information.  
 10.30 p.m.—Close down.

**5CL, ADELAIDE.**

Central Broadcasters, Ltd.

Wave Length, 395 Metres.

FRIDAY, 25th MAY, 1928.

**MIDDAY SESSION.**

12 noon to 2 p.m.

**AFTERNOON SESSION.**

3 p.m.—G.P.O. Chimes.  
 3.1 p.m.—Musical numbers from the Studio.  
 3.30 p.m.—Menu Talk by "Homelover."  
 3.45 p.m.—Musical numbers from the Studio.  
 4.57 p.m.—S. C. Ward and Co.'s Stock Ex-  
 change intelligence.  
 5 p.m.—G.P.O. Chimes and Close down.

**EVENING SESSION.**

6 p.m.—G.P.O. Chimes.  
 6.1 p.m.—Children's entertainment.  
 6.30 p.m.—Dinner music from the Studio.  
 6.58 p.m.—S. C. Ward and Co.'s Stock Ex-  
 change intelligence.  
 7 p.m.—G.P.O. Chimes.  
 7.1 p.m.—General Market reports by A. W.  
 Sandford and Co., A. E. Hall and Co., Dal-  
 gety and Co., S.A. Farmers' Co-operative  
 Union, Taylor Bros., Retail Grocers' Associa-  
 tion, Interstate Fruit and Produce Market.  
 7.5 p.m.—Football Talk by "High Mark."  
 7.15 p.m.—"Windbag's" Sporting Service.  
 7.30 p.m.—Relayed from Malcolm Reid & Co.'s  
 showrooms, Malcolm Reid and Co.'s Orches-  
 tra, in selections.  
 7.45 p.m.—The Versatile Coon in latest  
 melodies.  
 7.51 p.m.—Malcolm Reid and Co.'s Orchestra.  
 7.56 p.m.—Beryl Counter, soprano.  
 8 p.m.—G.P.O. Chimes.  
 8.1 p.m.—Malcolm Reid and Co.'s Orchestra.  
 8.10 p.m.—The Versatile Coon.  
 8.16 p.m.—Malcolm Reid and Co.'s Orchestra.  
 8.25 p.m.—Beryl Counter, contralto.  
 8.31 p.m.—Malcolm Reid and Co.'s Orchestra.  
 8.40 p.m.—Harold Durdin, basso.  
 8.46 p.m.—Malcolm Reid and Co.'s Orchestra.  
 8.56 p.m.—Harold Tideman, baritone.  
 9.1 p.m.—Meteorological information.  
 Weather forecast.  
 9.2 p.m.—Dagety's Wheat report.  
 9.4 p.m.—International News.  
 9.12 p.m.—The Popular Four, instrumenta-  
 lists.  
 9.19 p.m.—Harold Durdin, basso.  
 9.22 p.m.—The Popular Four.  
 9.30 p.m.—Harold Tideman, baritone.  
 9.33 p.m.—Glenelg Maison Dance Band.  
 9.53 p.m.—The Popular Four.  
 10.1 p.m.—"Advertiser" News service.  
 10.8 p.m.—"Windbag's" Sporting Service.  
 10.18 p.m.—The Popular Four.  
 10.25 p.m.—Glenelg Maison Dance Band.  
 10.55 p.m.—Meteorological information and  
 to-morrow's programme.  
 11 p.m.—G.P.O. Chimes and National Anthem.



## 6WF, PERTH

Westralian Farmer's.

Wave Length, 1250 Metres.

FRIDAY, 25th MAY, 1928.

## MIDDAY SESSION.

- 12.30 p.m.—Tune in.  
 12.35 p.m.—Markets, News, and Cables.  
 1 p.m.—Time signal.  
 1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
 1.2 p.m.—Studio Quintette, conducted by Mr. Val Smith.  
 2 p.m.—Close down.

## AFTERNOON SESSION.

- 3.30 p.m.—Tune in.  
 3.35 p.m.—Organ and Pianola music relayed from the Grand Theatre, Murray street.  
 Vocal and instrumental numbers from the Studio.  
 4.30 p.m.—Close down.

## EVENING SESSION.

- 6.45 p.m.—Tune in.  
 The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.  
 6.50 p.m.—Stories for the Kiddies by Uncles Henry, Percy and Duffy.  
 7.20 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, including vocal and instrumental artists.  
 9.35 p.m.—Health talk by Mr. H. S. Hatton, Principal of Hatton's School of Physical Culture.  
 10 p.m.—Late News items by courtesy of "The Daily News" Newspaper Co.  
 Ships within range announcement.  
 Weather report and forecast.  
 10.30 p.m.—Close down.

## 104.5 METRE TRANSMISSION.

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

## Saturday, May 26

## 2FC, SYDNEY.

## EARLY MORNING SESSION.

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

## MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.  
 10.5 a.m.—Studio music.  
 10.15 a.m.—"Sydney Morning Herald" news service.

- 10.35 a.m.—A Talk on Racing by the 2FC Racing Commissioner.  
 10.45 a.m.—Studio music.  
 11 a.m.—"Big Ben." A.P.A. and Reuter's Cable Services.  
 11.5 a.m.—A Talk on Gardening by Mr. G. J. Lockley ("Redgum").

## MIDDAY AND AFTERNOON SESSIONS.

- 12 noon—"Big Ben" and programme announcements.  
 12.2 p.m.—Stock Exchange, first call.  
 12.3 p.m.—Studio music.  
 12.10 p.m.—"Sydney Morning Herald" news and Rugby wireless news.  
 12.20 p.m.—Studio music.  
 Note: Racing events from Moorefield will be described in the running by the 2FC Racing Commissioner.  
 During racing intervals musical items will be given from the Studio.  
 From the Studio: Weather intelligence.  
 1.3 p.m.—"Evening News" midday news service.  
 1.15 p.m.—Studio music and race descriptions.  
 2 p.m.—"Big Ben."  
 Note: During intervals of racing descriptions from Moorefield, the following artists will appear at the Studios:  
 Bertha Warren, soubrette.  
 Jack Wright, novelty pianist.  
 The "Smart Set" Instrumental Trio.  
 4.45 p.m.—From the Studio:  
 Complete sporting resume.

## A COMEDY AND CHORAL NIGHT.

## EVENING SESSION.

- 7.40 p.m.—Programme announcements.  
 7.42 p.m.—Maggie Foster, Violinist.  
 7.50 p.m.—Mr. Medley and Mr. Motley.  
 8.0 p.m.—"Big Ben." Maggie Foster, Violinist.  
 8.5 p.m.—From the Conservatorium Hall, Sydney: A programme arranged by the Sydney Male Choir.  
 "O Mariners Out of the Sunlight" (Coleridge Taylor).  
 Sydney Male Choir.  
 8.14 p.m.—Violin Solos.  
 Lionel Lawson.  
 8.24 p.m.—"At Thy Feet in Adoration" (Dvorak). Soloist, Mr. N. Ellis.  
 Sydney Male Choir.  
 8.34 p.m.—Soprano Solos.  
 Gladys Verona.  
 8.45 p.m.—Pianoforte Solos.  
 Lindley Evans.  
 8.55 p.m.—(a) "O Mistress Mine" (Caber).  
 (b) "Twilight" (Dudley Buck).  
 9.10 p.m.—From the Studio: During the interval at the Conservatorium Hall: "Tune in and Listen."  
 9.20 p.m.—From the Conservatorium Hall, Sydney, the second part of the programme arranged by the Sydney Male Choir: "Nidaros" (Protheroe).  
 Sydney Male Choir.  
 9.28 p.m.—Soprano Solos.  
 Gladys Verona.  
 9.38 p.m.—Pianoforte Solos.  
 Lindley Evans.  
 9.48 p.m.—"Song of the Pedlar" (Lee Williams).  
 Sydney Male Choir.  
 9.56 p.m.—Violin Solos.  
 Lionel Lawson.  
 10.8 p.m.—"Full Fathom Five" (Dunhill).  
 Sydney Male Choir.  
 10.15 p.m.—From the Studio:  
 Willie Shine, Comedian.  
 10.23 p.m.—From the Ambassadors:  
 The Ambassadors' Dance Orchestra. Conductor, Al Hammet.  
 10.30 p.m.—From the Studio. Late weather forecast.  
 10.31 p.m.—Wally Baynes, Comedian.  
 10.40 p.m.—From the Ambassadors: Dance music.  
 10.57 p.m.—From the Studio: To-morrow's programme and late news.  
 11.0 p.m.—"Big Ben." The Ambassadors' Dance Orchestra.

## 2BL, SYDNEY

SATURDAY, 26th MAY, 1928.

## EARLY MORNING SESSION.

8 a.m. to 9 a.m.

## MORNING SESSION.

- 11 a.m.—G.P.O. Clock and chimes.  
 Social Notes by Mrs. Jordan.  
 Talk on "Simple Cooking for Children" by Mrs. Jordan.  
 12 noon.—G.P.O. Clock and chimes.  
 Special Ocean Forecast and weather report.  
 12.3 p.m.—Musical programme from the studio.  
 12.20 p.m.—News from the "Sun."  
 12.25 p.m.—Sporting and athletic fixtures.  
 12.27 p.m.—What's on at the Pictures and Theatres.  
 12.30 p.m.—Musical programme from the studio.  
 12.40 p.m.—News from the "Sun."  
 12.50 p.m.—Musical programme from the studio.  
 1 p.m.—G.P.O. Clock and chimes.  
 Close down.

## AFTERNOON SESSION.

- 2 p.m.—G.P.O. Clock and chimes.  
 During the afternoon musical programme from the studio interspersed with descriptions of the League Football Match from the Sydney Cricket Ground.  
 4.55 p.m.—Complete Metropolitan Racing resume.  
 5 p.m.—G.P.O. Clock and chimes.  
 Close down.

## EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and chimes.  
 Children's Session.  
 6.30 p.m.—Dinner Music.  
 7 p.m.—G.P.O. Clock and chimes.  
 Complete Racing resume.  
 Complete Sporting resume.  
 7.15 p.m.—News from the "Sun."  
 7.30 p.m.—Talk on "The Aborigines" by "Bringa."  
 8 p.m.—G.P.O. Clock and chimes.  
 Broadcasters Topical Chorus.  
 8.3 p.m.—The Rose Bay Winter Garden Theatre, Symphony Orchestra under the direction of Mr. Lionel Hart broadcast from the Rose Bay Theatre.  
 8.10 p.m.—The Wurlitzer organ broadcast from the Arcadia Theatre, Chatswood.  
 Organist, Mr. N. Robins.  
 8.22 p.m.—Miss Lola Estelle, songs at the piano.  
 8.29 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.  
 8.39 p.m.—Mr. Phil Mountain, comedian.  
 8.46 p.m.—Broadcast from the Stadium. A description of the boxing contest.  
 9.30 p.m.—The Rose Bay Winter Garden Theatre Symphony Orchestra.  
 9.37 p.m.—Miss Lola Estelle.  
 9.44 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.  
 9.45 p.m.—Mr. Phil Mountain.  
 10.1 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.  
 10.11 p.m.—The Wurlitzer Organ broadcast from the Arcadia Theatre, Chatswood.  
 10.20 p.m.—Resume of following day's programme.  
 10.23 p.m.—The Wentworth Cafe Orchestra, under the direction of Mr. Jimmy Elkins. During intervals between dances "Sun" news will be broadcast.  
 11.45 p.m.—G.P.O. Clock and chimes.  
 National Anthem.



## 2 UW, SYDNEY

SATURDAY, 26th MAY, 1928.

## EVENING SESSION.

- 7 p.m.—Items from Studio.  
 7.10 p.m.—Where to go session.  
 7.15 p.m.—Vocal items.  
 7.40 p.m.—Miss Marie Roberti:  
 "God's Garden of Dreams" (Godwin).  
 7.45 p.m.—News, shipping and mails.  
 8 p.m.—Dance programme by courtesy of Morley Johnson Ltd.  
 8.20 p.m.—Mr. Hugh Godwin, baritone solo:  
 "Friend of Mine" (Godwin).  
 8.25 p.m.—Continuation of dance programme.  
 8.40 p.m.—Miss Marie Roberti, soprano:  
 "June in your Garden" (Godwin).  
 8.48 p.m.—Dance music and request numbers.  
 9.10 p.m.—Duet: Miss Marie Roberti and Mr. Hugh Godwin:  
 "Sainted Mother" (Godwin).  
 9.15 p.m.—Vocal and instrumental items.  
 10 p.m.—Announcements and close down.

## 3LO, MELBOURNE.

SATURDAY, 26th MAY, 1928.

## EARLY MORNING SESSION.

- 7.15 a.m.—Morning Melodies.  
 7.20 a.m.—PHYSICAL CULTURE EXERCISES (to music).  
 7.27 a.m.—Morning Melodies.  
 7.33 a.m.—WEATHER FORECAST for all States. Mails.  
 7.40 a.m.—NEWS.  
 8.0 a.m.—Melbourne Observatory Time Signal.  
 8.1 a.m.—Morning Melodies.  
 8.5 a.m.—News; Sporting Information; Shipping; Stock Exchange Fluctuations.  
 8.13 a.m.—Morning Melodies.  
 8.15 a.m.—Close Down.

## MORNING SESSION.

- 11.0 a.m.—THE GYPSY PLAYERS:  
 "In a Lover's Garden" (Ketelby).  
 11.10 a.m.—ELSIE DAVIES, Soprano:  
 "Ave Maria" (Mascagni).  
 "Obstination."  
 11.17 a.m.—BESSIE GAUNSON, Violin:  
 "Deutscher Tans" (Mozart).  
 11.25 a.m.—SENIA CHOSTIAKOFF, Tenor:  
 "The Red Sarafan" (Russian Folk Song).  
 "Diane" (Erno Rapee and Lew Pollack).  
 11.32 a.m.—THE GYPSY PLAYERS:  
 "Cinderella Dances," Part 1 (Lohr).  
 11.42 a.m.—FRANK AND FRANCIS LUIZ:  
 Duet, "Naughty Hula Eyes."  
 Steel Guitar, "Hula Blues."  
 Selected.  
 11.53 a.m.—THE GYPSY PLAYERS:  
 Trio, "Who Knows" (Ball).

## MIDDAY SESSION.

- 12.0 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.

## FROM FAR AND NEAR.

- 12.20 p.m.—THE STATION ORCHESTRA:  
 "The Girls of Gottenberg."  
 12.30 p.m.—ELSIE DAVIES, Soprano:  
 "'Tis the Day" (Leoncavallo).  
 "I Hear You Calling Me," with orchestral accompaniment by the Station Orchestra.  
 12.37 p.m.—Stock Exchange Information.  
 12.40 p.m.—THE GYPSY PLAYERS:  
 "Cinderella Dances," Part II. (Lohr).

12.50 p.m.—SENIA CHOSTIAKOFF, Tenor:

"Elegie" (Massenet).

(With 'cello accompaniment by Helga Brennecke.)

12.57 p.m.—THE STATION ORCHESTRA:  
 Selection, "Rose Marie" (Friml).

1.4 p.m.—GORDON JAMES, Baritone:

"Cloze Props" (W. Charles).

"Ma Little Banjo" (Dichmond).

1.11 p.m.—Meteorological Information.

1.18 p.m.—NETTA RODNEY, Soubrette:

"I'd Climb the Highest Mountain."

"Fifty Million Frenchmen" (Fisher).

1.25 p.m.—THE STATION ORCHESTRA:

"Dream Melody" (Herbert).

1.29 p.m.—TILTON AND WEST, the Joy Boys:

"Happy Go Lucky Days" (Brennan).

"Timbuctoo" (Kalmar).

1.35 p.m.—Description of BASEBALL MATCH, South Melbourne v. Carlton, from South Melbourne Football Ground, by Percy Steel.

1.40 p.m.—THE STATION ORCHESTRA:  
 Popular Choruses of the Day.

1.55 p.m.—Description of BASEBALL MATCH, South Melbourne v. Carlton, from South Melbourne Football Ground, by Percy Steel.

2.0 p.m.—Description of Federal Hurdle Race, 2 miles, MOONEE VALLEY RACES, by Eric Welch.

2.5 p.m.—Description of BASEBALL MATCH, South Melbourne v. Carlton, from South Melbourne Football Ground, by Percy Steel.

## AFTERNOON SESSION.

2.15 p.m.—HARRY SHUGG'S BAND:

"Popular Catches."

2.27 p.m.—Description of Headwind Handicap, 1 mile, MOONEE VALLEY RACES, by Eric Welch.

2.35 p.m.—Description of BASEBALL MATCH, South Melbourne v. Carlton, from South Melbourne, by Percy Steel.

2.45 p.m.—HARRY SHUGG'S BAND:

Fox Trots.

2.50 p.m.—Description of LEAGUE FOOTBALL, South Melbourne v. Carlton.

2.59 p.m.—Description of Piccanniny Handicap, 5¼ furlongs, MOONEE VALLEY RACES, by Eric Welch.

3.5 p.m.—HARRY SHUGG'S BAND:

Waltzes.

3.15 p.m.—Description of LEAGUE FOOTBALL, South Melbourne v. Carlton, at the South Melbourne Football Ground, by Rod McGregor.

3.29 p.m.—Description of Commonwealth Steeple, 2 miles 8 chains, MOONEE VALLEY RACES, by Eric Welch.

3.35 p.m.—HARRY SHUGG'S BAND:

Selection, Comic Opera.

3.50 p.m.—Result of ¼ time League and Association Football.

Description of LEAGUE FOOTBALL South Melbourne v. Carlton, at the South Melbourne Football Ground, by Rod McGregor.

4.0 p.m.—Description of AERIAL DERBY, at Essendon, by Capt. Keith Gardiner.

4.15 p.m.—Result of Mt. Alexander Handicap, 1½ miles, MOONEE VALLEY RACES, by Eric Welch, held at 4.10.

4.20 p.m.—Result of ½ time League and Association Football.

Announcements.

4.25 p.m.—HARRY SHUGG'S BAND:

Dance Music.

4.30 p.m.—Description of LEAGUE FOOTBALL, South Melbourne v. Carlton, at the South Melbourne Football Ground, by Rod McGregor.

4.38 p.m.—Description of Keilor Handicap, 6 furlongs, MOONEE VALLEY RACES, by Eric Welch.

4.45 p.m.—Description of LEAGUE FOOTBALL, South Melbourne v. Carlton, at the South Melbourne Football Ground, by Rod McGregor.

5.0 p.m.—Results of ¾ time League and Association Football.

5.1 p.m.—Description of LEAGUE FOOTBALL, South Melbourne v. Carlton.

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

5.25 p.m.—Close Down.

5.50 p.m.—Final Scores of League and Association Football, Sporting Results. The Results of Hawkesdale Races will be given as they come to hand.

## EVENING SESSION.

5.55 p.m.—Sporting Results.

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

6.20 p.m.—CAPTAIN DONALD MACLEAN, The Spanish Conquests—How the Dons discovered the Treasures of the World.

6.35 p.m.—Musical Interlude.

6.40 p.m.—"LITTLE MISS KOOKABURRA": Story for the Little Ones, "Marjorie's Dream Fairy."

Next Instalment of "Pickles and Prowl."

7.0 p.m.—Sporting Results.

7.5 p.m.—"Herald" News Service; Weather Synopsis; Shipping Movements.

7.12 p.m.—Stock Exchange Information.

7.17 p.m.—River Reports.

7.20 p.m.—Market Reports.

## NIGHT SESSION.

7.30 p.m.—FREDERICK CHAPMAN, A.L.S., F.G.S., Palaeontologist of the National Museum, will speak on:

"FLINTS—THEIR USES AND ORIGIN."

7.45 p.m.—DR. J. A. LEACH will speak on: "Ground Parrots."

## OUT OF THE PAST.

8.0 p.m.—On the 26th May, 1920, the Prince of Wales arrived in Melbourne.

Birthday Greetings and Programme Announcements.

CAMP FIRE CONCERT COMPETITION.

8.1 p.m.—CONCERT PROGRAMME BY THE FIRST PRESTON TROOP—Troop Cry.

Troop Chorus, "Men of Harlech."

Violin Selection ..... Cub A. James

Part Song, "Drifting and Dreaming."

Recitation ..... P. L. Keith Gorrie

Piano Selection ..... P. L. H. Rackham

Solo and Chorus, "Yearning,"

Cub. Carnaffan

Cornet Selection ..... P. L. James

Items by the Camp Jazz Band.

Comicalities ... Asst. Cub. Master Gray

Troop Parting Song.

## A MAKER OF HISTORY.

This is the anniversary of Thomas Moore, the popular Irish Poet, born in 1779.

"My birthday! What a different sound

That word had in my youthful ears;

And how, each time the day comes round,

Less and less white its mark appears!

When first our scanty years are told,

It seems like pastime to grow old."

## A CLASSICAL HALF HOUR.

8.26 p.m.—ELSIE DAVIES, Soprano:  
 Balletella from "Pagliacci" (Leoncavallo).

Saper Vorreste (Mozart).

8.33 p.m.—THE GYPSY PLAYERS:

"Romeo and Juliet" (Gounod).

8.41 p.m.—SENIA CHOSTIAKOFF, Tenor:

"Come Back to Sorrento"—Serenade From

Romeo and Juliet.

"It is Peaceful and Serene" (Sobolevskia).

8.48 p.m.—Description of To-night's Event at the Stadium by Eric Welch.

## FROM THE STUDIO.

## FROM SUNNY SEAS.

10.30 p.m.—THE STATION ORCHESTRA:  
 Cavatina from "The Barber de Seville."10.37 p.m.—FRANK AND FRANCIS LUIZ:  
 Hawaiian Melodies.10.45 p.m.—THE STATION ORCHESTRA:  
 Selection of Hawaiian Melodies with Vocal

Accompaniment by Frank and Francis

Luiz.

10.50 p.m.—TILTON AND WEST:  
 "The Best Looking Girls" (Carlton).

"The Whisper Song" (Friend).

## LATE SPORTING RESULTS.

10.57 p.m.—Late Sporting Results.

THE ROYAL AUTOMOBILE CLUB OF

VICTORIA'S SAFETY MESSAGE FOR TO-

DAY IS:—

"If you expect other persons to avoid

injuring your children, you should take care

not to injure the children of others."



11.7 p.m.—OUR GREAT THOUGHT:

"Dreams pass, work remains. They tell us that not a sound has ever ceased to vibrate through space; that not a ripple has ever been lost upon the ocean. Much more it is true that not a true thought, nor a pure resolve, not a loving act has ever gone forth in vain.

—F. W. Robertson.

MAY I HAVE THE PLEASURE?

11.8 p.m.—THE VAGABONDS.

11.40 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

SATURDAY, 26th MAY, 1928.

MORNING NEWS SESSION.

11 a.m. to 12 noon.

MIDDAY CONCERT SESSION.

12 noon to 1 p.m.

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

MATINEE SESSION.

ORCHESTRAL DANCE CONCERT.

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

2 p.m.—Ayarz Dansonians.

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

2.30 p.m.—Melbourne Concert Orchestra:

Suite, "Tales by Moonlight" (Vincent Thomas).

"Four selected pieces" (R. Friml).

2.50 p.m.—Miss Vera Thomson, soprano:

"Spring" (Henschel).

"Serenata" (Tosti).

2.58 p.m.—Melbourne Concert Orchestra:

Suite, "From India" (Francis Popy).

"Extase Melodieuse" (Joseph Littau).

3.13 p.m.—Mr. Newstead Rush, bass:

"In Summertime on Bredon" (Graham Peel).

"The Sword of Ferrara" (Bullard).

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

"Souvenir de Sorrento" (Papini).

"Elegie" (Ernst).

3.30 p.m.—Announcements.

3.40 p.m.—Melbourne Concert Orchestra:

Selection, "Puppets" (Novello).

Suite, "Petite Suite Moderne" (Fréd. Rosse).

4 p.m.—G.P.O. clocks says Four.

4.1 p.m.—Second weather forecast.

4.3 p.m.—Miss Vera Thomson, soprano:

"The Winds in the South" (Scott).

"Dan Cupid" (Mana-Zucca).

4.11 p.m.—Melbourne Concert Orchestra:

"Pious Bach" (Ernst Urbach).

4.26 p.m.—Mr. Ronald Brearley, 'cello:

"Lullaby" (B. Phillips).

4.29 p.m.—Mr. Newstead Rush, bass:

"My Abode" (Schubert).

"The Desert" (Emanuel).

4.37 p.m.—Melbourne Concert Orchestra:

"As once in happier days" (Popper).

"Menuett" (Mozart).

"Violin Solo from Sylvia" (Delibes).

"The Savoy English Medley" (Somers).

4.55 p.m.—To-night's entertainment.

Announcements.

5 p.m.—G.P.O. clock says Five.

God Save the King.

CHILDREN'S SESSION.

6.30 p.m.—"Brer Rabbit's" entertainment.

EVENING SESSION.

DANCE CONCERT.

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

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

8 p.m.—G.P.O. clock says Eight.

8.1 p.m.—Ayarz Dansonians.

8.16 p.m.—Mr. Robert Allen, alto:

"Macushla" (McMurrough).

"Friend o' Mine" (Sanderson).

8.23 p.m.—Ayarz Dansonians.

8.39 p.m.—Mr. Sam Cope, marimbaphone:

"Aloha Oe."

8.42 p.m.—The Sundowners' Male Quartet:

"Nigger Lullaby" (Kounts).

"Ain't it a Shame" (Gaul).

8.50 p.m.—Announcements.

9 p.m.—Ayarz Dansonians.

9.16 p.m.—Mr. Herbert Sanderson, baritone:

"Dedication" (Schumann).

"The Blind Ploughman" (Clarke).

9.24 p.m.—Ayarz Dansonians.

9.40 p.m.—The Sundowners' Male Quartet:

"Russian Lullaby" (Berlin).

"Yankee Rose" (Frankl).

9.48 p.m.—Announcements.

10 p.m.—G.P.O. clock says Ten.

10.1 p.m.—Semi-final weather forecast, specially for our country listeners.

10.3 p.m.—Ayarz Dansonians.

10.12 p.m.—Mr. Tom Semple, tenor:

"Morning" (Oley Speaks).

"When the Night with Stilly Silence"

(Robertson).

10.20 p.m.—Ayarz Dansonians.

10.36 p.m.—Mr. Tom Semple (tenor) and Mr.

Herbert Sanderson (baritone):

Duet, "Passing By" (Purcell).

10.38 p.m.—Mr. Robert Gillard, bass:

"Up from Somerset" (Sanderson).

"A Song of Hope" (Wood).

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

10.52 p.m.—To-morrow's entertainment.

Announcements.

10.58 p.m.—Final weather forecast.

10.59 p.m.—Our Australian Good-night Quote is taken from the poem, "Primroses," by William Gay.

11 p.m.—G.P.O. clock says Eleven.

God Save the King.

## 4QG, BRISBANE

SATURDAY, 26th MAY, 1928.

NO MORNING SESSION.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

The B.A.T.C. Race Meeting will be described from the Albion Park Racecourse.

A description of the B.A.T.C. races.

5 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—News bulletin for distant listeners supplied by courtesy of "The Queenslander."

6.30 p.m.—Bedtime stories by "Uncle Ben" and "Uncle Pete."

7.15 p.m.—Racing results.

7.20 p.m.—To-day's sporting news described.

7.30 p.m.—Sailing notes by Mr. Fred Smith.

NIGHT SESSION.

8 p.m.—National Anthem.

8.1 p.m.—Half-hour of fun by Billy Maloney, assisted by Miss Dulcie Maloney and Miss Eileen Cusack.

8.35 p.m.—Soprano solos:

(a) "They Say" (Evans).

(b) "A Request" (Woodforde-Finden).

Miss Annie Adams.

8.42 p.m.—Three bracketed numbers by the Kao Maole Duo (steel and Spanish guitars): (a) "Huia Hula," (b) "Waltz Kawaihau," (c) "March Kohala."

8.52 p.m.—FROM THE TIVOLI THEATRE: Orchestral music.

FROM THE SPEEDWAY—

Finals and semi-finals will be described between selections from the Tivoli Theatre.

10 p.m.—FROM THE STUDIO:

"Sunday Mail" news.

10.5 p.m.—Weather information.

10.10 p.m.—Close down.

## 5CL, ADELAIDE.

SATURDAY, 26th MAY, 1928.

MORNING SESSION.

11 a.m.—G.P.O. Chimes.

11.1 a.m.—"Advertiser" News Service and International News.

11.30 a.m.—Musical numbers from the Studio.

12 noon.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

1 p.m.—Relayed from Victoria Park race-course, a running description of events of the first day of the Adelaide Racing Club's Birthday Cup meeting, by Mr. Arnold Treloar. Riders and positions will be given 15 minutes before each race, and the relay will be interspersed with League football and interstate results from the studio.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.

6.1 p.m.—Children's entertainment.

6.30 p.m.—Dinner Music from the Studio.

7 p.m.—G.P.O. Chimes.

7.1 p.m.—S. C. Ward and Co.'s Stock Exchange intelligence.

7.8 p.m.—Talk by Rev. G. E. Hale, B.A.:

"Voice Production."

7.23 p.m.—"Items of Interests," by C. G. Riley

7.38 p.m.—Football resume by "High Mark."

7.45 p.m.—Interstate and local sporting results.

8 p.m.—G.P.O. Chimes.

8.1 p.m.—Solomon Sisters, Instrumental Trio for Piano, 'Cello, and Violin.

8.11 p.m.—Mostyn Skinner, baritone.

8.18 p.m.—Solomon Sisters.

8.26 p.m.—Ken Hughes, tenor.

8.32 p.m.—Solomon Sisters.

8.40 p.m.—Mostyn Skinner, baritone.

8.43 p.m.—The Glenelg Maison Dance Band.

9.1 p.m.—International News.

9.6 p.m.—Solomon Sisters.

9.12 p.m.—Seth Smith, banjoist.

9.18 p.m.—Ken Hughes, tenor.

9.21 p.m.—Solomon Sisters.

9.27 p.m.—Glenelg Maison Dance Band.

9.55 p.m.—Seth Smith, banjoist.

10.1 p.m.—Interstate and local sporting results.

10.15 p.m.—Solomon Sisters.

10.22 p.m.—Seth Smith, banjoist.

10.26 p.m.—Glenelg Maison Dance Band.

10.55 p.m.—To-morrow's programme.

11 p.m.—G.P.O. Chimes and National Anthem.

## 6WF, PERTH.

SATURDAY, 26th MAY, 1928.

MIDDAY SESSION.

12 noon.—Tune in.

12.5 p.m.—Musical programme, including pianoforte selections by Miss Evelyn Willis, A.R.C.M.

12.47 p.m.—Markets, News, and Cables.

1 p.m.—Time signal.

1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.

1.2 p.m.—Close down.



## AFTERNOON SESSION.

- 3.15 p.m.—Tune in.  
 3.20 p.m.—Sporting Session.  
 Musical programme from the studio, including vocal and instrumental numbers.  
 Racing results and Football scores (quarter time scores).  
 5.30 p.m.—Close down.

## EVENING SESSION.

- 6.45 p.m.—Tune in.  
 The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.  
 6.50 p.m.—Stories for the Kiddies by Uncles Henry, Percy and Duffy.  
 7.10 p.m.—Sports results.  
 7.20 p.m.—Markets, News, and cables.  
 7.45 p.m.—Talk.  
 8 p.m.—Time signal.  
 8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
 Station announcements such as alterations to programmes, etc.  
 8.3 p.m.—Music and Song.  
 Musical programme from the studio, including vocal and instrumental artists.  
 Old time dance music relayed from the Unity Theatre, Beaufort street.  
 9 p.m.—From the Theatre.  
 Second half of the Vaudeville programme given by Pat Hanna and his Diggers, relayed from the Theatre Royal.  
 10 p.m.—Late News items by courtesy of "The Daily News" Newspaper Co.  
 Ships within Range announcement.  
 Weather report and forecast.  
 Sports results.  
 10.30 p.m.—Close down.  
 104.5 METRE TRANSMISSION.  
 Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 6.45 p.m.

## Sunday, May 27

### 2FC, SYDNEY

## MORNING SESSION.

- 10.45 a.m.—Programme announcements.  
 10.50 a.m.—From the Christ Church, St. Laurence, Sydney:  
 The Morning Service.  
 12.10 p.m.—From the Studio:  
 News service and studio music.  
 12.30 p.m.—Close down.

## AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.  
 3.5 p.m.—From the Lyceum Hall, Pitt Street, Sydney:  
 Pleasant Sunday Afternoon Service, arranged by the Central Methodist Mission.  
 Central Methodist Mission.  
 3.30 p.m.—From the Band Rotunda, Manly Beach:  
 The Manly Municipal Band, conducted by James Pheloung.  
 4 p.m.—"Big Ben."  
 From the Lyceum Hall, Pitt Street, Sydney:  
 Continuation of the Service arranged by the Central Methodist Mission.  
 4.30 p.m.—From the Band Rotunda, Manly Beach:  
 The Manly Municipal Band.  
 Conductor, James Pheloung.  
 5 p.m.—"Big Ben." Close down.

## EVENING SESSION.

- 6 p.m.—"Big Ben" and programme announcements.  
 6.3 p.m.—Harold Hickey, tenor.  
 6.10 p.m.—Claire Hartge, violinist.  
 6.17 p.m.—Harold Hickey, tenor.  
 6.23 p.m.—Claire Hartge, violinist.  
 6.30 p.m.—From the Petersham Congregational Church:  
 Organ and Orchestral Programme.  
 Organist, A. F. Gibbs, L.L.C.M.

- Orchestral Leader, Roy Scott.  
 Organ, "Priere eb Berceuse" (Quilmant).  
 Orchestra (with Organ):  
 (a) "Jewels."  
 (b) "Whosoever will."  
 (c) "Pass me not."  
 (d) "Ninety and nine."  
 (e) "The Lifeboat."  
 Organ, "Andante" (Violin Concerto) (Mendelssohn).  
 Orchestra (with Organ):  
 "Trummarai" (Schumann).  
 Organ, "Andante in G" (by request) (Batiste).  
 Orchestra (with Organ):  
 (a) "Ave Maria" (Dignum).  
 (b) "Rocked in the Cradle."  
 (c) "Ring the Bell."  
 (d) "O Rest in the Lord."  
 Cathedral Chimes.

- 7.10 p.m.—The Evening Service from the Congregational Church, Petersham:  
 Preacher, Rev. A. P. Doran.

- 8.30 p.m.—From the Band Rotunda, Manly Beach:  
 The Manly Municipal Band,  
 Conducted by James Pheloung.

- 9.30 p.m.—From the Studio:  
 Vladimir Elin, Russian baritone.

- 9.38 p.m.—Kathleen Roe, Pianoforte solos:  
 (a) "Triana" (Albeniz).  
 (b) "Molly on the shore" (Crainger).

- 9.46 p.m.—Dulcie Cherry, soprano.  
 9.54 p.m.—Kathleen Roe, pianoforte solo:  
 "Nuit d'ete" (Liapounan).

- 10 p.m.—"Big Ben."  
 Vladimir Elin, Russian baritone.

- 10.10 p.m.—National Anthem.  
 Close down.

## 2BL, SYDNEY.

SUNDAY, 27th MAY, 1928.

## MORNING SESSION.

- 10.45 a.m.—"Sun" news service.  
 11 a.m.—Service broadcast from Chalmers Presbyterian Church.

## AFTERNOON SESSION.

- 2 p.m.—G.P.O. Clock and chimes.  
 Special session for children in hospitals.  
 2.15 p.m.—H.M.V. Gramophone recital.  
 2.45 p.m.—Information Service.  
 3 p.m.—G.P.O. Clock and chimes.  
 Close down.  
 3.30 p.m.—Organ recital broadcast from Chalmers Presbyterian Church.  
 4.30 p.m.—H.M.V. Gramophone recital.  
 5 p.m.—G.P.O. Clock and chimes.  
 Close down.

## EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and chimes.  
 Children's Session.  
 7 p.m.—Special Service broadcast from the Young Women's Christian Association, Liverpool street, Sydney.  
 8.30 p.m.—The North Sydney Tramway Band broadcast from Manresa Hall, North Sydney.  
 9.15 p.m.—From the studio.  
 Miss Lotys Lescaut, soprano.  
 9.22 p.m.—Broadcasters Instrumental Trio.  
 9.29 p.m.—Mr. Cyril James, baritone.  
 9.36 p.m.—Mr. Bryce Carter, cellist.  
 9.43 p.m.—Miss Lotys Lescaut.  
 9.50 p.m.—Broadcasters Instrumental Trio.  
 9.57 p.m.—Mr. Cyril James.  
 10.4 p.m.—Resume of following day's programme.  
 Weather report and forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist.  
 10.8 p.m.—Mr. Bryce Carter.  
 10.15 p.m.—G.P.O. Clock and chimes.  
 National Anthem.

## 2 UW, SYDNEY

SUNDAY, 27th MAY, 1928.

## MORNING SESSION.

- 10.30 a.m.—Studio items.  
 10.45 p.m.—Special H.M.V. Recital by courtesy of The Gramophone Co., 163 Pitt St. Sydney.  
 11.30 a.m.—Vocal and instrumental selections.  
 12 noon.—Request numbers.  
 12.30 p.m.—Announcements and close down.

## EVENING SESSION.

- 7 p.m.—Studio items.  
 7.10 p.m.—Instrumental and vocal items.  
 7.30 p.m.—Talk by Mr. J. M. Prentice—the original "Uncle Jack" of 2BL.  
 7.50 p.m.—Items from the studio.  
 8.10 p.m.—Request numbers.  
 8.50 p.m.—Weather forecast.  
 8.55 p.m.—Instrumental and vocal items.  
 9.30 p.m.—Announcements and close down.

## 3LO, MELBOURNE.

SUNDAY, 27th MAY, 1928.

## MORNING SESSION.

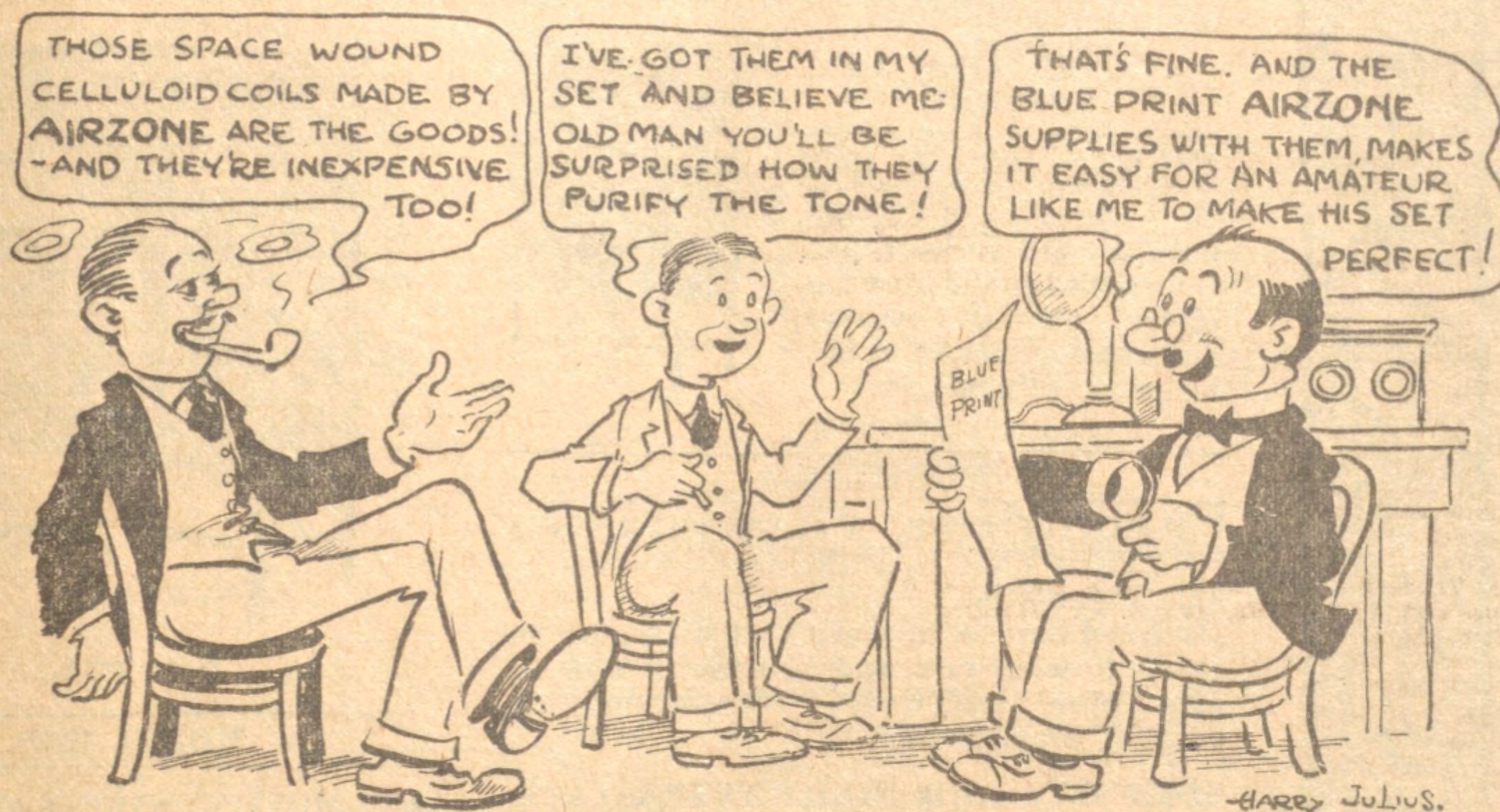
- 10.30 a.m.—Bells from St. Paul's Cathedral, Melbourne.  
 10.45 a.m.—Express train information.  
 British Official Wireless news from Rugby.  
 News from yesterday's papers.  
 11 a.m.—MORNING SERVICE FROM SCOTS CHURCH, COLLINS STREET, MELBOURNE:  
 Preacher, Rev. Dr. James Black, M.A., of St. George's United Free Church, Edinburgh, Scotland.  
 Organist, Mansley Greer.  
 Hymn 18. Prayer. Prose Psalm 84.  
 Chant 314. Old Testament Lesson. Anthem, "Come, O Creator Spirit" (Tertius Noble). The Lord's Prayer (the congregation, standing, will unite). Sermon.  
 Prayer. Intimations. Offering. Offertory. Andantino in E Minor (Batiste).  
 Hymn 146. Benediction.  
 12.15 p.m.—Close down.

## AFTERNOON SESSION.

- 2 p.m.—SONORA RECITAL OF THE WORLD'S MOST FAMOUS RECORDS:  
 (1) ORCHESTRAL. Symphony No. 2 in E Flat. Op. 63. The London Symphony Orchestra, conducted by Sir Edward Elgar, O.M.  
 (2) ARIA. Don Quixote—Final Scene (Theodor Chaliapin, bass). (The Death of Don Quixote.) (Massenet) Parts 1 and 2.  
 (3) ORCHESTRAL: "Barbiere di Siviglia"—Overture, Parts 1 and 2 (Rossini). Berlin State Opera Orchestra, conducted by Dr. Leo Blech.  
 (4) CHORUS: "Carmen"—Opening Chorus. Cigarette Chorus. Smugglers' Chorus. March and Chorus (Bizet). (Royal Opera House Chorus and Orchestra, conducted by Signor V. Bellezza.)  
 (5) ORCHESTRAL. — Invitations to the Waltz. Parts 1 and 2 (Weber). (Philadelphia Symphony Orchestra, conducted by Leopold Stokowski).  
 3 p.m.—PLEASANT SUNDAY AFTERNOON SERVICE FROM CENTRAL MISSION, WESLEY CHURCH, LONSDALE STREET, MELBOURNE:  
 CHAIRMAN, REV. J. H. CAIN.  
 Hymn No. 112. "Ye Servants of God, Your Master Proclaim." Prayer, Rev. C. Irving Benson. Orchestral Selection, Mr. G. M. Williams, conductor. Hymn No. 100, "Have you had a kindness shown?" Solo, Miss Muriel Cheek. Orchestra. Solo, Miss Muriel Cheek. Notices. Offering. Orchestra. ADDRESS. National Anthem. Benedictions. Orchestra.  
 4.30 p.m.—Close down.

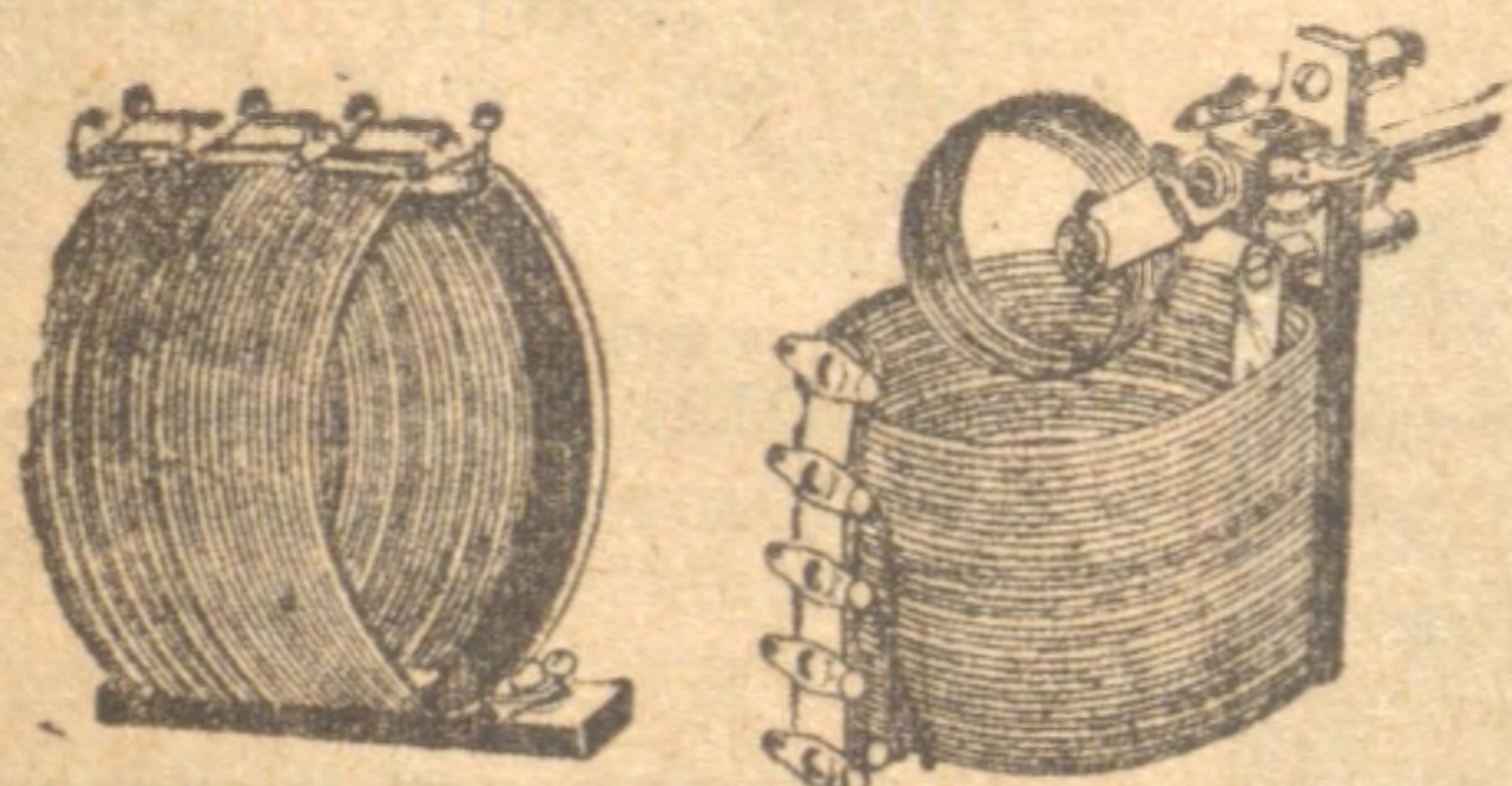


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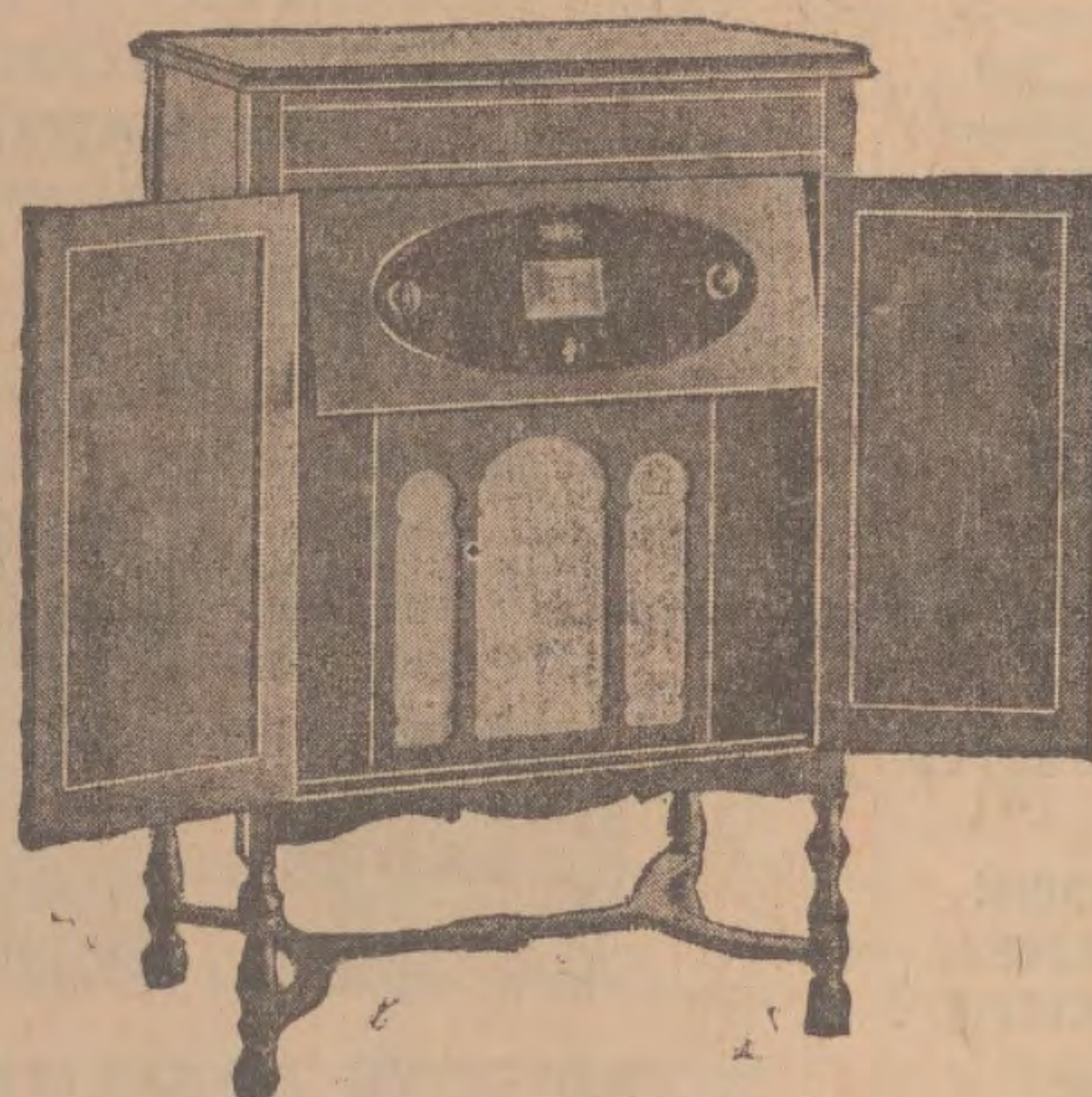
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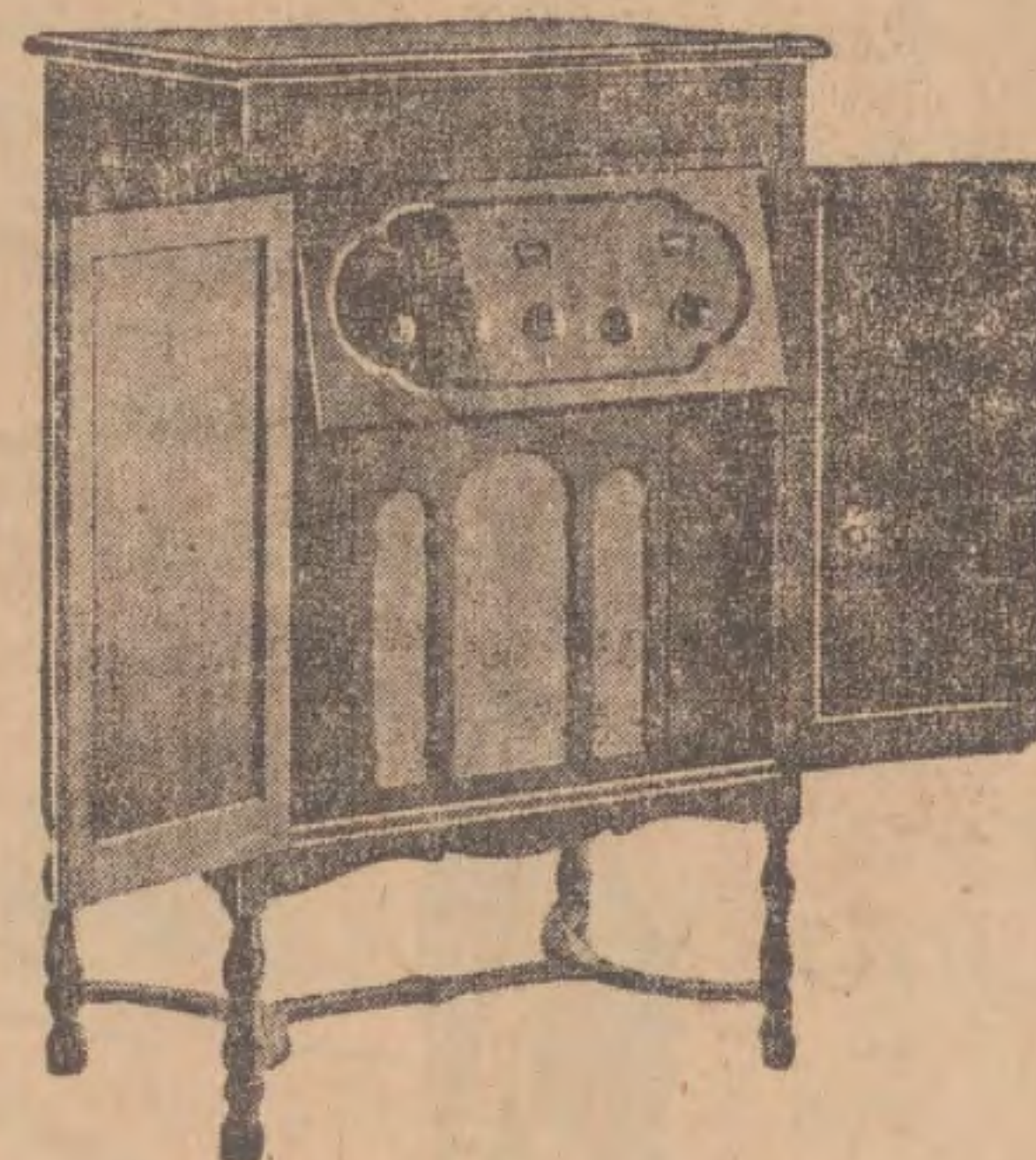
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Model 105A.

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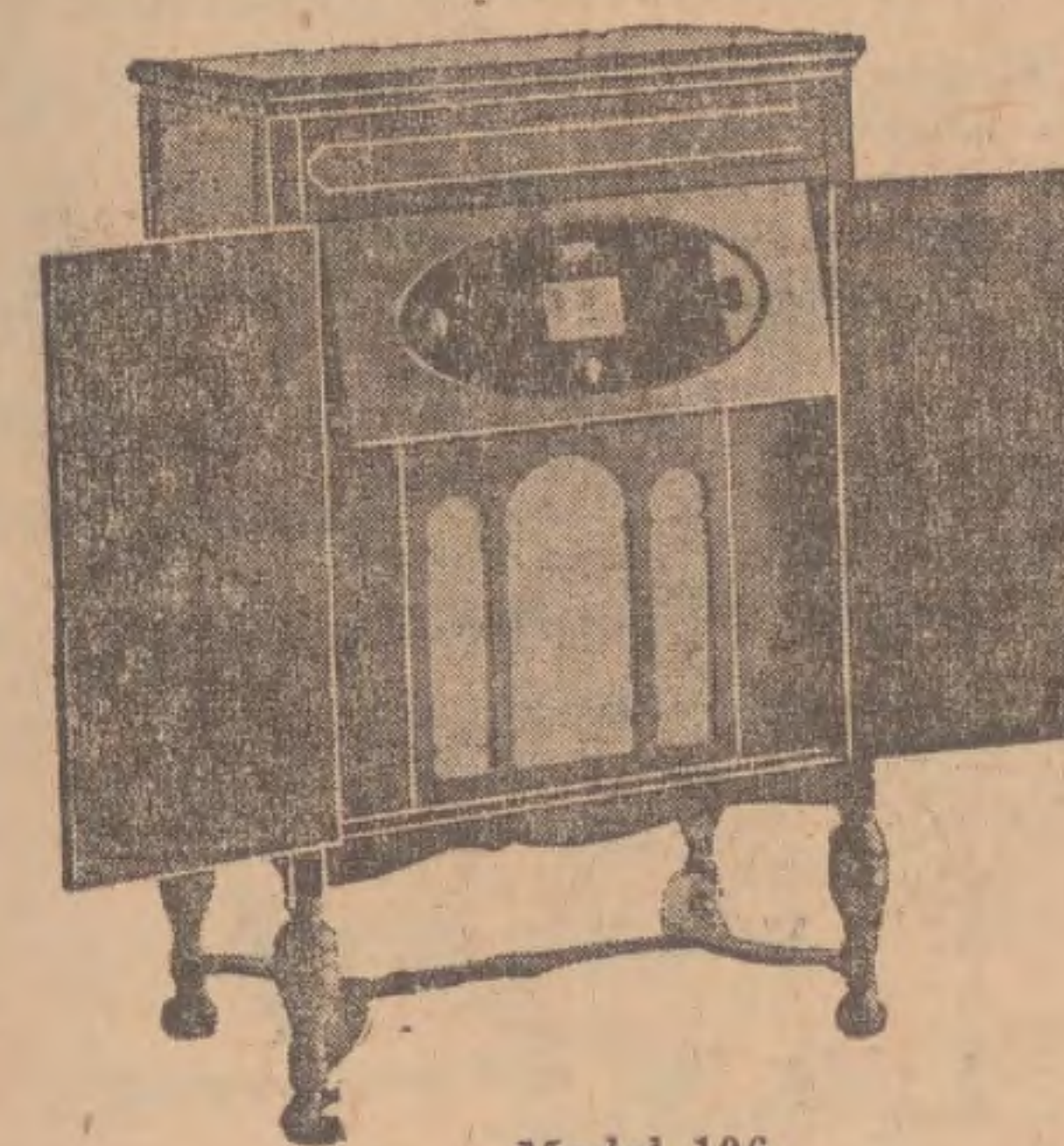
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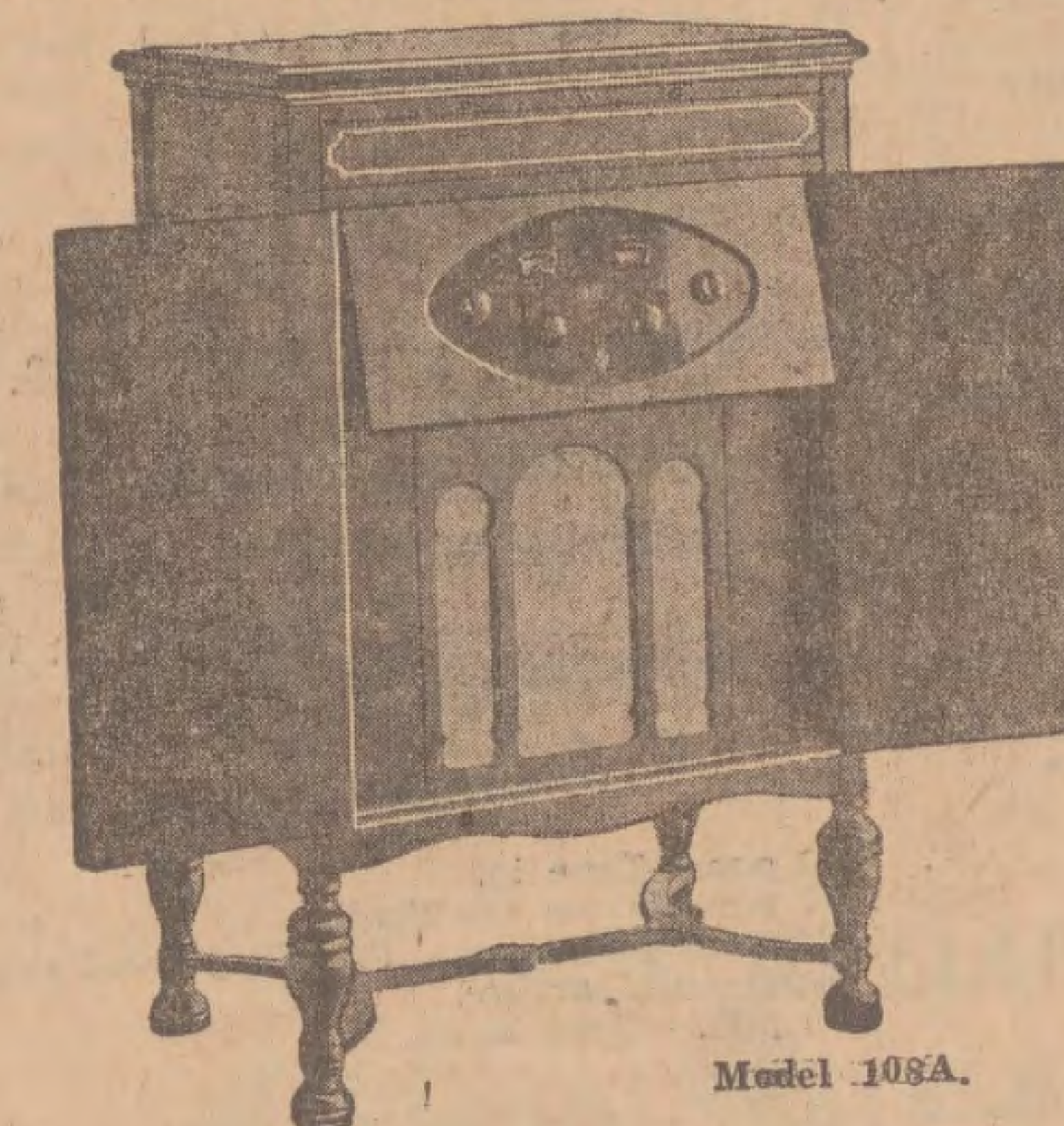
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## EVENING SESSION.

- 6 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."  
 6.25 p.m.—BROTHER BILL:  
 "Look before you leap."  
 6.45 p.m.—Bells from St. Paul's Cathedral.

## EVENING SESSION FROM ST. PAUL'S CATHEDRAL.

- 7 p.m.—EVENING SERVICE FROM ST. PAUL'S CATHEDRAL:  
 Hymn (A. and M.) 155, "Spirit of mercy, truth and love." Sentence. Exhortation. General Confession. The Absolution. The Lord's Prayer. Versicles and Responses (Festal). Psalm 104. 1st Lesson, Isaiah 11/1-9. Magnificat. 2nd Lessons, Galatians 5/13-end. Nunc Dimittis. The Apostles' Creed. The Collects. The Anthem, "Come, O Creator Spirit, Come" (Tertius Noble). Prayers. Hymn 524, "Come to our poor nature's night." The Sermon, THE DEAN. Hymn 154, "When God of old came down from Heaven." The Benediction.

## FROM THE STUDIO:

- 8.30 p.m.—Birthday Greetings and Programme announcements. Island shipping movements.  
 8.32 p.m.—Record feature of the week.  
 8.35 p.m.—BRUNSWICK CITY BAND:  
 Overture, "Chanson de Soir."  
 8.45 p.m.—SENIA CHOSTIAKOFF, tenor:  
 "Amor ti Vieta" (Umberto Giordano).  
 "The Light Shades" (Zuboff).  
 8.52 p.m.—BRUNSWICK CITY BAND:  
 Air Varie, "Abide with Me" (Rimmer).  
 9 p.m.—WESLEY CHURCH CHOIR: Conductor, William G. James:  
 "Give rest, O Christ" (from the Russian church).  
 "Hail Gladdening Light" (Martin).  
 9.7 p.m.—BRUNSWICK CITY BAND:  
 Romanza, "Le Desir" (Bach).  
 Hymn, "Kyrie" (Mozart).  
 9.16 p.m.—EILEEN BOYD, contralto:  
 "Praise."  
 "The Lost Chord."  
 9.23 p.m.—BRUNSWICK CITY BAND:  
 March, "Thro Bolts and Bars" (Ticke).  
 Meditation, "A Summer Night" (Rimmer).  
 9.33 p.m.—WESLEY CHURCH CHOIR:  
 "O Gladsome Light" (Sullivan).  
 "Gloria" (Mozart).  
 9.40 p.m.—SENIA CHOSTIAKOFF, tenor:  
 "Autumn Asters" (Harito).  
 "When the night with stillly silence (Robertson).  
 9.47 p.m.—BRUNSWICK CITY BAND:  
 Selected.  
 9.50 p.m.—"Argus" news service.  
 Announcements.  
 10.1 p.m.—"GOD SAVE THE KING."

## 4QG, BRISBANE.

SUNDAY, 27th MAY, 1928.

## MORNING SESSION.

- 11 a.m.—FROM ST. JOHN'S CATHEDRAL.  
 Morning Service.  
 12.30 p.m.—Close down.

## AFTERNOON SESSION.

- 2.15 p.m.—FROM THE BOTANIC GARDENS.  
 Band Concert.  
 4.30 p.m.—Close down.

## NIGHT SESSION.

- 7 p.m.—FROM ST. JOHN'S CATHEDRAL.  
 Children's Service, conducted by the Church of England Diocese of Religious Education:

Hymns (English Hymnal). 604, "O Dearest Lord by All Adored"; 157, "Our Blest Redeemer"; 155, "Come, Thou Holy Spirit, Come"; 488, "The Church of God a Kingdom is." Lesson, Acts 2, 1-4.  
 7.30 p.m.—Evening Service.

## FROM WICKHAM PARK:

Band Concert.  
 9.30 p.m.—Close down.

## 5CL, ADELAIDE.

SUNDAY, 27th MAY, 1928.

## MORNING SESSION.

- 10.45 a.m.—Carillon of bells from St. Andrew's Church, Walkerville.  
 11 a.m.—G.P.O. Chimes.  
 11.1 a.m.—Morning Divine Service from Archer Street Methodist Church.  
 12.10 p.m.—International News, time announcement and close down.

## AFTERNOON SESSION.

- 3 p.m.—G.P.O. Chimes.  
 3.1 p.m.—Sacred concert from Archer Street Methodist Church.  
 4 p.m.—G.P.O. Chimes and close down.

## EVENING SESSION.

- 6.30 p.m.—G.P.O. Chimes.  
 6.31 p.m.—Carillon of bells from St. Andrew's Church Walkerville.  
 6.30 p.m.—Running Time of East-West Express.  
 6.37 p.m.—Sunday Stories for the children by "The Bird Lady."  
 7 p.m.—G.P.O. Chimes.  
 7.1 p.m.—Evening Divine Service from Maughan Church.  
 8.15 p.m.—Sacred Concert from Maughan Church.  
 9.10 p.m.—Recital of Classical music from the Studio.  
 9.30 p.m.—Talk by Mr. P. H. Nicholls:—"Whit-Sunday."  
 9.45 p.m.—Talk by Mr. A. L. Brown, "Adelaide's Churches."  
 10.1 p.m.—Meteorological information and tomorrow's programme.  
 10.3 p.m.—International News and close down.

## 6WF, PERTH.

SUNDAY, 27th MAY, 1928.

## MORNING SESSION.

- 10.45 a.m.—Tune in.  
 11 a.m.—Morning service relayed from Museum Street Baptist Church, West Perth.  
 12.15 p.m.—Close down.

## AFTERNOON SESSION.

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

## EVENING SESSION.

- 7 p.m.—Tune in.  
 The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.  
 7.5 p.m.—Children's bedtime stories.  
 7.30 p.m.—Evening service relayed from Lake Street Church of Christ, Perth.  
 8.45 p.m.—From the Studio.  
 Musical programme, including vocal and instrumental artists.  
 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.

Monday, May 28  
2FC, SYDNEY.

## EARLY MORNING SESSION.

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

## MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.  
 10.5 a.m.—Studio music.  
 10.15 a.m.—"Sydney Morning Herald" news service.  
 10.30 a.m.—Studio music.  
 10.35 a.m.—Late Racing information by the 2FC Commissioner.  
 10.45 a.m.—Studio music.  
 11 a.m.—"Big Ben." Studio music.  
 11.5 a.m.—A.P.A. and Reuter's Cable Services.  
 11.15 a.m.—A talk on Home Cooking and Recipes by Miss Ruth Furst.  
 11.30 a.m.—Close down.

## MIDDAY SESSION.

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

## AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and announcements.  
 3.5 p.m.—A Recital of H.M.V. Records.  
 3.30 p.m.—Jeanette Rooney, contralto.  
 3.34 p.m.—Cliff Hanney, violinist.  
 3.40 p.m.—Constance Cooper, soprano:  
 "John" (Lohr).  
 3.44 p.m.—Colin Ferret, basso:  
 "Sombre Woods" (Lully).  
 3.48 p.m.—Barbara Briscoe, contralto:  
 (a) "O thank me no't" (Mallinson).  
 (b) "Sleepy Hollow Tune" (Komatz).  
 3.56 p.m.—Cliff Hanney, violinist.  
 4.5 p.m.—Esther Herford, soprano:  
 "Little Lady of the Moon" (Eric Coates).  
 4.8 p.m.—Jeanette Rooney, contralto.  
 4.12 p.m.—Cliff Hanney, violinist.  
 4.17 p.m.—Constance Cooper, soprano:  
 "Ferryman Love" (Borsdorf).  
 4.21 p.m.—Studio music:  
 Pianoforte reproductions.  
 4.35 p.m.—Colin Ferret, basso:  
 "Rolling Down to Rio" (Edward German).  
 4.38 p.m.—Studio music.  
 4.45 p.m.—Stock Exchange, third call.  
 4.47 p.m.—Esther Herford, soprano:  
 "Spring dropped a Song into my Heart" (Fenner).  
 4.50 p.m.—Studio music.  
 5 p.m.—"Big Ben." Close down.



## LONDON REBROADCAST.

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What is considered to be the most successful effort to rebroadcast an overseas station was that of 3LO, Melbourne, on Saturday morning last between 8 o'clock and 29 minutes past 8 o'clock, when station 5SW, London, was rebroadcast. The signals were remarkably strong, and the transmission of both speech and music was so clear that almost every part of the programme during the whole of the rebroadcasting was perfectly audible.—"Argus," April 30.

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## EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.  
 5.45 p.m.—The "Hello Man" talks to the children.  
 6.25 p.m.—Children's music.  
 6.30 p.m.—Late sporting news.  
 6.35 p.m.—Dalgety's market reports (wheat, wool and stock).  
 6.43 p.m.—Fruit and vegetable markets.  
 6.45 p.m.—Stock Exchange information.  
 6.48 p.m.—Weather and shipping news.  
 6.50 p.m.—Studio talk.  
 7 p.m.—"Big Ben." Dinner music.  
 7.20 p.m.—Late "Evening News" news service.

## EVENING SESSION.

- 100 Voices and 30 Flutes make Sweet Music.  
 7.40 p.m.—Programme announcements.  
 7.42 p.m.—Laurence Macaulay, baritone:  
 (a) "Drink to me only" (Quilter).  
 (b) "Sea Fever" (Ireland).  
 7.48 p.m.—Graham Kent, in continuation of his series of Bridge Talks, will deal this evening with: "The Experts."  
 8 p.m.—"Big Ben." From the Sydney Flute Club Rooms. A programme specially arranged for broadcasting by the Sydney Flute Club.  
 An Ensemble of 30 Flautists.  
 8.15 p.m.—From Beale's Concert Salon: The Royal Sydney Apollo Club, conducted by Arnold Mote.  
 A programme by 100 mixed voices.  
 8.45 p.m.—From the Sydney Flute Club Rooms: Continuation of the programme by the Sydney Flute Club.  
 9 p.m.—"Big Ben." From the Studio: Late weather forecast.  
 9.1 p.m.—"Mr. Medley and Mr. Motley": A Radio Innovation.  
 9.10 p.m.—Laurence Macaulay, baritone:  
 (a) "This was a Man" (Anderson). (With orchestral accompaniment.)  
 (b) "Young Dietrich" (Henschel).  
 9.17 p.m.—The 2FC Studio Orchestra, conducted by Horace Keats:  
 Overture, "Oberon" (Weber).  
 9.27 p.m.—Signor Ubaldo Russo (baritone) and Linda Bradford (soprano):  
 Duet, "Verranno a te" from "Lucia de Lammermoor" (Donizetti).  
 Baritone solo: "Calf of Gold" from "Faust" (Gounod). Signor Ubaldo Russo. (With orchestral accompaniment.)  
 9.34 p.m.—The 2FC Studio Orchestra:  
 (a) "Vision Orientale" (Bece).  
 (b) "Two light syncopated Pieces" (Coates).  
 9.48 p.m.—The "Two Melody Boys": Song and patter.  
 9.56 p.m.—The 2FC Studio Orchestra:  
 (a) "Marche Espagnole" (Volpatti).  
 (b) "Paraphrase, 'Mein Lied'" (Gumbert).  
 10.8 p.m.—Signor Ubaldo Russo (baritone) and Linda Bradford (soprano):  
 Duets, (a) "Blue Danube" (Strauss).  
 (b) "Si Vendetta" from "Rigoletto" (Verdi). (With orchestral accompaniment.)  
 10.14 p.m.—The 2FC Studio Orchestra:  
 "Popular Songs" (Dorothy Forster).  
 10.23 p.m.—Signor Ubaldo Russo (baritone) and Linda Bradford (soprano):  
 (a) Duet, "Marie, Marie" (Neopolitan Duet). (Di Capua).  
 (b) Baritone solo, "Sole Mio" (Di Capua). (With orchestral accompaniment.)  
 10.30 p.m.—Late weather forecast.  
 10.31 p.m.—"The Two Melody Boys."  
 10.38 p.m.—The 2FC Studio Orchestra, conducted by Horace Keats:  
 Selection, "Ballroom Memories" (Joyce).  
 10.57 p.m.—Late news and to-morrow's programme.  
 11 p.m.—"Big Ben." National Anthem.  
 Close down.

## 2BL, SYDNEY.

MONDAY, 28th MAY, 1928.

## EARLY MORNING SESSION.

8 a.m. to 9 a.m.

## MORNING SESSION.

- 10.30 a.m.—G.P.O. Clock and chimes.  
 Musical programme from studio.  
 11 a.m.—G.P.O. Clock and chimes.  
 Talk on "Tennis" by Miss Gwen Varley, Broadcasters Women's Sports Authority.  
 Talk on "The Breakfast Menu" by Mrs. Jordan.  
 12 noon.—G.P.O. Clock and chimes.  
 Special Ocean forecast and weather report.  
 12.3 p.m.—Musical programme from studio.  
 12.12 p.m.—Information, Mails, Shipping and port directory.  
 12.15 p.m.—Boats in call by wireless.  
 12.17 p.m.—Fruit Market report.  
 12.19 p.m.—Vegetable Market Report.  
 12.21 p.m.—Dairy Farm and Produce Market report.  
 12.26 p.m.—Fish Market report.  
 12.28 p.m.—Rabbit Market report.  
 12.30 p.m.—H.M.V. Gramophone recital.  
 1.30 p.m.—G.P.O. Clock and chimes.  
 Talk to children and special entertainment for children in hospital.  
 2 p.m.—G.P.O. Clock and chimes.  
 Close down.

## AFTERNOON SESSION.

- Race results immediately after each race by courtesy of the "Sun" newspapers.  
 3 p.m.—G.P.O. Clock and chimes.  
 News from the "Sun."  
 3.10 p.m.—Musical programme from the studio.  
 3.20 p.m.—News from the "Sun."  
 3.30 p.m.—Musical programme from studio.  
 3.40 p.m.—Dungowan Dance Band, broadcast from Dungowan Cabaret.  
 4 p.m.—G.P.O. Clock and chimes.  
 News from the "Sun."  
 4.8 p.m.—Musical programme from the studio.  
 4.15 p.m.—News Session.  
 4.30 p.m.—Dungowan Dance Band.  
 4.50 p.m.—News from the "Sun."  
 4.57 p.m.—Features of evenings programme.  
 4.59 p.m.—Racing resume.  
 5 p.m.—G.P.O. Clock and chimes.  
 Close down.

## EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and chimes.  
 Children's Session.  
 6.30 p.m.—Gulbransen Dinner Music.

## SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. Clock and chimes.  
 Racing Resume.  
 Finance Co.'s Report.  
 Weather report and forecast by courtesy of Govt. Meteorologist.  
 Producers Distributing Society's Fruit and Vegetable Market report.  
 Stock Exchange Report.  
 Grain and Fodder report ("Sun.")  
 Dairy Produce Report ("Sun.")  
 7.15 p.m.—Country news from the "Sun."  
 7.30 p.m.—Talk on "The Motor Car and its Idiosyncrasies" by Mr. Martin, Consulting Engineer.  
 8 p.m.—G.P.O. Clock and chimes.  
 8.1 p.m.—Mr. Will Clarke, basso.  
 8.8 p.m.—The Wurlitzer Organ broadcast from the Arcadia Theatre, Chatswood.  
 Organist, Mr. N. Robins.  
 8.20 p.m.—Miss Eileen Shettle, contralto.  
 8.27 p.m.—Miss Gertrude Mumby, pianist.  
 8.30 p.m.—Broadcast from the Stadium.  
 A description of the Wrestling contest by Mr. Walter E. Withrow.  
 9.30 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist.  
 9.31 p.m.—Mr. Will Clarke.  
 9.38 p.m.—Miss Gertrude Mumby.  
 9.45 p.m.—Miss Eileen Shettle, contralto.

- 9.52 p.m.—Broadcasters Instrumental Trio.  
 9.59 p.m.—Resume of following day's programme.  
 10.5 p.m.—The Wurlitzer Organ broadcast from the Arcadia Theatre, Chatswood.  
 10.25 p.m.—Romano's Restaurant Dance Orchestra under the direction of Mr. Merv. Lyons. During intervals between dances "Sun" news will be broadcast.  
 11.30 p.m.—G.P.O. Clock and chimes.  
 National Anthem.

## 2 UW, SYDNEY

MONDAY, 28th MAY, 1928.

- 7 p.m.—Studio items.  
 7.10 p.m.—Where to go session.  
 7.14 p.m.—Dinner music.  
 7.50 p.m.—Miss Lilley, mezzo soprano.  
 Selected.  
 7.57 p.m.—Studio selection.  
 8.2 p.m.—Mrs. A. Dalton, pianoforte solo.  
 Selected.  
 8.8 p.m.—News, items and shipping etc.  
 8.25 p.m.—Mrs. A. Pearce, violin solo.  
 Selected.  
 8.32 p.m.—Studio items.  
 8.38 p.m.—Miss Lilley, mezzo soprano.  
 Selected.  
 8.44 p.m.—Mrs. A. Dalton, pianoforte solo.  
 Selected.  
 8.50 p.m.—Dance music.  
 9.10 p.m.—Weather forecast.  
 9.13 p.m.—Mrs. Pearce, violin solo. Selected.  
 9.18 p.m.—Vocal and instrumental items.  
 9.40 p.m.—Request numbers and dance music.  
 10 p.m.—Close down.

## 3LO, MELBOURNE.

MONDAY, 28th MAY, 1928.

## EARLY MORNING SESSION.

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

## MORNING SESSION.

- 11 a.m.—3LO'S CULINARY COUNSELS, or How to Create Comforts with a Minimum of Cash.  
 11.5 a.m.—FLORA PELL, Inspector of Schools, will speak on the all important question of "Cookery."  
 11.20 a.m.—Musical interlude.  
 11.25 a.m.—FRANCES FRASER: "Pioneer Women in English Literature."  
 11.40 a.m.—Musical interlude.  
 11.45 a.m.—Under the auspices of the BIG BROTHER MOVEMENT, H. H. OLNEY, Vice-Chairman of the Association, will make an appeal to women in connection with the Little Brothers.

## 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.

## COMMUNITY SINGING.

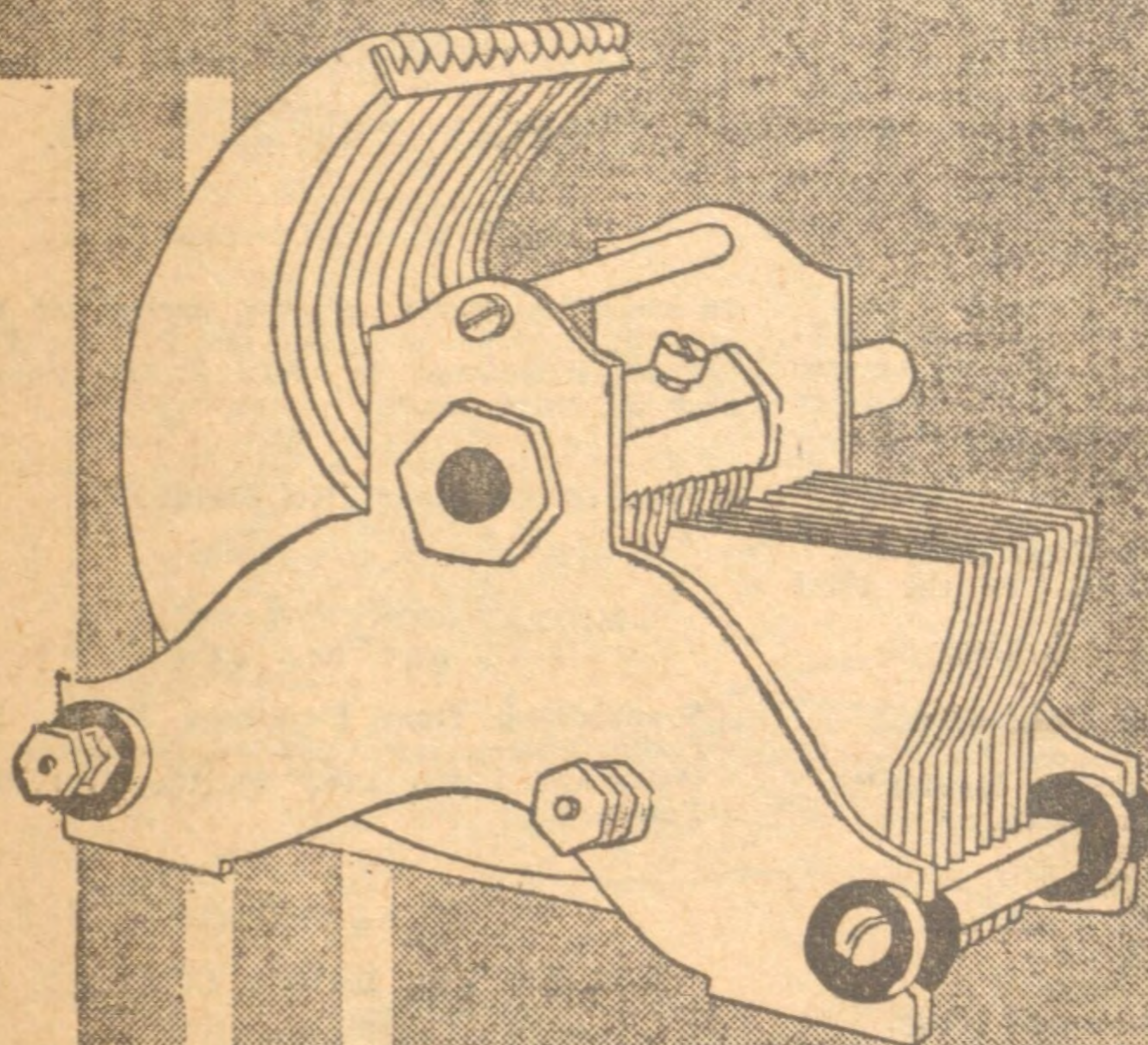
- 12.15 p.m.—Community singing, transmitted from the Assembly Hall, Collins Street, Melbourne (conductor, G. J. Mackay), assisted by



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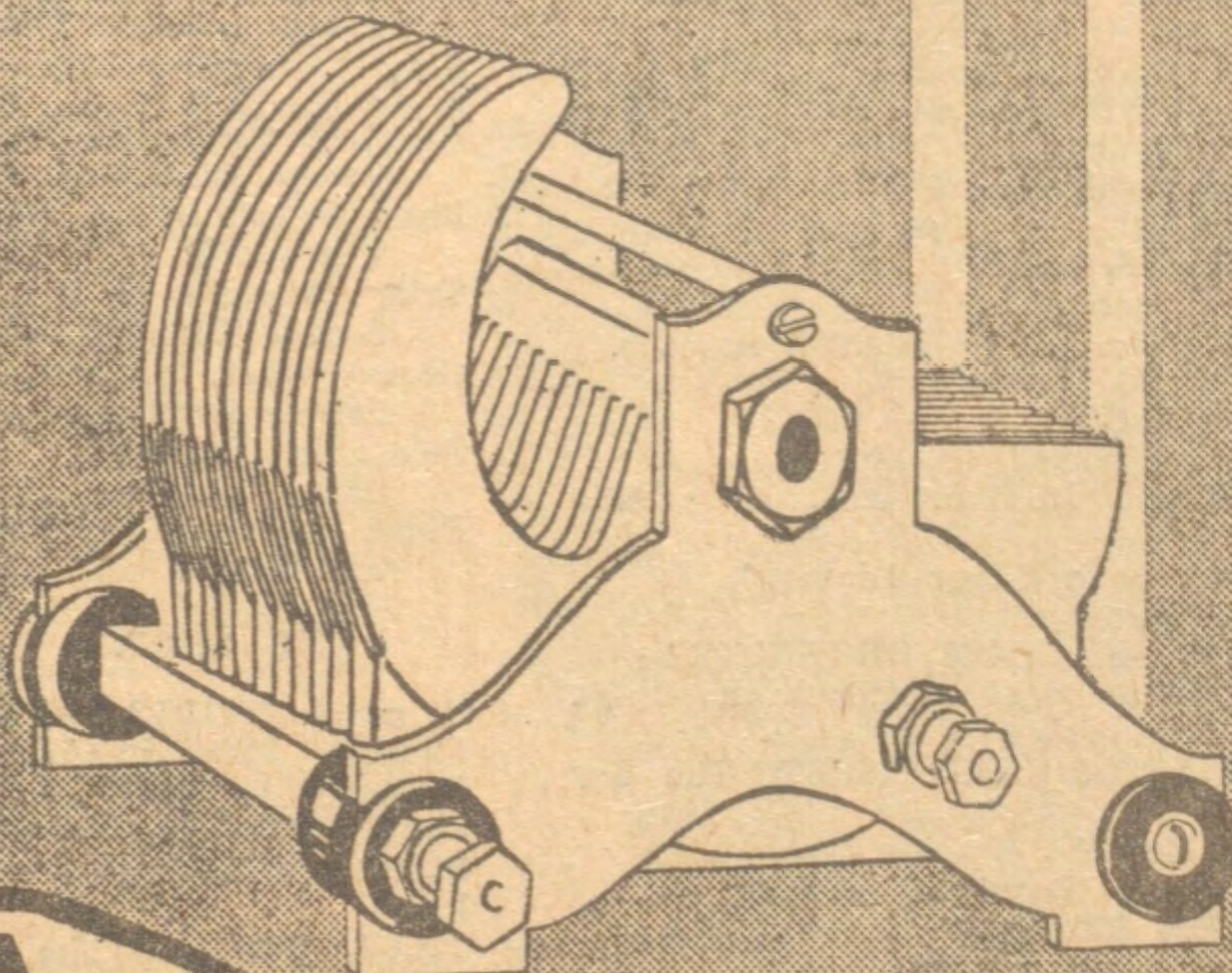
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## THE GYPSY PLAYERS.

Soloists, MINA HESELEVA, soprano:  
 "A forse Lui" (Verdi).  
 "Ave Maria" (Gounod),  
 with violin accompaniment by Bertha Jorgenson.  
 JACK LUMSDAINE, whispering baritone:  
 "Tenderly."  
 "Honeymoon Cottage."

## FROM THE STUDIO:

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

## AFTERNOON SESSION.

2.15 p.m.—THE STATION ORCHESTRA:  
 "Spanish Gypsy Dance" (Mowsey).  
 "Redzi—Prize Intermezvo" (Culdi).  
 2.25 p.m.—JACK LUMSDAINE, whispering baritone:  
 "Hello, Helen."  
 "Yesterday."  
 2.32 p.m.—THE STATION ORCHESTRA:  
 Selection, "The Street Singer."  
 2.42 p.m.—TILTON AND WEST—The Joy Boys:  
 "Mamma's Gone Young" (Weston and Lee).  
 "Our Avenue."  
 2.50 p.m.—THE STATION ORCHESTRA:  
 Selection, "Iolanthe" (Sullivan).  
 3 p.m.—Melbourne Observatory Time Signal.  
 A CLASSICAL HALF HOUR.  
 3.1 p.m.—MINA HESELEVA, soprano:  
 "The Mad Scene from Hamlet" (Thomas).  
 "Serenade" (Gounod),  
 with flute obligato by Joe Barrille.  
 3.8 p.m.—THE GYPSY PLAYERS:  
 "Incidental music to The Merchant of Venice" (Rosse).  
 3.18 p.m.—SENIA CHOSTIAKOFF, tenor:  
 "Do not Scold Me, Dear" (Dybbuck).  
 "Lullaby" (Brahms).

## PIANO RECITAL.

3.25 p.m.—WILLIAM G. JAMES, piano:  
 "Prelude, G Minor" (Rachmaninoff).  
 "Shadow Dance" (McDowell).  
 "Poupee Valsante" (Poldini).  
 "Etude en Octaves" (Alkom).  
 3.40 p.m.—MINA HESELEVA, soprano:  
 "Two Ballads by Rachmaninoff."  
 SYMPHONIZING SAXAPHONES.  
 3.47 p.m.—An introduction that we know will give you pleasure. Hear TOM KATZ' SAXAPHONISTS—the Six Crooning Bell Boys in a half hour of Musical Merriment.  
 4.17 p.m.—SENIA CHOSTIAKOFF, tenor:  
 "Elegie" (Massenet),  
 with 'cello obligato by Helga Brennecke.  
 "Snow Flakes" (Varlamoff).  
 4.24 p.m.—THE GYPSY PLAYERS:  
 Suite, "Purple Vine" (Ancliffe).  
 4.34 p.m.—JACK LUMSDAINE, the Radio Rascal:  
 "There Must be a Silver Lining."  
 "That's My Mammy."  
 4.41 p.m.—THE STATION ORCHESTRA:  
 "Echoes from the Metropolitan Opera House" (arr. Tobani).  
 4.48 p.m.—TILTON AND WEST, The Joy Boys:  
 "Spring is Here."  
 "Happy-go-lucky Days" (Brennan).  
 4.56 p.m.—THE STATION ORCHESTRA:  
 Selection, "Floradora" (Stewart).  
 5 p.m.—"Herald" news service. Stock Exchange information. Results of Richmond Trotting Races will be given hourly during the afternoon.  
 5.15 p.m.—Close down.

## EVENING SESSION.

6 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."  
 6.20 p.m.—BOBBY BLUEGUM.  
 6.40 p.m.—"BILLY BUNNY" has a story to tell the children.

## NEWS AND MARKET REPORTS.

7 p.m.—Official Report of Newmarket Stock Sales by the Association Stock and Station Agents, Bourke Street, Melbourne.

7.10 p.m.—"Herald" News Service. Weather synopsis. Shipping movements.  
 7.12 p.m.—Stock Exchange information.  
 7.17 p.m.—Fish market reports by J. K. Borrett, Ltd. Rabbit prices.  
 7.19 p.m.—River reports.  
 7.21 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd.: Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes, Onions. Market reports of fruit by the Victorian Fruiterers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.

## NIGHT SESSION.

7.30 p.m.—Under the auspices of the Boy Scouts' Association, Dr. C. Gordon McAdam: "Scouting News."  
 7.45 p.m.—Mrs. M. CALLAWAY MAHOOD: "Life is Real, Life is Earnest."

## OUT OF THE PAST.

8 p.m.—The First Electric Trains in Melbourne were first run on May 28th, 1919.  
 8.1 p.m.—Under the auspices of the Department of Agriculture, J. M. KERR, Chief Dairy Supervisor, will speak on: "Silage as Dairy Fodder."  
 8.15 p.m.—On May 28, 1759, was born WILLIAM PITT—England has seen no greater Parliamentary leader, few greater masters of financial and commercial legislation.  
 8.16 p.m.—Birthday Greetings and Programme announcements.  
 CAMP-FIRE CONCERT COMPETITION.  
 CONCERT PROGRAMME by the First Kingsville Troop:  
 Opening Chorus, "Who are We?"  
 The Troop.  
 Band Selection, "Men of Harlech."  
 The Band.  
 Song and Chorus, "Waltzing Matilda."  
 Scout Turnbull and Troop.  
 Recitation, "Spotty."  
 Scout Master Powell.  
 Song and Chorus, "Swanee River."  
 Scout Baker and Troop.  
 Jokes, Various.  
 Patrol Leaders Thorpe and Hatty.  
 Solo, "Kentucky Home."  
 Scout Mould.  
 Quartette, "Mellow Moon."  
 Troop Quartette Party.  
 Band Selection, "Marching Thro' Georgia."  
 The Band.  
 Trio, "Massa's in the Cold Ground."  
 Scouts Turnbull, Syrett and Mould.  
 Cornet Duet, "Life's Dream is O'er."  
 Strong Brothers.  
 Solo, "Starlight."  
 Scout Turnbull.  
 Final, "Good Night, Listeners."  
 The Troop.

## THE SHOW'S THE THING!

8.41 p.m.—STUDIO PRESENTATION of "PAUL JONES"—Musical numbers only. Produced by MADAME ETHEL ASHTON and MAURICE DUDLEY, assisted by the Station Orchestra. Conductor, Chas. Taylor.  
 PAUL JONES (The Celebrated Nautical Hero), ROSE CLAYDEN.  
 RUFINO DE MARTINEY (A Spanish Naval Officer), T. JAMES LLOYD.  
 BICOQUET (A St. Malo Ship Chandler), JOHN DONOVAN.  
 DON TROCADERO (Spanish Governor of Island of Estrella), HAROLD BLADEN.  
 KESTREL (Skipper of a Yankee Privateer), EDGAR MIDLAND.  
 BOUILLABASSE (An Old Smuggler), ALAN BELL.  
 PETIT PIERRE (Fisher Lad of St. Malo), JOLLY.  
 YVONNE (Niece of Bicoquet), FLOR-ENCE BLITZ.  
 CHOPINETTE (Wife of Bouillabasse), JEAN KELLY.  
 MALAGUENA (Niece of Don Trocadero), IVY CARLISLE.

10.11 p.m.—"Argus" news service. Meteorological information. British official wireless news from Rugby. Announcements.  
 10.21 p.m.—THE STATION ORCHESTRA:  
 Characteristic Novelty, "The Mouse and the Clock" (Whitney).  
 10.27 p.m.—GORDON JAMES, baritone:  
 "Toreador's Song" —Carmen (Bizet).  
 10.34 p.m.—THE STATION ORCHESTRA:  
 Selection, "Chu Chin Chow" (Norton).  
 10.40 p.m.—GORDON JAMES, baritone:  
 "When the Sergeant Major's on Parade" (Longstaffe).  
 "For You" (Montague).  
 10.47 p.m.—THE STATION ORCHESTRA:  
 "The Gondoliers" (Sullivan).  
 11 p.m.—Results of Victorian Railways Institute Amateur Boxing and Wrestling Tournament.  
 11.2 p.m.—THE VAGABONDS.  
 11.40 p.m.—"GOD SAVE THE KING."

## 3AR, MELBOURNE

MONDAY, 28th MAY, 1928.

## EARLY MORNING SESSION.

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

## MORNING NEWS SESSION.

11 a.m. to 12 noon.

## MIDDAY CONCERT SESSION.

12 noon to 1 p.m.

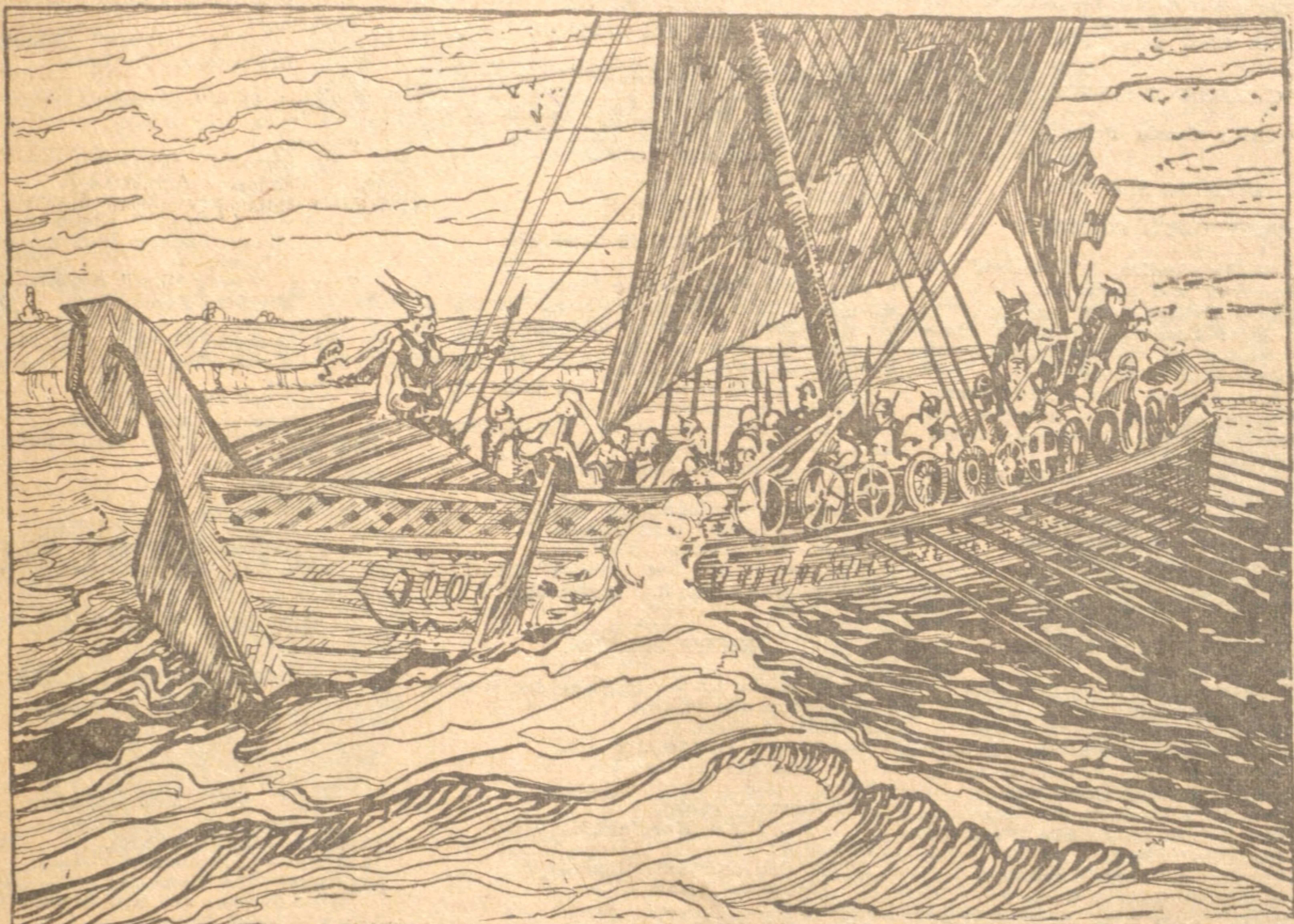
Transmitted from Panatrophe House, 252 Collins street (by exclusive permission of Wills and Paton Ltd.) on the Brunswick Panatrophe.

## MATINEE SESSION.

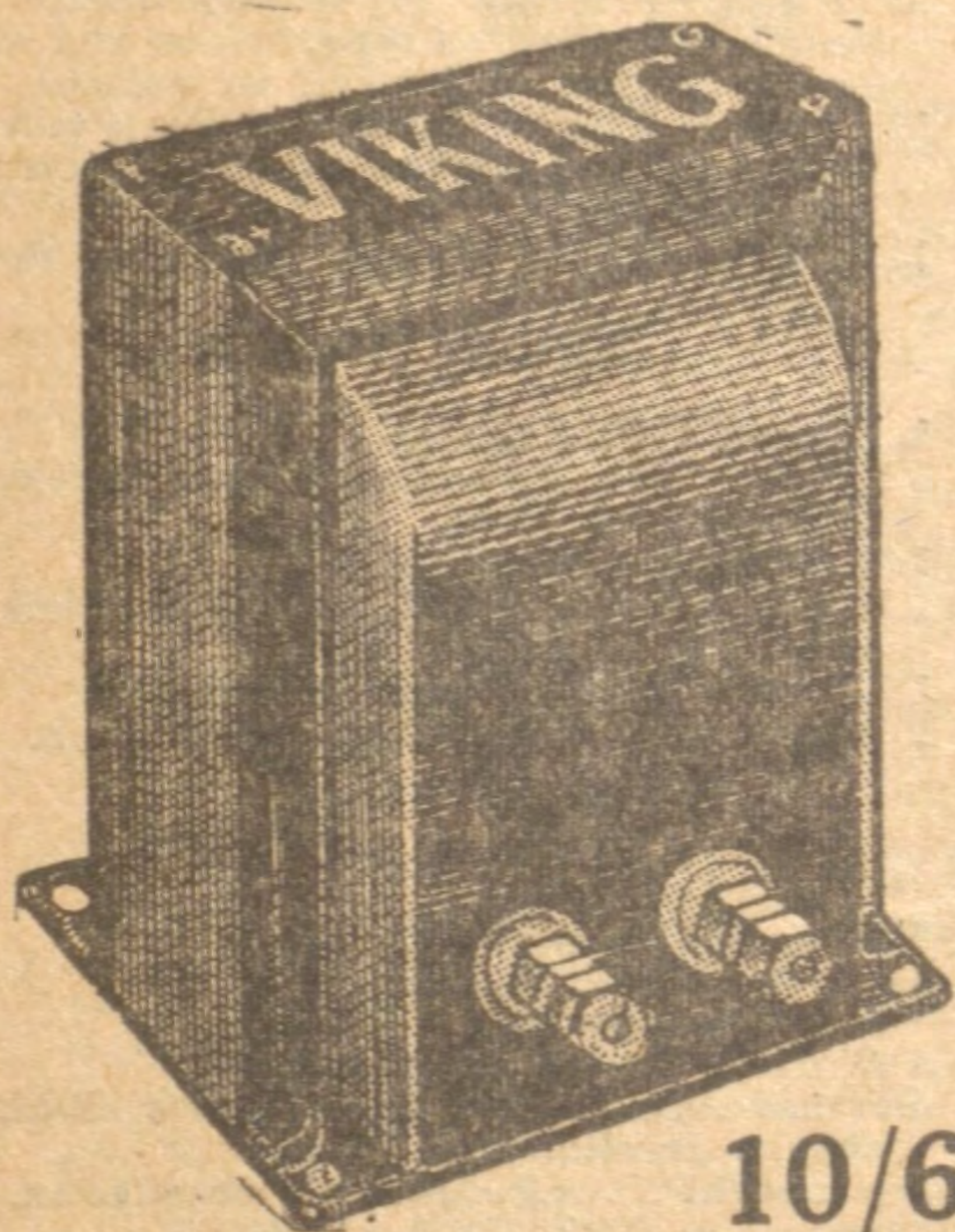
## ORCHESTRAL DANCE CONCERT.

Sport. During the afternoon the results of the Richmond Trots together with other information, will be broadcast immediately each race is run.  
 2 p.m.—Ayarz Dansonians:  
 A half hour Dance Session by Melbourne's favorite Dance Band. All the latest hits, each one announced prior to its presentation.  
 2.30 p.m.—Melbourne Concert Orchestra:  
 Selection from "Carmen" (Ar. Thoe W. Tobani).  
 2.48 p.m.—Miss Julia Russell, soprano:  
 "Vio lo Sapete" (Mascagni).  
 "Garden Secrets" (Linda Phillips).  
 2.56 p.m.—Melbourne Concert Orchestra:  
 "The Chase" (W. G. Smith).  
 "Wayside Flowers" (W. G. Smith).  
 "Nautical Scenes" (Percy Fletcher).  
 3.12 p.m.—Miss Julia Russell, soprano:  
 "Aubade" (Lalo).  
 "Be Still Blackbird" (Sanderson).  
 3.20 p.m.—Ayarz Dansonians:  
 3.32 p.m.—A talk by Mr. Horace Book, Secretary of the National Safety Council.  
 3.42 p.m.—Melbourne Concert Orchestra:  
 "Looking Backward" (Herman Finck).  
 "Berceuse Slave" (F. Neruda).  
 4 p.m.—G.P.O. Clock says "Four."  
 4.1 p.m.—Second weather forecast.  
 4.3 p.m.—Mr. Ken Code, Trombone, and Mr. Robert Adams, Trumpet:  
 Duet, "The Moon Hath Raised Her Lamps Above."  
 4.7 p.m.—Mr. Robert Allen, alto:  
 "The Blind Ploughman" (Conningsby Clarke).  
 "Lackaday" (E. Crampton).  
 4.15 p.m.—Melbourne Concert Orchestra:  
 Suite, "A Lover in Damascus" (A. Woodford-Finden).  
 "Venetian Serenade" (Luzatti).  
 4.31 p.m.—Mr. Robert Allen, alto:  
 "Garden of Happiness" (D. Wood).  
 "Little Brown Cottage" (Dickson).





## Another VIKING arrives in Australia!

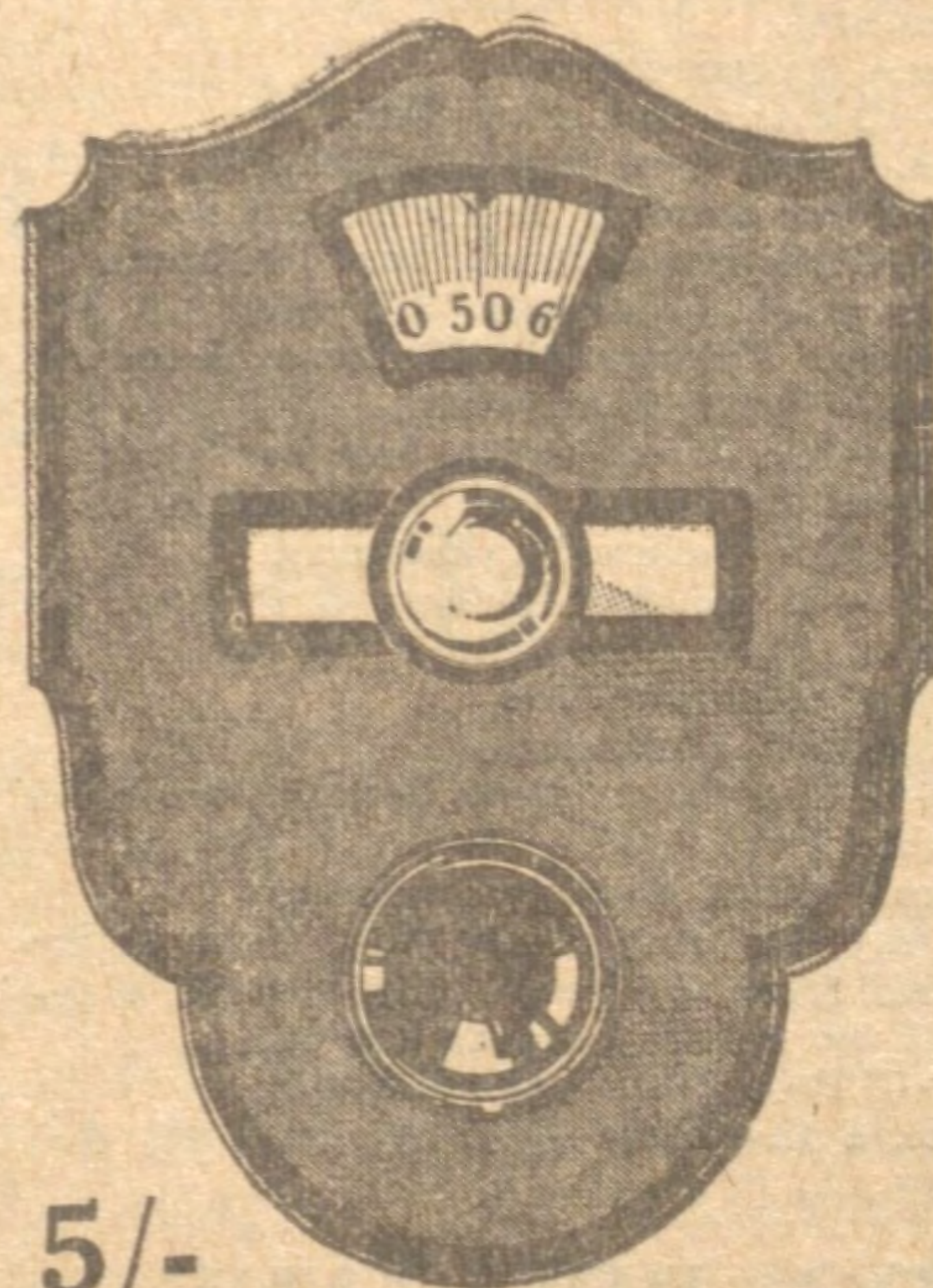


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TO join that other famous "Viking"—the Audio Frequency Transformer—now comes the "Viking" Vernier Dial. Here it is on the right, and it's yours for 5/-. Handsome, isn't it? And gives you velvet control.

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

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5/-

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Sydney

—Nothing Better!"



4.38 p.m.—Ayaz Dansonians:  
4.50 p.m.—To-night's Entertainment.  
4.55 p.m.—Special Racing Report, acceptances and barrier positions for the Ballarat Turf Club Races, by "Daybreak."  
8 p.m.—G.P.O. Clock says "Eight."

## CHILDREN'S SESSION.

6.30 p.m.—3AR's Cousin Peter.

## EVENING SESSION.

## EVERYBODY'S CONCERT.

7.15 p.m.—Hobby Session. "Snapshot," of the listener-in will speak on:  
"Photography for beginners."  
7.25 p.m.—Sport Session. "Harlequin" presents his budget of up-to-date news and comments on sport of the day.  
7.35 p.m.—Book Session. Mr. Alfred Firman, Chief Librarian of Mullen's, presents his rapid reviews on books of yesterday, to-day and to-morrow.  
7.45 p.m.—Mr. Watts Weston, plaign in "The Laughing Optimist," will speak from his dressing room at the Athenaeum Theatre.  
7.50 p.m.—Macnamara's stock report.  
8 p.m.—G.P.O. clock says Eight.  
8.1 p.m.—Melbourne Concert Orchestra: Suite, "The Merchant of Venice" (Fredk. Rosse).  
8.15 p.m.—Miss Vera Thomson, soprano: "Blue Danube" (Strauss).  
"Cuckoo" (Martin Shaw).  
8.23 p.m.—Announcements.  
8.33 p.m.—Ayaz Dansonians.  
8.50 p.m.—Programme from the Baptist Church, Collins Street, Melbourne, under the auspices of the Welsh Delegation.  
9.22 p.m.—Miss Vera Thomson, soprano: "Mimi's Song," from La Boheme (Puccini).  
"Will o' the Wisp" (Spross).  
9.30 p.m.—"Harlequin." Sports results.  
9.38 p.m.—Melbourne Concert Orchestra: "Ballet Music," from King Manfred (Carl Reinecke).  
9.50 p.m.—Announcements.  
10 p.m.—G.P.O. clock says Ten.  
10.1 p.m.—Semi-final weather forecast, specially for our country listeners.  
10.3 p.m.—Mr. James Scott, bass baritone: "Linden Lea" (Vaughan Williams).  
"The Little Fisherman" (Eastwood Lane).  
10.11 p.m.—Ayaz Dansonians.  
10.27 p.m.—Mr. James Scott, bass baritone: "The Pirate's Song" (G. W. Chadwick).  
"Simon, the Cellarer" (Hattam).  
10.35 p.m.—Melbourne Concert Orchestra: Selection, "The Blue Kitten" (Friml).  
"Prelude" (Glazounow).  
"Le Coucou" (Arensky).  
10.52 p.m.—The "Age" news bulletin, exclusive to 3AR.  
10.58 p.m.—Final weather forecast.  
10.59 p.m.—Our Australian Good-night Quote is taken from the poem, "Ye Wearie Wayfarer," by Adam Lindsay Gordon.  
11 p.m.—G.P.O. clock says Eleven.  
God Save the King.

## 4QG, BRISBANE

MONDAY, 28th MAY, 1928.

## MORNING SESSION.

10.30 a.m. to 11.30 a.m.

## MIDDAY SESSION.

1 p.m.—Market reports; weather formation: "The Daily Mail" and "The Daily Standard" news.  
1.30 p.m.—A programme of music by Miss Doris Caritte and Miss Anne Commelin (from the Orchestra s.s. "Orungal"), including:  
Selection, "High Jinks" (Friml).  
Violin solo, "Serenade" (Schubert).  
"Songs of Summer" (Clarke).  
Ballad, "Still as the Night" (Bohm).

1.58 p.m.—From The Observatory:  
Standard time signals.  
2 p.m.—Close down.

## AFTERNOON SESSION.

3 p.m.—From Albert St. Methodist Church: Address to ministers and youth works by Rev. W. C. Poole, D.D., President of the World's Sunday School Association.  
4.30 p.m.—"Telegraph" news.  
Close down.

## EARLY EVENING SESSION.

6 p.m.—Mail train running times.  
6.2 p.m.—"Daily Standard" news.  
6.8 p.m.—Stock Exchange information.  
6.9 p.m.—Metal quotations.  
6.10 p.m.—A science talk:  
"The Dwellers in a Pond" Mr. Inigo Jones.  
6.28 p.m.—Announcements.  
6.30 p.m.—Bedtime stories by "The Sandman."  
7.3 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:  
"Problems of the Pig Industry" Mr. E. J. Shelton (Instructor in Pig Raising).

## NIGHT SESSION.

A programme by the Brisbane Apollo Club.  
8 p.m.—From the Studio:  
National Anthem.  
"Salutation" (Gaines).  
Brisbane Apollo Club.  
Solo:  
"Roadways" (Lohr).  
Mr. Edgar Mansfield.  
Part-song:  
"The Day of May" (Molique).  
Brisbane Apollo Club.  
Vocal duet:  
"Echoes" (Moir).  
Misses Daphne Burton and Dorothy Lamb.  
Chorus:  
"The Boy in Blue" (Lovell).  
Brisbane Apollo Club.  
Song:  
"The Dance on the Lawn" (Phillips).  
Miss Clutterbuck.  
Violin solo: Selected.  
Miss Vada Riek.  
Part-song:  
"An Evening Pastoral" (Shaw).  
Brisbane Apollo Club.  
Song:  
"Pray For Me" (Tate).  
Miss Daphne Burton.  
Part-song:  
"Song of the Volga Boatmen" (Granville Bantock).  
Brisbane Apollo Club.  
Tenor solo:  
"For You Alone" (Geehl).  
Mr. T. M. Flett.  
Song:  
"The Fold" (Squire).  
Miss Dorothy Lamb.  
Part-song:  
"Alexander" (Brewer).  
Brisbane Apollo Club.  
Baritone solo: Selected.  
Mr. T. Kelleher.  
Chorus:  
"Song of the Northmen" (Maunder).  
Brisbane Apollo Club.  
PART II.  
Chorus:  
"Trim Ship" (Mentor Crosse).  
Brisbane Apollo Club.  
Song:  
"The Kerry Dance" (Melloy).  
Mrs. Percy Knott.  
Part-song:  
"Twilight" (Dudley Buck).  
Brisbane Apollo Club.  
Tenor solo:  
"Like Stars Above" (Squire).  
Mr. H. Gilroy.  
Chorus:  
"Trelawny" (Thayer).  
Brisbane Apollo Club.

Song:  
"Bless the House" (Brake).  
Mrs. Harold Burnett.  
Violin solo: Selected.  
Miss Vada Riek.  
Part-song:  
"Old Daddy Longlegs" (Wheeler).  
Brisbane Apollo Club.  
Song:  
"April Morn" (Batten).  
Miss May O'Shea.  
Chorus:  
"Buccaneers" (Candish).  
Brisbane Apollo Club.  
Male Quartette: Selected.  
Vocal duet: "Awake" (Pelissier).  
Misses Daphne Burton and Dorothy Lamb.  
Chorus: "Freely Blow" (Cooke).  
Brisbane Apollo Club.  
Tenor solo:  
"A Wayside Flower" (d'Hardelet).  
Mr. D. McLennan.  
Part-song:  
"Lullaby" (Williams).  
Brisbane Apollo Club.  
10.15 p.m.—"The Daily Mail" news.  
Weather news.  
Close down.

## 5CL, ADELAIDE

MONDAY, 28th MAY, 1928.

## EARLY MORNING SESSION.

7.45 a.m. to 9 a.m.

## MORNING GSESSION.

## FOR THE LADIES.

10.30 a.m.—G.P.O. Chimes.  
10.31 a.m.—Studio music.  
10.45 a.m.—The Fashions:  
"What to wear and how to wear it."  
11 a.m.—Social Notes.  
11.10 a.m.—Answers to correspondence (The station welcomes correspondence and queries on any subject of interest to women).  
11.45 a.m.—Kitchen Craft and Menu talks,  
"What to prepare for to-day's dinner."  
Household Hints.  
11.30 a.m.—G.P.O. Chimes and close down.

## MIDDAY SESSION.

1 p.m.—G.P.O. Chimes.  
1.1 p.m.—"The Advertiser" news service and International News.  
1.20 p.m.—Studio Music.  
1.50 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.  
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 Music.  
3.30 p.m.—Lecturette.  
3.45 p.m.—Orchestral selections.  
4.57 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.  
5 p.m.—G.P.O. Chimes and close down.  
EVENING SESSION.  
6 p.m.—G.P.O. Chimes.  
6.1 p.m.—Children's Entertainment.  
6.30 p.m.—Dinner Music from the studio.  
7.1 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.  
7.7 p.m.—General Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union, Taylor Bros., Retail Grocers' Association, Interstate Fruit and Produce Market Co. Ltd.  
7.15 p.m.—Motor talk by Mr. B. V. Crewe:  
"Give me a quart of oil."  
7.30 p.m.—"The care of the clothes" a talk arranged by Ford Bros.  
7.40 p.m.—The Central Agricultural Bureau, Mr. R. Hill (Agricultural Inspector) will talk.  
8.1 p.m.—"The Twinkler" addresses his 5CL Boys Club.  
8.21 p.m.—Ozone Concert Orchestra.

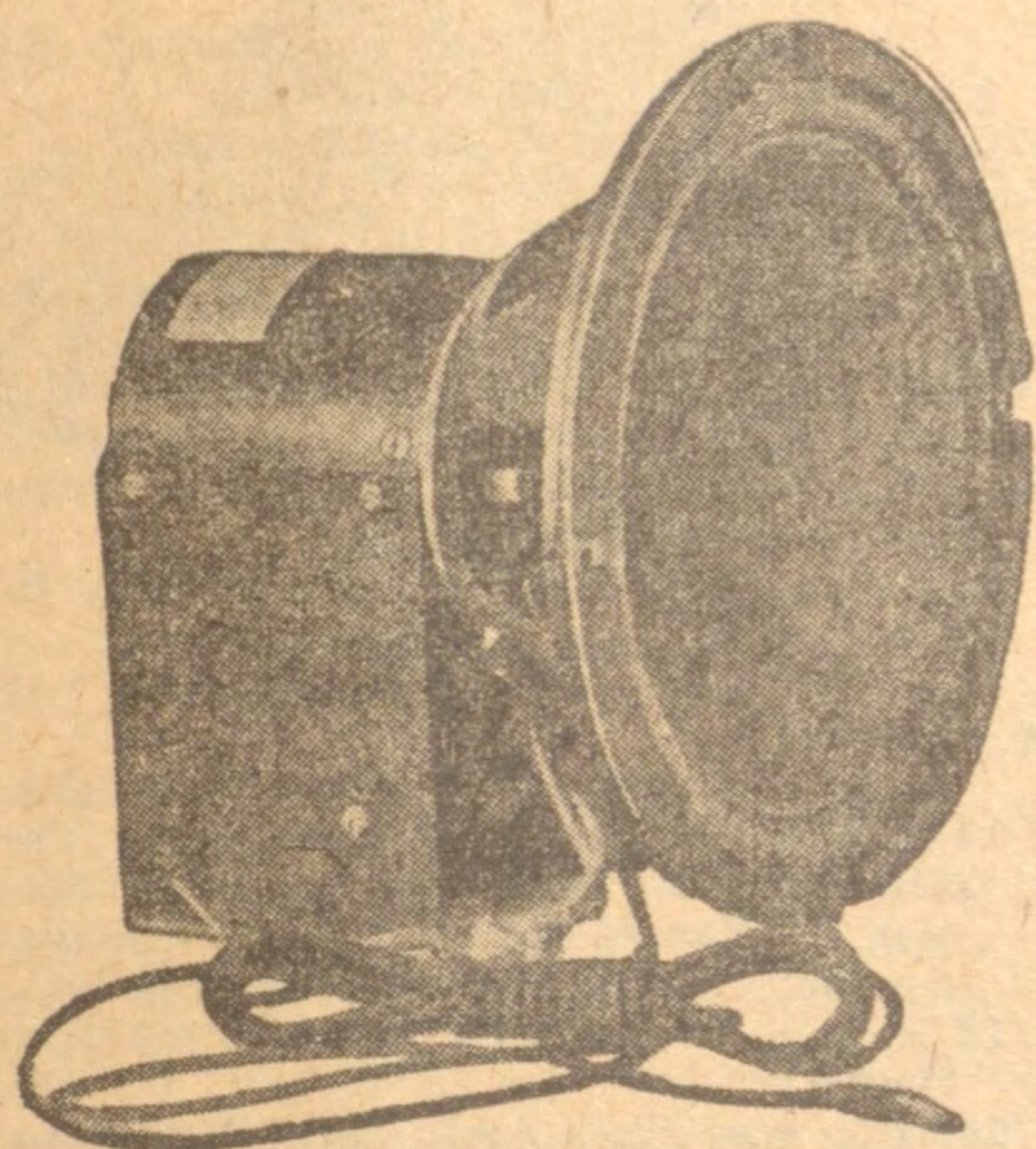


THE NEW

# MAGNAVOX

The Radiant Name in Radio

## Dynamic Speakers



### Type R-4 Unit

The field of this unit has a resistance of 12 ohms and designed for excitation by approximately  $\frac{1}{2}$  ampere at 6 volts D.C. This field power is easily available from the "A" battery of a receiving set or any of several makes of 6 volt trickle chargers can be used to excite the field from A.C. house lighting currents. One 10-foot 2 conductor audio or voice frequency cord connected to input transformer and filter. Free end has pin tip terminals. One 10-foot 2 conductor No. 18 ga. R. C. and braided field cord. Free end with plain soldered ends.

### Type R-5 Unit

The field of this unit has a resistance of 2,500 ohms, designed for excitation by 40 milliamperes (minimum) to 80 milliamperes (maximum) at 100 to 120 volts D.C.

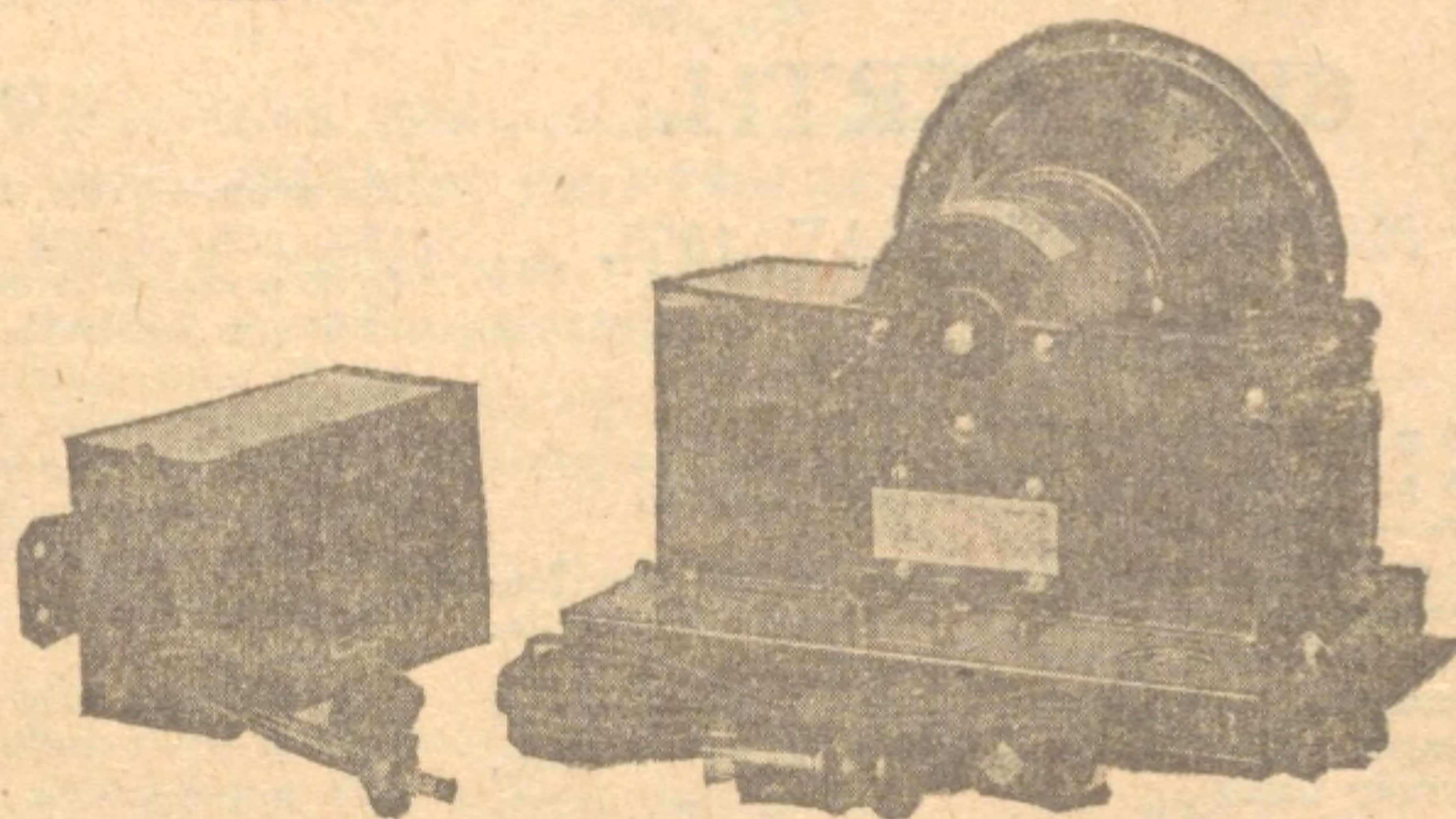
This field power is obtainable from any 100 to 120 volt D.C. house lighting convenience outlet or from rectified and filtered A.C. current. Power consumption approximately 5 watts.

The field can replace one choke of the rectifier and filter system in A.C. sets or electrical phonographs. Its high resistance reduces hum. Inductance 40 Henries.

One 10-foot 2 conductor audio or voice frequency cord connected to input transformer and filter has pin tip terminals with free end. One 10-foot 2 conductor No. 18 ga. R.C. and braided field with free end plain soldered.

### Type R-500 Unit

(As used in the wonderful "LOBOY" Speaker)



This is a speaker and power amplifier combined, enabling the user to obtain the benefits of the large 310 or 210 power amplifying tube where alternating current is available to supply the rectified direct high plate voltage required for this tube, the whole comprising a complete carefully engineered power cone speaker unit with all parts properly matched and balanced.

The Power Unit is designed for 105-125 volt, 50-60 cycle alternating current. The rectifier requires one 316-B type rectifying tube. The one stage audio amplifier requires one 310 tube. Operated at full load the entire unit will consume approximately 120 watts at 110 volts A.C.

Transformers to step down from 240 to 110 volts supplied as illustrated.

## POWER CONE Radio Speaker Units

**H**ERE is the original—the first type of loud speaker ever made. Created by MAGNAVOX in 1911. The only type of speaker that has stood through every period of speaker development. Supreme in the beginning. Supreme to-day. Patented, controlled and made famous by MAGNAVOX. Protected under seven U.S. and six Foreign Patents, including Australia. The MAGNAVOX Company hereby gives notice of intention to prosecute manufacturers, jobbers and retailers who sell unlicensed units infringing MAGNAVOX patents.

Over 400,000 MAGNAVOX dynamic power units are now in use. They are used as built-in equipment by America's fine set makers—and the MAGNAVOX principle is being adopted by speaker manufacturers under license agreements.

PRICES AND PARTICULARS FROM APPOINTED DISTRIBUTORS  
IN ALL STATES

Factory Representative:— D. T. HINCHEN, Challis House, SYDNEY



8.32 p.m.—Margaret Pirie, contralto.  
 8.38 p.m.—Ozone Concert Orchestra.  
 8.45 p.m.—Margery Walsh, soprano.  
 8.51 p.m.—Ozone Concert Orchestra.  
 9.1 p.m.—Meteorological information, weather forecast.  
 9.2 p.m.—Dalgety's Wheat report.  
 9.4 p.m.—International News.  
 9.12 p.m.—Ozone Concert Orchestra.  
 9.18 p.m.—Lyric Male Quartette.  
 9.24 p.m.—Margaret Pirie, contralto.  
 9.27 p.m.—Doreen May, soubrette.  
 9.33 p.m.—Ozone Concert Orchestra.  
 9.40 p.m.—Lyric Male Quartette.  
 9.46 p.m.—Margery Walsh, soprano.  
 9.49 p.m.—Ozone Concert Orchestra.  
 9.55 p.m.—Doreen May, soprano.  
 10.1 p.m.—"The Advertiser" news service.  
 10.8 p.m.—Ozone Concert Orchestra.  
 10.15 p.m.—The Glenelg Maison Dance Band.  
 10.55 p.m.—Meteorological information and to-morrow's programme.  
 11 p.m.—G.P.O. Chimes and National Anthem.

## 6WF, PERTH.

MONDAY, 28th MAY, 1928.

### MIDDAY SESSION.

12.30 p.m.—Tune in.  
 12.35 p.m.—Markets, News, and Cables.  
 1 p.m.—Time signal.  
 1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
 1.2 p.m.—Lunch Hour Concert, Brunswick Panatrophe Hour relayed from Messrs. Musgrove's Limited, Concert Hall, Murray street.  
 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, Hay Street.  
 Vocal and instrumental numbers from the Studio.  
 4.30 p.m.—Close down.

### EVENING SESSION.

6.45 p.m.—Tune in.  
 The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.  
 6.50 p.m.—Stories for the Kiddies by Uncles Henry, Percy and Duffy.  
 7.20 p.m.—Stocks, Markets, News.  
 7.45 p.m.—Talk by Lieut. Col. Le Souf, Director of the Zoological Gardens, South Perth.  
 8 p.m.—Time signal.  
 8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia Station announcements such as alterations to programmes, etc.  
 8.3 p.m.—Band Night.  
 Concert by the R.S.L. Band, conducted by Mr. W. A. Halvorsen, relayed from the R.S.L. Institute.  
 Vocal assisting artist.  
 10 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.  
 Ships within Range announcement.  
 Weather report and forecast.  
 10.30 p.m.—Close down.  
 104.5 METRE TRANSMISSION.  
 Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 6.45 p.m.

## Tuesday, May 29

## 2FC, SYDNEY.

### EARLY MORNING SESSION.

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

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

### MORNING SESSION.

10 a.m.—"Big Ben" and announcements.  
 10.5 a.m.—Studio music.  
 10.15 a.m.—"Sydney Morning Herald" news service.  
 10.30 a.m.—Studio music.  
 10.35 a.m.—Last minute racing information by the 2FC Commissioner.  
 10.45 a.m.—Studio music.  
 11 a.m.—"Big Ben." Studio music.  
 11.5 a.m.—A.P.A. and Reuter's Cables.  
 11.15 a.m.—A reading.  
 11.30 a.m.—Close down.

### MIDDAY SESSION.

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

### AFTERNOON SESSION.

3 p.m.—"Big Ben" and programme announcements.  
 3.5 p.m.—From the Congregational Church, Pitt Street, Sydney:  
 An Organ Recital, arranged by Lilian Frost.  
 3.20 p.m.—From the Studio:  
 Molly Neill, mezzo.  
 3.25 p.m.—From the Congregational Church, Pitt Street, Sydney:  
 Organ Solos by Miss Lilian Frost.  
 3.40 p.m.—From the Studio:  
 Agnes McDiarmid, soprano.  
 3.45 p.m.—From the Congregational Church, Pitt Street, Sydney:  
 Items from the Organ Recital by Lilian Frost.  
 4 p.m.—"Big Ben."  
 From the Studio:  
 Anne Luciano, soprano.  
 4.5 p.m.—From the Congregational Church, Pitt Street, Sydney:  
 Concluding items from the Organ Recital by Lilian Frost.  
 4.20 p.m.—From the Studio:  
 Molly Neill, mezzo.  
 4.25 p.m.—A Pianoforte Reproduction.  
 4.35 p.m.—Agnes McDiarmid, soprano.  
 4.40 p.m.—Studio music.  
 4.45 p.m.—Stock Exchange, third call.  
 4.47 p.m.—Anne Luciano, soprano.  
 4.50 p.m.—Popular records.  
 5 p.m.—"Big Ben." Close down.

### EARLY EVENING SESSION.

5.40 p.m.—The chimes of 2FC.  
 5.45 p.m.—The "Hello Man" talks to the children.  
 6.25 p.m.—Children's music.  
 6.30 p.m.—Late sporting news.  
 6.35 p.m.—Dalgety's market reports (wool, wheat and stock).  
 6.43 p.m.—Fruit and vegetable markets.  
 6.45 p.m.—Stock Exchange information.  
 6.48 p.m.—Weather and shipping news.  
 6.50 p.m.—A studio talk.  
 7 p.m.—"Big Ben." Dinner music.  
 7.30 p.m.—Late "Evening News" news service.

### EVENING SESSION.

A Night of Popular Band Music.  
 7.40 p.m.—Programme announcements.  
 7.43 p.m.—Reginald Hayward, baritone:  
 (a) "Whatever is—is best" (Herman Lohr).  
 (b) "Don't you mind the sorrows" (Eugene Cowles).  
 7.50 p.m.—"Mr. Medley and Mr. Motley."  
 8 p.m.—"Big Ben." The N.S.W. State Military Band. Conductor, Mr. C. King.  
 8.15 p.m.—Lionel Lunt, baritone, late of the Carl Rosa Opera Company, will revive memories of comic operas (by permission of J. C. Williamson, Ltd.).  
 8.25 p.m.—Cyril Monk, the noted professor of violin at the Conservatorium of Music, in a prepared programme of classical numbers.  
 8.35 p.m.—Rosina Madell, soprano.  
 8.43 p.m.—The N.S.W. State Military Band.  
 9 p.m.—"Big Ben." Reginald Hayward, baritone:  
 (a) "Your eyes have told me" (Geoff O'Hara).  
 (b) "My Mary, Sweet and Brown" (Kilner).  
 9.8 p.m.—Cyril Monk, violinist.  
 9.18 p.m.—Roper Raymond, tenor:  
 (a) "A Rose Memory" (Deacon).  
 (b) "The Call" (Oliver).  
 9.26 p.m.—The N.S.W. State Military Band.  
 9.36 p.m.—Rosina Madell, soprano.  
 9.44 p.m.—Lionel Lunt, baritone, from the Carl Rosa Opera Company (by permission of J. C. Williamson, Ltd.), will present old and new operatic gems.  
 10.2 p.m.—The N.S.W. State Military Band.  
 10.15 p.m.—Roper Raymond, tenor:  
 (a) "Dearest, I Love the Morning" (Haydn Wood).  
 (b) "A Night Idyll" (Loughborough).  
 10.23 p.m.—From the Ambassadors. The Ambassadors' Dance Orchestra, under the direction of Manuel Hyman, the newly-appointed conductor, just arrived from London.  
 10.30 p.m.—Late weather forecast from the Studio.  
 10.31 p.m.—The Ambassadors' Dance Orchestra.  
 10.44 p.m.—Studio music.  
 10.50 p.m.—The Ambassadors' Dance Orchestra.  
 10.57 p.m.—From the Studio: To-morrow's programme and late news.  
 11 p.m.—"Big Ben." The Ambassadors' Dance Orchestra.  
 11.45 p.m.—National Anthem.

## 2BL, SYDNEY.

TUESDAY, 29th MAY, 1928.

### EARLY MORNIN GSESSION.

8 a.m. to 9 a.m.

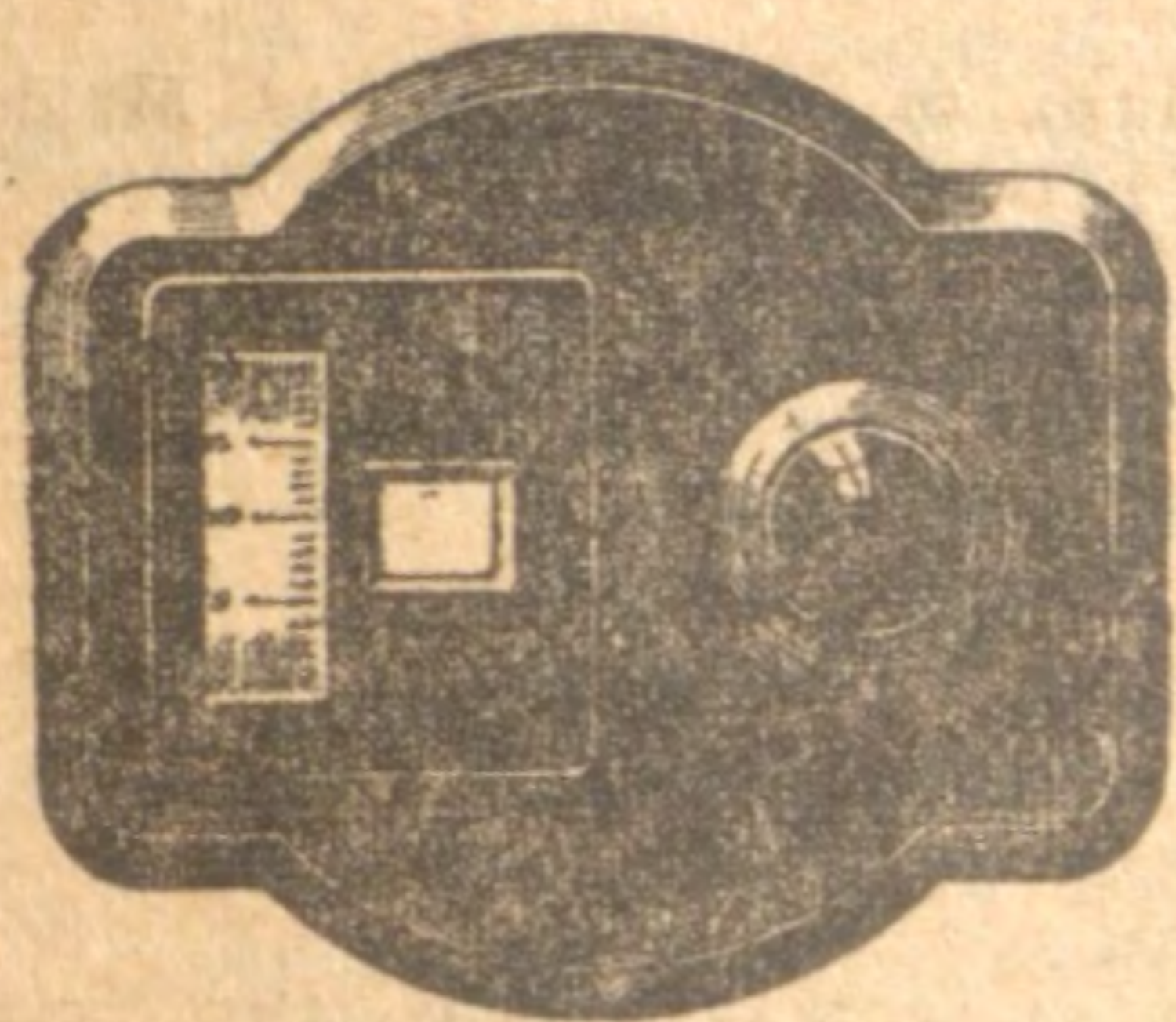
### MORNING SESSION.

10.30 a.m.—G.P.O. Clock and chimes.  
 Musical programme from studio.  
 11 a.m.—G.P.O. Clock and chimes.  
 Talk by Mrs. Jordan.  
 12 noon.—G.P.O. Clock and chimes.  
 Special Ocean forecast and weather report.  
 12.3 p.m.—Musical programme from the studio.  
 12.12 p.m.—Information, Mails, Shipping, and port directory.  
 12.15 p.m.—Boats in call by wireless.  
 12.17 p.m.—Fruit Market report.  
 12.19 p.m.—Vegetable Market report.  
 12.21 p.m.—London Metal Market report.  
 12.23 p.m.—Dairy Farm Produce Market report.  
 12.26 p.m.—Fish Market report.  
 12.28 p.m.—Rabbit Market report.  
 12.30 p.m.—H.M.V. Gramophone recital.  
 1.30 p.m.—G.P.O. Clock and chimes.  
 Talk to children and special entertainment for children in hospital.  
 2 p.m.—G.P.O. Clock and chimes.  
 Close down.

### AFTERNOON SESSION.

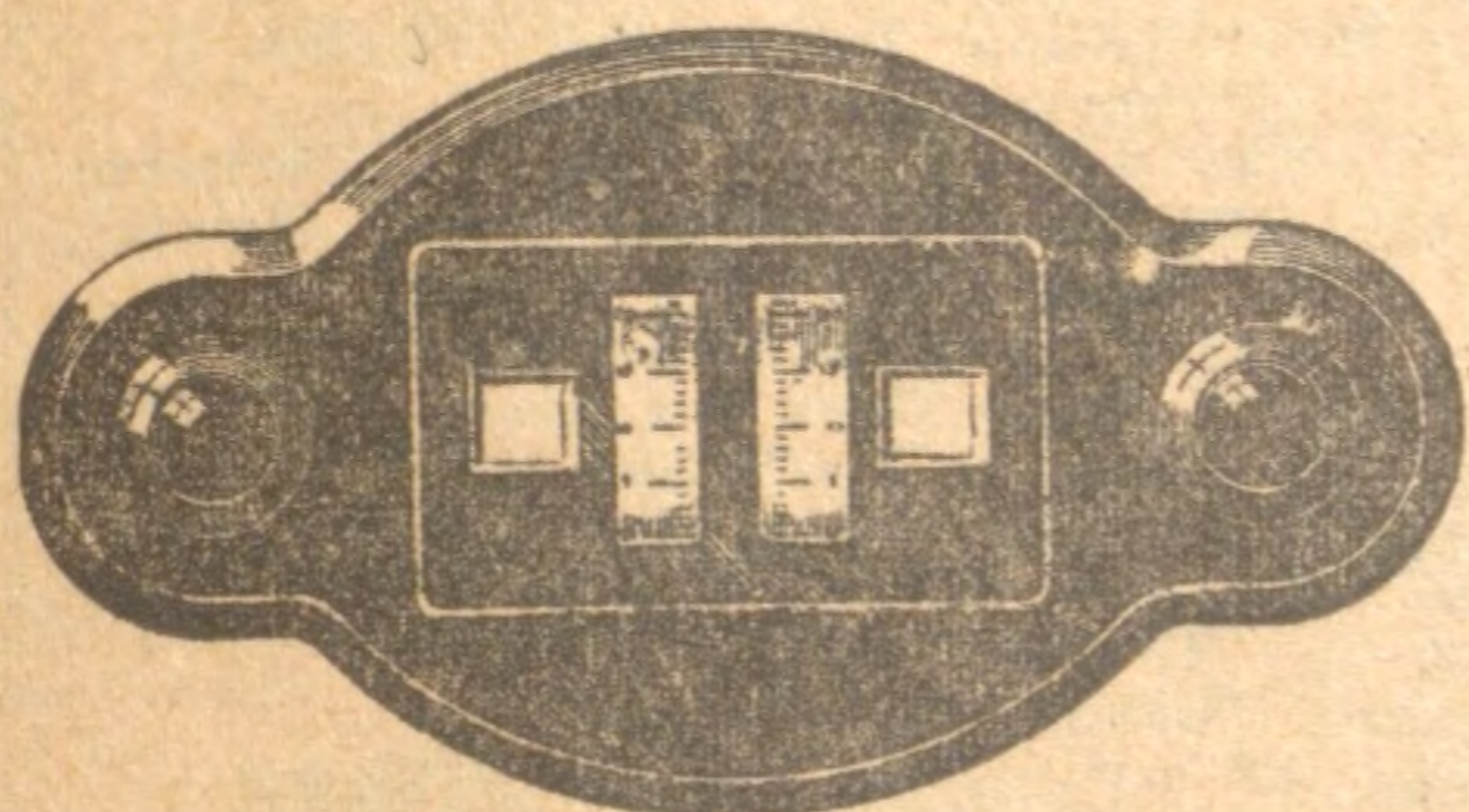
Racing information broadcast immediately after each race by courtesy of the "Sun."





Single Dial Control

# Knife Edge Tuning



Two Dial Control

This is the combination drum-control condenser unit specified by EMMCO for your 1928 circuits.

Accurate capacity values are assured with Perfect Synchronisation.

Compact, of pleasing panel design, and electrically perfect; the EMMCO control is the ultimate in modern application for  
**EXACT TUNING.**

## EMMCO SINGLE AND DUAL CONTROL.

These two fine Emmco products have been developed after intensive research. The handsome embossed moulded bakelite face plate contains logging windows and openings through which the Drum Controls project. Each Drum contains an indicating strip for calibration purposes. The tuning is a friction Vernier drive, and includes a separate condenser plate for balancing purposes, which ensures the finest possible Vernier tuning. The Condenser plates are of specially imported condenser brass, and are particularly designed for ganging purposes. The Cone Bearings ensure absolutely silent, velvet movement. Each condenser is mounted on a moulded Bakelite base and incorporates handy soldering lugs and pigtail connections. The most perfect localised control unit yet devised. All standard capacities. Black or mahogany face plate.

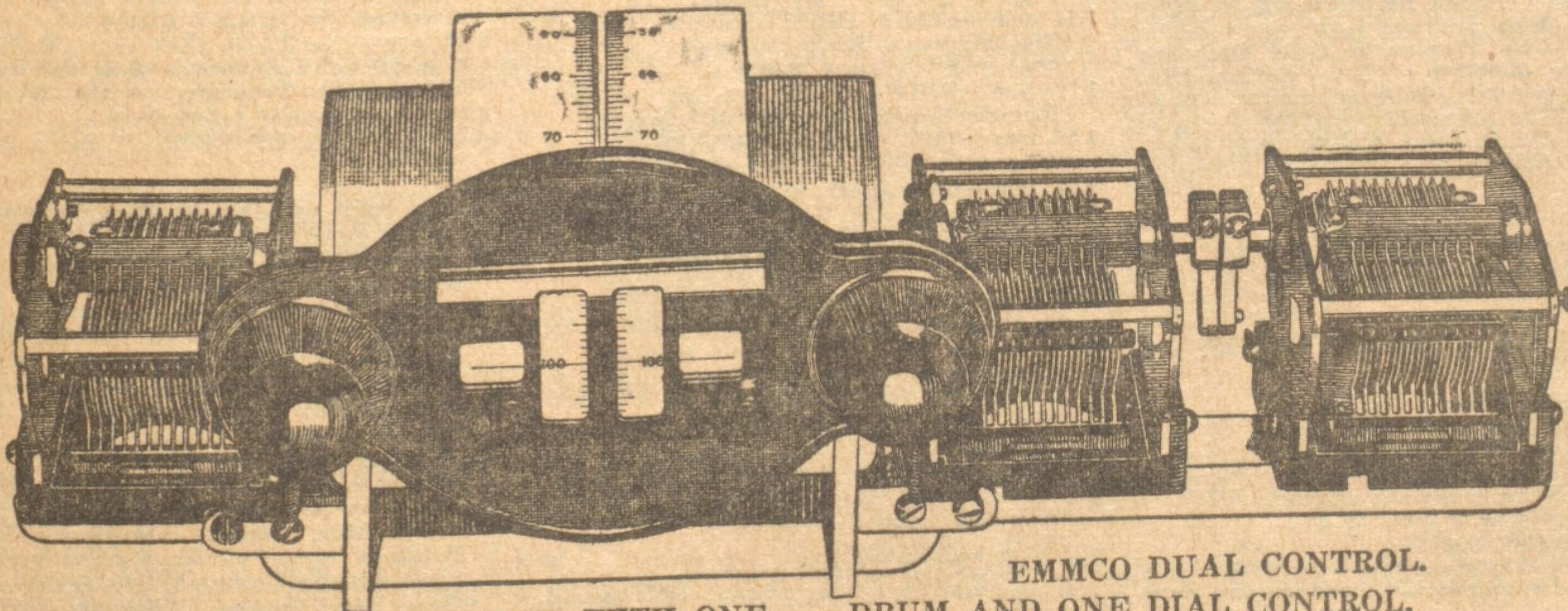
**PRICE:** For Chassis complete, Mounted with Three Condensers and Bakelite Dials, either Double or for Single Controls, complete . . . . . £4/10/-

For Double or Single Control, as above, with two Condensers instead of three, complete, . . . . . £3/17/6

EMMCO SUPER STRATELYNE CONDENSERS, as used in above, Bakelite base, straight line frequency; minimum capacity panel space.

.0005	12/6	.00025	12/-
.00035	12/-	Low Wave Capacities	11/6

**BUY EMMCO RADIO PRODUCTS  
AT ALL DEALERS**



EMMCO DUAL CONTROL.  
SAME FURNISHED WITH ONE DRUM AND ONE DIAL CONTROL.



## 3LO, MELBOURNE

TUESDAY, 29th MAY, 1928.

## EARLY MORNING SESSION.

- 7.15 a.m.—Morning Melodies.
- 7.20 a.m.—Physical Culture Exercises (to music).
- 7.27 a.m.—Morning Melodies.
- 7.33 p.m.—Weather forecast for all States. Mails.
- 7.40 a.m.—News.
- 8 a.m.—Melbourne Observatory Time Signal.
- 8.5 a.m.—News. Sporting information. Shipping. Stock Exchange fluctuations.
- 8.13 a.m.—Morning Melodies.
- 8.15 a.m.—Close down.

## MORNING SESSION.

- 11 a.m.—3LO'S CULINARY COUNSELS or How to Create Creature Comforts with a minimum of cash.
- 11.5 a.m.—MISS E. NOBLE, Gas Cooking: "Sweet and Savory Omelets."
- 11.20 a.m.—Musical interlude.
- 11.25 a.m.—MRS. DOROTHY SILK: "Homecrafts."
- 11.40 a.m.—Musical interlude.
- 11.45 a.m.—Under the auspices of the Travellers' Aid Society, MISS NEST MALCOLM, General Secretary of the Society, will speak on "The Human Side of the Travellers' Aid."
- 12 noon.—Melbourne Observatory Time Signal.
- 12.1 p.m.—Australian Mines and Metals Association from the London Stock Exchange this day. British Official Wireless News from Rugby. Reuter's and the Australian Press Association cables. "Argus" news service.

## MIDDAY SESSION.

- 12.20 p.m.—THE GYPSY PLAYERS: "May Day Suite" (Travers).
- 12.30 p.m.—MINA HESELEVA, soprano: "Two Ballads by Gretchaninoff."
- 12.37 p.m.—Stock Exchange information.
- 12.40 p.m.—DOROTHY ROXBURGH, viola: "1st Movement Sonata in A" (Beethoven).
- 12.47 p.m.—SENIA CHOSTIAKOFF, tenor: "It is Peaceful and Serene" (Sobolevska).
- "Oh! Beautiful Night"—Russian Folk Song.
- 12.54 p.m.—THE GYPSY PLAYERS: "Romance" (Sibelius).
- 1 p.m.—Melbourne Observatory Time Signal.
- 1.1 p.m.—MINA HESELEVA, soprano: "Two Ballads by Tschaikowsky."
- 1.3 p.m.—Meteorological information. Weather forecast and rainfall for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports.
- 1.15 p.m.—THE GYPSY PLAYERS: "Serenata" (Moskowski).
- "Elysian Dreams" (Reviland).
- 1.25 p.m.—SENIA CHOSTIAKOFF, tenor: "The Northern Star" (Glinka).
- "The Star" (James Rogers).
- 1.32 p.m.—HELGA BRENNECKE, 'cello: "Movement from Mendelssohn Sonata."
- 1.38 p.m.—THE GYPSY PLAYERS: "Demoiselle Chic" (Fletcher).
- 1.45 p.m.—Close down.

## AFTERNOON SESSION.

- 2.15 p.m.—THE VAGABONDS: "A Bungalow and You" (O'Hagan).
- "Somebody Lied About Me" (Kahn).
- "Where is My Meyer" (Gilbert).
- 2.25 p.m.—TILTON AND WEST: "You Can't Tell the Mothers from the Daughters."
- "She's Just What the Doctor Ordered."
- 2.32 p.m.—THE VAGABONDS: "Kiss and Make Up" (Miller).
- "Mary" (Donaldson).
- "Indian Cradle Song" (Kahn).
- 2.41 p.m.—JACK LUMSDAINE, the whispering baritone: Request items.

- 2.48 p.m.—THE VAGABONDS: "Bless Her Little Heart" (Denneker).
- "Shanghai Dream Man" (Davis).
- "Just a Memory" (Henderson).
- 2.57 p.m.—MARION LIGHTFOOT, banjo: "On the Mill Dam."
- "Rugby Parade."

- 3.4 p.m.—THE VAGABONDS: "Romona" (Gilbert).
- "Sweet Yvette" (Davis).
- "C'est Vous" (Richman).

- 3.13 p.m.—BERYL HOLT, contralto: "A String of Pearls" (Phillips).
- "Gray Days" (Noel Johnson).

- 3.20 p.m.—THE VAGABONDS: "So Long" (Miller).
- "A Shady Tree" (Donaldson).
- "Mountain Greenery" (Rogers).

- 3.29 p.m.—TILTON AND WEST: "My Pal Harry."
- "Timbuctoo."

- 3.36 p.m.—THE VAGABONDS: "Barbara" (Silver).
- "Dancing Tambourine" (Polla).
- "Dream-Kisses" (Yellen).

- 3.45 p.m.—BOBBY PEARCE, baritone: "A Chip of the Old Block" (Squire).
- "Three for Jack" (Squire).

- 3.52 p.m.—THE VAGABONDS: "I Tolm Them All About You" (Friend).
- "Someday You'll Say O.K." (Donaldson).
- "Once in a Blue Moon" (Land).

- 4.1 p.m.—MARION LIGHTFOOT, banjo: "To the Front."
- "Camptown Carnival."

- 4.8 p.m.—THE VAGABONDS: "A Night in June" (Friend).
- "The Merry Widow" (Lekar).
- "When I Met Sally" (Wade).

- 4.17 p.m.—JACK LUMSDAINE, the Radio Rascal: "Shady Tree."
- "Mary Lou."

- 4.24 p.m.—THE VAGABONDS: "Temperamental Baby" (Friend).
- "My Blue Ridge Mountain Rose" (Robinson).
- "Maybe I'll Baby You" (Buck).

- 4.33 p.m.—BERYL HOLT, contralto: "My Dear Soul" (Wilfred Sanderson).
- "The Curtain Falls" (d'Hardelot).

- 4.40 p.m.—THE VAGABONDS: "If I Could Look in Your Eyes" (Goodman).
- "I Know that You Know" (Youman).
- "Breeze" (Hanley).

- 4.49 p.m.—BOBBY PEARCE, baritone: "Land of Hope and Glory" (Elgar).
- "To-morrow" (Adams).

- 4.56 p.m.—THE VAGABONDS: "O-oh, Maybe It's You" (Berlin).
- "The Song is Ended" (Berlin).

- 5 p.m.—"Herald" news service.
- Stock Exchange information.

- 5.15 p.m.—Close down.

## EVENING SESSION.

- 6 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
- 6.20 p.m.—CAPTAIN DONALD MACLEAN: "The Spanish Conquest—How the Dons discovered the Treasures of the World."
- 6.35 p.m.—Musical interlude.
- 6.40 p.m.—"BILLY BUNNY" has a Story to tell you.

## NEWS AND MARKET REPORTS.

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

## EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and chimes.
- Children's Session.
- 6.30 p.m.—Dinner Music.

## SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. Clock and chimes.
- Racing resume.
- 7.5 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.
- Stock Exchange report.
- Grain and Fodder report ("Sun.")
- Dairy Produce report ("Sun.")
- N.R.M.A. Report.
- 7.15 p.m.—News from the "Sun."
- 7.30 p.m.—Talk on "First Aid" by a member of the St. John Ambulance Assoc.
- 8 p.m.—G.P.O. Clock and chimes.
- Broadcasters Topical Chorus.
- 8.3 p.m.—The Rose Bay Winter Garden Theatre Symphony Orchestra under the direction of Mr. Lionel Hart.
- 8.23 p.m.—Miss Linda Hartge, contralto.
- 8.30 p.m.—Tooth's Brewery Band, Conductor, Mr. H. S. Thomas).
- 8.50 p.m.—Mr. Stoffel Bezuidenhout, baritone.
- 8.57 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist.
- Resume of following day's programme.
- 9.2 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.
- 9.12 p.m.—Movie talk by Miss Iris Norton.
- 9.22 p.m.—Miss Linda Hartge.
- 9.29 p.m.—Tooth's Brewery Band.
- 9.49 p.m.—Miss Winifred Lavis, songs at the piano.
- 9.56 p.m.—Rose Bay Winter Garden Theatre Symphony Orchestra.
- 10.6 p.m.—Mr. Stoffel Bezuidenhout.
- 10.13 p.m.—Miss Winifred Lavis.
- 10.20 p.m.—The Wentworth Cafe Orchestra under the direction of Mr. Jimmy Elkins. During intervals between dances "Sun" news will be broadcast.
- 11.30 p.m.—G.P.O. Clock and chimes.
- National Anthem.

## 2 UW, SYDNEY

TUESDAY, 29th MAY, 1928.

- 7 p.m.—Studio items.
- 7.10 p.m.—Where to go session.
- 7.15 p.m.—Dinner music.
- 7.45 p.m.—Vocal and instrumental items.
- 8.10 p.m.—News, mails and shipping etc.
- 8.30 p.m.—Selections from studio.
- 9 p.m.—Weather report.
- 9.3 p.m.—Instrumental items from studio.
- 9.20 p.m.—Dance selections and request numbers.
- 10 p.m.—Announcements and close down.



Mr. Radio Fan,—You will waste your money and time building that new circuit:

Mr. Set Manufacturer,—All your profits will be smothered in service expenses:

UNLESS.—Every part in your set is of ACCURATE CAPACITY and DEPENDABLE Quality.

Use **MUTER** Dependable Products

and guarantee yourself against future troubles!

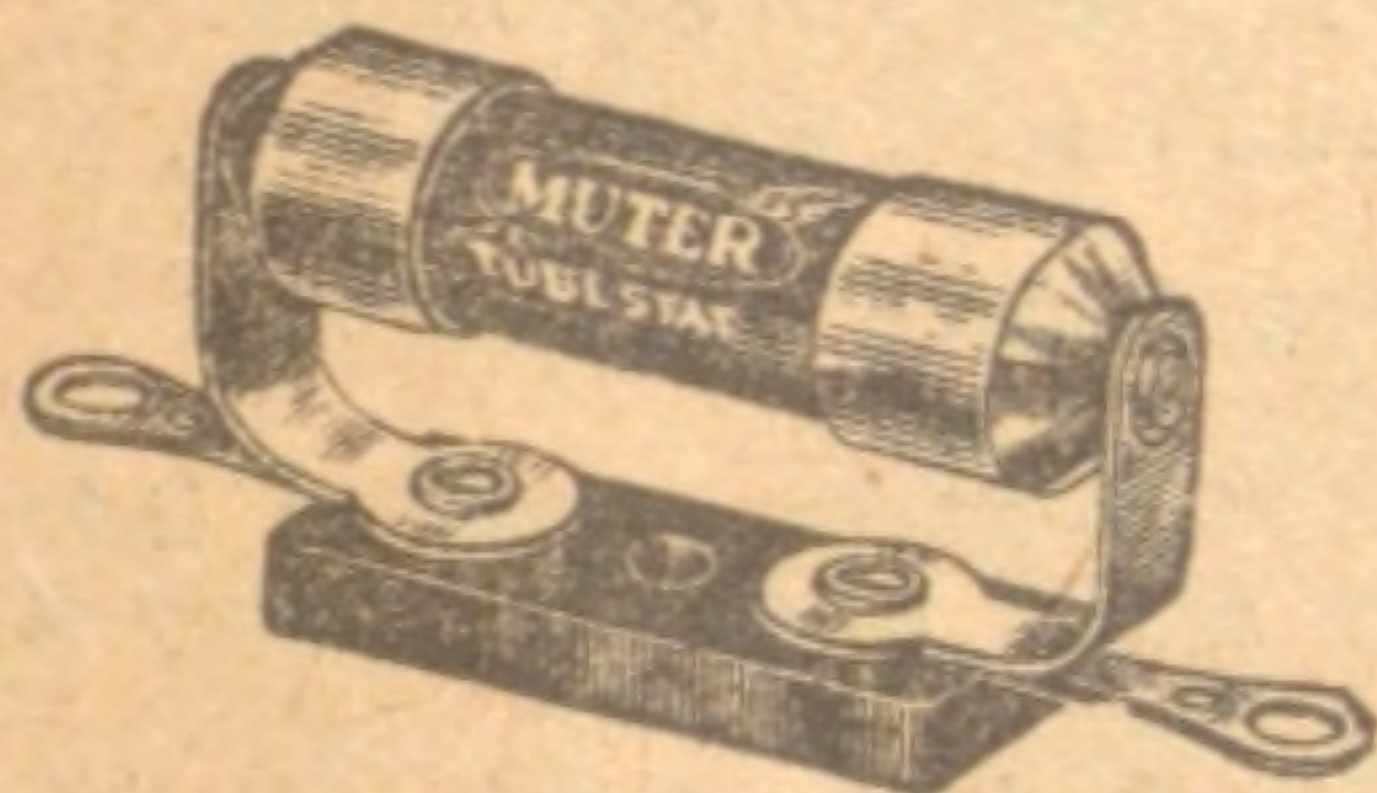
The MUTER line of fixed and variable resistances has been tried and used continuously by Australian manufacturers since radio began, with nothing but universal satisfaction.

It is right up to the minute, and its PRICES are absolutely the LOWEST for such quality on the Australian market.

## A NEW LINE

Muter Tubestat—  
Fixed Rheostat—

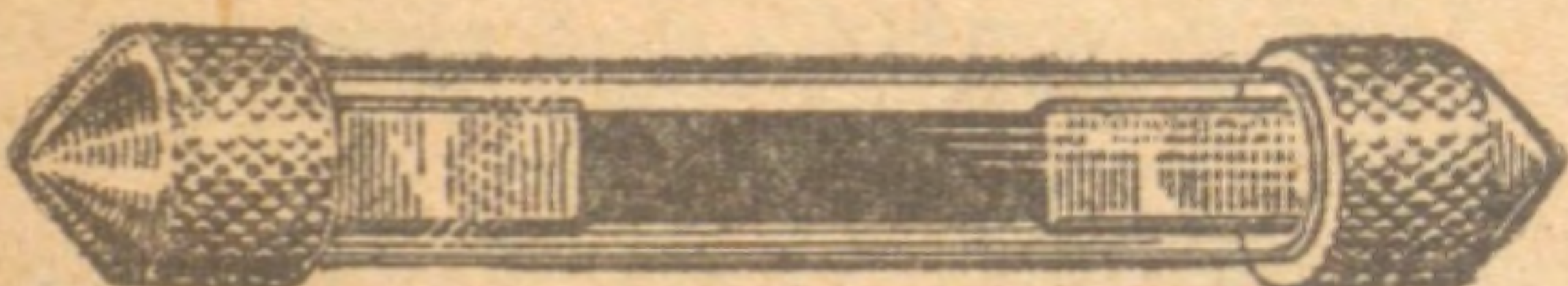
3/3 with Bakelite Mount



Muter Fixed Rheostats protect and lengthen tube life and eliminate noisy circuits. Permanent resistance wire, hermetically sealed in a brass tube. Black Bakelite base. Recommended only for audio or radio amplifying tubes. Packed in individual boxes.

A Tubestat for Every Type and Voltage of Valve.

Muter Fixed Grid Leaks  
and Special Resistances



Every capacity, from 1-20 to 10 meg **1/9**

## New Prices for Muter Goods

Amazing Variety of Types.  
Something for every Circuit—proved methods of manufacture, combined with latest Radio ideas.

Muter Fixed Condensers

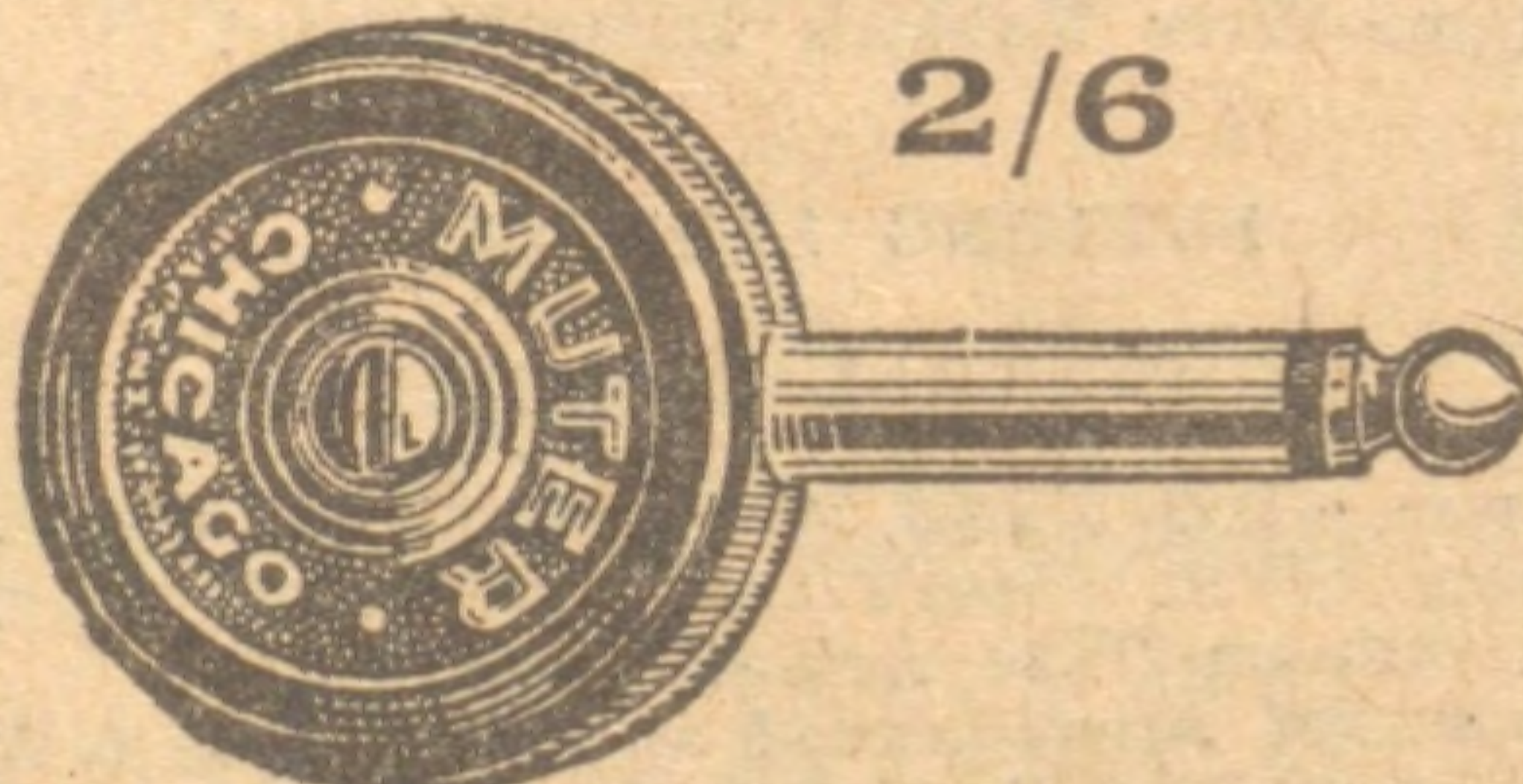


Prominent set manufacturers specify Muter Condensers because of their accurate capacities and dependable quality. Constructed of carefully selected mica and brass electrodes which are retained under even pressure by Bakelite plates, and are thoroughly vacuum impregnated. Adjustable lugs accommodate all centers from  $\frac{3}{8}$  in. to  $2\frac{1}{8}$  in. Capacities clearly stamped on metal end plates. All metals parts highly nickelled.

.00015, .0001, .00025 .....	1/9
.00025, with clips .....	2/-
.00035, .0004, .0005 .....	2/-
.001, .002, .0025 .....	2/3
.003, .004 .....	2/9
.005 .....	3/3
.006 .....	3/9
.0075 .....	4/6
.01 .....	5/-

Shock-proof Phone Plug

**2/6**



Muter Variable Condensers

**5/-**



Muter Variable Condensers are very useful in balancing or in critical grid circuits. Moulded Bakelite shell and Micrometer screw adjustment. Packed in individual boxes.

Variable Balancing Condenser—.00003 to .00005 Mf.

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Muter Variable Rheostats are constructed with a permanent resistance wire which is securely held in a highly nickelled metal shell. A smooth contact with the sliding arm gives uniform variation. Single hole mounting in standard  $\frac{3}{8}$  in. size. Furnished with  $1\frac{1}{2}$  in. Bakelite arrow knob.

6 ohm .....	
10 ohm .....	
20 ohm .....	
30 ohm .....	<b>3/3</b>



Audio Transformers

$3\frac{1}{2}$ -1 .....	13/6
5-1 .....	13/6

Muter A. F. Transformers answer the demand for dependable quality at a popular price. Highest grade Silicon steel core. Vacuum impregnated coil thoroughly insulated and fully shielded. Black enamel and nickel finish. Packed in individual boxes.

At Every Leading Dealer, or



World Radio Company of A/sia Ltd.

Merino House :: 57-59 York Street, Sydney



## NIGHT SESSION.

- 7.30 p.m.—MADAME SOWARD:  
"Un chien, comme il y en peu."
- 7.45 p.m.—Under the auspices of the University of Melbourne Extension Board, F. R. E. MAULDON, M.A., B.Sc., Senior Lecturer on economics to the University, will speak on "What is wrong with the Coal Industry."
- 8 p.m.—On the 29th May, 1918, the Germans captured Soissons.
- 8.1 p.m.—A. W. JACKSON will speak on "Golf."
- 8.15 p.m.—Many Happy Returns of the Day to GILBERT KEITH CHESTERTON, born 1874 at Kensington, England. He is the author of vivacious and paradoxical books, and one of the most striking figures in the English literary world of to-day.
- CAMP FIRE COMPETITION.**  
Concert by the FIRST HAMPTON TROOP:  
Camp Fire declared open.  
Song by Troop, "Smile."  
War Cry, African Scouts.  
Bombay Scouts.  
New Zealand Scouts.  
Recitation, "Towser," Scout Rowley.  
Song, by Troop, "Cricken."  
Cross patter by two Scouts.  
Quartette, "Little Tommy."  
Song by Troop, "Grandfather's Clock."  
Warcries, "Killi Killi, We're out for Gore," Rocket. Troop Cry.

## FOLK STORIES.

- 8.41 p.m.—WILLIAM TAINSH, Two Scottish Poems:  
"The Lang Road."  
"The Blind Shepherd."  
A story from the County Kerry:  
"The Widower of the Lane."
- 9 p.m.—PROGRAMME FROM THE WORKS OF HAYDN AND MOZART, arranged by Miss Mary Campbell, Albert Street Conservatorium, assisted by THE GYPSY QUARTETTE:  
MARY HOTHAM, songs:  
"My Mother bids me bind my Hair" (Haydn).  
"Fidelity."  
IDA SCOTT, piano:  
"Presto from Sonata in F" (Haydn).  
MARY KINGSTON, Aria:  
"With Verdure Clad" ("Creation") (Haydn).  
THE GYPSY STRING QUARTET:  
"No. 8 in D Major" (Haydn).  
MARY HOTHAM, Aria:  
"Young Love" (Cosi fan tutte) (Mozart).  
IDA SCOTT, Piano:  
"Fantasia in D Minor" (Mozart).  
MARY KINGSTON, Aria:  
"Ah, lo so" ("The Magic Flute") (Mozart).  
CONCERTO, "Movement from Double Concerto" for violin and viola—Bertha Jorgenson, Dorothy Roxburgh, Agnes Fortune (piano).  
DUET, "This Portrait Alone" (Cosi fan tutte) (Mozart). Mary Kingston and Mary Hotham.

## NEWS SESSION.

- 10.15 p.m.—"Argus" news service. Meteorological information. British Official Wireless news from Rugby. Announcements. Shipping information. Sporting notes by "Olympus."
- AN HOUR OF MIRTH AND MINSTRELSY.
- 10.25 p.m.—TOM KATZ' SAXOPHONISTS (Six Crooning Bell Boys)—need no introductions—their very names make you long to hear them.
- 10.55 p.m.—TILTON AND WEST—The Joy Boys:  
"Don't have any more, Missus Moore" (Vastling).  
"That My Girl" (Davis).
- 11.3 p.m.—JACK LUMSDAINE, whispering baritone and The Radio Rascal:  
"Kentucky's way of saying Good Morning."  
"Me and My Shadow."  
Results of Victorian Railways Institute Amateur Boxing and Wrestling Tournament.

## FIDDLING, FUN AND FROLIC.

- 11.10 p.m.—THE VAGABONDS.
- 11.40 p.m.—"GOD SAVE THE KING."

## 3AR, MELBOURNE

TUESDAY, 29th MAY, 1928.

## MORNING NEWS SESSION.

11 a.m. to 12 noon.

## MIDDAY CONCERT SESSION.

12 noon to 1 p.m.

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

## MATINEE SESSION.

## ORCHESTRAL DANCE CONCERT.

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

- 2 p.m.—Ayaz Dansonians.  
A half-hour Dance Session by Melbourne's favorite dance band. All the latest popular hits, each one announced prior to its presentation.
- 2.30 p.m.—Melbourne Concert Orchestra:  
Suite, "Cobweb Castle" (Liza Lehmann).
- 2.46 p.m.—Miss Valeria Walsh, contralto:  
"Down Here" (May Brahe).  
"For the Green" (Lohr).
- 2.53 p.m.—Melbourne Concert Orchestra.
- 3.8 p.m.—Miss Valeria Walsh, contralto:  
"Divinites Da Styx" (Gluck).  
"A Little Coon's Prayer" (Neville Hope).
- 3.16 p.m.—Ayaz Dansonians.
- 3.30 p.m.—Announcements.
- 3.35 p.m.—"Mademoiselle Jeunesse." Talk on timely topics of interest to our lady listeners.
- 3.45 p.m.—Melbourne Concert Orchestra:  
Suite, "Don Quixote" (V. Safranek).  
"Serenata" (Maurice Baron).
- 4 p.m.—G.P.O. clock says Four.
- 4.1 p.m.—Second weather forecast.
- 4.3 p.m.—Mr. Tom Semple, tenor:  
"Serenade" from Faust (Gounod).  
"Elegie" (Massenet).
- 4.11 p.m.—Melbourne Concert Orchestra:  
"Gounod Fantasie" (Urbach).
- 4.28 p.m.—Mr. Herbert Pettifer, violin:  
"Allegretto and Scherzo" (Boer).
- 4.32 p.m.—Mr. Tom Semple, Tenor:  
"Less Than the Dust" (A. Woodforde-Finden).  
"Till I Awake" (A. Woodforde-Finden).
- 4.39 p.m.—Ayaz Dansonians.
- 4.55 p.m.—Announcements; To-night's Entertainment.
- 5.0 p.m.—G.P.O. Clock says "Five"; God Save the King.

## CHILDREN'S SESSION.

- 6.30 p.m.—Brer Rabbit's Entertainment.

## EVENING SESSION.

## ORCHESTRAL CONCERT.

- 7.20 p.m.—Dr. Floyd, Organist and Choir-master of St. Paul's Cathedral, Melbourne, will talk on "The Art of Listening."
- 7.30 p.m.—A Broadminded and up-to-date talk by "Friar Tuck," "Rose-colored Spectacles."
- 7.35 p.m.—Sport Session: "Harlequin" presents his budget of up-to-date news and comments on Sport of the Day.
- 7.50 p.m.—Macnamara's Stock Report.
- 8.0 p.m.—G.P.O. Clock says "Eight."
- 8.1 p.m.—Melbourne Concert Orchestra:  
Overture, "Merry Wives of Windsor" (Nicolai).  
"Barcarolle" (Tchaikowsky).
- 8.15 p.m.—Miss Jessie Shmith, Contralto:  
"Robin Adair" (Old Scotch).  
"My ain Folk" (Lemon).
- 8.22 p.m.—Ayaz Dansonians.

- 8.38 p.m.—Miss Jessie Shmith, Contralto:  
"Sometimes in My Dreams" (Guy d'Hardelot).  
"Star of the East" (Lohr).
- 8.45 p.m.—Mr. Bert Lack, Flute:  
"The Elfs" (Wetzger).
- 8.50 p.m.—Announcements.
- 9.2 p.m.—Melbourne Concert Orchestra:  
A Tone Journey, "Mississippi" (Ferdie Grofe).  
Suite, "Petite Suite d'Orchestre" (Georges Bizet).
- 9.24 p.m.—Mr. Herbert Pettifer, Violin:  
"Romance" (Vieuxtemps).
- 9.28 p.m.—"Harlequin"; Sport Results.
- 9.36 p.m.—Ayaz Dansonians.
- 9.50 p.m.—Announcements.
- 10.0 p.m.—G.P.O. Clock says "Ten."
- 10.1 p.m.—Semi-Final Weather Forecast, specially for our Country Listeners.
- 10.3 p.m.—Mr. William Mack, Baritone:  
"The Song the Anvil Sings" (Petrie).  
"I Know a Lovely Garden" (Guy d'Hardelot).
- 10.11 p.m.—Melbourne Concert Orchestra:  
Suite, "Rustic Revels" (Percy Fletcher).  
"Canzonetta" (Tchaikowsky).
- 10.26 p.m.—Mr. William Mack, Baritone:  
"My Old Shako" (Trotiere).  
"Ailsa Mine" (Newton).
- 10.34 p.m.—Ayaz Dansonians.
- 10.52 p.m.—"Age" News Bulletin, exclusive to 3AR.
- 10.58 p.m.—Final Weather Forecast.
- 10.59 p.m.—Our Australian Good Night Quote is taken from the poem, "The Australian Sunrise," by J. L. Cuthbertson.
- 11.0 p.m.—G.P.O. Clock says "Eleven"; God Save the King.

## 4QG, BRISBANE

TUESDAY, 29th MAY, 1928.

## MORNING SESSION.

10.30 a.m. to 11.30 a.m.

## MIDDAY SESSION.

- 1 p.m.—Market reports; weather information; "The Daily Mail" and "The Daily Standard" news.
- 1.30 p.m.—Lunch hour music.
- 1.58 p.m.—Standard time signal.
- 2 p.m.—Close down.

## AFTERNOON SESSION.

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

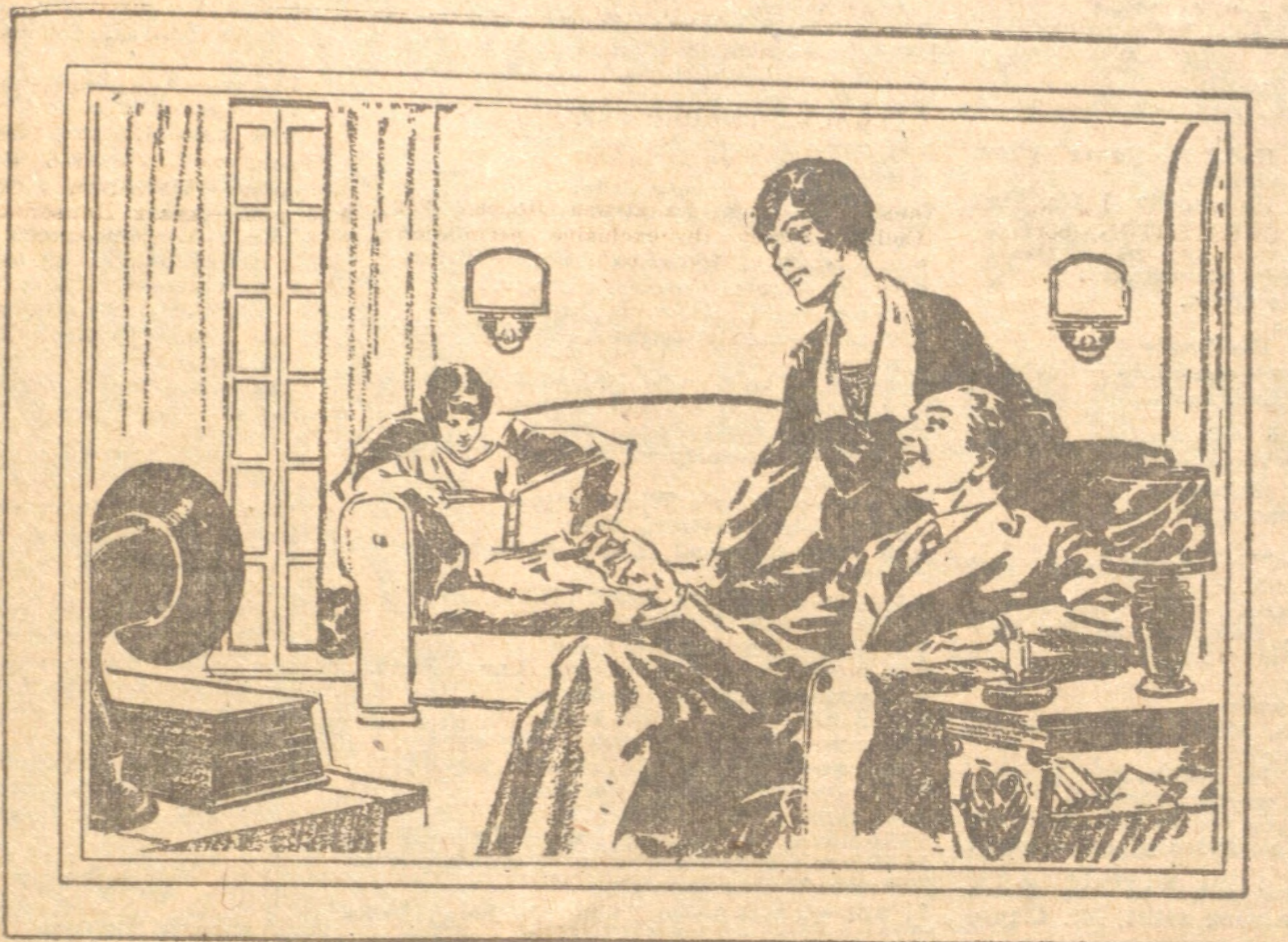
## EARLY EVENING SESSION.

- 6 p.m.—Mail train running times.
- 6.2 p.m.—"Daily Standard" news.
- 6.8 p.m.—Stock Exchange information.
- 6.9 p.m.—Metal quotations.
- 6.10 p.m.—Dinner music.
- 6.28 p.m.—Announcements.
- 6.30 p.m.—Bedtime stories by "Uncle Ben" and "Uncle Pete."
- 7 p.m.—Special news service.
- 7.3 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.—Cancer talk by Mr. Hayes of Cancer Campaign Committee.
- 7.51 p.m.—Lecturette:  
"A Talk on Photography" Mr. F. L. South (Manager, Kodak Ltd.)

## NIGHT SESSION.

- 8 p.m.—From The Studio:  
An entertainment by the Richmond Party. Instrumental trio: "Berceuse" (Ilkinsky).  
Mr. Jack Ellis, Miss Gwen de Grant, Mr. Maxx Aronsten.  
Mezzo-soprano solos:  
(a) "Fairings" (Easthope Martin).  
(b) "The Fairy Laundry" (Phillips).  
Mrs. W. F. Hamilton.





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# Wednesday, May 30

## 2FC, SYDNEY

### EARLY MORNING SESSION.

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

### MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.  
 10.5 a.m.—Studio music.  
 10.15 a.m.—"Sydney Morning Herald" news service.  
 10.30 a.m.—Studio music.  
 10.35 a.m.—A reading.  
 10.45 a.m.—Studio music.  
 11 a.m.—"Big Ben." Studio music.  
 11.5 a.m.—A.P.A. and Reuter's Cable Services.  
 11.15 a.m.—A talk on Home Cooking and Recipes by Miss Ruth Furst.  
 11.30 a.m.—Close down.

### MIDDAY SESSION.

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

### AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and announcements.  
 3.5 p.m.—A Recital of Edison Records.  
 3.30 p.m.—Eileen Moreau, soprano.  
 3.35 p.m.—George McNeilly, tenor:  
 "Dawn-Tide" (Tosti).  
 3.38 p.m.—A Pianoforte Reproduction.  
 3.50 p.m.—Ivy Dunstone, mezzo.  
 3.55 p.m.—Mona Jepson, pianoforte solos:  
 (a) "The Lark" (Balakirew).  
 (b) "Romance" (Sibelius).  
 4.3 p.m.—Joyce Gillespie, soprano.  
 4.8 p.m.—George McNeilly, tenor:  
 "Curtain Falls" (D'Hardekot).  
 4.12 p.m.—Ivy Dunstone, mezzo.  
 4.16 p.m.—Mona Jepson, pianoforte solo:  
 "Whims" (Schumann).  
 4.20 p.m.—Popular records.  
 4.32 p.m.—Eileen Moreau, soprano.  
 4.36 p.m.—A Reading.  
 4.45 p.m.—Stock Exchange, third call.  
 4.47 p.m.—Mona Jepson, pianoforte solos:  
 (a) "Arabesque" (Debussy).  
 (b) "Sing a Song of Sixpence" (Leo Livens).  
 4.52 p.m.—Joyce Gillespie, soprano.  
 4.55 p.m.—Studio music.  
 5 p.m.—"Big Ben." Close down.

### EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.  
 5.45 p.m.—The "Hello Man" talks to the children, assisted by Uncle Rus and "Jerry."  
 6.25 p.m.—Children's music.  
 6.30 p.m.—Late sporting news.

- Violin solo:  
 "None But the Weary Heart" (Tchaikowsky).  
 Miss Gwen de Grant.  
 Baritone solo:  
 "Prince Ivan's Song" (Allitsen).  
 Mr. Max Aronsten.  
 Pianoforte solo:  
 "Schezo" (Mendelssohn).  
 Mr. Jack Ellis.  
 Vocal duet:  
 "Of Fairy Wand Had I the Power" (from "Maritana"—Wallace).  
 Mrs. W. F. Hamilton and Mr. Max Aronsten.  
 Violin solo:  
 "Pierrot Serenade" (Randagger).  
 Miss Gwen de Grant.  
 Mezzo-soprano solo:  
 "Far Greater in His Lowly State" (from "The Queen of Sheba"—Gounod).  
 Mrs. W. F. Hamilton.  
 Baritone solos:  
 (a) "Camel Bells" (Lohr).  
 (b) "Sea Fever" (Masefield).  
 (c) "The Wind" (Spross).  
 Mr. Max Aronsten.  
 Pianoforte solo:  
 "Caprice Espagnol" (Mokowski).  
 Mr. Jack Ellis.  
 Vocal duet: Selected.  
 Mrs. W. F. Hamilton and Mr. Max Aronsten.  
 Instrumental Trio:  
 "Prelude" (Massenet).  
 Mr. Jack Ellis, Miss Gwen de Grant, Mr. Max Aronsten.  
 Accompanist: Mr. Jack Ellis.  
 9 p.m.—Metropolitan weather forecast.  
 9.1 p.m.—Half-an-hour's fun by Billy Maloney, assisted by Dulcie Maloney and Eileen Cusack.  
 9.30 p.m.—An entertainment by the Metro Male Quartette (assisting artist, Mr. Claude Walker).  
 Male Quartette:  
 "A Hush Song" (Banyon).  
 Metro Male Quartette.  
 Tenor solo:  
 "To Mary" (Maud V. White).  
 Mr. J. Dean.  
 Duet:  
 "The Moon Hath Raised Her Lamp Above" (Benedict).  
 Messrs. Smith and Davies.  
 Ten Minutes with Henry Lawson—by Mr. Claude Walker.  
 Baritone solo:  
 "The Wolf" (Shield).  
 Mr. L. Sheridan.  
 Male Quartette:  
 "Old Black Joe" (Foster).  
 Metro Male Quartette.  
 Bass solo:  
 "The Curfew" (Gould).  
 Mr. W. A. Davies.  
 Tenor solo:  
 "Come into the Garden, Maud" (Balfe).  
 Mr. A. Smith.  
 Male quartette:  
 "Where My Caravan has Rested.." (Lohr).  
 Metro Male Quartette.  
 10 p.m.—"The Daily Mail" news. Weather news.  
 Close down.

## 5CL, ADELAIDE

TUESDAY, 29th MAY, 1928.

### AFTERNOON SESSION.

- 3.30 p.m.—Talk by Rev. G. E. Hale, B.A.  
 "Baffled."  
 3.45 p.m.—Orchestral selections.  
 4.57 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.  
 5 p.m.—G.P.O. Chimes and close down.

### EVENING SESSION.

- 6 p.m.—G.P.O. Chimes.  
 6.1 p.m.—Children's entertainment.  
 6.30 p.m.—Dinner Music from the studio.  
 7.1 p.m.—S. C. Ward and Co.'s Stock Exchange intelligence.

- 7.7 p.m.—General Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union, Taylor Bros., Retail Grocers Association, Interstate Fruit and Produce Market Co. Ltd.  
 7.15 p.m.—"Windbag's" Sporting Service.  
 7.20 p.m.—Extracts from "News Bulletin."  
 7.25 p.m.—Gardening talk by Lasscocks Nurseries, Lockleys.  
 7.35 p.m.—A Scientific talk.  
 7.55 p.m.—Station Announcements.  
 8 p.m.—G.P.O. Chimes.  
 8.1 p.m.—S.A. Railways Band.  
 8.10 p.m.—Windarra Quartette in vocal selections.  
 8.16 p.m.—S.A. Railways Band.  
 8.23 p.m.—Grace Cussion, soprano.  
 8.29 p.m.—S.A. Railways Band.  
 8.36 p.m.—Raymond Ellis, English operatic baritone.  
 8.43 p.m.—The Glenelg Maison Dance Band.  
 8.52 p.m.—Grace Cussion, soprano.  
 8.55 p.m.—S.A. Railways Band.  
 9.1 p.m.—Meteorological information, weather forecast.  
 9.2 p.m.—Dalgety's Wheat report.  
 9.4 p.m.—International News.  
 9.12 p.m.—Raymond Ellis, English operatic baritone.  
 9.15 p.m.—Windarra Quartette.  
 9.21 p.m.—S.A. Railways Band.  
 9.30 p.m.—Ken Hughes, tenor.  
 9.33 p.m.—The Glenelg Maison Dance Band.  
 9.50 p.m.—Windarra Quartette.  
 9.54 p.m.—S.A. Railways Band.  
 10.1 p.m.—"The Advertiser" news service.  
 10.8 p.m.—"Windbag's" Sporting service.  
 10.12 p.m.—Windarra Quartette.  
 10.15 p.m.—S.A. Railways Band.  
 10.22 p.m.—The Glenelg Maison Dance Band.  
 10.55 p.m.—Meteorological information and tomorrow's programme.  
 11 p.m.—G.P.O. Chimes and National Anthem.

## 6WF, PERTH.

TUESDAY, 29th MAY, 1928.

### MIDDAY SESSION.

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

### AFTERNOON SESSION.

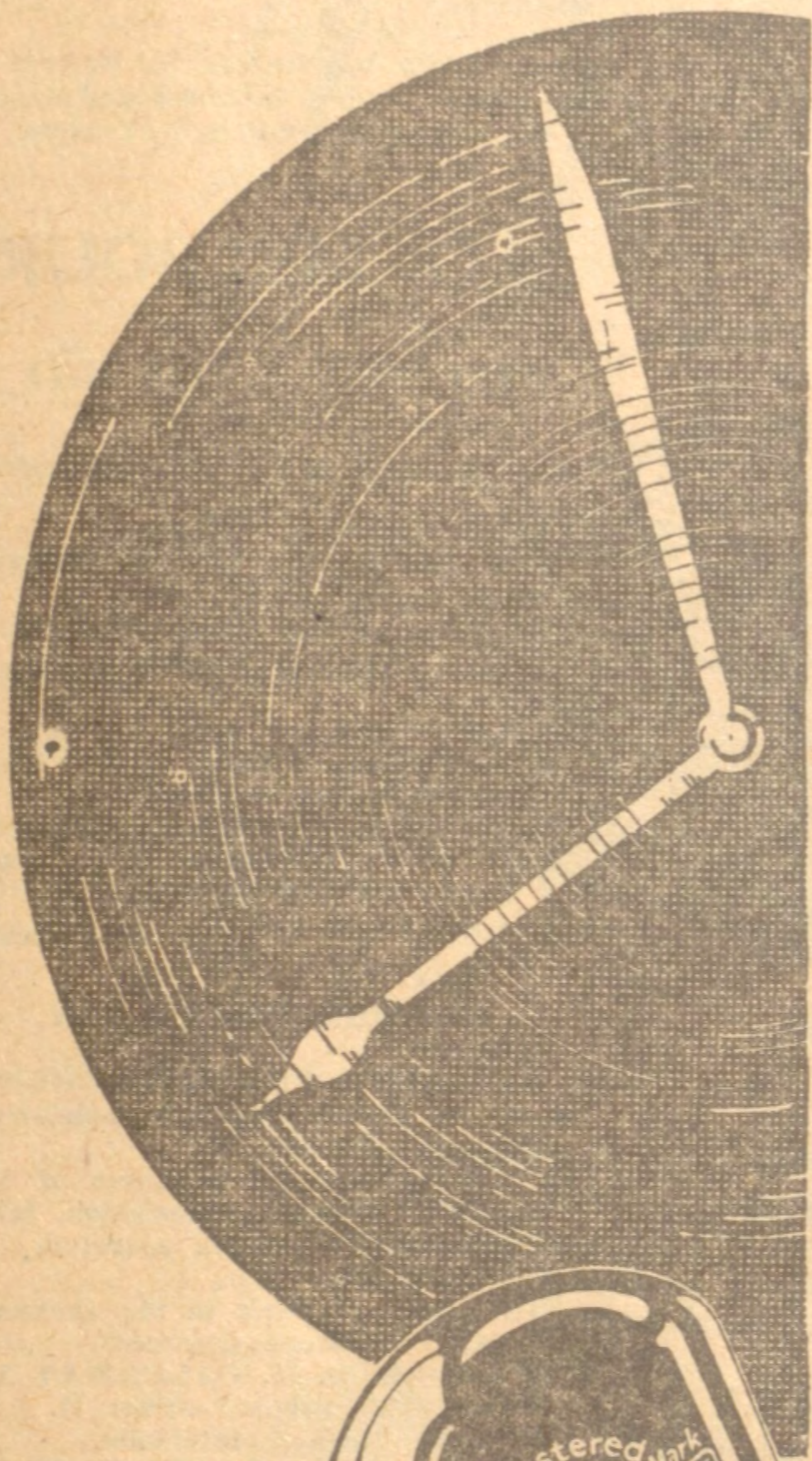
- 3.30 p.m.—Tune in.  
 3.35 p.m.—Pianoforte selections by Miss Evelyn Willis, A.R.C.M.  
 Vocal and instrumental numbers from the studio.  
 4.30 p.m.—Close down.

### EVENING SESSION.

- 6.45 p.m.—Tune in.  
 The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.  
 6.50 p.m.—Stories for the Kiddies by Uncles Henry, Percy and Duffy.  
 7.20 p.m.—Stocks, Markets, News.  
 7.45 p.m.—Talk by Dr. J. S. Battye, B.A., LL.B.  
 8 p.m.—Time signal.  
 8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
 Station announcements such as alterations to programmes, etc.  
 8.3 p.m.—Concert Night.  
 Musical programme from the studio, including vocal and instrumental artists.  
 10 p.m.—Late News items by courtesy of "The Daily News" Newspaper Co.  
 Ships within Range announcements.  
 Weather report and forecast.  
 10.30 p.m.—Close down.  
 104.5 METRE TRANSMISSION.  
 Simultaneous broadcast on 104.5 metres of programme given on 1250 metres, commencing at 6.45 p.m.



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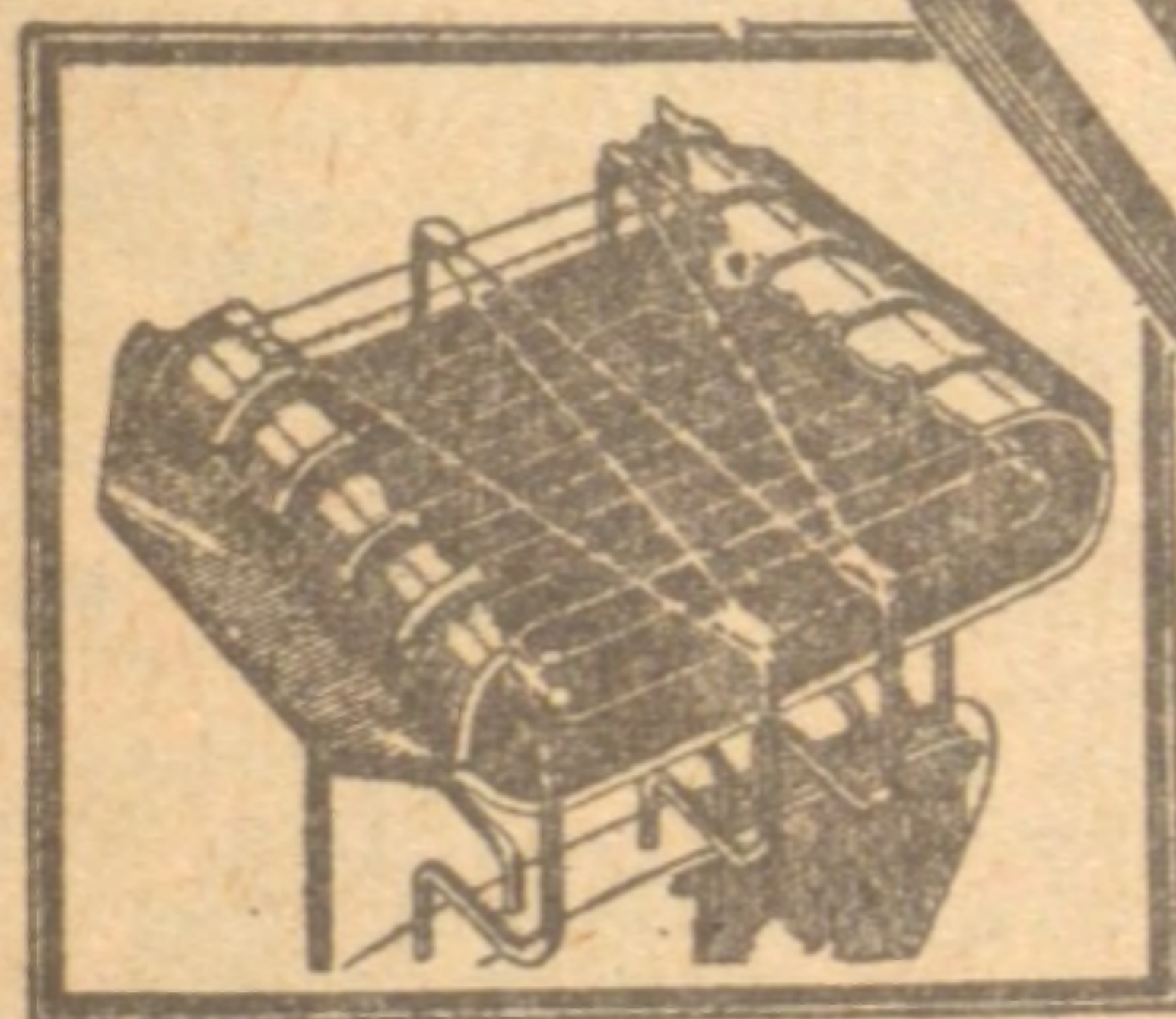
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P.M.4 (Power) 0.1 amp. 13/6

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6.35 p.m.—Dalgety's market reports (wheat and stock).  
 6.43 p.m.—Fruit and vegetable markets.  
 6.45 p.m.—Stock Exchange information.  
 6.48 p.m.—Weather and shipping news.  
 6.50 p.m.—Studio talk.  
 7 p.m.—"Big Ben." Dinner music.  
 7.30 p.m.—"Evening News" late news service.

## EVENING SESSION.

## "A DELIGHTFUL COMEDY NIGHT."

7.38 p.m.—Programme announcements.  
 7.40 p.m.—John Dellore, Tenor;  
 7.47 p.m.—B. Stewart, on behalf of the Workers' Educational Association, will give a talk on:  
 "A People's University."  
 7.58 p.m.—From the Capitol Theatre, Sydney: The Capitol Theatre Orchestra Unit, conducted by Ted Henkel.  
 Items on the "Wurlitzer" Organ, played by Fred Scholl.  
 8.20 p.m.—From the Studio:  
 Lionel Lunt, Baritone (late of the "Carl Rosa" Opera Company, will revive memories of Comic Operas (by permission of J. C. Williamson, Ltd.).  
 8.28 p.m.—A "Wagnerian" Talk.  
 8.33 p.m.—John Dellore, Tenor.  
 8.40 p.m.—H. W. Varna and Company will produce the Play, "Mr. Pim Passes By" (A. A. Milne). (By permission of J. C. Williamson, Ltd.)

## CAST:

George Marden, J.P. .... H. W. Varna  
 Olivia (his Wife) .... Muriel Connor  
 Dinah (his Niece) .... Felix Clark  
 Lady Marden (his Aunt) .... Cleo Glover  
 Brian Strange .... E. W. Pitt  
 Carraway Pim .... William Hume

## ACT I.

Scene: Morning Room at Marden House, Bucks.

9.2 p.m.—Late Weather Forecast.  
 9.3 p.m.—Lionel Lunt, Baritone (by permission of J. C. Williamson, Ltd.).  
 9.10 p.m.—From the Capitol Theatre, Sydney: The Capitol Theatre Orchestra, under the baton of Ted Henkel.  
 At the Wurlitzer Organ: Fred Scholl.  
 In the Capitol Theatre Stage Presentation.  
 9.25 p.m.—From the Studio:  
 "Mr. Medley and Mr. Motley."  
 9.35 p.m.—Peter Gawthorne, Baritone, from Gaiety Theatre, London. (By permission of J. C. Williamson, Ltd.).  
 9.45 p.m.—H. W. Varna and Company: Act II. of "Mr. Pim Passes By."  
 Scene: Morning Room at Marden House, Bucks. (Same as Act I.)  
 10.5 p.m.—Peter Gawthorne, Baritone. (By permission of J. C. Williamson, Ltd.)  
 10.15 p.m.—From the Capitol Theatre, Sydney: Items by the Capitol Theatre Orchestra, conducted by Ted Henkel.  
 10.30 p.m.—H. W. Varna and Company will give the Third Act of "Mr. Pim Passes By."  
 Scene: Same as Act I. and II.: Morning Room at Marden House, Bucks.  
 10.50 p.m.—Studio Items.  
 10.57 p.m.—To-morrow's Programme and Late News.  
 11.0 p.m.—"Big Ben"; National Anthem; Close Down.

## 2BL, SYDNEY.

WEDNESDAY, 30th MAY, 1928.

## EARLY MORNING SESSION.

8 a.m. to 9 a.m.

## MORNING SESSION.

11 a.m.—G.P.O. Clock and chimes.  
 Talk on "Basket Ball" by Miss Gwen Varley, Broadcasters Women's Sports Authority.  
 Welfare Talk by Mrs. Jordan.

## AFTERNOON SESSION.

Racing information broadcast immediately after each race by courtesy of the "Sun."

12 noon.—G.P.O. Clock and chimes.  
 Special Ocean Forecast and Weather report.  
 12.3 p.m.—Musical programme from the studio.  
 12.12 p.m.—Information, Mails, Shipping, and port directory.  
 12.15 p.m.—Boats in call by wireless.  
 12.17 p.m.—Fruit Market report.  
 12.19 p.m.—Vegetable Market report.  
 12.21 p.m.—London Metal Market report.  
 12.23 p.m.—Dairy and Farm Produce Market report.  
 12.26 p.m.—Fish Market report.  
 12.28 p.m.—Rabbit Market report.  
 12.30 p.m.—H.M.V. Gramophone recital.  
 1.30 p.m.—G.P.O. Clock and chimes.  
 Talk to children and special entertainment for children in hospital.  
 2 p.m.—G.P.O. Clock and chimes.  
 Musical programme from studio.  
 2.20 p.m.—News from the "Sun."  
 2.30 p.m.—Musical programme from studio.  
 2.40 p.m.—News from the "Sun."  
 2.50 p.m.—Musical programme from studio.  
 3 p.m.—G.P.O. Clock and chimes.  
 News from the "Sun."  
 3.10 p.m.—Pianoforte recital from the studio.  
 3.20 p.m.—News from the "Sun."  
 3.30 p.m.—Racing resume.  
 3.35 p.m.—Musical programme from the studio.  
 3.40 p.m.—Dungowan Dance Band, broadcast from Dungowan Cabaret.  
 4 p.m.—G.P.O. Clock and chimes.  
 News from the "Sun."  
 4.8 p.m.—Musical programme from the studio.  
 4.15 p.m.—News Session.  
 4.30 p.m.—Dungowan Dance Band.  
 4.50 p.m.—Racing resume.  
 5 p.m.—G.P.O. Clock and chimes.  
 Close down.

## EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.  
 Children's Session.  
 6.30 p.m.—Gulbransen Dinner Music.

## SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and chimes.  
 Racing resume.  
 7.5 p.m.—Australian Mercantile Land and Finance Co's Report.  
 Producers Distributing Society's Fruit and Vegetable Market report.  
 Stock Exchange report.  
 Grain and Fodder report ("Sun.")  
 Dairy Produce report ("Sun.")  
 N.R.M.A. Report.  
 7.15 p.m.—Country news from the "Sun."  
 7.30 p.m.—News from the "Sun."  
 7.40 p.m.—Talk on "Astrology" by Miss Charlton-Smith.  
 8 p.m.—G.P.O. Clock and Chimes.  
 An Hour's programme, presented by Messrs. E. F. Wilks and Co., Ltd.  
 9 p.m.—Sketch by Mr. Jack Radford and partner.  
 9.10 p.m.—Miss Iverna Kyle (soprano).  
 9.17 p.m.—The Ahad Duo (Steel Guitars).  
 9.24 p.m.—Mr. D. J. Davis (tenor).  
 9.31 p.m.—Sketch by Mr. Jack Radford and partner.  
 9.41 p.m.—Biss Beryl Scott (Songs at the piano).  
 9.48 p.m.—Miss Iverna Kyle.  
 9.55 p.m.—The Ahad Duo.  
 10.2 p.m.—Mr. D. J. Davis.  
 10.9 p.m.—Miss Beryl Scott.  
 10.16 p.m.—Resume of following day's programme.  
 10.20 p.m.—Romano's Restaurant Dance Orchestra, under the direction of Mr. Merv. Lyons. During intervals between dances "Sun" news will be broadcast.  
 11.30 p.m.—G.P.O. Clock and Chimes.  
 National Anthem.

## 2 UW, SYDNEY

WEDNESDAY, 30th MAY, 1928.

## EVENING SESSION.

7 p.m.—Studio items.  
 7.10 p.m.—Where to go session.  
 7.14 p.m.—Dinner music.

7.45 p.m.—Miss Doris Fitzmaurice, elocutionist. Selected.  
 7.52 p.m.—Studio selection.  
 7.56 p.m.—Miss Tyerman, pianoforte solo. Selected.  
 8.2 p.m.—News items.  
 8.15 p.m.—Mr. Lovedee, banjo solo. Selected.  
 8.22 p.m.—Items from studio.  
 8.28 p.m.—Miss Doris Fitzmaurice, elocutionist. Selected.  
 8.35 p.m.—Weather forecast.  
 8.38 p.m.—Studio selection.  
 8.42 p.m.—Mr. Lovedee, banjo solo. Selected.  
 8.48 p.m.—Miss Tyerman, pianoforte solo. Selected.  
 8.54 p.m.—Studio item.  
 9 p.m.—Talk by Mr. J. K. Powell.  
 9.20 p.m.—Request numbers and dance music.  
 10 p.m.—Announcements and close down.

## 3LO, MELBOURNE

WEDNESDAY, 30th MAY, 1928.

## EARLY MORNING SESSION.

7.15 a.m.—Morning melodies.  
 7.20 a.m.—PHYSICAL CULTURE EXERCISES (to music).  
 7.27 a.m.—Morning melodies.  
 7.32 p.m.—Weather Forecast for all States. Mails.  
 7.40 a.m.—News.  
 8 a.m.—Melbourne Observatory Time Signal.  
 8.1 a.m.—Morning melodies.  
 8.5 a.m.—News. Sporting information. Shipping. Stock Exchange fluctuations.  
 8.13 a.m.—Morning melodies.  
 8.15 a.m.—Close down.

## MORNING SESSION.

11 a.m.—3LO'S CULINARY COUNSELS, or how to create creature comforts with a minimum of cash.  
 11.5 a.m.—Under the auspices of the Young Women's Christian Association, MISS JEAN STEVENSON, general secretary, Y.W.C.A., will speak on—  
 "The Place of Girls in the Community."  
 11.20 a.m.—Musical interlude.  
 11.25 a.m.—MRS. M. CALLAWAY MAHOOD: "Window Treatment"—Part II.  
 11.40 a.m.—Musical interlude.  
 11.45 a.m.—MRS. CLARENCE WEBER: "Auto-Suggestion as an Aid to Health."

## MIDDAY SESSION.

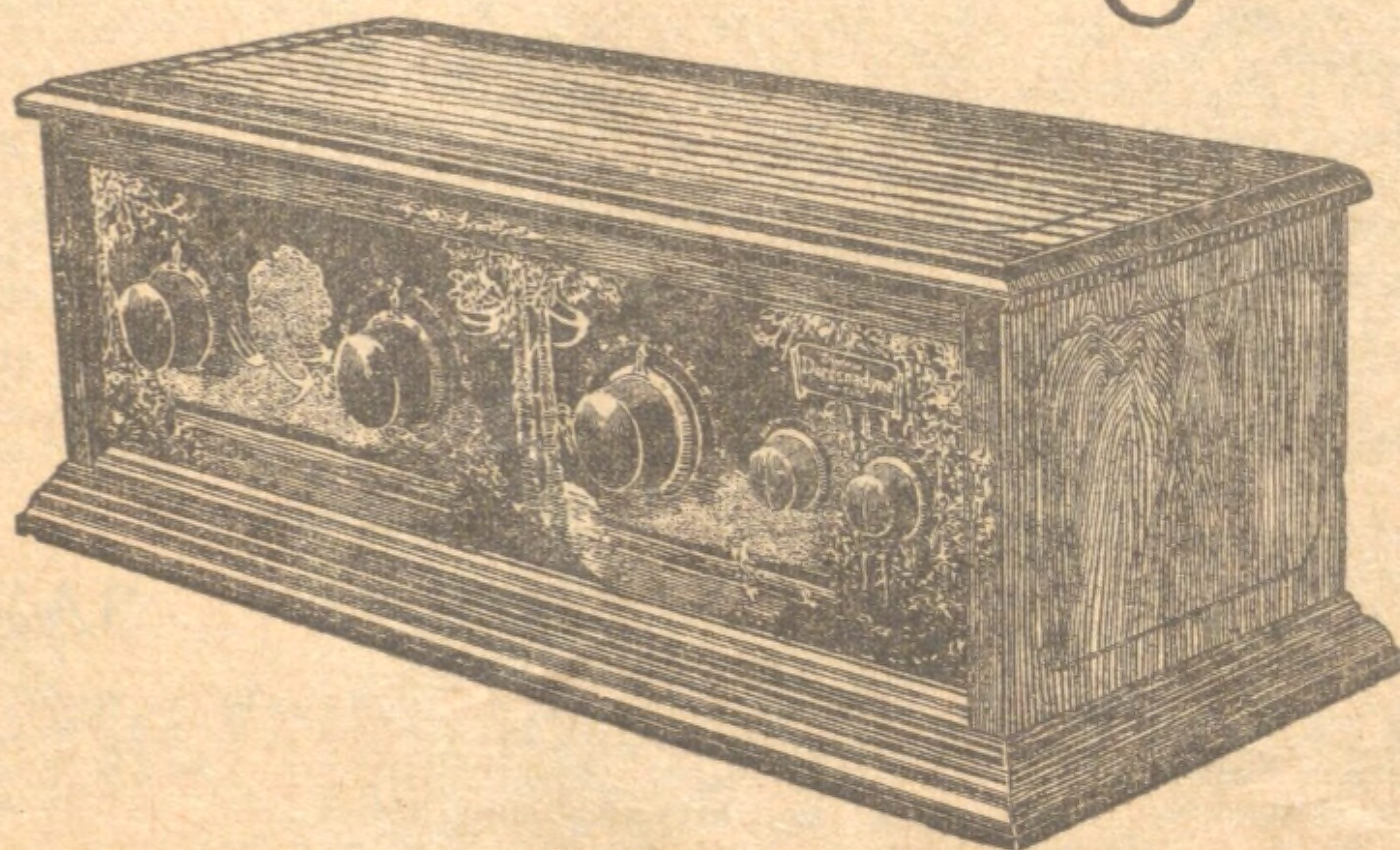
12 noon.—Melbourne Observatory Time Signal.  
 12.1 p.m.—Australian Mines and Metals Association, from the London Stock Exchange this day. British official wireless news from Rugby. Reuter's and the Australian Press Association cables. "Argus" news service.  
 12.20 p.m.—TOM KATZ' SAXOPHONISTS—Six Crooning Bell Boys, in all the latest.  
 12.30 p.m.—TILTON AND WEST—The Joy Boys:  
 "On My Ukulele" (Parish).  
 "Henry's Made a Lady Out of Lizzie" (O'Keefe).  
 12.37 p.m.—Stock Exchange information.  
 12.40 p.m.—TOM KATZ' SAXOPHONISTS—Six Crooning Bell Boys:  
 "Cute Catches."  
 12.50 p.m.—ISOBEL BIDDLEL, Contralto:  
 "Three Fishers" (Hullah).  
 "A Memory" (Goring Thomas).  
 1 p.m.—Melbourne Observatory Time Signal.  
 1.1 p.m.—TILTON AND WEST—The Joy Boys:  
 "My Pal Harry" (Weston).  
 "Baby Your Mother" (Donnelly).  
 1.8 p.m.—TOM KATZ' SAXOPHONISTS—Six Crooning Bell Boys, in more Musical Merriment.  
 1.18 p.m.—Meteorological information. Weather forecast for Victoria, Tasmania, South Australia and New South Wales. Ocean forecasts. River reports.



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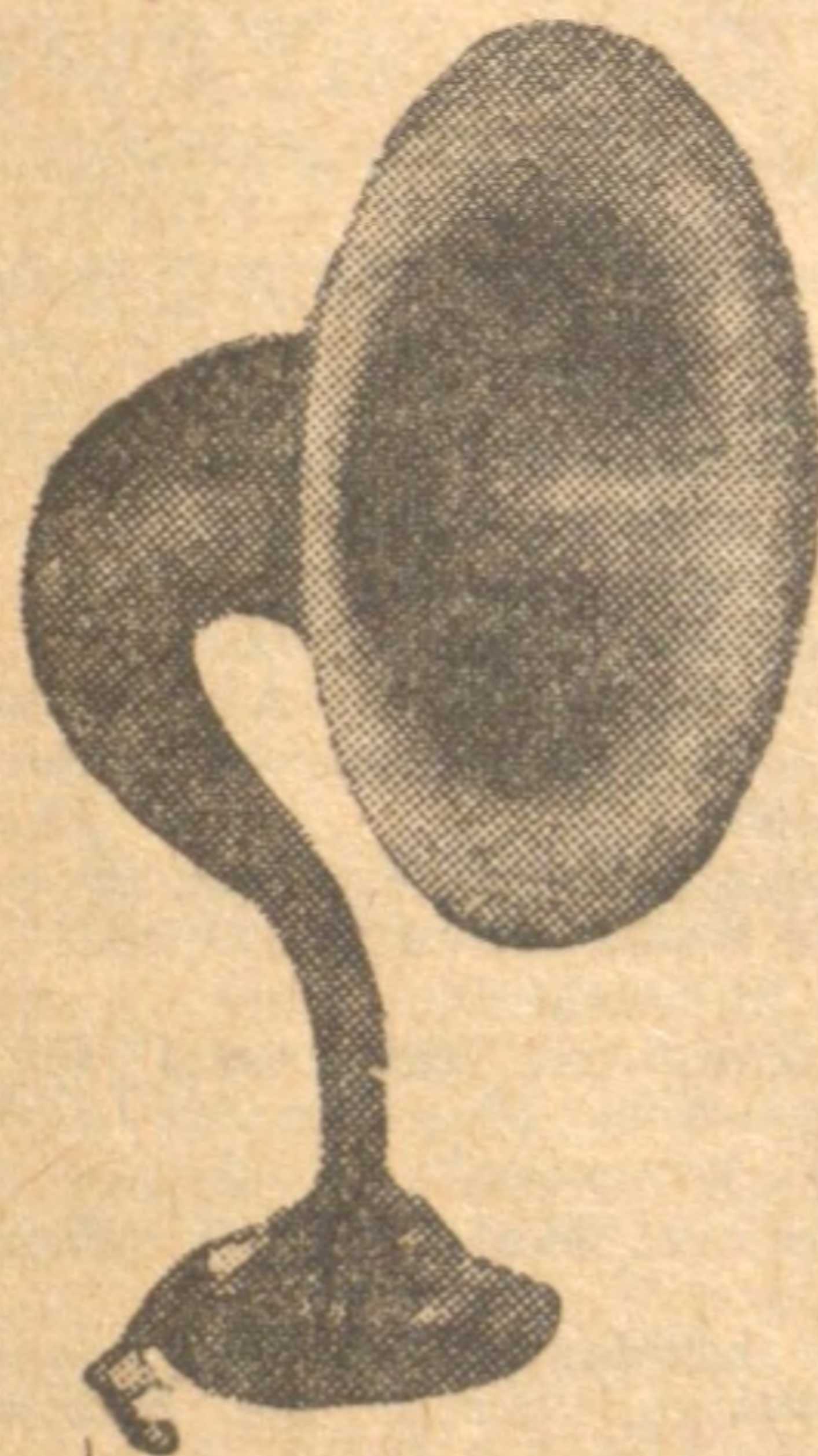
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- 1.25 p.m.—ISOBEL BIDDELL, contralto:  
"Like to a Damask Rose" (Elgar).  
"If You Should Frown" (York Bowen).  
1.30 p.m.—Transmission from the Hotel Australia, Collins Street, Melbourne. Rotary Club luncheon—Speech by PROFESSOR R. J. A. BERRY:  
"Some Pen Sketches of the States."  
2 p.m.—Close down.

## AFTERNOON SESSION.

- 2.15 p.m.—THE STATION ORCHESTRA:  
"Saga and Fantiful Dance" (Olsen).  
"Romana"—the Latest Waltz Hit.  
2.25 p.m.—MINA HESELEVA, soprano:  
Request items.  
2.32 p.m.—PERCY CODE, trumpet:  
"My Dreams" (Tosti).  
2.36 p.m.—THE STATION ORCHESTRA:  
"Ballad Memories" (arr. Bazoires).  
2.47 p.m.—SENIA CHOSTIAKOFF, tenor:  
"In Dobrinia Hikitch"—a Legend (arr. Jaroff).  
"A Dream" (Bartlett).  
2.54 p.m.—THE STATION ORCHESTRA:  
"Scenes Pittoresque"—Angelus (Massenet).  
3 p.m.—Melbourne Observatory Time Signal.  
3.1 p.m.—JACK LUMSDAINE, baritone—The Radio Rascal:  
"Maori Maiden."  
"Blue Heaven."  
3.8 p.m.—THE STATION ORCHESTRA:  
"Nola" (Arndt).  
"Barcarolle from Tales of Hoffman" (Offenbach).  
3.15 p.m.—TILTON AND WEST—The Joy Boys:  
"Just a Bird's Eye View."  
"You Can't Walk Back from an Aeroplane."  
3.22 p.m.—THE STATION ORCHESTRA:  
"Andante Cantabile from The Forest Symphony" (Beethoven).

## ORGAN RECITAL.

- 3.30 p.m.—C. E. MONTEATH, Organ Recital transmitted from St. Peter's Church, Eastern Hill, Melbourne:  
"Prelude" from "The Great Prelude and Fugue in A Minor" (J. S. Bach).  
"Choral No. 3, in A Minor" (Cesar Franck).  
"Romance Without Words" (Joseph Bonnet).  
"War March of the Priests" (Mendelssohn).  
From the incidental music to Racine's play, "Athalie."

## FROM THE STUDIO:

- 3.50 p.m.—THE GYPSY PLAYERS:  
"A Legend of Erin" (Johnson).  
"Minuet" (Puccini).  
4 p.m.—MINA HESELEVA, soprano:  
"Two Ballads by Tschaikowsky."  
4.7 p.m.—HELGA BRENNECKE, 'cello:  
"The Swan" (Saint Saens).  
4.12 p.m.—SENIA CHOSTIAKOFF, tenor:  
"Beautiful Eyes," a gypsy romance.  
"Diane" (Erne Rabe and Lew Pollack).  
4.19 p.m.—THE GYPSY PLAYERS:  
"Quartet" (Hadyn).  
4.29 p.m.—JACK LUMSDAINE, whispering baritone:  
Request items.  
4.36 p.m.—THE STATION ORCHESTRA:  
"Nell Gwyn Dances" (Edward German).  
4.46 p.m.—TILTON AND WEST—The Joy Boys:  
"On My Ukulele" (Parish).  
"Baby Your Mother" (Donnelly).  
4.53 p.m.—THE STATION ORCHESTRA:  
"My Lady Frayle" (Talbot and Fink).

## NEWS SESSION.

- 5 p.m.—"Herald" news service. Stock Exchange information.  
5.15 p.m.—Close down.

## EVENING SESSION.

- 6 p.m.—Answers to Letters and Birthday Greetings by "MARY MARY."  
6.20 p.m.—DICKSON GREGORY:  
"Foundering of the CATTERTHON and salvaging her gold."

- 6.35 p.m.—Musical interlude.  
6.40 p.m.—"MARY MARY":  
"The Brave Weaver"—a Hindu legend.  
NEWS AND MARKET REPORT.  
7 p.m.—Official report of Newmarket stock sales by the Associated Stock and Station Agents, Bourke Street, Melbourne.  
7.5 p.m.—"Herald" news service. Weather synopsis. Shipping movements.  
7.12 p.m.—Stock Exchange information.  
7.17 p.m.—Fish market reports by J. R. BORRETT, LTD. Rabbit prices.  
7.19 p.m.—River reports.  
7.21 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd.; Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions. Market reports of fruit by the Victorian Fruiterers' Association. Retail prices. Wholesale prices of fruit from the Wholesale Fruit Merchants' Association. Citrus Fruits. Results of Egg-laying Competition.

## NIGHT SESSION.

- 7.30 p.m.—Under the auspices of the Department of Agriculture, R. CROWE, Exports Superintendent, will speak on:  
"Marketing Methods."  
7.45 p.m.—P. W. PEARCE, the Physical Culture Expert, will speak on  
"Quick Growth."

## OUT OF THE PAST.

- 8 p.m.—On May 30, 1900, Johannesburg was occupied.  
8.1 p.m.—CAPTAIN PETERS:  
"Books, Wise and Otherwise."  
8.15 p.m.—On May 30, 1835, was born ALFRED AUSTIN, the late Poet-laureate. He died in 1913.  
Birthday Greetings and Programme Announcements.

## CAMP FIRE COMPETITION.

- 8.16 p.m.—Concert by the 1st City of Camberwell Troop (Melba's Own):  
OPENING CHORUSES:  
"The More We Are Together."  
"There Won't be Any Trouble if You Smile."  
Round, "Oh How Lovely is the Evening."  
One-Act Play.  
Cast: Capt. McKenzie, Patrol-Leader B. Currey; Lieut. Scott, Asst. Scoutmaster E. Black; Wireless Operator, Asst. Scoutmaster J. Gare; Watchman, Scout McDonald; Lieut. in Mess, Troop Leader N. Currey, Scout D. Aplin, Patrol Leader H. Warrent.  
Troop Choruses:  
"My Bonnie is Over the Ocean."  
"Old McDonald Had a Farm."

## VIOLIN Quartette:

- "Over the Waves."  
Scouts McDonald, Mills, Johnson, Cooper.

## DUET.

- Mandolin, Guitar.  
WATSON AND CAMPBELL.

## Duet—Song.

- "House Hunting."  
BURROWS AND SEABROOK.

## Birthday Greetings.

## BRASS BAND ITEMS.

- 8.40 p.m.—POLICE BAND:  
"March Leonidas" (North).  
Overture, "Lustspiel" (Keler Beler).  
8.50 p.m.—MINA HESELEVA, soprano:  
"Two Ballads by Arenski."  
8.57 p.m.—POLICE BAND:  
Fantasia, "A Nigger's Dream" (Bidgood).  
9.4 p.m.—SENIA CHOSTIAKOFF, tenor:  
"A Legend" (Tschaikowsky).  
Request item.  
9.11 p.m.—POLICE BAND:  
Selection, "Boccacio" (Suppe).  
STORY OF AN OPERA.  
9.20 p.m.—The Story of the Operas—Part 6. Under the Direction of Wm. G. James.

## NEWS SESSION.

- 10 p.m.—"Argus" News Service. Meteorological information. British Official Wireless News from Rugby.  
THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR

TO-DAY IS:—"Learn to respect sand roads. If you expect to turn out for any reason, start a considerable distance back of the point where you wish to be out of the road."

## A FROLIGSOME HOUR.

- 10.20 p.m.—POLICE BAND:  
Tubaphone solo, "Dreamland Bells."  
Soloist, Constable F. Geo. Hallam.  
10.25 p.m.—JACK LUMSDAINE, whispering baritone:  
"I Wonder How I Look when I'm Asleep?"  
"It All Depends on You."  
10.32 p.m.—THE GYPSY PLAYERS:  
"Serenade" (Jeffrey).  
"Pomponet'e" (Smala).  
10.40 p.m.—TILTON AND WEST—The Joy Boys:  
"You Can't Tell the Mothers."  
"Broken Hearted" (Sylva).  
10.47 p.m.—POLICE BAND:  
Characteristic American March, "The Husking Bee" (Thurlay).  
10.51 p.m.—GORDON JAMES, baritone:  
"There's a Song Down Every Roadway" (Hadyn Wood).  
"Go to Sea" (Trotiere).  
10.58 p.m.—THE GYPSY PLAYERS:  
"Venetian Romance" (Hildreth).  
"The Enchantress" (Johnstone).  
11.4 p.m.—GORDON JAMES, baritone:  
"A Good Heart all the Way" (Coningsby Clarke).  
"Friendships" (Lohr).

## 3LO'S DANCE PROGRAMME.

- 11.11 p.m.—THE VAGABONDS.  
11.40 p.m.—"GOD SAVE THE KING."

## 3AR, MELBOURNE

WEDNESDAY, 30th MAY, 1928.

## MORNING NEWS SESSION.

11 a.m. to 12 noon.

## MIDDAY CONCERT SESSION.

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

## MATINEE SESSION.

## ORCHESTRAL DANCE CONCERT.

- Sport. During the afternoon results of the Ballarat Turf Club Races, together with other information, will be broadcast immediately each race is run.  
2 p.m.—Ayaz Dansonians.  
A half-hour Dance Session by Melbourne's favorite Dance Band. All the latest Popular hits, each one announced prior to its presentation.  
2.30 p.m.—Melbourne Concert Orchestra:  
"Ballet Suite" from the Opera "The Demon" (A. Rubenstein).  
Suite Dansante, "Intermezzi" (Fredk. Rosse).  
2.47 p.m.—Miss Mae Seaton, soubrette:  
"Love's Cigarette" (H. Fraser Simson).  
"The Great Waltz Song" (H. Fraser Simson).  
2.54 p.m.—Melbourne Concert Orchestra:  
Aselection, "From the Highlands" (Otto Langey).  
3.12 p.m.—Miss Mae Seaton, soubrette:  
"Villa" (Franz Lehar).  
"I was dreaming" (A. W. Juncker).  
3.19 p.m.—Ayaz Dansonians:  
3.30 p.m.—Announcements.  
3.35 p.m.—Talk by Dr. George Payne Philpots, President of the Food Education Society and Editor of the National Magazine of Health.  
3.45 p.m.—Melbourne Concert Orchestra.  
4 p.m.—G.P.O. Clock says "Four."  
4.1 p.m.—Second Weather forecast.  
4.3 p.m.—Mr. Herbert Sanderson, baritone:  
"Rip Van Winkle" (Carroll).  
"To Mary" (White).  
4.11 p.m.—Melbourne Concert Orchestra:  
"Ballet Russe" (Ar. Fourdrain).  
"Gavotte" (Von G. Sgambati).





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## Rock Fishing

Bill and I have been rock fishing. In one hour I lost 50 yards of gut line, four sinkers, five hooks and three patches of cuticle. As a return I caught one very live eel and the crest of three waves.

We had a wide variety of bait—squid, salted mackerel, prawns, mullet and sand worms. I owned two gut lines and Bill had a new rod.

Most of the fishing was done by me, as Bill usually hooked himself in the seat and developed a stiff neck trying to see the place.

When we began, the sea was leisurely lapping a foot below our ledge. Ten minutes later it ascended suddenly and three feet of water tried to push us off.

"Always stand on one leg when a wave breaks," a friend had advised me. Some day I will try this when paddling, but on this occasion I went down on all fours and pressed my chest—to the rock. This had a suction effect like a limpet.

Apart from torn trousers, cut hands and a temporary sense of drowning, I came through splendidly.

Bill had just hooked himself again when the wave broke and he sat down four feet away on the hook. His comments carried to the beach and an old lady left in a hurry. Then he abused me for not having lain down on the bait, most of which had gone with the wave.

Next thing that happened was the eel! Have you ever pulled an angry eel on to a small slippery rock and then tried to find your hook? This eel had swallowed it down to his tail—I left it there.

Incidentally Bill said that I caught the eel on purpose to annoy him. I soothed him by saying that he seemed to be hooking the same flathead right along!

The next edition of the free Burgess Book of Adventures will surely carry a chapter on my escape from drowning. But don't wait for that—get one of the present consignment from the New System folk, 280 Castlereagh Street, Sydney.

It has more thrills than rock fishing. And that's going some!

- 4.26 p.m.—Mr. Herbert Pettifer, violin:  
"Finale from G Major Sonata" (Grieg).  
4.30 p.m.—Mr. Herbert Sanderson, baritone:  
"The Lass O' Killeen" (Stockles).  
"Tom Brown" (Squire).  
4.38 p.m.—Ayarz Dansonians:  
4.55 p.m.—To-night's Entertainment.  
Announcements.  
5 p.m.—G.P.O. Clock says "Five."  
God Save the King.  
CHILDREN'S SESSION.  
6.30 p.m.—3AR's Cousin Peter.

### EVENING SESSION.

- CONCERT HALL AND BALL ROOM.  
7.15 p.m.—Our Boy Scouts. Commissioner W. D. Kennedy, Deputy Camp Chief of Victoria will give his interesting weekly notes and news on the Scout Movement.  
7.35 p.m.—Sport Session. "Harlequin" presents his budget of up-to-date news and comments on Sport of the day.  
7.50 p.m.—Macnamara's Stock report.  
8 p.m.—G.P.O. Clock says "Eight."  
8.1 p.m.—Melbourne Concert Orchestra:  
Overture, "Zampa" (Herold).  
Suite, "Viva La Danse" (Hermann Finck).  
8.16 p.m.—Miss Margery Jacoby, soprano:  
"Down in the Forest" (Landon Ronald).  
"The Silver Ring" (Chaminade).  
8.24 p.m.—Ayarz Dansonians.  
8.40 p.m.—Mr. Bert Lack, flute:  
"Tarantella" (Anderson).  
8.43 p.m.—Mr. Arch Clarke, humorous Entertainer:  
"Currants."  
"What d'ye mean, you lost yer dog."  
8.50 p.m.—Announcements.  
9.2 p.m.—Melbourne Concert Orchestra:  
Selection, "Queen High" (Hanley).  
"From Stage to Stage" (Fetras).  
9.22 p.m.—Miss Margery Jacoby, soprano:  
"Damon" (Max Stange).  
"The Birth of Morn" (Franco Leoni).  
9.30 p.m.—Melbourne Concert Orchestra:  
"Melodious Memories" (Finck).  
9.48 p.m.—Announcements.  
10 p.m.—G.P.O. Clock says "Ten."  
10.1 p.m.—Semi-Final Weather forecast, specially for our Country Listeners.  
10.3 p.m.—Ayarz Dansonians:  
10.19 p.m.—Miss Ethel Brearley, piano:  
"Claire de Lune" (Debussy).  
10.23 p.m.—Mr. Arch. Clarke, humorous Entertainer:  
"Out in the Open."  
"Flappers."  
10.31 p.m.—Melbourne Concert Orchestra:  
Suite, "Summer Days" (Eric Coates).  
10.45 p.m.—"Harlequin" Sport results.  
10.52 p.m.—"Age" news service, exclusive to 3AR.  
10.58 p.m.—Final Weather forecast.  
10.59 p.m.—Our Australian Good Night quote is taken from the poem, "The Red West Road" by Will Lawson.  
11 p.m.—G.P.O. Clock says "Eleven."  
God Save the King.

## 4QG, BRISBANE.

WEDNESDAY, 30th MAY, 1928.

### MORNING SESSION.

10.30 a.m. to 11.30 a.m.

### MIDDAY SESSION.

- 1 p.m.—Market reports; weather information;  
"The Daily Mail" and "The Daily Standard" news.  
1.30 p.m.—Lunch hour music.  
1.58 p.m.—Standard time signal.  
2 p.m.—Close down.

### AFTERNOON SESSION.

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

### EVENING SESSION.

- 6 p.m.—Mail train running times.  
6.2 p.m.—"Daily Standard" news.  
6.8 p.m.—Stock Exchange information.  
6.9 p.m.—Metal quotations.  
6.10 p.m.—An astronomy talk: "The Earth" Mr. A. K. Chapman.  
6.28 p.m.—Announcements.  
6.30 p.m.—Bedtime stories by "Little Miss Brisbane."  
7 p.m.—Special news service.  
7.3 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: "Queensland Agriculture"—Professor J. K. Murray (Queensland University and Principal of Gatton College).

### NIGHT SESSION.

- 8 p.m.—A programme of music by Alf Featherstone and his Studio Syncopators, relayed (by arrangement) from Hotel Carlton, including:—  
Fox-trots:  
(a) "I wonder Who's Dancing with You To-night" (Henderson).  
(b) "Who Cares" (Ager).  
Fox-trots:  
(a) "All's Well that Ends Well" (Conrad).  
(b) "Marie" (Morgan).  
Jazz Waltz:  
"I Want a Pardon for Daddy" (Roat).  
Rhythmic paraphrase:  
"Fantasie Orientale" (Lange).  
Fox-trot:  
"Just Because You're You" (Turk).  
Fox-trots:  
(a) "Souvenir" (Nicholls).  
(b) "If Your Face Wants to Smile—Why, Let It" (Barclay).  
BY REQUEST:  
Jazz Waltz:  
"In a Little Spanish Town" (Wayne).  
Fox-trots:  
(a) "Where, Oh Where Do I Live" (Carlton).  
(b) "Tell Me To-night" (Connor).  
Fox-trots:  
(a) "Himazas" (Austin).  
(b) "Tinker, Tailor, Soldier, Sailor" (Damerell).  
Between dances the following will be relayed from the Studio:  
Soprano solos:  
Selected.  
Mrs. Roebt Bell.  
Ten minutes' fun by Mr. Harry Edouin.  
Soubrette numbers by Miss Billie Bailey.  
10 p.m.—"Queenslander" news service for distant listeners.  
10.30 p.m.—"The Daily Mail" news. Weather news.  
Close down.

## 5CL, ADELAIDE.

WEDNESDAY, 30th MAY, 1928.

### AFTERNOON SESSION.

- 3.30 p.m.—Lecturette.  
3.45 p.m.—Orchestral selections, Mannum racing results.  
4.57 p.m.—S. C. Ward and Co.'s Stock Exchange intelligence.  
5 p.m.—G.P.O. Chimes and close down.

### EVENING SESSION.

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



7.15 p.m.—Talk by Mr. E. W. Bronson (Dyer and Dry cleaner).  
 7.25 p.m.—Boy Scouts Corner.  
 7.40 p.m.—Entertainment by "The Bird Lady" for 5CL Bluebird Girls Club.  
 8 p.m.—G.P.O. Chimes, and Mannum racing results.  
 8.4 p.m.—Holden's Silver Band.  
 8.16 p.m.—Doreen May, soubrette.  
 8.22 p.m.—Andante Instrumental Trio.  
 8.29 p.m.—Humorous Interlude by Will Runge.  
 8.37 p.m.—Holden's Silver Band.  
 8.47 p.m.—Doreen May, soubrette.  
 8.53 p.m.—Andante Instrumental Trio.  
 9.1 p.m.—Meteorological information, weather forecast.  
 9.2 p.m.—Dalgaty's Wheat report.  
 9.4 p.m.—International News.  
 9.12 p.m.—Holdens Silver Band.  
 9.19 p.m.—Will Runge, in a little more humor.  
 9.26 p.m.—Andante Instrumental Trio.  
 9.33 p.m.—Holden's Silver Band.  
 9.42 p.m.—W. F. Gill-Evans, tenor.  
 9.48 p.m.—Andante Instrumental Trio.  
 9.55 p.m.—Holden's Silver Band.  
 10.1 p.m.—"The Advertiser" News Service.  
 10.8 p.m.—Antante Instrumental Trio.  
 10.14 p.m.—W. G. Gill-Evans, tenor.  
 10.17 p.m.—Holden's Silver Band.  
 10.25 p.m.—The Glenelg Maison Dance Band.  
 10.55 p.m.—Meteorological information and tomorrow's programme.  
 11 p.m.—G.P.O. Chimes and National Anthem.

**6WF, PERTH.**

WEDNESDAY, 30th MAY, 1928.

**MIDDAY SESSION.**

12.30 pm.—Tune in.  
 12.35 p.m.—Markets, News, and cables.  
 1 p.m.—Time signal.  
 1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
 1.2 p.m.—Studio Quintette, conducted by Mr. Val Smith.  
 2 p.m.—Close down.

**AFTERNOON SESSION.**

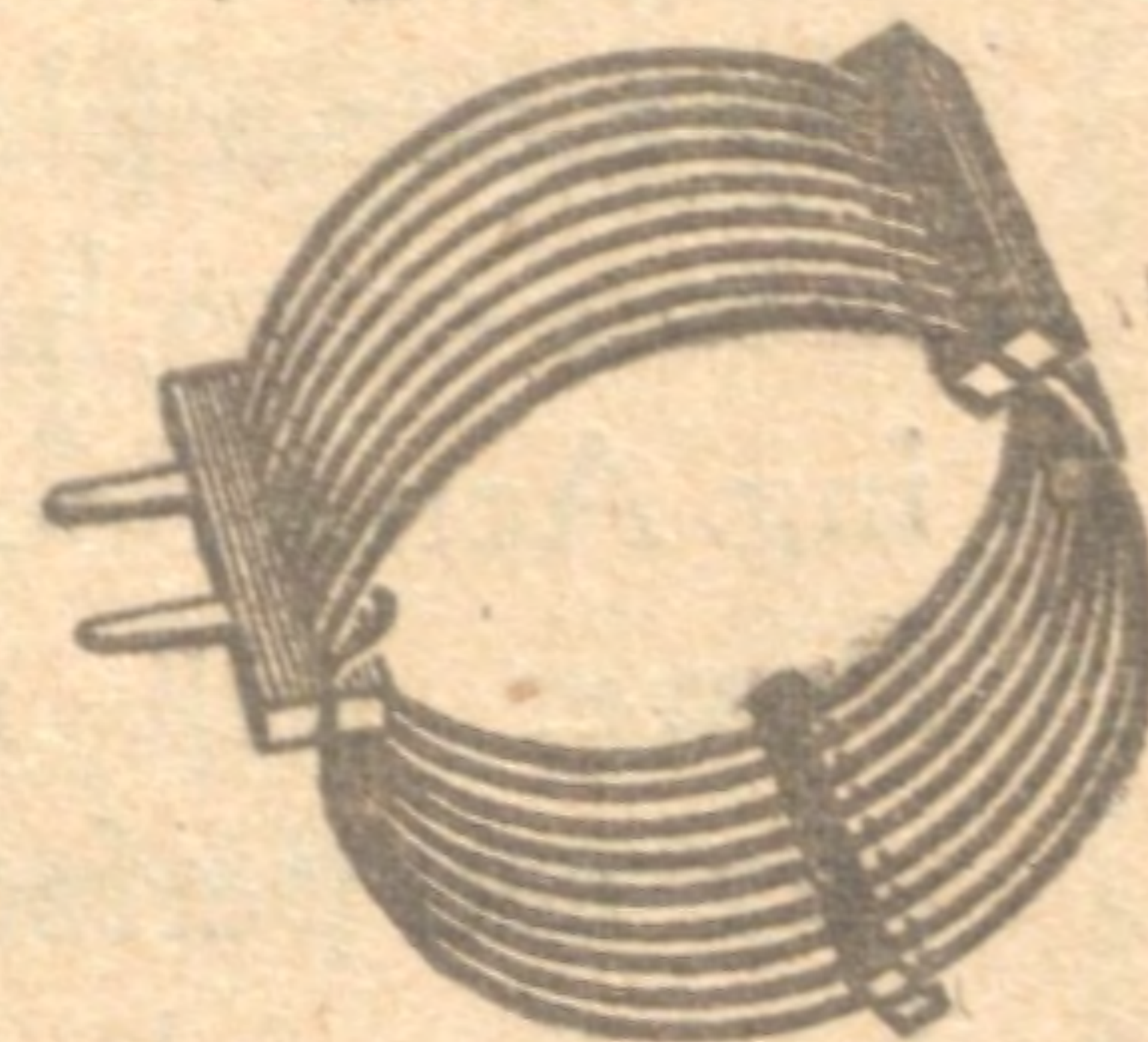
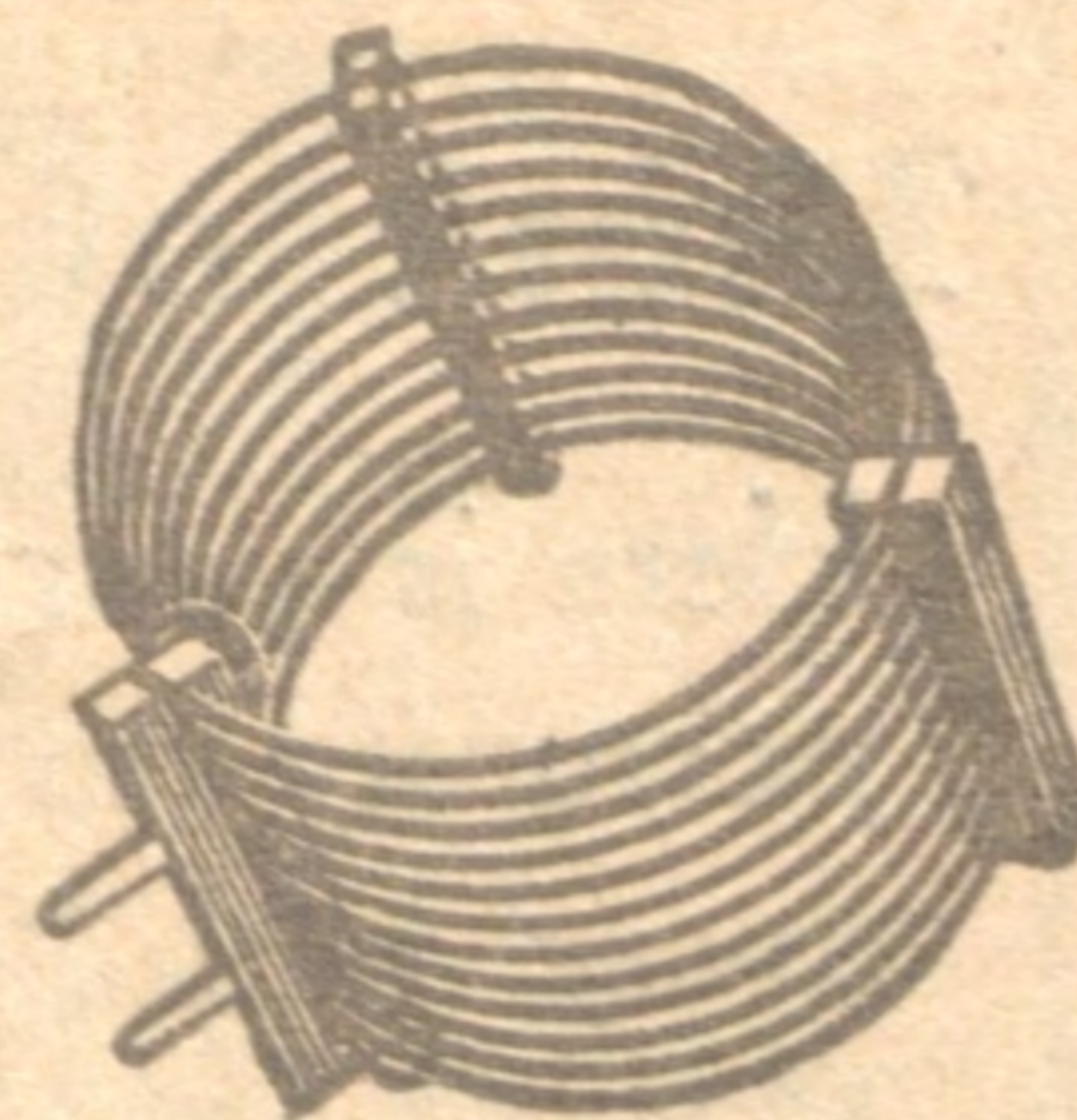
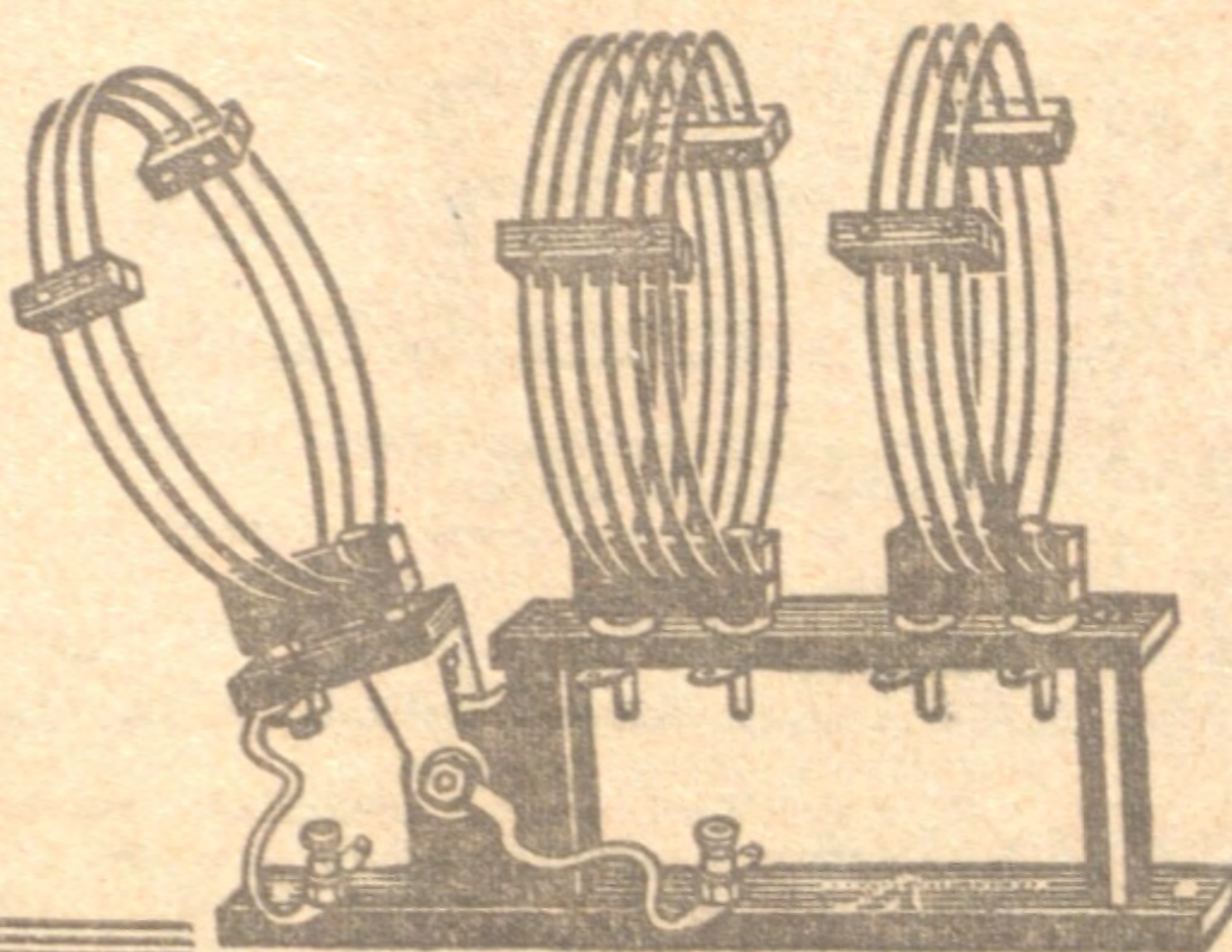
3.30 p.m.—Tune in.  
 3.35 p.m.—Talk "Fashions" by Junette.  
 3.55 p.m.—Organ and Pianola music relayed from the Grand Theatre, Murray street.  
 Vocal and instrumental numbers from the studio.  
 4.30 p.m.—Close down.

**EVENING SESSION.**

6.45 p.m.—Tune in.  
 The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.  
 6.50 p.m.—Stories for the Kiddies by Uncles Henry, Percy and Duffy.  
 7.20 p.m.—Stocks, Markets, News.  
 7.45 p.m.—Talk.  
 8 p.m.—Time signal.  
 8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
 Station announcements such as alterations to programmes, etc.  
 8.3 p.m.—Variety Night.  
 Musical programme from the studio, including vocal and instrumental artists.  
 10 p.m.—Late News items by courtesy of "The Daily News" Newspaper Co.  
 Ships within Range announcement.  
 Weather report and forecast.  
 10.30 p.m.—Close down.

**104.5 METRE TRANSMISSION.**

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



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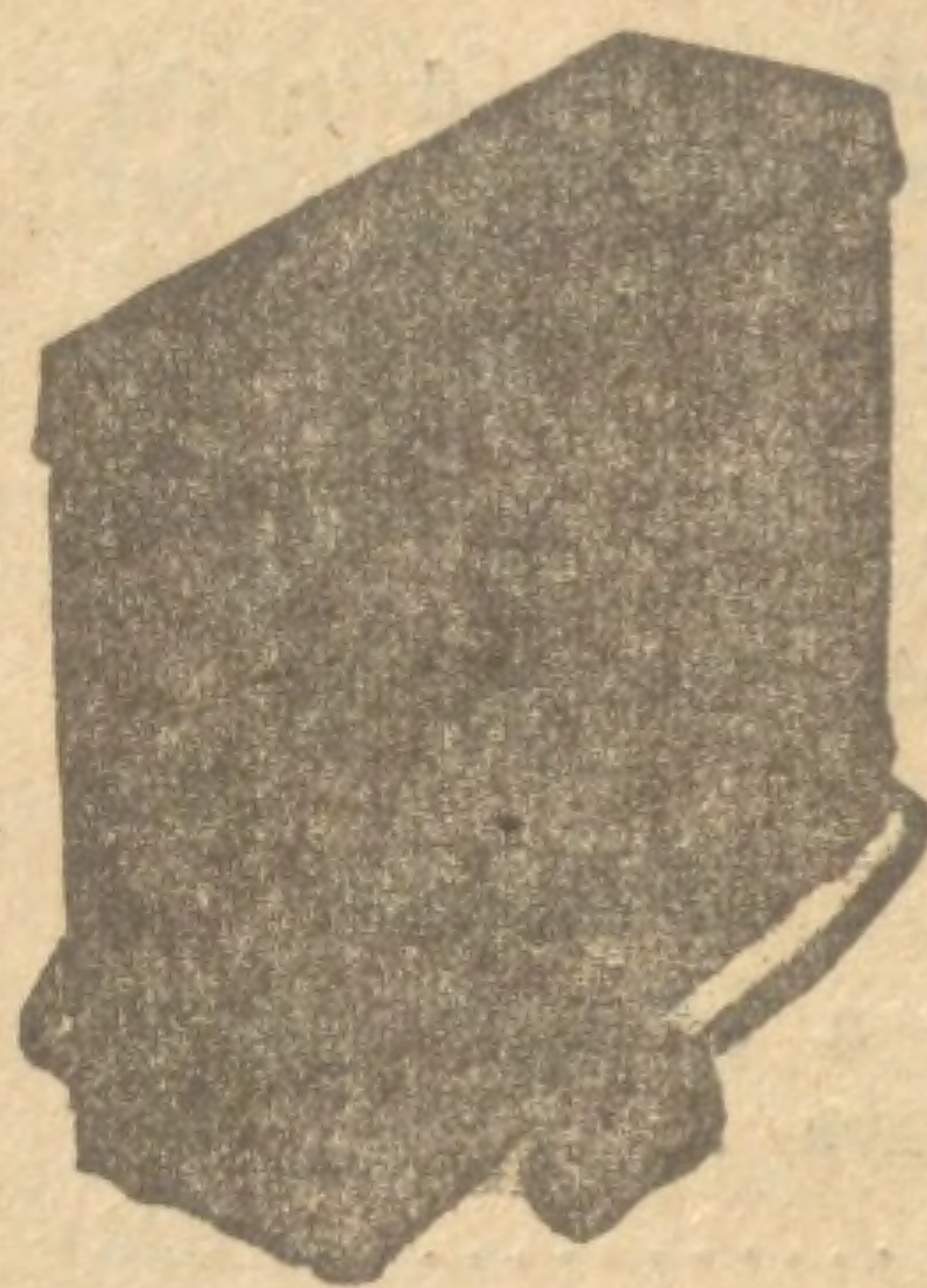
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**280 Castlereagh St., Sydney**  
**181-3 King Street, Melbourne**  
**Charles Street, Adelaide**

## Thursday, May 31

### 2FC, SYDNEY

#### EARLY MORNING SESSION.

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

#### MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
- 10.5 a.m.—Studio music.
- 10.15 a.m.—"Sydney Morning Herald" news service.
- 10.30 a.m.—Studio music.
- 10.35 a.m.—Last minute sporting information by the 2FC Commissioner.
- 10.45 a.m.—Studio music.
- 11 a.m.—"Big Ben." Studio music.
- 11.5 a.m.—A.P.A. and Reuter's Cable Services.
- 11.10 a.m.—Studio music.
- 11.15 a.m.—A reading.
- 11.30 a.m.—Close down.

#### MIDDAY SESSION.

- 12 noon.—"Big Ben" and announcements.
- 12.2 p.m.—Stock Exchange, first call.
- 12.3 p.m.—Official weather forecast, rainfall.
- 12.5 p.m.—Studio music.
- 12.10 p.m.—Summary of "Sydney Morning Herald" news service.
- 12.15 p.m.—Rugby Wireless News.
- 12.20 p.m.—Studio music.
- 1 p.m.—"Big Ben." Weather intelligence.
- 1.3 p.m.—"Evening News" midday news service.
- Producers' Distributing Society's Report.
- 1.20 p.m.—Studio music.
- 1.23 p.m.—Stock Exchange, second call.
- 1.30 p.m.—Studio music.
- 1.35 p.m.—Thelma Lansdowne, mezzo.
- 1.40 p.m.—Studio music.
- 1.45 p.m.—Thelma Lansdowne, mezzo.
- 1.50 p.m.—Late racing information by the 2FC Racing Commissioner.
- 2 p.m.—"Big Ben." Close down.

#### AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.
- 3.5 p.m.—A Recital of Parlophone Records.
- 3.30 p.m.—Netta Mullarkey, mezzo.
- 3.34 p.m.—William Austin, tenor.
- 3.38 p.m.—Alan McCristal, pianoforte solos (Pupil of Henry Penn):  
 (a) "Pastorale and Capriccio" (Scarlatti).  
 (b) "Old Vienna" (Godowsky).
- 3.45 p.m.—Aldyth Hern, soprano:  
 "My Mother bids me bind my Hair" (Haydn).
- 3.50 p.m.—A Reading.
- 4.5 p.m.—Alice Pomroy, mezzo.
- 4.10 p.m.—Alan McCristal, pianoforte solos (Pupil of Henry Penn):  
 (a) "Fileuse" (Rene Baton).  
 (b) "Autome" (Chaminade).  
 (c) "Impromptu" (Chopin).
- 4.22 p.m.—Netta Mullarkey, mezzo.
- 4.26 p.m.—William Austin, tenor.
- 4.30 p.m.—Popular records.
- 4.38 p.m.—Alice Pomroy, mezzo.
- 4.42 p.m.—Aldyth Hern, soprano:  
 "Oh, the Oak and the Ash" (17th Century)

- 4.45 p.m.—Stock Exchange, third call.
- 4.47 p.m.—Alan McCristal, pianoforte solos (Pupil of Henry Penn):  
 (a) "Sing a song of Sixpence" (Leo Livens).  
 (b) "Fantasie" (Mozart).
- 4.52 p.m.—Studio music.
- 5 p.m.—"Big Ben." Close down.

#### EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
- 5.45 p.m.—The "Hello Man" talks to the children.
- 6.25 p.m.—Children's music.
- 6.30 p.m.—Late sporting news.
- 6.35 p.m.—Dalgety's market reports (wool, wheat and steel).
- 6.43 p.m.—Fruit and vegetable markets.
- 6.45 p.m.—Stock Exchange information.
- 6.48 p.m.—Weather and shipping news.
- 6.50 p.m.—Dr. Richard Arthur, M.L.A.:  
 Health Talk.
- 7 p.m.—"Big Ben." Dinner music.
- 7.20 p.m.—"Mr. Medley and Mr. Motley" will entertain.
- 7.30 p.m.—"Evening News" late news service.

#### EVENING SESSION.

#### GRAND OPERA AND CLASSICAL NIGHT.

- 7.40 p.m.—Programme announcements.
- 7.43 p.m.—"To-night's Visitor," an innovation.
- 7.53 p.m.—Clifford Lathlean, Baritone, reappearance on the air of this well known Adelaide artist, recently returned from abroad.
- 8.0 p.m.—"Big Ben." The 2FC Studio Orchestra, conducted by Horace Keats:  
 (a) Overture, "Norma" (Bellini).  
 (b) "Chant du Voyageur."  
 "Melodie" (Paderewski).
- 8.16 p.m.—Roland Foster will give his third Lecture Recital, including excerpts from Grand Opera, supported by a number of well known artists. Mr. Foster will tell the story of the Opera, which will be completely illustrated, with vocal and instrumental selections.
- 8.38 p.m.—The 2FC Studio Orchestra, conducted by Horace Keats:  
 (a) "Serenata della Laguna."  
 (b) Four Dances from "Tom Jones" (German).
- 8.52 p.m.—Clifford Lathlean, Baritone.
- 9.0 p.m.—"Big Ben." Late weather forecast.
- 9.1 p.m.—The 2FC Studio Orchestra, conducted by Horace Keats:  
 "Reve Angelique" (Rubenstein).
- 9.12 p.m.—"Con Drew," stories told by Brunton Gibb. (The first of a series of six.)  
 Con Drew is a writer of inimitable Racing and Turf Stories.
- 9.25 p.m.—The 2FC Studio Orchestra:  
 "March of the Toys" (Herbert).
- 9.30 p.m.—Continuation of the Grand Opera Lecture-Recital, by Roland Foster.
- 9.50 p.m.—The 2FC Studio Orchestra:  
 Selection, "The Count of Luxemburg" (Lehar).
- 10.5 p.m.—Charles O'Mara, Entertainer:  
 (a) "Father O'Flynn" (Graves).  
 (b) "A Letter from Mary of Mourne" (David Buchan).
- 10.13 p.m.—From the Ambassadors:  
 The Ambassadors' Dance Orchestra, under the baton of the new conductor, Manuel Hyman.
- 10.25 p.m.—From the Studio: Charles O'Mara, Entertainer:  
 (a) "Molly Dooley Darling" (Doris Grenfel).  
 (b) "Three Short Stories."  
 (c) "Soldiers Three" (French and Collinson).
- 10.33 p.m.—Late weather forecast.
- 10.35 p.m.—From the Ambassadors Dance Music.
- 10.57 p.m.—From the Studio: Late news and to-morrow's programme.
- 11.0 p.m.—"Big Ben." From the Ambassadors:  
 The Ambassadors' Dance Orchestra, conducted by Manuel Hyman.
- 11.45 p.m.—National Anthem. Close down.



**2BL, SYDNEY.****THURSDAY, 31st MAY, 1928.****EARLY MORNING SESSION.**

8 a.m. to 9 a.m.

**MORNING SESSION.**

- 10.30 a.m.—G.P.O. Clock and Chimes. Musical programme from the Studio.  
 11 a.m.—G.P.O. Clock and Chimes. Talk on "Denison Craft," by Miss Hoyles.  
 12 noon.—G.P.O. Clock and Chimes. Special Ocean forecast and Weather report.  
 12.3 p.m.—Musical programme from the Studio.  
 12.12 p.m.—Information, Mails, Shipping, and Port directory.  
 12.15 p.m.—Boats in call by Wireless.  
 12.17 p.m.—Fruit Market report.  
 12.19 p.m.—Vegetable market report.  
 12.21 p.m.—London Metal market report.  
 12.23 p.m.—Dairy Farm and Produce Market report.  
 12.26 p.m.—Fish Market report.  
 12.28 p.m.—Rabbit Market report.  
 12.30 p.m.—G.P.O. Clock and Chimes. H.M.V. Gramophone Recital.  
 1.30 p.m.—G.P.O. Clock and chimes. Talk to Children and Special Entertainment for Children in Hospital.  
 2 p.m.—G.P.O. Clock and Chimes. Close down.

**AFTERNOON SESSION.**

- Racing information broadcast immediately after each race, by courtesy of the "Sun."  
 3 p.m.—G.P.O. Clock and chimes. News from the "Sun."  
 3.10 p.m.—Musical programme from the Studio.  
 3.20 p.m.—News from the "Sun."  
 3.30 p.m.—Musical programme from the Studio.  
 3.40 p.m.—Dungowan Dance Band, broadcast from Dungowan Cabaret.  
 4 p.m.—G.P.O. Clock and Chimes. News from the "Sun."  
 4.8 p.m.—Musical programme from the Studio.  
 4.15 p.m.—News Session.  
 4.30 p.m.—Dungowan Dance Band.  
 4.50 p.m.—News from the "Sun."  
 4.57 p.m.—Features of evening's programme.  
 4.59 p.m.—Racing resume.  
 5 p.m.—G.P.O. Clock and Chimes. Close down.

**EARLY EVENING SESSION.**

- 5.45 p.m.—G.P.O. Clock and Chimes. Children's Session.  
 6.30 p.m.—Dinner music.

**SPECIAL COUNTRY SESSION.**

- 7 p.m.—G.P.O. Clock and Chimes. Racing resume. Australian Mercantile Land and Finance Co.'s report. Weather report and forecast by courtesy of Government Meteorologist. Producers' Distributing Society's Fruit and Vegetable Market report. Stock Exchange report. Grain and Fodder report ("Sun"). Dairy Produce report ("Sun"). Weekly Traffic Bulletin.  
 7.15 p.m.—Country news from the "Sun."  
 7.30 p.m.—News from the "Sun."  
 7.45 p.m.—Helpful Hints to Listeners by Mr. Alan Burrows.  
 8 p.m.—G.P.O. Clock and Chimes. Broadcasters' Topical Chorus.

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8.3 p.m.—Concert under the auspices of the British Music Society broadcast from the King's Hall.

9.30 p.m.—From the Studio.

Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist. Mr. Claude Corbet, Sporting Editor of the "Sun," will talk on the prospects of Saturday's racing.

9.45 p.m.—Mr. Maurice E. Price (entertainer).

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

10.5 p.m.—The Wurlitzer Organ broadcast from the Arcadia Theatre, Chatswood. Organist, Mr. N. Robins.

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

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

## 3LO, MELBOURNE.

THURSDAY, 31st MAY, 1928.

### EARLY MORNING SESSION.

7.15 a.m.—Morning Melodies.

7.20 a.m.—PHYSICAL CULTURE EXERCISES.

7.27 a.m.—Morning Melodies.

7.33 a.m.—WEATHER FORECAST for all States. Mails.

7.40 a.m.—News.

8 a.m.—Melbourne Observatory time signal.

8.1 a.m.—Morning Melodies.

8.5 a.m.—NEWS. Sporting information. Shipping. Stock Exchange information.

8.13 a.m.—Morning Melodies.

8.15 a.m.—Close down.

### MORNING SESSION.

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

11.5 a.m.—REV. R. A. NICHOLS will speak on "The Child of the Poor in Winter."

11.20 a.m.—Musical Interlude.

11.35 a.m.—MATRON MORELAND.

"Mothercraft."

11.40 a.m.—Musical Interlude.

11.45 a.m.—MRS. HENRIETTA C. WALKER, The Art of Being a Settler. "Fetes and Fairs."

### MIDDAY SESSION.

12 noon.—Melbourne Observatory time signal.

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

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

### FROM THE STUDIO—

1.45 p.m.—Meteorological information.

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

1.55 p.m.—Close down.

### AFTERNOON SESSION.

2.15 p.m.—THE STATION ORCHESTRA: Selection, "La Boheme" (Puccini).

2.25 p.m.—MINA HESELEVA, soprano: Aria, "Ruslan and Ludmeeta" (Glinka). Aria, "Marguerita"—"Faust" (Gounod).

2.32 p.m.—THE STATION ORCHESTRA: "Favorite Airs from the Operas."

2.42 p.m.—SENIA CHOSTIAKOFF, tenor:

"E Lucevan le Stelle"—Puccini.

"Amor ti Vieta"—Feodora (Giordano).

2.49 a.m.—THE STATION ORCHESTRA:

"Cavatina"—Faust (Gounod).

"La Favorita" (Donizetti).

3 p.m.—Melbourne Observatory Time Signal.

### EDUCATION HOUR.

3.1 p.m.—DR. LOFTUS HILLS:

"Topics of the Week."

3.15 p.m.—WILLIAM G. JAMES will speak to the Students of Music.

3.30 p.m.—REV. WILLIAM BOTTOMLEY, Some 19th Century Humanists.

1. Dr. Southwood Smith.

### MOMENTS MUSICAL.

3.45 p.m.—THE GYPSY PLAYERS:

"Mozart Quartet—Slow Movement."

3.55 p.m.—ISOBEL BIDDELL, Contralto:

"Love Went A'Riding" (Frank Bridge).

"The Blind Ploughman" (Coningsby Clarke).

TOM KATZ' CROONING BELL BOYS.

4.2 p.m.—TOM KATZ and HIS CROONING BELL BOYS in

Captivating cadences with catchy accompaniments.

4.32 p.m.—ISOBEL BIDDELL, Contralto:

"The Carpet" (Sanderson).

"The Sandman."

### NEWS SESSION.

4.39 p.m.—"Herald" News Session. Stock Exchange information.

### EVENSONG.

4.45 p.m.—EVENSONG, transmitted from St. Paul's Cathedral.

### FROM THE STUDIO.

5.30 p.m.—Acceptances for Flemington Races on Saturday.

5.55 p.m.—Close down.

### EVENING SESSION.

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

6.20 p.m.—Musical Interlude.

6.25 p.m.—"MARY GUMLEAF."

"Stories for the Littlest Ones."

"Three Wishes."

"Manly Little Tom."

Poem: "Politeness at Home."

6.35 p.m.—Musical interlude.

6.40 a.m.—"MARY GUMLEAF."

Story for the Older Boys and Girls.

"Little Ida's Flowers."

### NEWS AND MARKET REPORTS.

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

7.5 p.m.—"Herald" News Service. Weather synopsis. Shipping movements.

7.12 p.m.—Stock Exchange information.

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

7.19 p.m.—River reports.

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

### NIGHT SESSION.

7.30 p.m.—A Talk on Foreign Affairs by an Australian.

7.45 p.m.—REGINALD SHARLAND, now appearing in "The Girl Friend," at the Theatre Royal, will speak to you from his dressing-room, by permission of J. C. Williamson, Ltd.

### OUT OF THE PAST.

8 p.m.—To-day, the 31st May, we commemorate the end of the Transvaal War by the Peace Signed at Pretoria in 1902. Also the Naval Battle off Jutland—Germans and British each lost six ships—in 1916.



8.1 p.m.—ROD MCGREGOR will speak on "Football."

#### A MAKER OF HISTORY.

8.15 p.m.—Congratulations and Many Happy Returns of the Day to Col. Sir Francis Younghusband, K.C.S.I., born 1863. He headed the British Mission to Tibet in 1897-1904, and was "Times" correspondent with the Chitral Expedition. Birthday Greetings and Programme Announcements.

#### 3LO'S DANCE PROGRAMME.

"He Teaches a Dance  
That is perfect romance,  
And sets all your blood in a tingle."  
—Duncan Campbell Scott.

8.15 p.m.—THE VAGABONDS:  
"Who-o You, That's Who" (Yellen).  
"The Wedding Waltz" (Gilbert).  
"The Sunrise" (Santly).

8.25 p.m.—TILTON AND WEST, The Joy Boys:  
"If They Put Honolulu in Ireland"

8.28 p.m.—THE VAGABONDS:  
"Half a Moon" (Hanley).  
"Deep River Blues."  
"Kiss Me, Curse You."

8.37 p.m.—JACK LUMSDAINE:  
The Radio Rascal.  
Request item.

8.40 p.m.—THE VAGABONDS:  
"Just a Little Cuter" (Alexander).  
"Yale Blues."  
"Baby Your Mother."

8.49 p.m.—GORDON JAMES, Baritone.  
"Four by the Clock" (Mallinson).

8.52 p.m.—THE VAGABONDS:  
"Spanish Moon."  
"There Must be a Silver Lining."  
"Chopinata" (Doncet).

9.1 p.m.—MINA HESELEVA, Soprano:  
"Nightingale" (Alliabieff).

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

9.13 p.m.—TILTON AND WEST, the Joy Boys:  
"Oh Sole, Oh Me!"

9.16 p.m.—THE VAGABONDS:  
"Rag Doll," Piano Solo (Brown).  
"Guatemala Melody."  
"Broken Hearted" (Lewis).

9.25 p.m.—JACK LUMSDAINE, Whispering Baritone:  
"I'd Climb the Highest Mountain"

9.28 p.m.—THE VAGABONDS:  
"From Now On" (Lewis).  
"Rose of the Volga" (Kahn).  
"Cheerie Berrie Bee."

9.37 p.m.—GORDON JAMES, Baritone:  
"Mandalay" (Cobb).

9.40 p.m.—THE VAGABONDS:  
"Around the World."  
"Diane" (Rapee).  
"The Blue Room."

9.49 p.m.—MINA HESELEVA, Soprano:  
"Il Bacio" (Gounod).

9.52 p.m.—THE VAGABONDS:  
"The Girl Friend."  
"Are You Happy" (Agar).

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

10.15 p.m.—THE VAGABONDS:  
"Lilting Lusla."  
"All on My Ownsome" (Kahn).  
"Dancing Tambourines" (Polla).

10.24 p.m.—TILTON AND WEST:  
Request items.

10.27 p.m.—THE VAGABONDS:  
"Barbara" (Silver).  
"What Will You Do?"  
"Hungaria."

10.36 p.m.—JACK LUMSDAINE, the Radio Rascal:  
"Just the Very Latest."

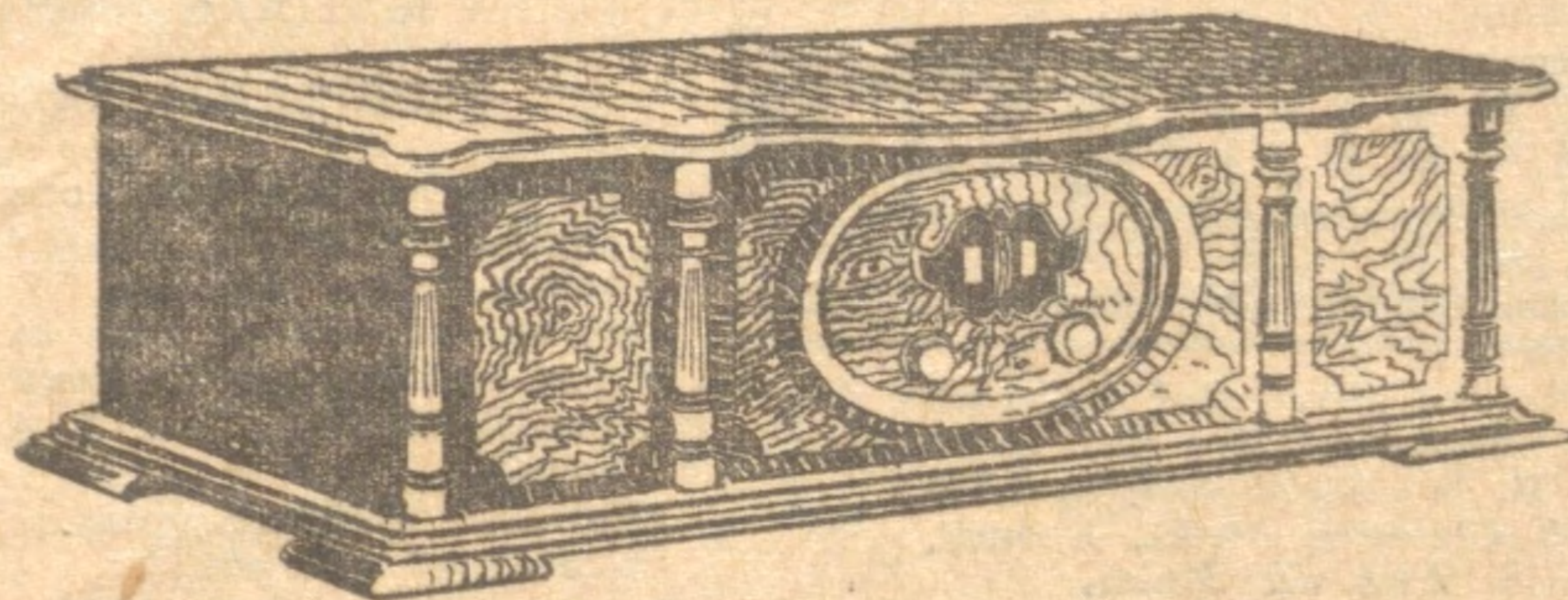
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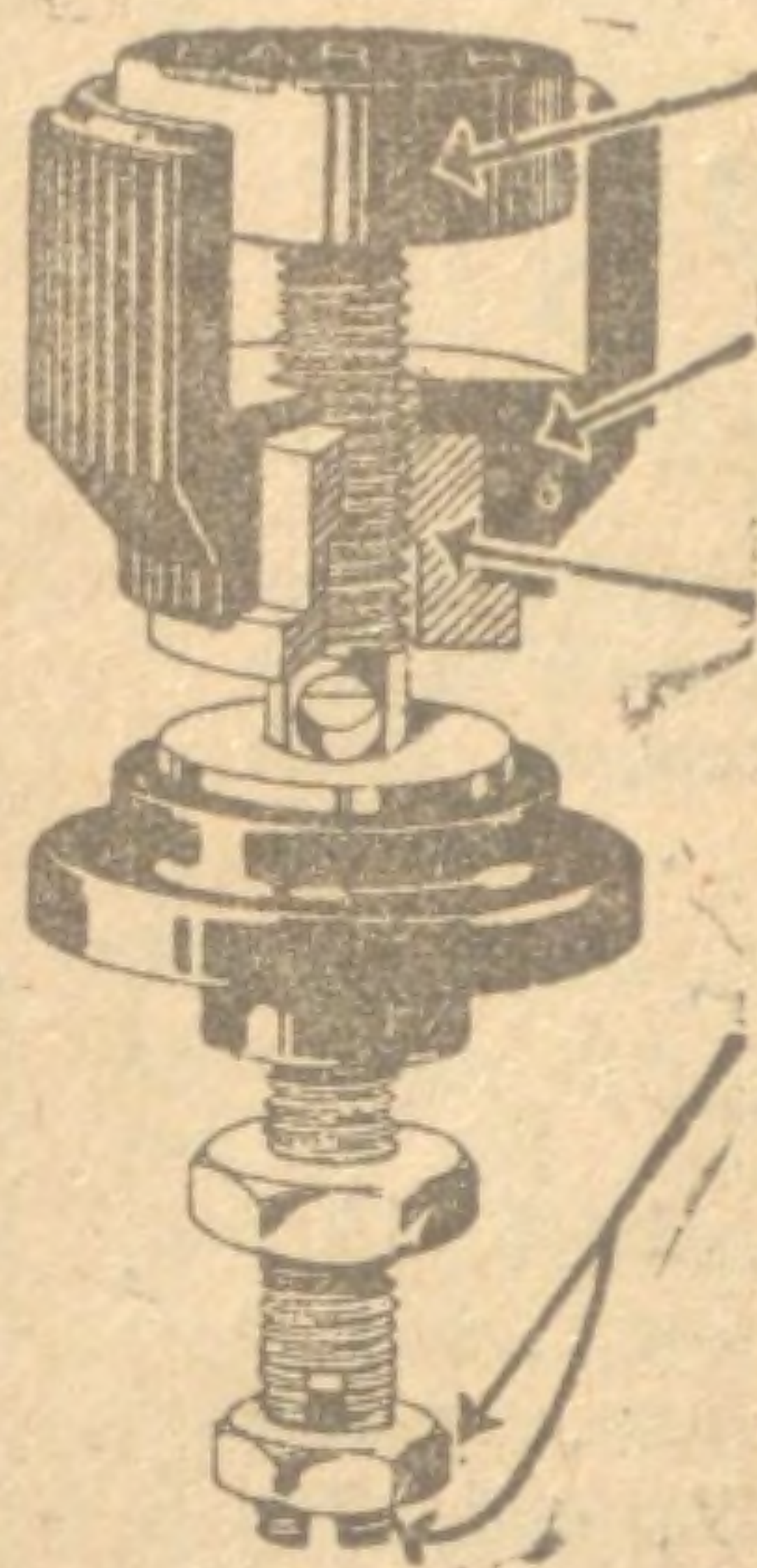
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- 10.33 p.m.—THE VAGABONDS:  
"Funny Tune" (Olsen).  
"I've Lost All My Love for You" (Young).  
"One Summer Night."  
10.48 p.m.—GORDON JAMES, Baritone:  
"Dancing Time in Kerry" (Hampson).  
10.51 p.m.—THE VAGABONDS:  
"Persian Rug" (Kahn).  
"Just Like the End of a Story."  
"Waitin' for Katy."

### MAY I HAVE THE PLEASURE?

- 11.1 p.m.—THE VAGABONDS:  
11.40 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

THURSDAY, 31st MAY, 1928.

### MORNING NEWS SESSION.

11 a.m. to 12 noon.

### MIDDAY CONCERT SESSION.

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

### MATINEE SESSION.

### ORCHESTRAL CONCERT.

- 2 p.m.—Ayaz Dansonians:  
A half-hour Dance Session by Melbourne's favorite Dance Band. All the latest hits, each one announced prior to its presentation.  
2.30 p.m.—Melbourne Concert Orchestra:  
"Spanish Dances, Nos. 3, 4, and 5" (Moszkowski).  
"Reverie" (Vieuxtemps).  
"Nocturne" (Chopin).  
2.47 p.m.—Miss Lilian Paton, mezzo soprano:  
"Danny Boy" (Weatherby).  
"It is not because your heart is mine" (Lohr).  
2.54 p.m.—Melbourne Concert Orchestra:  
Suite, "Indian Summer" (Lake).  
Selection, "The Maid of the Mountains" (Fraser-Simson).  
3.15 p.m.—Miss Lilian Paton, mezzo soprano:  
"The World is waiting for the Sunrise" (Ernest Seetz).  
"Comin' thro' the Rye" (Traditional).  
3.22 p.m.—Ayaz Dansonians:  
Fox trot, "I told them all about you" (Friend).  
Fox trot, "Dream Kisses" (Jerome).  
Waltz, "The Song is Ended" (Berlin).  
3.30 p.m.—Announcements.  
3.35 p.m.—Cookery talk by Miss G. Hughes, of the Colonial Gas Association.  
3.45 p.m.—Melbourne Concert Orchestra:  
"Where Nile Waters Flow" (Paul Andre).  
Selection, "Mary Jane McKane" (Youmans).  
4 p.m.—G.P.O. Clock says "Four."  
4.1 p.m.—Second Weather forecast.  
4.3 p.m.—Mr. Bernard Thomas, tenor:  
"Poet Song" from La Boheme (Puccini).  
"Mother O'Mine" (Tours).  
4.11 p.m.—Melbourne Concert Orchestra:  
"La Bella Espagnola" (Theo. Moses-Tobani).  
Selection, "Daffy Dill" (Stothart).  
"The Savoy Scottish Medley" (Somers).  
4.29 p.m.—Mr. Ken Code, trombone and Mr. Robert Adams, cornet:  
Duet, "A Night in Venice."  
4.33 p.m.—Mr. Bernard Thomas, tenor:  
"Love is waiting" (Squire).  
"Last rose of Summer" (Moore).  
4.40 p.m.—Ayaz Dansonians:  
4.55 p.m.—Special Racing report. Acceptances and Barrier positions for Saturday's Races by G.F.R.  
5 p.m.—G.P.O. Clock says "Five."  
God Save the King.

### CHILDREN'S SESSION.

- 6.30 p.m.—"Brer Rabbit's" entertainment.

### EVENING SESSION.

### SONG AND DANCE.

- 7.15 p.m.—Stamp Session. Mr. A. G. Kelson, Vice-President of the 3AR Stamp Club.  
7.25 p.m.—Early Victorian History. Mr. F. A. Currie's interesting talk this week will deal with "The Story of Jorgen Jorgenson. First Mate of the Lady Nelson, and sometime King of Iceland."  
7.35 p.m.—Sport Session. "Harlequin" presents his budget of up-to-date news and comments on Sport of the day.  
7.50 p.m.—Macnamara's Stock reports. McPhail Anderson's Pig Market.  
8 p.m.—G.P.O. Clock says "Eight."  
8.1 p.m.—Melbourne Concert Orchestra:  
Ballet Suite, "Coppelia" (Leo Delibes).  
8.25 p.m.—Miss Valerie Walsh, contralto:  
"Pleurez, Mes Yeux" (Massenet).  
"Michael's Flute" (Walter Rolfe).  
8.33 p.m.—Melbourne Concert Orchestra:  
"Two Hindoo Pictures" (Hansen and Lotter).  
"Three Irish Pictures" (John Ansell).  
8.50 p.m.—Announcements.  
9.2 p.m.—Miss Valerie Walsh, contralto:  
"Air de Salome" (Massenet).  
"Arietta" (Cyril Scott).  
9.10 p.m.—Melbourne Concert Orchestra:  
Ballet Music from "Dio Judin" (J. F. Halevy).  
"Neapolitan Fisherman" (Anton Rubenstein).  
9.28 p.m.—"Harlequin." Sport results.  
9.37 p.m.—Melbourne Concert Orchestra:  
"Scenes Pittoresques" (J. Massenet).  
10 p.m.—G.P.O. Clock says "Ten."  
10.1 p.m.—Semi-Final Weather forecast, specially for our Country Listeners.  
10.3 p.m.—Mr. Howard Andrews, baritone:  
"From Oberon in Fairyland" (Anon).  
"What a wonderful world it would be" (H. Lohr).  
10.11 p.m.—Melbourne Concert Orchestra:  
"Preghiera" (P. Tschaikowsky).  
Second Selection from "Lilac Time" (Ar. Clutsam).  
"Minnesold" (Joan Fresco).  
10.28 p.m.—Mr. Herbert Pettifer, violin:  
"Scene de Ballet" (de Beriot).  
10.34 p.m.—Mr. Howard Andrews, aritone:  
10.34 p.m.—Mr. Howard Andrews, baritone:  
"Love and Sleep" (F. Bennicke Hart).  
"Shall I wasting in Despair" (King).  
10.50 p.m.—"Age" News Bulletin, exclusive to 3AR.  
10.58 p.m.—Final Weather forecast.  
10.59 p.m.—Our Australian Good Night quote is taken from the poem, "The Ocean Beach" by Wilfred Mailler.  
11 p.m.—G.P.O. Clock says "Eleven."  
God Save the King.

## 4QG, BRISBANE.

THURSDAY, 31st MAY, 1928.

### MORNING SESSION.

10.30 a.m. to 11.30 a.m.

### MIDDAY SESSION.

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



1.20 p.m.—A lunch hour address.  
1.58 p.m.—Standard time signal.  
2 p.m.—Close down.

AFTERNOON SESSION.

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

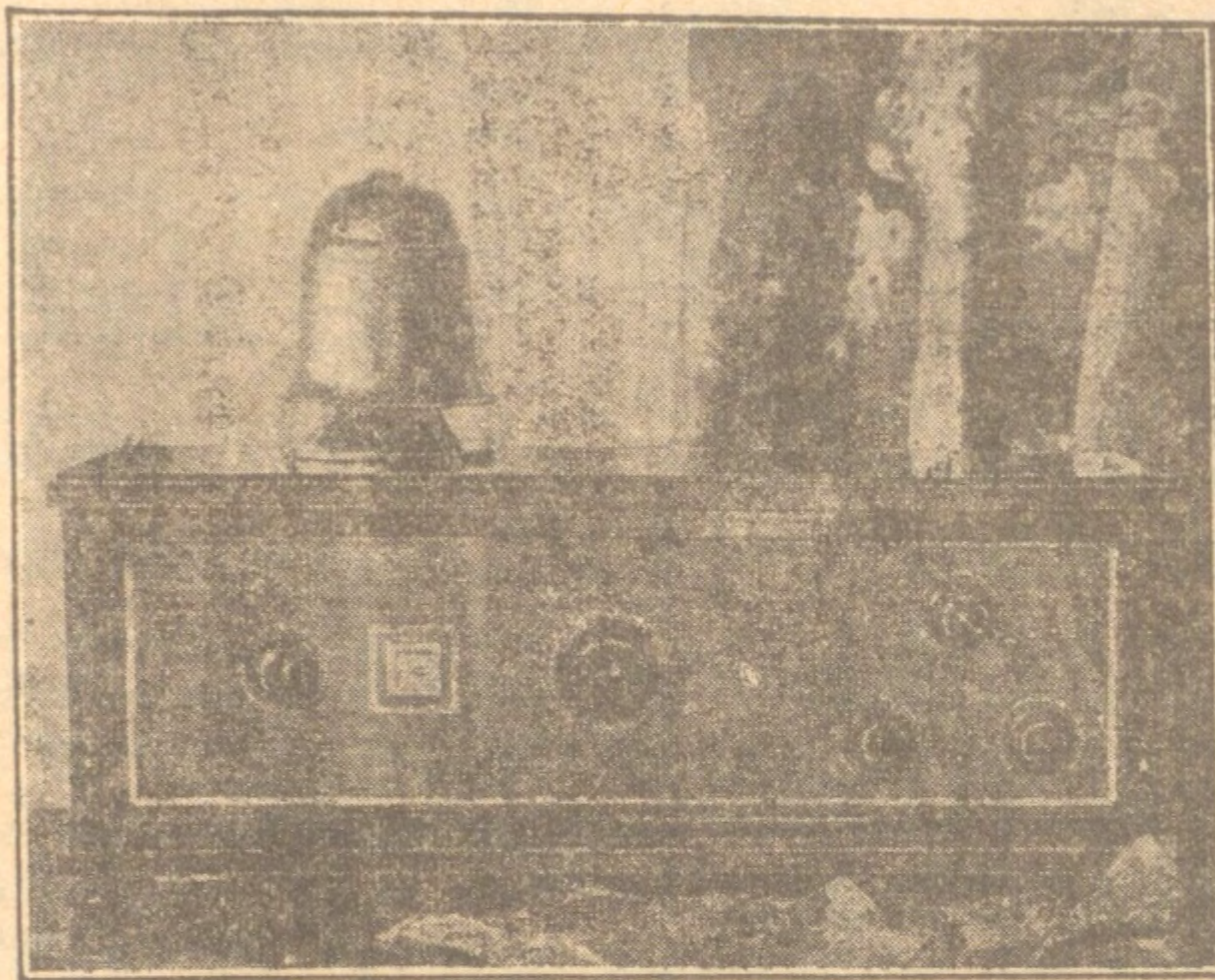
EARLY EVENING SESSION.

6 p.m.—Mail train running times.  
6.2 p.m.—"Daily Standard" news.  
6.8 p.m.—Stock Exchange information.  
6.9 p.m.—Metal quotations.  
6.10 p.m.—A talk to motorists, "Carburettor and Carburettor Adjustments," by "Gargoyles."  
6.28 p.m.—Announcements.  
6.30 p.m.—Bedtime stories by "The Sandman."  
7 p.m.—Special news service.  
7.3 p.m.—Market reports.  
7.25 p.m.—Fenwick's stock reports.  
7.30 p.m.—Weather information.  
7.40 p.m.—Announcements.  
7.43 p.m.—Standard time signals.  
7.45 p.m.—Lecturette: "Progress of Agriculture in Queensland," by Mr. J. F. F. Reid (Editor, "Queensland Agricultural Journal").

NIGHT SESSION.

The South African War Veterans' Smoke Concert will be relayed from the Anzac Club.  
National Anthem.  
Overture.  
Selected.  
Mr. J. Drury's Orchestra.  
Toast—"The King."  
The President.  
Song:  
Selected.  
Mr. J. E. England.  
President's Address.  
Song:  
"Vale" (Russell).  
Mr. V. A. Connolly.  
Address:  
His Excellency the Governor.  
Orchestral item:  
Mr. J. Drury's Orchestra.  
Toast:  
"Navy and Army"  
Captain Jones.  
Orchestral item:  
Mr. J. Drury's Orchestra.  
Response:  
"Navy and Army"  
Naval and Military Commandant.  
Song selected.  
Mr. Fred Homer.  
Response:  
"The Veterans."  
Captain R. B. Echlin, V.C.  
Orchestral item:  
Mr. J. Drury's Orchestra.  
"Departed Comrades."  
Mr. H. G. Fordham.  
"Last Post."  
Bugler Shaw.  
"Lament."  
Pipe-Major A. McLelland.  
Song:  
"Trumpher."  
Mr. J. E. England.  
Toast:  
"Visitors, Artists, Kindred Associates."  
Major H. R. Carter.  
Song:  
"Harlequin" (Sanderson).  
Mr. Fred Homer.  
Response:  
"The Visitors."  
Orchestral item:  
Mr. J. Drury's Orchestra.

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Guaranteed! One-dial Control!  
"D.J." SUPER-SIX

for £4/10/- deposit

For its simplicity and clarity of reproduction the "D.J." Super-Six has become famous. A Set that is operated by the simple turning of one dial. Receives true and clear from all Broadcasting Stations in the Commonwealth (except Perth.) Built by experts, it is a "King Quality" Six-Valve Receiving Set of the finest type produced. Buy one for its tone, volume, selectivity and fine reproduction. Each set is fully guaranteed by David Jones' and complete with all accessories ready to instal. Deferred rates system, £4/10/- deposit and 17/3 per week for one year. Cash Price .. .. £45

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Renrade Condensers, Leaks.

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Airzone Coils and Loops.

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Long Life B. Batteries, 45  
Volt ..... 18/9  
Accumulators, 6V., 120A.  
Price ..... £3/19/-  
.0005 Variable Condensers.  
Price ..... 6/6  
Condenser and Ver. Dial,  
Price ..... 7/6  
Jacks, double and single, 1/-  
Neut. Kits ..... 10/6  
30 ohm. Rheostats ... 1/11  
Valves, 201A Type ... 6/9  
B. Battery Eliminator.  
Price ..... £5/17/6  
A. Battery Charger, £3/15/-  
Transformers ..... 10/6  
Volt Meters ..... 3/9

Open on Friday Night.

Complete Sets.  
Cash or Terms.

**C. A. HOLMES,**  
515 GEORGE ST., SYDNEY  
Near Regent Theatre.

Song:  
"The Curfew" (Gould).  
Mr. Vinc. A. Connolly.  
"Press."

Mr. W. H. Penhaligan.

Orchestral item:

Mr. J. Drury's Orchestra.

Response:

"The Press."

Accompanist:

Mr. Archie Day.

10.15 p.m.—"The Daily Mail" news. Weather  
news.  
Close down.

## 5CL, ADELAIDE

THURSDAY, 31st MAY, 1928.

### AFTERNOON SESSION.

8.30 p.m.—Cheer-Up talk by Rev. C. H. Nield.  
3.45 p.m.—Orchestral selections.  
4.57 p.m.—S. C. Ward and Co.'s Stock Ex-  
change Intelligence.  
5 p.m.—G.P.O. Chimes and close down.

### EVENING SESSION.

6 p.m.—G.P.O. Chimes.  
6.1 p.m.—Children's entertainment.  
6.30 p.m.—Dinner Music from the studio.  
7 p.m.—G.P.O. Chimes.  
7.1 p.m.—S. C. Ward and Co.'s Stock Ex-  
change Intelligence.  
7.7 p.m.—General Market reports by A. W.  
Sandford and Co., A. E. Hall and Co., Dal-  
gety and Co., S.A. Farmers Co-operative  
Union Taylor Bros., Retail Grocer's Asso-  
ciation, Interstate Fruit and Produce Mar-  
ket Co. Ltd., "Windbag's" Sporting service.  
7.15 p.m.—Talk by Rev. E. S. Kiek, M.A.,  
Pioneers of Great Britain, "Admiral Blake."  
7.30 p.m.—"Better Homes" talk by Slaters  
(Furnishers) Ltd.  
7.40 p.m.—A. M. Whittenbury will talk on  
"Poultry."  
8 p.m.—G.P.O. Chimes.  
8.1 p.m.—Novelty Broadcast.  
8.21 p.m.—Grosvenor Orchestra.  
8.30 p.m.—Windarra Quartette.  
8.36 p.m.—Smith and Dickie, banjo duettists,  
In a novel offering.  
8.41 p.m.—Grace Cussion, soprano.  
8.47 p.m.—Grosvenor Orchestra.  
8.55 p.m.—Ken Hughes, tenor.  
9.1 p.m.—Meteorological information, weather  
forecast.  
9.2 p.m.—Dalgety's Wheat report.  
9.4 p.m.—International News.  
9.12 p.m.—Windarra Quartette.  
9.17 p.m.—Grosvenor Orchestra.  
9.23 p.m.—W. Palmer, baritone.  
9.26 p.m.—Grace Cussion, soprano.  
9.31 p.m.—Organ recital by Miss Coudrey.  
9.46 p.m.—Grosvenor Orchestra.  
9.51 p.m.—Eric Wickens, basso.  
9.54 p.m.—Smith and Dickie, banjoists.  
9.58 p.m.—Windarra Quartette.  
10.1 p.m.—"The Advertiser" news service.  
10.8 p.m.—"Windbag's" Sporting Service.  
10.12 p.m.—Organ recital by Miss Coudrey.  
10.29 p.m.—Ken Hughes, tenor.  
10.32 p.m.—Grosvenor Orchestra.  
10.39 p.m.—The Glenelg Maison Dance Band.  
10.55 p.m.—Meteorological information and to-  
morrow's programme.  
11 p.m.—G.P.O. Chimes and National Anthem.

## Queries Answered

W.J.M. (NEWCASTLE): The powder used  
with your trickle charger is ammonium  
phosphate. This is obtainable at any chem-  
ist. The reason you can hear the transformer  
humming is due to the increased load which  
is caused by an almost complete short through  
the jars. Water has a high resistance which  
is easily broken down by a high voltage.  
Clean out the jars, but do not under any cir-  
cumstances scrape off the white film on the  
aluminium electrode, as this is the "Form"  
which enables the rectifier to function.

GENERAL: Many queries are to hand re-  
garding the number of turns for the coils in  
the Harkness Reflex Two. The article was  
republished in "Wireless Weekly" for April  
6th, with the wrong circuit diagrams. The  
corrected diagrams for the previous article  
were given in the issue for April 13th. If  
readers will work from the article in the  
April 6th issue and use the diagrams given in  
the April 13th issue, disregarding the others,  
no confusion should exist.

B.E.C. (INVERELL): In "Radio" for March,  
1928, you will find the 1928 Browning-Drake  
with its various amplifiers. The impedance  
coupled amplifier will be suitable for your  
purpose. The theoretical circuit diagram is  
given with the article, and this amplifier  
used with the correct power valves and grid  
biasing is capable of good volume without  
any trace of distortion. There is no reason  
why you should not carry out your demon-  
stration, provided there is no obstruction to  
the roadway and that all the people are ac-  
commodated on your own property. There is  
less likelihood of trouble in this way in the  
country than in the city. The Amplion Micro-  
phone would be ideal for the purpose, but will  
require a microphone amplifier for best  
results.

C. St. Q. (MOREE): The Philips' A435  
valves will be quite suitable for use in your  
Neutrodyne, and should not present any dif-  
ficulty in neutralisation of the R.F. stages.  
These valves are capable of very high ampli-  
fication. A very fine radio frequency control  
is effected by the use of the Phasatrol which  
is a simple stabilising device. The use of  
this unit precludes the necessity for neutralisa-  
tion.

A.H.S. (CABRAMATTA): Instructions for  
the building of a trickle charger appeared in  
"Wireless Weekly" for May 11th.

CONDENSERS (BATHURST): Both the  
condensers you have are of 00025 mfd. capa-  
city. Normally, this capacity is too high  
for the tuning of the grid circuit of a short  
wave receiver. If possible dismantle one and  
double space both the stator and rotor plates  
with four rotor and three stator plates.

D.X. (ENFIELD):—You would obtain a nega-  
tive bias of 3 volts using a 6 volt battery,  
with the filaments wired as shown. It is de-  
sirable to wire the returns both to the A  
negative in preference.

W.O.T. (COOGEE):—The particular receiver  
described in "Radio" has since been vastly im-  
proved, and I advise you to use the Radiokes  
Reinartz coil kit in preference. Many re-  
ceivers have recently made their appearance in  
"Wireless Weekly," and are vastly superior.  
I advise you to make the Purimax Three de-  
scribed in "Wireless Weekly" for February  
17th, 1928.

S.R.W. (KENSINGTON):—It depends on the  
method of neutralisation employed. Adjust  
the neutralising condensers by means of a  
long wooden handled screw driver. The cor-  
rect position is quite easily found, but is in  
most cases very critical.

J.O.D. (FARREL'S FLAT, S.A.):—The igni-  
tion system of such lighting systems is a  
great source of trouble. Try first of all using  
a counterpoise in conjunction with total shield-  
ing of your receiver. Next enclose the igni-  
tion lead or leads in lead covered cable and  
earth the lead sheathing through a fixed con-  
denser. If your aerial is in the same plane  
as the house wiring system from the generat-  
ing plant, you will experience great diffi-  
culty in eliminating the interference.



## Queries Answered

P.M.H. (LISMORE).—Your information regarding exceptional reception of the American station 9XF is very welcome. Unfortunately, we ourselves are unable to give any preceding information regarding such transmissions, as we do not receive such information from America, in advance. It is more than likely however, that the same transmission would have been inaudible in Sydney. There is no comparison between the atmospheric conditions existing in your location and in Sydney.

F.J.N. (MOSMAN): Your Five valve Circloid type receiver will be much more easily neutralised if you use more suitable valves in the RF stages. General purposes valves of the kind you are using are not over efficient, and should be replaced by valves of a high impedance specially designed for use as RF amplifiers. The Cossor 610 (red-band) is a particularly efficient RF amplifier and I recommend these. You will certainly obtain more consistent results by the use of shielding as you suggest. This must be done thoroughly and must be complete.

A.H. (KIAMA): The trouble may be due to faulty resistances in your R.C.C. amplifier or to incorrect valves. If the C battery is discharged this would also cause a loss in volume. Try different plate and grid resistances before changing the C battery.

H.C.S. (RICHMOND): As you enquire regarding Cossor Valves and the Peridyne Five; this make of valve gives outstanding performance in the circuit. You may use either the four of six volt type with equally consistent results. The combination is First RF 610 (red-band) Second RF 610 (red-band) Detector 610 (red-band) First audio 610 (black-band) and Second audio 610 (green-band) or 610 FP (green-band).

Three Emmco Stratelyne .0005 condensers ganged will be suitable for use in the Peridyne provided that they are all ganged on the same shaft. Independent condenser control is out of the question, as this would defeat the object of the Peridyne compensators. No alteration is necessary to use a B Eliminator with the Peridyne Five.

W.C. MARRICKVILLE): You will gain no direct advantage by substituting the circuit you mention in preference to the Browning Drake. The Browning Drake circuit is capable of obtaining the utmost efficiency from one stage of Radio frequency amplification if correctly applied. There is no reason why a high impedance valve will not function in the circuit provided that the valve is not faulty in any way.

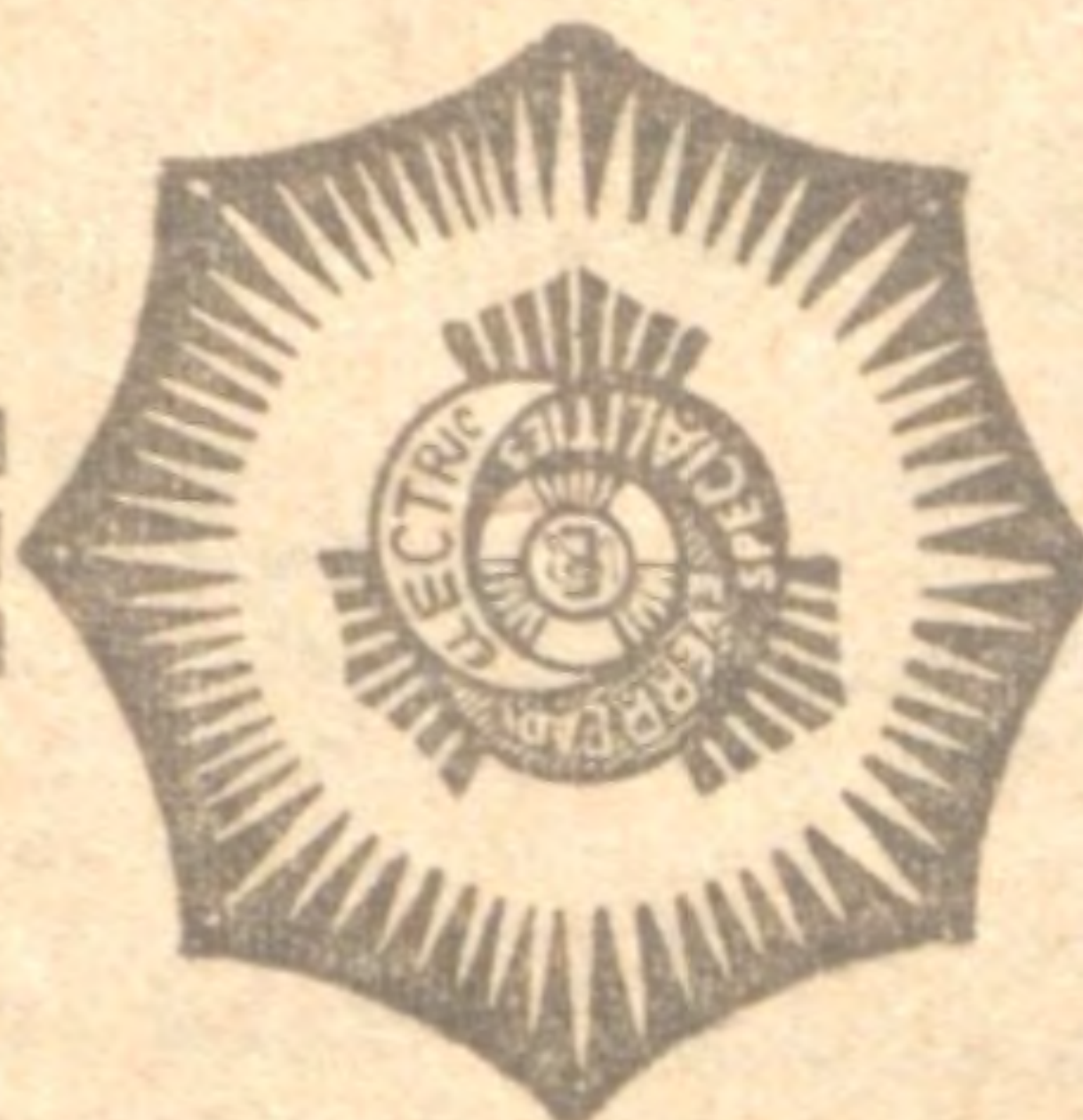
F.R. (NEWCASTLE): You may use an ordinary valve such as the 201A for rectification in the usual way by connecting together the plate and grid and using these as one common element. More current will be passed by using two or more valves in parallel.

B.B. (BURRAGATE): A short wave adaptor may be used with the Marco Four in the usual way by removing the R.F. valve and plugging the adaptor into the detector valve socket in the usual way. It is out of the question to substitute a carborundum detector for the grid leak and condenser in the adaptor. The crackling you experience in your set is probably due to a faulty inter-valve transformer or internal resistance in the B batteries due to defective cells.

L.C. (DARLINGTON): The circuit you have enclosed is that of a two valve Reinartz. The method of adding a stage of R.F. amplification to this will be found in the Marco Four, which is a reinartz receiver plus R.F. amplification.

J.C. (LEICHHARDT): The coils for the Gloomchaser Five consist of 90 turns of 28 D.S.C. wire space wound for the secondary and 35 turns of No. 30 D.S.C. wire, close wound for the primary. These are wound on a 2 inch diameter former, with a space of approximately 1/4" between windings. The shield must be of sufficient diameter to allow a space of at least one inch between the coil unit and the inside of the shield. The compensator is simply a metal disc 2 1/2 inches in diameter arranged on a threaded spindle for fine adjustment above the coils. I advise you in preference to making your own, to try the Radiokes Peridyne Kit.

Look for the name  
"EVER-READY"



and this  
TRADEMARK

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When you buy a Radio Battery you demand something else besides performance—if you are wise, you have an eye for economy, too. It's a commonsense question of how much honest value-for-money power you are getting, at the price you have to pay.

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A "C" Battery gives a quality of reception unobtainable without it, and greatly increases the life of your "B" Batteries.  
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## All Readers' Queries Answered Here

A.P.W. (BUCA BAY, FIJI): I thank you for the circuit diagram of your receiver and can only say that you must be in an excellent locality for reception such as you obtain. The circuit you have enclosed is of the conventional "tuned Anode," now seldom if ever used in modern practice. I suggest that you will obtain even better results by the use of a receiver such as the Browning-Drake, or the Peridyne Five. The latter receiver has appeared in "Wireless Weekly" under the title of "The Gloomchaser Five." This is a very excellent receiver and in your case should be capable of amazing results. The Peridyne coil kit may be obtained in Sydney from the Radiokes people. There is one error in the diagram you enclosed, which is rather serious, and that is that you show the B positive connected to the A negative. As in the circuit diagram the B negative is connected to A positive, this means that such a previous connection would burn out your valves. I presume that this is an error in your sketch, as apparently your receiver is functioning well. Your letter with list of stations heard was greatly appreciated.

E.E. (MATRAVILLE): The Quality Six is certainly a good receiver for your requirement, yet in preference I would recommend the "Gloomchaser Five" mentioned in the query above. The "Gloomchaser Five" will be ideal for use with a gramophone pickup or a short wave adaptor. A very fine cone speaker is the Amplion or the B.G.E., which are both to be recommended in preference to the unit you mention.

R.W.J. (ATTUNGA): It would not be any improvement to incorporate a crystal detector in your Solodyne receiver in any way. The best method of doing this is in the regenera-

tive interflex incorporated in the "Gloomchaser Five."

A.C. (LEWISHAM): Normally it is not feasible to use a short wave adaptor with your Harkness reflex receiver. I advise you to build a separate short wave receiver.

E.L.P. (THEODORE, Q.): The diagram of the Harkness Reflex you enclose is quite correct. You will note that this receiver has just been republished in "Wireless Weekly" for April 6th, 1928, but in that issue the wrong diagrams were printed, the corrected diagrams were given in "Wireless Weekly" for April 13th.

W.G. (MARRICKVILLE): A C battery may be used with your Harkness two valve reflex receiver by connecting the negative terminal to the F terminals of both transformers and the positive to the A negative of the filament supply. The advantage of the stabilised carborundum crystal unit over the carborundum detector itself is that the correct voltage potential may be maintained across the crystal, thus increasing sensitivity.

S.G.M. (MOSS VALE): You may effect rejuvenation of your valves by the use of the B eliminator in place of B batteries, in the same way as described in "Wireless Weekly." Keep the filament connections as normally used and simply reverse the B eliminator connections.

T.F. (CANTERBURY): If you proposed adding an extra stage of audio to your Reinartz Two, it will be better to obtain another Mullard PM4 valve. Use this with a transformer of  $3\frac{1}{2}$  to 1 ratio. The method you are using for running your discharged dry cells in a solution of Sal-Ammoniac, and water will be satisfactory for a short period only. When the zincs are eaten away, the

batteries will be useless. It will be better to obtain a 4-volt accumulator.

ANXIOUS (THIAROUL): The "Gloomchaser Five" in "Wireless Weekly" for May 4th.

CRYSTAL (WILLOUGHBY): The only explanation to your broad tuning with your crystal receiver is that the aerial is far too long. Try reducing this by a third. A crystal set is capable of interference with other listeners in a very distracting way. If a nearby valve receiver is tuned to the same wavelength and the Crystal user is repeatedly adjusting the contact on his crystal, this will be evident in the other receiver in the form of scratching noises, not unlike a faulty B battery or static.

W.A.H. (DRUMMOYNE): Try an aerial with a maximum length of 60ft. overall, and if this does not have the desired effect, your only recourse will be a wave trap.

If B.R.L., who recently inquired for the copy of "Wireless Weekly" containing the all-Australian 3-valve set, will write to Mr. N. V. Denham, 10 Carr Street, North Sydney. Mr. Denham will be pleased to post the copy.

J.K. (NORTH SYDNEY): You should find the Radiotron UX200A an excellent detector valve for use in your Solodyne. The Rauland Lyric Trio will give you excellent undistorted amplification in place of two intervalve transformers.

D.R. (WILLOUGHBY): The method of connecting the 0001 fixed condensers to increase the capacity of your 00035 variable condensers is quite simple. This is done by connecting the fixed condenser straight across the variable condenser, thus effecting an increase in capacity to the amount desired. By placing two fixed condensers in series, the result is to halve the capacity of each.

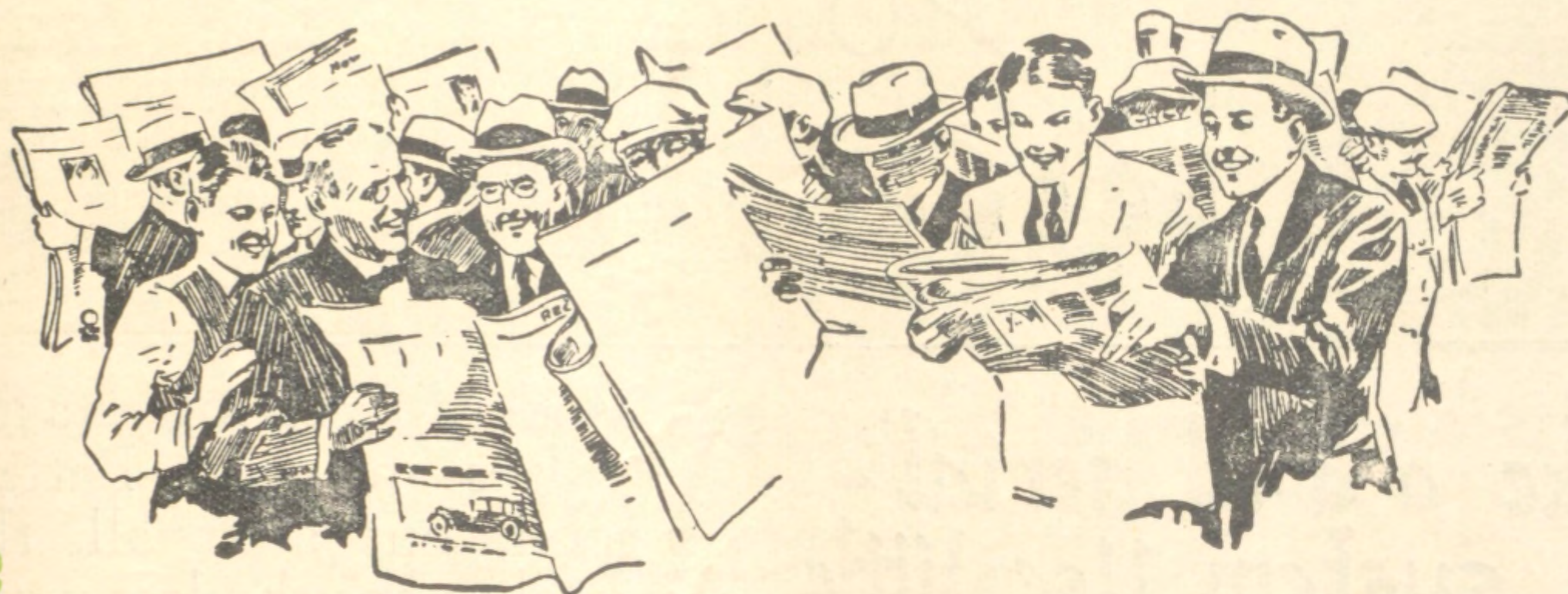


*The 1928 Exide-Delco Launch Picnic at Middle Harbor was a huge success, if the cheerful expressions on the faces of the picnickers alone can be taken as an indication.*



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The

## Westinghouse "REC-TOX"

### Battery Charger

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Made by "WESTINGHOUSE"  
incorporating new Rectifying  
principle. . . . .

**ABSOLUTELY DRY—**

No acid or bulb to replace.

**REQUIRES NO ATTENTION—**

No vibrating parts to get out of  
order.

**LIFE OF RECTIFYING ELEMENT**

practically unlimited.

OBTAINABLE FROM ALL RADIO DEALERS.

**Amalgamated Wireless**  
*(Australasia) Ltd.*

**WRITE TO-DAY**

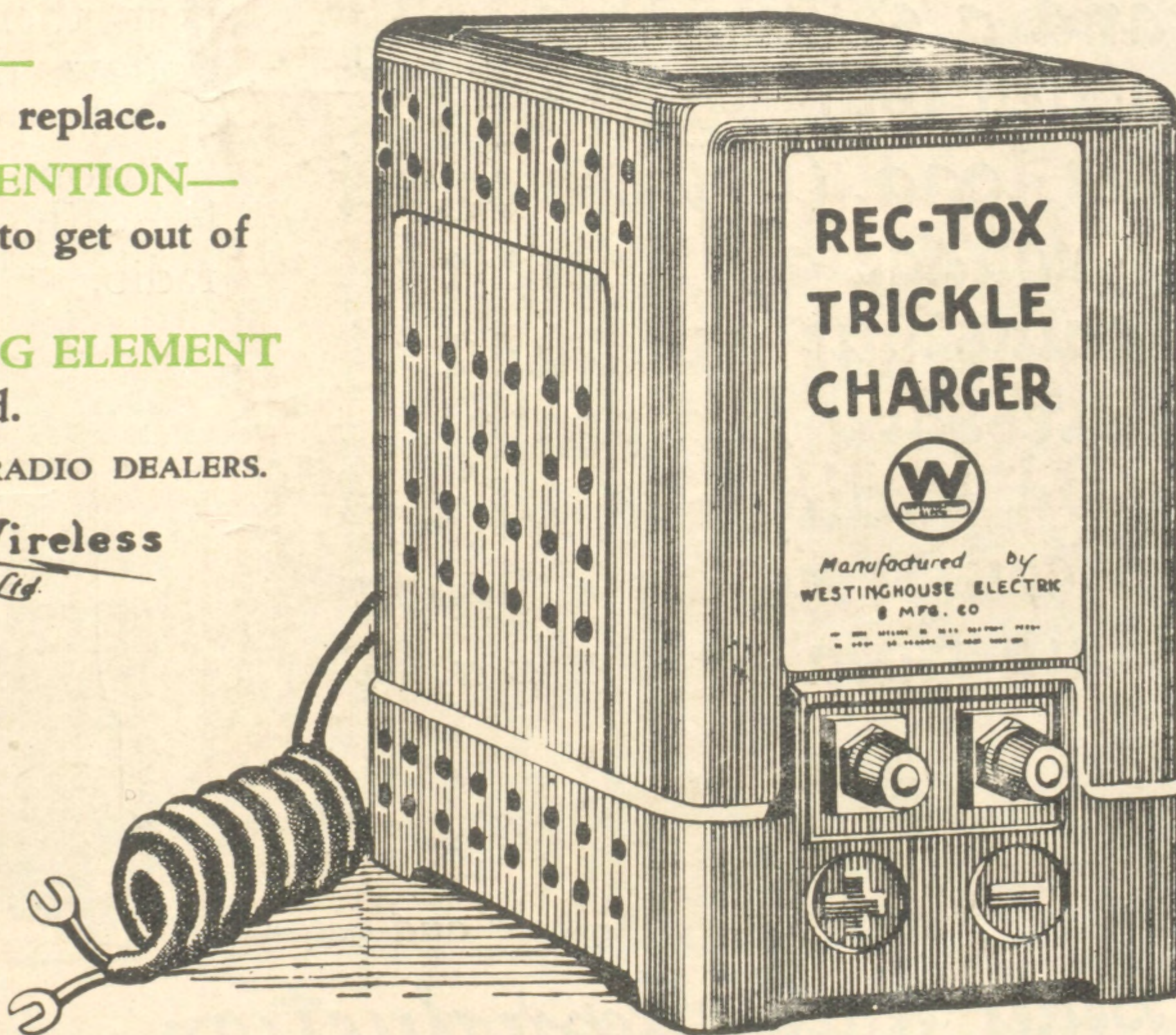
Amalgamated Wireless (A/sia)  
Ltd. 47 York St., Sydney.

Please send me your illustrated  
folder on Rectox Trickle Chargers.

Name .....

Address .....

ISA





# A proved recipe for Good radio

Take a good aerial-earth system. Use little if any reaction. Fit the correct valves using a "power" or "super power" in the last stage. ~ ~ ~

Provide ample "B" volts and a source of supply which will stand up to the load. Add the correct "C" voltage and there remains but one thing necessary for really good radio, and that of course, is an Amplion Loud Speaker ~ ~ ~ ~ ~

Use an

## AMPLION

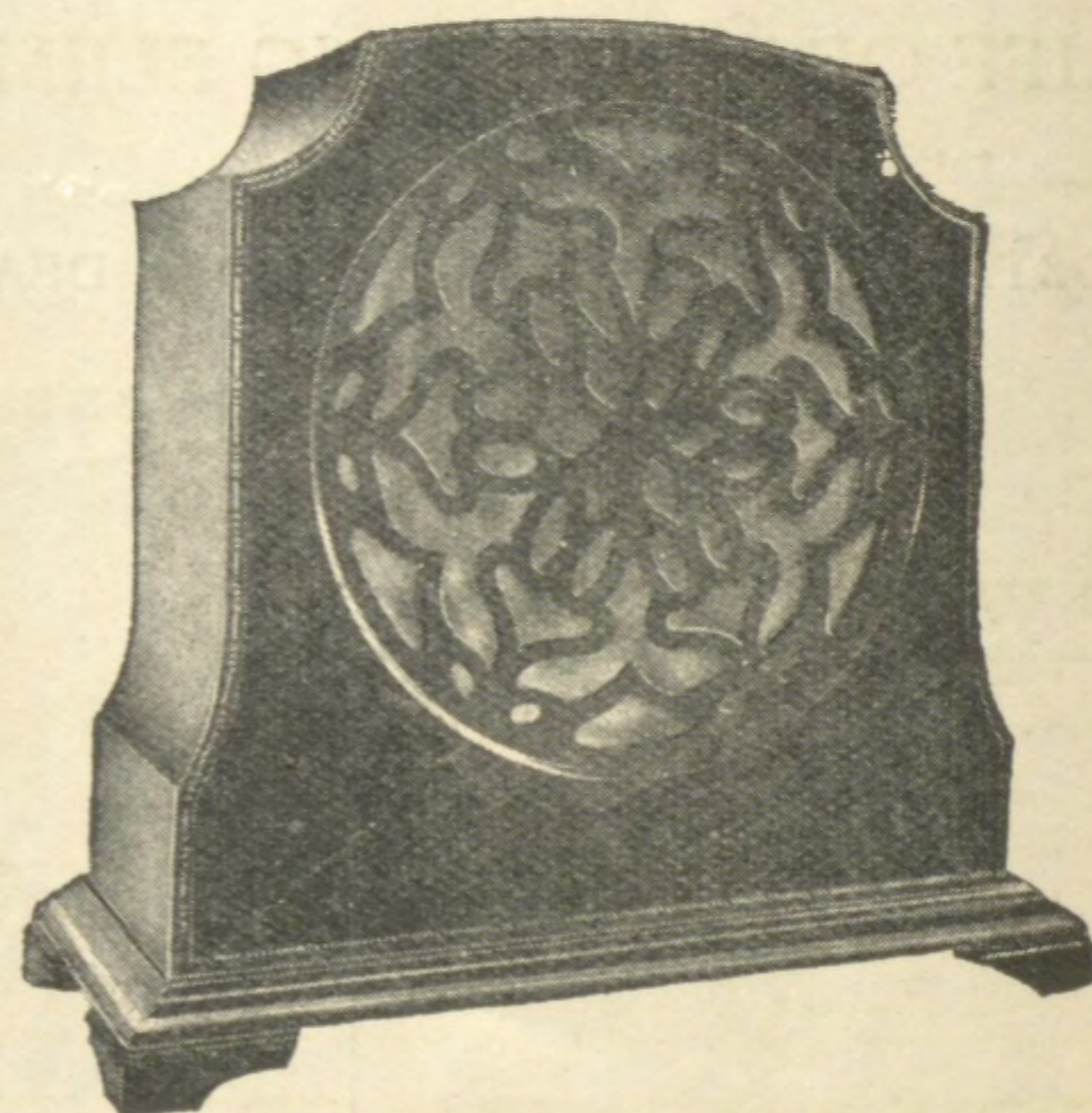
and get

### Better Radio Reproduction

Modern receiving sets are good, Valves are good, Batteries are good, but after all, the loud speaker has the last word. Unless the speaker is good, reproduction cannot be good.

*The Amplion is a good speaker.*

Ask your dealer, your friends, your local Radio Society or your Broadcasting Stations. They all use Amplions and will tell you that there is nothing better. Follow the recipe using an Amplion (preferably with a "Siftron" in circuit) and you will know the pleasure of really good radio.



"Chippendale Mahogany"

Model AC 9. Price £9/-/-.

Other Amplion Cones from 55/-